Copeland Borough Council

Leconfield Industrial Estate,

Cleator Moor

Geo-Environmental Desk Top Study

December 2019

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Contents Page

1.0 EXECUTIVE SUMMARY 4

2.0 INTRODUCTION 6

3.0 SITE SETTING 8

4.0 ENVIRONMENTAL SETTING 10

5.0 SITE HISTORY 15

6.0 HISTORICAL REPORT REVIEW 17

7.0 GEOLOGY, HYDROGEOLOGY AND HYDROLOGY 20

8.0 PRELIMINARY CONTAMINATION RISK ASSESSMENT 32

9.0 IN-GROUND GEOTECHNCIAL CONSTRAINTS 39

10.0 CONCLUSIONS & RECOMMENDATIONS 40

Drawings

Drawing No. A114312-MAN-N-01 - Site Location Plan.

Figure 2 – Walkover Photo Plates

Figure 3 – Walkover Photo Plan

Appendices

Appendix A – Report Conditions

Appendix B – Environmental Database Records

Appendix C – Historical Maps

Appendix D – Coal Mining Reports

1.0 EXECUTIVE SUMMARY

Current Site Status and Future Development	The site is currently occupied by Leconfield Industrial Estate in Cleator Moor, Cumbria. No proposed development plans are currently available however the site is to remain as commercial usage.
Site and Surrounding History	Earliest historical mapping shows a number of water features which were subsequently infilled. From 1863, the site was developed with an iron and steel works with associated infrastructure including a railway and slag heaps. From 1962, the site was developed as Leconfield Industrial Estate which remains to the present day. Surrounding the site, was railway land with a series of ponds and pits to the south and east, which were later infilled. A Goods Station was present in the south-east which later became allotment gardens.
Environmental Setting	There are several former water features recorded as being infilled on-site and a Licenced Waste Management Facility (Whitehaven Skips). A historical landfill is located 105m to the west.
Geology	Published maps provide evidence that Made Ground is present on site associated with historical development at the site. Superficial deposits are reported below the Made Ground which is Glacial Till (Clay). There are four faults at the site, three of which define the bedrock beneath the site. The Henry Pit fault located two thirds up the site is orientated east-west, two other faults are truncated by the Henry Pit fault on the eastern part of the site and a further smaller fault impinges in the far west. To the north of the Henry Pit fault is the Whitehaven Sandstone Group. To the south of the fault is the Eskett Limestone, overlying this is the Yoredale Parent Group and above this is the Middle Coal Measures. The geology has been confirmed (primarily to the east of the access road) through historical investigations at the site.
Mining	The site is in an area which may be affected by coal mining with the west of the site recorded as being within a High-Risk area for development. There are three coal seams which have been worked beneath the site and eight mine entries on or within 20m of the site. No information relating to shaft depth or treatment details were available. Extraction of an iron ore band within the Sandstone in the east and south of the site may have also occurred on site. Two shafts off-site were sunk for the extraction of the band.
Hydrogeology	Superficial Deposits are classified as Secondary (Undifferentiated) Aquifer with the bedrock classified as a Secondary A Aquifer. The site is not located within a source protection zone.
Hydrology	There are no surface watercourses present on site, Nor Beck (culverted) is present adjacent to the western boundary of the site. There are no active surface water abstractions at or within 250m of the site. There is potential for flooding to occur on the western site boundary from Nor Beck.
Preliminary Contamination Risk Assessment (PRA)	The contamination risks posed by the on-site sources to the majority of receptors is considered 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). There is a moderate risk from off-site sources to all receptors on site.
Geotechnical Considerations	Potential land stability issues may arise in the western portion of the site from the possible presence of shallow coal mine workings and from potentially untreated mine shafts in this area. The distance to an off-site shaft to the west of the site should also be considered. The presence of slag material and general backfill from the sites historical past will need to be considered for future foundation options. Investigation within the western part of the site needs to be carried out to determine if slag deposits/fill are present in this area. There is also the potential for shallow workings within the iron band

	in the east which may pose a land stability issue. Four faults transect the site which may pose a risk in relation to differential settlement across foundations.
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.
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.

2.0 INTRODUCTION

2.1 Instruction

WYG Environment Planning Transport Ltd (WYG) was commissioned by Energy Coast West Cumbria (Properties) Ltd ('BEC') on behalf of Copeland Borough Council to undertake a Geo-Environmental Desk Top Study for a site known as Leconfield Industrial Estate in Cleator Moor, Cumbria. The site's location is shown on Drawing No. A114312-MAN-N-01.

2.2 Objectives

Principal objectives of the commission are to provide an initial assessment of ground conditions, environmental setting, potential ground related constraints, develop a Conceptual Site Model (CSM) and undertake a Preliminary Risk Assessment (PRA) for the site.

2.3 Scope of Services

In order to achieve the above objectives, the following scope of works has been determined:

- A discussion of the site's current status and undertaking of a site walkover on 21st November 2019;
- Review and discussion of environmental database information (Envirocheck™ report);
- An historical site and area review, referring to past editions of Ordnance Survey maps;
- A discussion of the expected ground and groundwater conditions by reference to geological and hydro-geological mapping;
- Procurement and review of bespoke Coal Authority coal mining reports (Consultants Coal Mining Report, basic Coal Mining Report and 7 no. Mine Entry Data Sheets);
- Review of WYGE Ground Investigation Factual Report, ref: E11683-GI-FAC, issue 1, June 2007 (written on behalf of West Lakes Renaissance) – for information only;
- Review of WYGE Ground Investigation interpretative Report, ref: E11126, issue 1, April 2007 (written on behalf of West Lakes Renaissance) – for information only;
- A qualitative Preliminary Land Contamination risk assessment (PRA);
- An assessment of in-ground constraints; and,

- Production of a report capturing the above information.

2.4 Proposed Development

Proposed development plans are yet to be confirmed. It is anticipated that the development will remain similar to that presently i.e. commercial purposes only.

2.5 Report Conditions

Attention is drawn to the report conditions included in Appendix A. This report includes a review of a historical WYGE reports (ref: E11126/R001/V1, April 2007 and E11683-GI-FAC, issue 1, June 2007). Whilst this information has been presented in good faith, it was written on behalf of others and so has been presented as 'information only'.

3.0 SITE SETTING

3.1 Location & Size

Key details for the site are provided in Table 3.1 below.

Table 3.1 Site Address and Size

Address	Leconfield Industrial Estate, Cleator Moor, CA25 5QQ
Grid Reference	301380, 515510
Site Area	15.46 hectares (ha)

3.2 Site Description & Walkover

General

The assessment of the site and its surrounds has been obtained from a site walkover undertaken on 21st November 2019. At the time of the walkover, the site units were not accessible and therefore the walkover was undertaken on the publicly accessible areas. Photographs together with a photograph location plan are presented as Figure 2 and 3, respectively.

Access to the site is via a gate (open during business hours) off Leconfield Street. The site is bisected centrally by a road orientated north east to south west, called Little Croft / an extension of Leconfield Street, with many of the site's businesses concentrated around it. Much of the site was covered in hardstanding comprising of asphalt and concrete. Unkempt grassland was present along the site boundary with a larger boggy area to the east. Whilst the majority of the site is level there is a fall in gradient to the western site boundary.

East

The east of the site is defined as land located to the east of Little Croft / Leconfield Street.

'BOC Ltd - Cleator Moor' is located in the north-east of the eastern part of the site which comprises the storage of various gas canisters/holders located on a large concrete slab and a single-story portable office unit. The area is secured with palisade fencing around its perimeter. Whitehaven Skips and Service Ltd is located just beyond with a gated compound comprising a large waste stockpile and a caravan. Outside of the fence line are several skips, stored on a concrete slab.

To the south of Whitehaven Skips is unkempt boggy grassland which was strewn with litter. There are several smaller units to the west of BOC Ltd, one of which was being used as a parcel sorting depot. To the north of the parcel depot, located on soft landscaping is a Northern Gas Networks service marker.

To the west of the parcel depot is an active children's nursery with adjacent unoccupied units. To the south of the nursery, immediately adjacent to the east of Leconfield Street / Little Croft is Forth UK, an engineering manufacturer with two large concrete slabs occupying the footprint of historically demolished buildings beyond. Several small areas of fly tipped material were noted on the concrete slabs mainly consisting of bricks.

Immediately adjacent to Leconfield Street / Little Croft in the south-east is Capalex, an Aluminium manufacturing and distribution centre.

West

The west of the site is defined as land located to the west of Little Croft / Leconfield Street.

In the far north-west of the site is a vehicle repair garage with a tyre recycling centre and vehicle storage (access not available at the time of the visit). To the south of this is a further Forth UK unit. Beyond which are disused works/warehouses with external above ground storage tanks located within fenced enclosures (historical content was not identifiable). Adjacent to the west is Romar Innovate (PPE and workwear suppliers).

In the far west, a large concrete footing/slab from a recently demolished building is found, with evidence of sporadic fly tipping. Adjacent are two slabs (one circular and one rectangular) which likely held tanks/water holders. Beyond was unkempt grassland to the far west, north and east of the concrete slab.

Mineshafts were historically recorded in the west (discussed further in Section 7.1.7 below), however at the time of the walkover no surface evidence was observed as the area was overgrown and inaccessible.

The surrounding land uses are summarised in Table 3.2 below.

Table 3.2 Site Surrounds

Boundary	Description
North	Dismantled railway with residential properties and fields beyond.
East	Woodland with Football Club and residential properties beyond.
South	Leconsfield Street with commercial and residential properties beyond.
West	Woodland with residential properties beyond.

4.0 ENVIRONMENTAL SETTING

Regulatory authority information relevant to the site and its surroundings has been obtained from the undertaking of an environmental database search. 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.

4.1 Infilled Features

The absence or presence of infilled features at or within 250m 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 Infilled Features

Feature Type	On Site	Off Site (within 250m)
Potentially Infilled Land (former non-water feature e.g. pit, quarry etc.)	No	Yes
Potentially Infilled Land (former water feature e.g. pond, marsh, river, stream, dock etc.)	Yes	Yes

Table 4.2 Detail of Infilled Features

Feature Type - On Site	Location On Site	Detail
Former water feature	East	Ordnance Survey map 1925 shows pond infilled by 1962
	North	Ordnance Survey map 1863 shows reservoir infilled by pre 1956
	South	Ordnance Survey map 1863 shows reservoir infilled by 1899
	North-west	Ordnance Survey map 1863 shows ditch/stream infilled by 1899

Feature Type - Off Site	Distance (Direction)	Detail
Former non-water feature	30m (south-east)	Ordnance Survey map 1925 shows potential infilled Iron Ore pit by 1962
	35m (south-east)	Ordnance Survey map 1867 shows 'Crowgarth Pit' infilled by 1899
	75m (south-east)	Ordnance Survey map 1926 shows extraction feature infilled by 1971

Feature Type - Off Site	Distance (Direction)	Detail
Former non-water feature	80m (south-east)	Ordnance Survey map 1867 shows shaft feature, no longer recorded on mapping from 1899.
	80m (south-east)	Ordnance Survey map 1899 shows shaft feature no longer recorded. on mapping from 1962
	215m (west)	Ordnance Survey map 1900 shows pit infilled by 1971.
Former water feature	10m (west)	Ordnance Survey map 1900 shows feature infilled by 1899 likely associated with Culverting of Nor Beck.
	25m (east)	Ordnance Survey map 1863 shows pond infilled by 1970
	30m (east)	Ordnance Survey map 1863 shows pond infilled by 1970

4.2 Waste

The absence or presence of waste facilities at or within 250m of the site boundary have been summarised in Table 4.3 below. Further detail is given in Table 4.4.

Table 4.3 Summary of Waste Facilities

Facility Type	On Site	Off Site (within 250m)
BGS Recorded Landfill	No	No
Historical Landfill	No	Yes
Registered Landfill	No	No
Licensed Waste Management Facility	Yes	No
Registered Waste Treatment or Disposal Sites	No	No
Local Authority Recorded Landfill	No	No
Active Registered Waste Transfer Stations	No	No

Table 4.4 Detail of Waste Facilities

Facility Type - On Site	Site Name and Location	Detail
Licensed Waste Management Facility	Whitehaven Skips and Services Ltd (east)	Operated as HCI Waste Transfer Station. Issued July 2017.

Facility Type - Off Site	Site Name and Location	Distance (Direction)	Detail
Historical Landfill	Whitehaven Road, Cleator Moor	105m (west)	Licence holder not supplied. Inert waste landfill, reference EAHLD35312. Last input is dated 13th April 1979.

4.3 Industrial Processes

The absence or presence of industrial processes at or within 250m of the site boundary have been summarised in Table 4.5 below. Further detail is given in Table 4.6.

Table 4.5 Summary of Industrial Processes

Process Type	On Site	Off Site (within 250m)
Contaminated Land Entry and Notices	No	No
Active Local Authority Pollution Prevention Controls	No	Yes
Active Integrated Pollution Controls	No	No
Active Integrated Pollution Prevention Controls	No	No
Active Local Authority Pollution Prevention or Control Enforcements	No	No

Table 4.6 Detail of Industrial Processes

Facility Type – Off Site	Site Name and Location	Distance (Direction)	Detail
Active Local Authority Pollution Prevention Controls	Crossfield Garage Ltd, Leconfield Street, Cleator Moor	30m (south)	Enforced by Copeland Borough Council relating to petrol filling station. Permit Number CBC/LAPPC/B 22.

4.4 Health & Safety

The absence or presence of sites subject to restrictions in relation to Health & Safety at or within 1km of the site boundary have been summarised in Table 4.7 below.

Table 4.7 Summary of Facilities subject to Health & Safety Consents

Health & Safety Permits	On Site	Off Site (within 1km)
Explosive Sites	No	No
Notification of Installations Handling Hazardous Substances	No	No
Planning Hazardous Substance Consents	No	No

Health & Safety Permits	On Site	Off Site (within 1km)
Registered Radioactive Substances Consents	No	No
Control of Major Accident Hazard sites	No	No

4.5 Environmentally Sensitive Areas

The absence or presence of Environmentally Sensitive Areas at or within 250m of the site boundary have been summarised in Table 4.8 below.

Table 4.8 Summary of Environmentally Sensitive Areas

	On Site	Off Site (within 250m)
Environmentally Sensitive Areas	No	No

4.6 Flooding

The absence or presence of flooding potential at the site is summarised in Table 4.9 below.

Table 4.9 Summary of Flooding Potential

Designation	On Site	Detail
Flooding at Surface (from Groundwater)	Yes	Potential for groundwater flooding to occur at surface.
Flooding below Ground Level (from Groundwater)	Yes	Potential for groundwater flooding of property situated below ground level in north, west and south.
Flooding from Surface Waters	Yes	Extreme Flooding from Rivers without defences (Zone 2) on western site boundary relating to culverted watercourse off-site.

4.7 Trade Directory Entries

The absence or presence of Active Trade Entries Directory at or within 250m of the site boundary have been summarised in Table 4.10 below. Further detail is given in Table 4.11.

Table 4.10 Summary of Active Trade Directory Entries

	On Site	Off Site (within 250m)
Trade Directory Entries	Yes	Yes

Table 4.11 Detail of Trade Directory Entries

Name – On Site	Detail
Delkia	Electrical Engineers
Travis Perkins Plc (no longer present – not identified during site walkover)	Builders Merchants
Brannan	Thermometer Makers
Bespoke Backdrops	Photographic Equipment Supplier and Manufacturer

Name – Off Site	Distance (Direction)	Detail
Crossfield Garage	30m (south)	Petrol Filling Station
Station Yard Garage	95m (south-east)	Car Body Repairs
S A Miller	95m (south-east)	Car Body Repairs
Millers Garage	100m (south-east)	Car Body Repairs
Mossop Construction Services	250m (south)	Road Haulage Services

4.8 Points of Interest

The absence or presence of points of interest which may impact upon the proposed development (ones previously not identified) at or within 250m of the site boundary have been summarised in Table 4.12 below.

Table 4.12 Summary of Points of Interest

	On Site	Off Site (within 250m)
Points of Interest	No	No

4.9 Unexploded Ordnance

Zetica Ltd Online Unexploded Ordnance (UXO) Risk Mapping indicates the site to be located within an area at Low Risk from unexploded ordnance.

5.0 SITE HISTORY

Available extracts of historical Ordnance Survey (OS) maps were used to research the history of the site and the surrounding area. Copies of all historical Ordnance Survey maps reviewed are included in Appendix C.

5.1 Review of Site History

5.1.1 On Site History

The history of the site is summarised in Table 5.1 below.

Table 5.1 On Site History

Feature	Map Years	Notes
Pond (east)	1925 - 1962	Potentially Infilled.
Reservoir (north-west)	1863 - pre 1956	Potentially Infilled.
Reservoir (south)	1863 - 1899	Potentially Infilled.
Infilled watercourse (north)	1863	Potentially infilled
Railway sidings associated with the iron and steel works	1863 - 1957	No longer identified from 1957.
Hematite Iron and Steel Works with associated material mounds and infrastructure	1863 - 1962	Infrastructure includes travelling cranes, limekilns and tanks.
Slag heaps	1962 – pre 1971	No longer identified from 1971.
Leconfield Industrial Estate	1962 – present	Initially developed around 1967 with further expansion in 1970 and 1982. Leather, thermometer and various other factories present including a tank in the far west.
Electricity Sub-stations	1982 – present	Four electricity sub-stations were developed in the west associated with on-site factories.

5.1.2 Surrounding History

There are number of potentially contaminative land uses near to the site; the main ones (not listed previously) within 100m of the site boundary are listed in Table 5.2 below.

Table 5.2 Historical Potentially Contaminative Land Uses with 100m of the site

Distance and Direction	Feature	Map Years	Notes
Adjacent to north, east and west.	Railway lines	1863 - 1962	Noted dismantled c.1962.

Distance and Direction	Feature	Map Years	Notes
Adjacent to south	St Johns Pit	1925 – 1962	Recorded as slag heap from 1962.
10m south-east	Goods Station	1863 – 1970	Later allotment gardens.
20m north and east	Tank	1899 – 1962	-

6.0 HISTORICAL REPORT REVIEW

6.1 Overview

A historical ground investigation report written by WYGE in 2007 (ref: E11683-GI-FAC, issue 1, dated June 2007 and E11126, dated April 2007) has been reviewed as part of this study. The information contained within the reports has been referred to for 'information only' as it was written on behalf of others.

6.2 Ground Investigation Factual and Interpretative Reports, WYGE, June 2007 & April 2007, for West Lakes Renaissance

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

6.2.1 Ground Investigation

The fieldwork was undertaken between 5th and 30th March 2007 whereby 4 no. cable percussive boreholes, 6. no rotary open hole boreholes, 5. no rotary open hole boreholes followed by cable percussive boring, 8. no window sample boreholes and 15. no machine dug trial pits were excavated. The location of the boreholes was mainly restricted to the east of the internal access road of the industrial estate.

6.2.2 Ground Conditions

Cable Percussive Boreholes – Made Ground was encountered within all cable percussive boreholes at depth of between 0.60 metres (m) below ground level (bgl) in CP5 to a maximum depth of 4.50m bgl in CP7. It generally comprised fine to coarse slag Gravel with ash and brick. Natural deposits were encountered at depths of between 0.60m and 2.90m bgl comprising stiff brown slightly gravelly sandy Clay with gravel of sandstone, siltstone and coal. Grey limestone bedrock was encountered within CP1 at 8.20m bgl which was chiselled to 9.10m bgl. Groundwater was encountered within CP5 at 6.50m bgl.

Cable Percussive and Rotary Boreholes – Made Ground was encountered within all rotary locations with thicknesses varying from between 1.30m to 8.70m bgl and generally comprising slag Gravel with ash and brick. Superficial deposits consisted of firm to stiff Clay (glacial till) with occasional sand and gravel bands at depths from between 1.30m and 8.70m. Limestone bedrock was encountered at a depth of

8.60m to 8.80m bgl in BH1 and BH2. Mudstone was encountered in BH1 from 10.0m bgl and Sandstone was also encountered between 16.50m and 25.50m bgl.

Locations BH3, BH3A, BH5A, BH7, BH8, BH9 and R1 were terminated at shallow depths before encountering bedrock. BH3, BH8 and R1 were terminated early due to slow progress through slag gravel.

Trial Pits – Made Ground was encountered in all locations with exception to TP13 and generally comprised slag, brick, coal, ash and concrete Gravel. The depth of which was not proven with exception to that reported in TP15 whereby sandy gravelly Clay was encountered between 1.90m and 2.80m bgl. Natural Ground was also encountered in TP13 and generally comprised Topsoil (up to 0.10m bgl) overlying sandy gravelly Clay up to 2.80m bgl. Trial Pits were terminated between 0.60m and 4.10m bgl. Shallower terminations were probably associated with collapse or below ground obstructions.

Window Sample Boreholes – Made Ground was encountered in all locations and generally comprised of slag and mixed lithology Gravel. The depth of Made Ground was not proven with exception to WS2 (0.40m bgl) which was underlain by gravelly Clay containing ash and slag gravel up to 1.65m bgl. Six locations (WS1 to WS6) were terminated at depths <2.0m bgl to investigate road construction.

6.2.3 Contamination

As the data is >10 years old, it has not been screened against current guidance due to reliance issues. A strong sulphurous odour, however, was recorded in three locations located in the central and north-eastern parts of the site in WS3 between 0.55m and 0.65m bgl, WS7 between 2.3m and 2.4m bgl and CP7 between 2.0m and 4.5m bgl. No other visual or olfactory evidence of contamination was recorded.

Six ground gas monitoring visits carried out between 14th April and 7th June 2007 within two exploratory positions (BH1 and CP7) recorded <0.1% for both CH_4 and CO2 with no flow rate recoded for either borehole. Oxygen readings ranged from 16.1% to 21.1% and both boreholes were recorded as dry on each visit.

6.2.4 Conclusions

Ground conditions generally consisted of varying depths of Made Ground from 0.10m up to 8.70m bgl overlying firm to stiff Glacial Till deposits. Bedrock was encountered at depths of between 8.20m to 8.80m bgl.

Several boreholes and trial pits were terminated at shallow depths, this is likely due to below ground obstructions relating to Made Ground deposits from historical usage.

The borehole logs (cable percussive and rotary) listed above have noted particularly difficult drilling conditions on site relating to below ground obstructions of slag deposits and dense Sand and Gravels.

7.0 GEOLOGY, HYDROGEOLOGY AND HYDROLOGY

7.1 Geology

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

- British Geological Survey (BGS) Sheet No. 28 (Whitehaven) Solid and Drift Edition, 1:50 000 scale;
- BGS National Grid Sheet NY01NW, Frizington, 1:10 000 scale;
- BGS website (Geology of Britain Map Viewer and Borehole Records);
- BR211 Indicative Radon Map Number 18 North Cumbria and British Geological Survey (2000);
- Coal Authority Interactive Mapper;
- MAGIC Map;
- Consultants Coal Mining Report (Reference 51002189488002), Coal Mining Report (Reference 51002189488001) and Shaft Plan and Data Sheets (Reference 51002189626001) enclosed as Appendix D; and,
- Environmental database.

7.1.1 Made Ground

Published maps provide evidence that Made Ground deposits are present on site. The detailed geological map indicates the site to be in an area where the ground is known to have been deposited by man: colliery spoil, shale bings and furnace slag.

7.1.2 Superficial Geology

The geological map indicates that Glacial Till – Clay deposits underlie the site.

7.1.3 Solid Geology

The site lies within a complex geological setting. There are four faults at the site, three of which define the main geology types present:

- The Henry Pit Fault orientated generally east-west is located two thirds up the site with the downthrow to the north.
- There are two faults truncated by the Henry Pit Fault on the eastern end of the site one orientated north-south and the other northeast-southwest down throwing to the east and southwest, respectively.
- A further smaller fault impinges on to the most westerly point of the site orientated east west with a downthrow to the south.

To the north of the Henry Pit Fault the Whitehaven Sandstone Group is present.

To the south of the Henry Pit Fault (oldest first from the west):

- The Eskett Limestone (formerly the Chief Limestone Group) including the following sub groups; Fourth and Third Limestone, Orebank Sandstone and Second and First Limestone. The limestone dips 20 degrees towards the south west.
- The Yoredale Parent Group (formally the undivided Hensingham Group).
- The Middle Coal Measures which includes the following coal seams which sub crop on the site (oldest first); the Ten Quarters (Cleator Moor 5ft), the Slaty (Cleator Moor 4ft) and the White Metal (Cleator Moor 6ft). The Coal Measures dip to the west. It is likely that the impact by the White Metal on the site is minimal depending on where it sub crops.

Several shafts are recorded on the 1:10,000 National Grid Sheet (NY01NW) in the west of the site, one of which is labelled 'Wyndham'.

A plan showing the location of the faults is included within Appendix B.

7.1.4 BGS Soil Chemistry

The environmental database 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 Table 7.1 below.

Table 7.1 Urban Soil Chemistry Averages

Determinand	Soil Concentration Range	
	Min (mg/kg)	Max (mg/kg)
Arsenic	<15	35
Cadmium	<1.8	<1.8
Chromium*	60	90
Lead	<100	<100
Nickel	<15	<15

*Assumed to be Total Chromium

All the metal concentrations not at levels that may be considered to pose a potential risk to human health for a commercial end use (published Defra C4SLs and LQM S4ULs).

7.1.5 British Geological Survey Borehole Logs

British Geological Survey (BGS) logs have been referred to for information only. The absence or presence of BGS logs at or within 50m of the site boundary have been summarised in Table 7.2 below. Further detail is given in Table 7.3.

Table 7.2 Summary of BGS Borehole Logs

Presence	On Site	Off Site (within 100m)
BGS Borehole Logs	Yes	Yes

Table 7.3 Detail of BGS Logs

Reference Number (Hole Type and Depth) – On Site	Detail (m bgl)
NY01NW281 – No Log	Associated with Wyndham Pit (old) – Also recorded on 1:10,000 BGS Sheet NY01NW.

Reference Number (Hole Type and Depth) – On Site	Detail (m bgl)
NY01NW277 – Rotary Hole – 169.49m bgl) – associated with historical iron works – Crowgarth Mine 11	0.00 – 0.18: Soil 0.18 – 0.80: Clay 0.80 – 1.82: Gravel and sand 1.82 – 20.77: Sandstone cobbles and Sand 20.77 – 22.40: Dark blue shale 22.40 – 26.70: Grey Sandstone 26.70 – 28.86: Grey sandy shale 28.86 – 32.33: Grey sandstone 32.33 – 32.85 Blue sandy shale 32.85 – 42.52: Grey sandstone 42.52 – 48.04: Reddish grey sandstone 48.04 – 52.12: Reddish grey limestone. 52.12 – 59.20: Grey limestone. 59.20 – 61.51: Grey sandy shale. 61.51 – 68.64: Dark grey and blue grey limestone. 68.64 – 82.05: Dark grey blue grey shale. 82.05 – 162.49: Grey dark grey limestone. 162.99 – 163.07: Grey shale 163.07 – 164.50: Grey limestone 165.50 – 167.33: Reddish grey sandstone. 167.33 – 169.49: Red shale.
NY01NW278 (Rotary Hole – 75.79m bgl) – associated with historical iron works – Crowgarth Mine 12	0.00 – 0.18: Soil 0.18 – 1.22: Yellow clay and cobbles 1.22 – 17.98: Sand, cobbles and boulders 17.98 – 19.78: Dark blue shale 19.78 – 21.30: Reddish grey mudstone 21.30 – 23.44: Dark grey shale 23.44 – 27.70: Blue shale 27.70 – 28.74: Reddish grey shaley sandstone
NY01NW278 (Rotary Hole – 75.79m bgl) – Associated with historical iron works	28.74 – 32.10: Grey shale sandstone 32.10 – 33.31: Blue shaley limestone 33.31 – 36.05: Dark grey sandstone 36.05 – 38.74: Dark grey shale with sandstone 38.74 – 41.42: Grey mudstone with shale joints 41.42 – 49.65: Dark grey/blue grey shale 49.65 – 51.69: Grey sandstone 51.59 – 54.13: Grey shale sandstone 54.13 – 55.80: Dark blue sandy shale 55.80 – 75.79: Grey limestone

Reference Number (Hole Type and Depth) – On Site		Detail (m bgl)
Drilled in car parking area, north of current Brannan & Sons Ltd building	NY01NW485 (Borehole 4.87m)	0.00 – 0.79: Made Ground: Red stoney clay 0.79 – 4.87: Made Ground: Ash and slag
	NY01NW486 (Borehole – 5.48m)	0.00 – 0.91: Made Ground: Red stoney clay 0.91 – 5.48: Made Ground: Ash with large pieces of slag
	NY01NW487 (Borehole - 6.10m)	0.00 – 0.30: Made Ground: Red stoney clay 0.30 – 6.10: Made Ground with ash sandstone boulders and slag.
	NY01NW488 (Borehole – 8.53m)	0.00 – 0.30: Made Ground: red stoney clay 0.30 – 8.53: Made Ground: ash and slag
	NY01NW489 (Borehole - 5.79m)	0.00 – 0.30: Made Ground: red stoney clay 0.30 – 5.79: Made Ground: Ash, sandstone, slag with large slag boulders
Drilled concurrently in far western part of site	NY01NW490 (Borehole – 6.10m)	0.00 – 3.96: Red clay and slag 3.96 – 6.10: Ash and small stones
	NY01NW491 (Borehole – 6.10m)	0.00 - 3.05: Red clay and slag 3.05 – 6.10: Ash and small stones
	NY01NW492 (Borehole – 6.58m)	0.00 – 2.44: Slag (fill) 2.44 – 6.58: Ash small stones (fill)
	NY01NW493 (Borehole – 6.10m)	0.00 – 2.74: Slag (fill) 2.74 – 6.10: Ash and small stones
	NY01NW494 (Borehole – 6.10m)	0.00 – 2.13: Slag (fill) 2.13 – 6.10: Ash & small stones
Drilled beneath existing Alan Dick Engineering Ltd building	NY01NW495 – 499 inclusive	Information not available for review
Drilled beneath existing main Forth Engineering Ltd building	NY01NW500 - 501	Information not available for review
	NY01NW502 (Borehole – 7.22m)	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
	NY01NW503	Information not available for review
Drilled beneath existing smaller Forth Engineering Ltd building in far north of site	NY01NW504 (Hand Pit 0.22m)	0.0 – 0.075: Topsoil 0.075 – 0.22: Very hard grey foundry waste
	NY01NW505 (Hand Pit 0.90m)	0.00-0.10: Topsoil 0.10-0.90: Very hard grey foundry waste
	NY01NW506 (Hand Pit 1.76m)	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
	NY01NW506 (Hand Pit 0.70m)	0.00-0.10: Topsoil 0.10-0.70: Very hard grey foundry waste

Reference Number (Hole Type and Depth) – Off Site	Distance and Direction	Detail (m bgl)
NY01NW479 (Cable Percussion – 9.00m)	5m (east)	0.00 – 1.20: MG: Medium dense black clayey ash, clinker and stone fill. 1.20 – 3.40: Soft dark grey organic silty sandy clay. 3.40 – 6.20: Firm reddish brown silty very sandy clay with gravel. 6.20 – 7.60: Stiff reddish brown sandy silty clay with sandstone. 7.60 – 9.00: Stiff reddish brown sandy silty clay.
NY01NW13905/10 (Cable Percussion 5.00m)	25m (east)	0.0 – 0.30: Topsoil 0.30 – 4.00: Stiff brown sandy CLAY with gravel and clayey sand. 4.00 – 4.30: Grey shaley mudstone. 4.30 – 5.00: Grey brown siltstone with sandstone bands.
NY01NW13905/8 (Cable Percussion 5.10m)	25m (east)	0.00 – 0.40: Topsoil 0.40 – 4.10: Stiff red-brown silty sandy gravelly CLAY with cobbles. 4.10 – 5.10: Red brown silty sandstone.
NY01NW13905/TP5 (Trial Pit – 1.00m)	35m (east)	0.00 – 0.25: Friable dark grey sandy clay TOPSOIL 0.25 – 0.50: Firm to stiff yellowish brown sandy silty clay. 0.50 – 0.80: Stiff reddish-brown sandy clay. 0.80 – 1.00: Dark blue grey fine to medium grained Limestone.
NY01NW13905/TP1 (Trial Pit – 2.20m)	35m (east)	0.00 – 0.50: Topsoil 0.50 – 1.40: Firm to stiff pinkish brown sandy silty clay. 1.40 – 1.60: Light reddish-brown SANDSTONE. 1.60 – 2.20: Dark brown silty sandstone.
NY01NW473 (Cable Percussion – 9.00m)	35m (east)	0.00 – 1.30: MG: Medium dense black clayey ash filter. 1.30 – 3.80: Soft reddish brown sandy silty clay. 3.80 – 4.70: Soft brown grey organic silty sandy clay. 4.70 – 5.90: Medium dense dark brown coarse sandy fine to coarse gravel. 5.90 – 6.80: Firm reddish brown very silty clay. 6.80 – 9.00: Firm reddish brown silty sandy clay.
NY01NW13905/TP6 (Trial Pit – 0.6m)	45m (south east)	0.00 – 0.20: Topsoil (loose dark grey friable sandy silty Clay) 0.20 - 0.40: Firm reddish brown slightly gravelly sandy silty Clay 0.40 – 0.60: Dark bluish grey fine to medium crystalline Limestone

7.1.6 Radon

The site is shown to be in higher probability radon area in the eastern part of the site whereby between 10 – 30% of homes are estimated to be above the action level. The indicative radon map indicates that the eastern part of the site is in an area where full radon protection measures are required for the construction of new dwellings or extensions. The remainder of the site is within a lower probability radon area where between <1% of homes are estimated to be above the action level. No radon protection measures are required for this area.

7.1.7 Mining

The site is in an area which may have been affected by coal mining. Reference to the Coal Authority interactive mapper indicates that the western portion of the site is located within a Development High Risk Area. The eastern portion of the site has subject to iron ore mining. The different types of mining are discussed in detail below:

Coal Mining

The site is in an area which may be affected by coal mining. A Coal Mining Report (Reference 51002189488001) obtained, describes that the property is an area that is in a surface area that could be affected by underground mining in three seams from shallow to 150m depth, last worked in 1890. The Consultants Coal Authority Report (Reference 51002189488002) describes that there are three Seams worked beneath the site; The Main seam at depths of between 9 and 22m bgl worked in a southerly direction, the Upper Ten Quarters at a depth of 33m worked in a south westerly direction and the Six Quarters at depths of between 117 and 140m worked in a southerly direction.

The seam workings names within the Consultants Report do not tie together with seams identified to be at site at shallow depth on the geological maps.

The Consultants Coal Mining Report shows that there are eight recorded mine entries on or within 20m of the site these have been summarised in Table 7.4 below. Further detail as given in Table 7.5. All coal mining reports pertaining to the site are enclosed in Appendix D.

Table 7.4 Summary of Mine Shafts

Feature	On Site	Off Site (within 20m)
Mine Shafts	Yes	Yes

Table 7.5 Detail of Coal related Mine Shafts

Reference Number - On Site	Detail
301515-007	Entry name not recorded. No information relating to shaft depth or treatment details. Assumed diameter 2m.
301515-008	Entry name not recorded. No information relating to shaft depth or treatment details. Assumed diameter 2m.
301515-010	Name: Barkers or Wyndham Pit. No information relating to shaft depth or treatment details. Assumed diameter 2m. Ties in with BGS log outlined above (NY01NW281).
301515-009	Entry name not recorded. No information relating to shaft depth or treatment details. Assumed diameter 2m.
301515-005	Entry name not recorded. No information relating to shaft depth or treatment details. Assumed diameter 2m.
301515-006	Entry name not recorded. No information relating to shaft depth or treatment details. Assumed diameter 2m.
301515-004	Entry name not recorded. No information relating to shaft depth or treatment details. Assumed diameter 2m.

Reference Number - Off Site	Detail
301515-003	Entry name not recorded. Assumed depth 33m. No information relating to treatment details. Assumed diameter 2m.

Iron Ore

The site as a whole has historically been used as a steel / iron works. Extraction of an iron ore band within the Sandstone may have occurred on the east of the site. Two shafts off site to the south east - Crowgarth Mine 11 and 12 (discussed above in Table 7.3) were sunk for the extraction of the band. There is no information relating to the potential treatment of these shafts. The extraction of the band is likely to be limited by the presence of faults.

Other

The absence or presence of BGS registered sites and cavities at or within 250m of the site boundary have been summarised in Table 7.6 below. Further detail is given in Table 7.7.

Table 7.6 Summary of BGS Features / Cavities

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

Table 7.7 Detail of BGS Features / Cavities

Feature – Off Site	Distance and Direction	Detail
BGS Mineral Sites	245m (west)	Whinny Hill Colliery No. 2 Pit, Keekle, Whitehaven, Cumbria. Underground mining for coal. Operation has since ceased.
Recorded Man-Made Cavities	80m (south-east)	Commodity: Hematite. No further details given.
	90m (south-east)	

7.1.8 Ground Stability

Table 7.8 indicates the potential ground stability hazards on site, as obtained from the environmental database.

Table 7.8 Ground Stability Hazards

Ground Stability Hazard	Risk
Collapsible Ground	Very Low
Compressible Ground	No Hazard to Very Low
Ground Dissolution	No Hazard to Very Low
Landslide	Very Low
Running Sand	Very Low
Shrinking or Swelling Clay	Very Low

7.2 Hydrogeology

Details of the hydrogeology underlying the site have been obtained from the following:

- MAGIC interactive mapping website; and,
- Environmental database.

7.2.1 Groundwater Classification

The bedrock 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.

The Glacial Till (superficial) is classified as a Secondary Undifferentiated Aquifer. This has been assigned in cases where it has not been possible to attribute either a Secondary A or B aquifer to the soil type due to the variable characteristics.

In most cases, this means that the layer in question has previously been designated as both Minor and Non-Aquifer in different locations due to the variable characteristics of the rock type.

7.2.2 Groundwater Abstractions

The absence or presence of groundwater abstraction wells at or within 1km of the site boundary have been summarised in Table 7.9 below.

Table 7.9 Summary of Groundwater Abstraction Wells

Feature	On Site	Off Site (within 1km)
Groundwater Abstraction Well	No	No

7.2.3 Groundwater Quality

The site is not located within a Source Protection Zone.

7.2.4 Hydrology

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

- MAGIC interactive mapping website; and,
- Environmental database.

7.2.5 Watercourses

The absence or presence of watercourses at or within 250m of the site boundary have been summarised in Table 7.10 below. Further detail is given in Table 7.11.

Table 7.10 Summary of Watercourses

Feature	On Site	Off Site (within 250m)
Watercourses	No	Yes

Table 7.11 Details of Watercourses

Name - Off Site	Distance and Direction	Detail
Nor Beck (culverted)	10m (west)	Culverted watercourse to the west of the site. Watercourse flows southwards into the River Keekle
Nor Beck	20m (north-east)	Watercourse flows southwards into the River Keekle
Unnamed drain	135m (west)	Drain from disused mine

7.2.6 Surface Water Abstractions

The absence or presence of surface water abstractions at or within 250m of the site boundary have been summarised in Table 7.12 below.

Table 7.12 Summary of Surface Water Abstractions

Feature	On Site	Off Site (within 250m)
Surface Water Abstractions	No	No

7.2.7 Discharge Consents

The absence or presence of discharge consents at or within 250m of the site boundary have been summarised in Table 7.13 below. Further detail is given in Table 7.14.

Table 7.13 Summary of Active Discharge Consents

Feature	On Site	Off Site (within 250m)
Discharge Consents	No	Yes

Table 7.14 Details of Active Discharge Consents

Location - Off Site	Distance and Direction	Detail
Nor Beck Park, Cleator Moor	195m (south-west)	Operated by United Utilities Water Ltd relating to the discharge of public sewage into Nor Beck from a storm tank.
Rear garden of 16 Crossing Close, Cleator Moor	205m (south-west)	Operated by United Utilities Water Ltd relating to the discharge of public sewage into Nor Beck from a storm tank.

7.2.8 Pollution Incidents, Prosecutions and Substantiated Pollution Incidents

The absence or presence of pollution incidents at or within 250m of the site boundary have been summarised in Table 7.15 below. Further detail is given in Table 7.16.

Table 7.15 Summary of Incidents

Feature	On Site	Off Site (within 250m)
Pollution Incidents	Yes	Yes
Prosecutions	No	No
Substantiated Pollution Incidents	No	No

Table 7.16 Details of Incidents

Location - On Site	Detail
Pollution Incidents	Category 3, Minor Incident, Oils/petrol polluting freshwater river/stream dated 16/07/91.

Location - Off Site	Distance and Direction	Detail
Pollution Incidents	40m (north-west)	Category 3, Minor Incident, Rubble/Litter/Soils polluting freshwater river and stream dated 22/03/2019.

8.0 PRELIMINARY CONTAMINATION RISK ASSESSMENT

The site is being considered for future development and has been assessed in line with current UK guidance including the National Planning Policy Framework (NPPF), February 2019.

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

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

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.

8.1 Potential Hazard Sources

8.1.1 On-site Sources

Potential on site sources of contamination include the following:

- General presence of Made Ground across the site, including asbestos;
- Historical uses of the site which may give/have given rise to in-ground contamination and/or impacted groundwater such as coal mining, iron mining, the iron and steel works with associated reservoirs, railways and slag heaps;
- Current uses include the waste management facility & infrastructure associated with Leconsfield Industrial Estate;
- Ground gases and vapours from Made Ground, mine gas and radon.

8.1.2 Off-Site Sources

Based on historical uses identified surrounding the site, it is considered that potential off-site contamination sources would generally be in line with those identified onsite (outlined above) excluding the below:

- Petrol Filling Station 30m to the south; and,
- Landfill located 105m to the west.

8.2 Contamination Pathways

Potential contamination pathways are listed below:

- Dermal contact;
- Inhalation of vapours or dusts;
- Ingestion of soil and dusts;
- Leaching to surface run-off/drainage;
- Leaching to groundwater;
- Lateral and vertical migration of groundwater;
- Ground gas generation/accumulation; and,
- Migration along/into service conduits and pipe work.

8.3 Contamination Receptors

Receptors that may be affected by potential contamination and ground gas for the future development are considered to be:

- Future Site Users (commercial);
- Construction and Maintenance workers;
- Secondary Undifferentiated Aquifer (superficial);
- Secondary A Aquifer (bedrock);
- Surface Waters;
- Flora and Fauna; and,
- Buildings / Services.

8.4 Ground Contamination Risk Assessment

By considering the sources, pathways and receptors, a preliminary assessment of the environmental risk has been made with reference to the significance and degree of the risk. This assessment is based on consideration of whether the source contamination can reach a receptor and hence whether it is of significance (CIRIA C552).

The risk assessment has been carried out by assessing the severity of the potential consequence, the sensitivity of the target and the likelihood of occurrence, based on the categories given below (Tables 8.1 to 8.3).

A summary of the preliminary risk assessment for on and offsite sources is given in Table 8.4.

Table 8.1 Potential Hazard Severity Definition

Category	Definition
Severe	Acute risks to human health, catastrophic damage to buildings/property, major pollution of controlled waters
Medium	Chronic risk to human health, pollution of sensitive controlled waters, significant effects on sensitive ecosystems or species.
Mild	Pollution of non-sensitive waters, significant damage to buildings or structures
Minor	Requirement for protective equipment during site works to mitigate health effects, damage to non-sensitive ecosystems or species, minor damage to buildings or structures

The likelihood of an event (probability) takes into account both the presence of the hazard and target and the integrity of the pathway and has been assessed based on the categories given below.

Table 8.2 Probability of Risk Definition

Category	Definition
High likelihood	Pollutant linkage may be present, and risk is almost certain to occur in long term, or there is evidence of harm to the receptor
Likely	Pollutant linkage may be present, and it is probable that the risk will occur over the long term
Low likelihood	Pollutant linkage may be present, and there is a possibility of the risk occurring, although there is no certainty that it will do so
Unlikely	Pollutant linkage may be present, but the circumstances under which harm would occur are improbable

The potential severity of the risk and the probability of the risk occurring have been combined in accordance with the following matrix in order to give a level of risk for each potential hazard.

Table 8.3 Level of Risk for Potential Hazard Definition

		Potential Severity			
		Severe	Medium	Mild	Minor
Probability of Risk	High Likelihood	High	High	Moderate	Low/ Moderate
	Likely	High	Moderate	Low/Moderate	Low
	Low Likelihood	Moderate	Low/Moderate	Low	Low
	Unlikely	Low/Moderate	Low	Low	Low

Table 8.4 Preliminary Contamination Risk Assessment

ON SITE SOURCES						
Source	**Pathway**	**Receptor**	**Justification**	**Severity**	**Probability**	**Risk**
Ground Conditions – Made Ground and contaminants from historical & current site usage.	Dermal contact, ingestion and/or inhalation of vapours or dusts	Human Health – Future site users (commercial)	The historical usage of the site could potentially have given rise to numerous contaminants and previous ground investigations record significant Made Ground deposits onsite. The probability of future site users coming into contact with contaminated materials is Low given its commercial setting.	Medium	Low	Low/Moderate
		Human Health – Construction & Maintenance Workers	The risk rating is based on the above with mitigation measures in place such as good working practices, risk assessments and PPE.	Minor	Likely	Low
	Leaching to groundwater, drainage and lateral / vertical migration.	Secondary Undifferentiated Aquifer	The Secondary Undifferentiated Aquifer is likely to comprise low permeability Clay therefore any movement of contaminants will be restricted both laterally and vertically so they will be confined.	Mild	Unlikely	Low
		Secondary A Aquifer	The Secondary A Aquifer is overlain by clay which will offer some protection and limit migration of potential contaminants. The site is not located within a Source Protection Zone and there are no groundwater abstractions within 1km of the site.	Medium	Unlikely	Low
		Surface Waters	Made Ground associated with historical site activities may be generating leachate which has the potential to migrate to nearby surface waters. Nor Beck is culverted off site to the west, the construction of which is unknown.	Medium	Likely	Moderate
		Flora & Fauna	There is potential for soft landscaping to be incorporated within the proposed commercial development. It is assumed that new planting will have appropriate growing medium.	Medium	Unlikely	Low
	Migration along / into service	Buildings & Services	The risk is based on the potential for mobile contaminants to be present associated with historical	Medium	Likely	Moderate

ON SITE SOURCES						
Source	**Pathway**	**Receptor**	**Justification**	**Severity**	**Probability**	**Risk**
	ducts and pipework		use.			
Ground gas – Associated with Made Ground, gas associated with mining activities and mine/shafts and Radon.	Generation and migration / accumulation of ground gases	Human Health – Current and Future site users (commercial)	The design of the proposed buildings needs to be considered. The commercial development is likely to be located on top of areas previously backfilled. Radon is a known issue with full measures required for new builds in the east. The risk rating is based on no mitigation. Consideration needs to be given to the construction of new builds in respect to radon protection measures.	Severe (Asphyxiation and Explosion)	Likely	High
		Buildings and Services		Severe (Explosion)	Likely	High

OFF SITE SOURCES						
Source	**Pathway**	**Receptor**	**Justification**	**Severity**	**Probability**	**Risk**
Made Ground – contaminants associated with Petrol Filling Station 30m south and Landfill 105m to the west.	Leaching to groundwater, drainage and lateral / vertical migration.	Groundwater beneath the site	Potential for the migration of impacted groundwater to site. The distance of the Landfill from the site will offer some protection of the site. T	Medium	Likely	Moderate
Ground gas – Associated with Made Ground from Petrol Filling Station 30m south and Landfill 105m to the west of the site.	Generation and migration / accumulation of ground gases	Human Health – Current and Future site users (commercial)	The risk is based on the probability of ground gas/vapours being present onsite from offsite sources. Mine shafts and unrecorded workings may offer a preferential pathway for gas/vapour.	Severe (Asphyxiation and Explosion)	Low	Moderate
		Buildings and Services		Severe (Explosion)	Low	Moderate

9.0 IN-GROUND GEOTECHNCIAL CONSTRAINTS

There are a number of constraints which may impact the future development type / developability of the site including;

- The potential exists for shallow Coal Mine workings to be present beneath the western portion of the site, these pose a land stability issue;
- There are 7 no. mine shafts within the site boundary with no treatment records beneath the western portion of the site, these pose a land stability risk;
- The site is underlain in the east by a layer of slag material associated with its former land uses. The slag maybe expansive which potentially poses an issue with future foundation options;
- There is no ground investigation data on the west of site therefore it is unclear if the slag extends beneath this area;
- The potential exists for shallow workings within the iron band beneath the east of the site (in particular the south eastern corner), these pose a land stability issue;
- The distance to the off-site shaft (301515-003) should be considered to determine if they pose a land stability risk to the site;
- The backfill is of a substantial thickness in areas and is unlikely to have been placed as engineered fill, this may pose a stability risk to future foundations (this includes the former reservoirs); and,
- Four faults are present on the site these may pose a potential risk in relation to differential settlement across foundations.

10.0 CONCLUSIONS & RECOMMENDATIONS

10.1 Conclusions

The site is underlain by Made Ground deposits as a result of previous industrial activities. Due to the site's industrial past, there is also potential for land stability issues.

The contamination risks posed by on-site sources to receptors are considered to be as follows:

- To future construction/maintenance workers, Secondary Undifferentiated Aquifer, Secondary A Aquifer, Flora and Fauna: Low
- To future commercial site users: Low/Moderate
- To surface waters and buildings and services: Moderate
- The gas risk posed to all identified receptors: High

The contamination risks posed by off-site sources to receptors are considered to be as follows:

- Groundwater beneath the site: Moderate
- The gassing risk to future site users and buildings and service: Moderate.

The site lies in a complex geological setting with faulting present in the north of the site and two further faults extending from it perpendicular to the south.

The site lies within a Development High Risk Area and there are eight known mine shafts on or within 20m of the boundary of the site. On the basis of the information reviewed, the current risk to the future development of the site from historical coal mining activities needs to be investigated further due to the potential presence of shallow mine workings and untreated mine entries.

The eastern part of the site lies in an area where between 10%-30% of homes are estimated to be above the radon action level. The remainder of the site lies within a lower probability radon area where between <1% of homes are estimated to be above the action level.

During the previous ground investigation dated April 2007, several boreholes and trial pits terminated at shallow depths, this is likely as a result from the presence of slag gravel (from historical use of the site) or dense Sands and Gravels.

There is potential for flooding to occur on the western site boundary from the possible presence of a culverted watercourse (Nor Beck) adjacent to the western boundary of the site.

10.2 Recommendations

As part of development proposals, if new buildings (excluding any existing properties) are proposed in the eastern part of the site, full radon protection measures will be required to be installed.

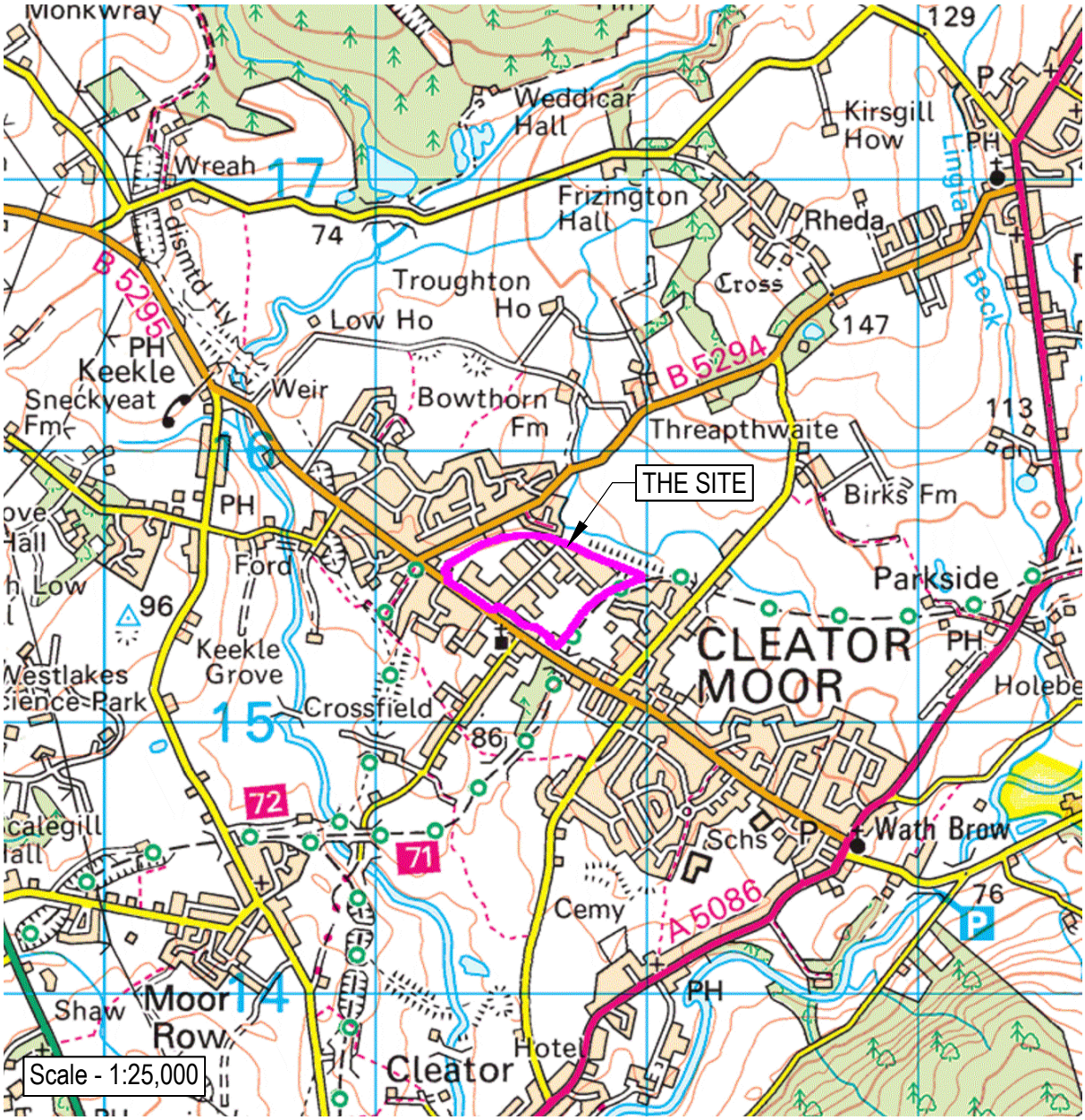
The following further works are recommended to support acquisition and/or re-development of the site:

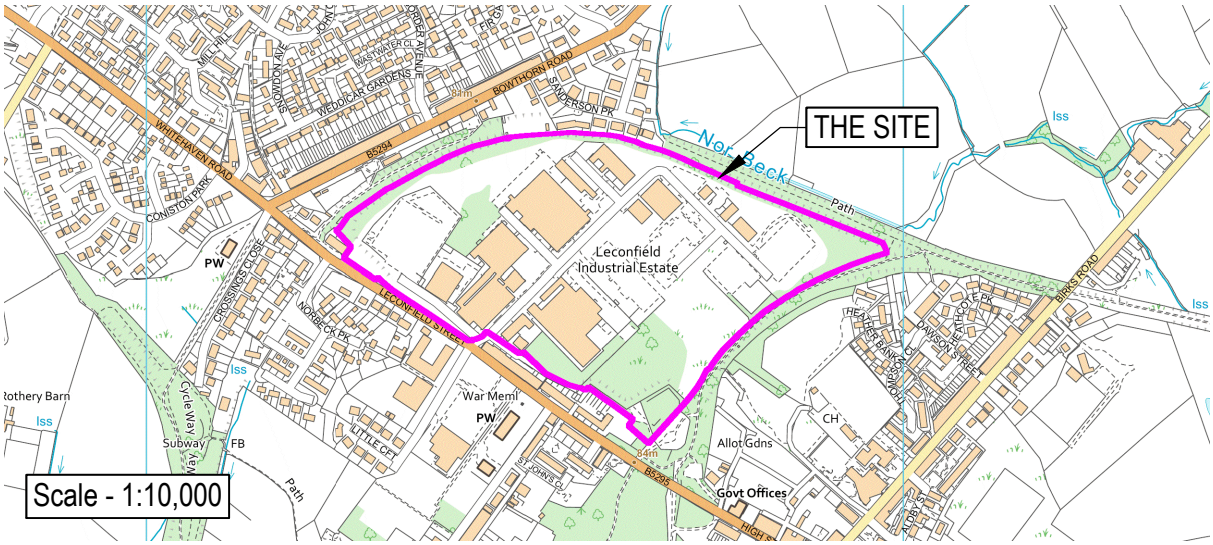
- A visit to the Coal Authority to obtain abandonment plans (17356, OM6981, OM3324, NW1348, OM13116, 17413, NC176, NW1390 AND OM15072);
- Completion of a Preliminary Coal Mining Risk Assessment to inform the ground investigation which is likely to include;
    - Geophysics to help locate the mineshafts prior to proof drilling;
    - Ground investigation on the west and centre of the site by rotary drilling methods to identify if coal seams have been worked at shallow depth;
    - Following on from the above completion of a Refined Coal Mining Risk Assessment with recommendations for stabilisation (if required).
- Further work to determine if there are iron workings beneath the site and if present an assessment to identify if they pose a land stability risk;
- Investigation into the nature and type of the slag deposits at the site; and,
- Design and implementation of a ground investigation to determine the contamination risk posed by the site to the identified receptors.

Drawings

DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

N





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Client: COPELAND BOROUGH COUNCIL	Project: A114312 LECONFIELD INDUSTRIAL ESTATE	Drawing Title: SITE LOCATION PLAN	Scale @ A4 AS SHOWN	Drawn CM 14.11.19	Checked SB 14.11.19
			Approved SB 14.11.19	Project No. A114312	Office MAN
			Type N	Drawing No. 01	Revision

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Photo Plate No. 01: Skip hire company in east of site.

Photo Plate No. 02: BOC gas supplies in east.

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Trafford Park,
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Ground Technologies & Investigation

Project: Leconfield Industrial Estate, Cleator Moor

Client: Copeland Borough Council

Figure 2 - Site Walkover Photo Plates

Project No.: A114312

Date: December 2019

Photo Plate No. 03: Public skips for waste/recycling in east adjacent to skip hire company (looking southwards).

Photo Plate No. 04: Grassland in north-east of site adjacent to BOC Ltd.

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Figure 2 - Site Walkover Photo Plates

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Photo Plate No. 05: Gas service marker in east behind parcel depot.

Photo Plate No. 06: Large concrete footing of demolished building behind Forth UK in east.

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Figure 2 - Site Walkover Photo Plates

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Photo Plate No. 07: Boggy ground in east.

Photo Plate No. 08: Aluminum manufacturers off Leconfield Street in east.

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Figure 2 - Site Walkover Photo Plates

Project No.: A114312

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Photo Plate No. 09: Unoccupied former works with Tank beyond barbed wire fence in south west.

Photo Plate No. 10: Area of historical mine shaft (301515-010) in west of site.

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Client: Copeland Borough Council

Figure 2 - Site Walkover Photo Plates

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Photo Plate No. 11: Former tank pad in the west.

Photo Plate No. 12: Sporadic fly tipping in the west on former building footprint.

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Figure 2 - Site Walkover Photo Plates

Project No.: A114312

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Photo Plate No. 13: Grassland in the east of former shafts (looking northwards).

Photo Plate No. 14: Unoccupied unit to the west of Leconfield Street (looking eastwards).

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Figure 2 - Site Walkover Photo Plates

Project No.: A114312

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Photo Plate No. 15: Plan located near to the entrance of the site (some businesses are no longer active).

Photo Plate No. 16: Units west of Leconsfield Street with Oxygen gas storage (looking westwards).

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Client: Copeland Borough Council

Figure 2 - Site Walkover Photo Plates

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Photo Plate No. 17: Unoccupied units to the west of Leconfield Street (looking westwards)

Photo Plate No. 18: Vehicle repair garage in the west.

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Client: Copeland Borough Council

Figure 2 - Site Walkover Photo Plates

Project No.: A114312

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Photo Plate No. 19: Businesses in east adjacent to entrance to site.

Photo Plate No. 20: Looking eastwards towards fenced access to wooded area.

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Ground Technologies & Investigation

Project: Leconfield Industrial Estate, Cleator Moor

Client: Copeland Borough Council

Figure 2 - Site Walkover Photo Plates

Project No.: A114312

Date: December 2019

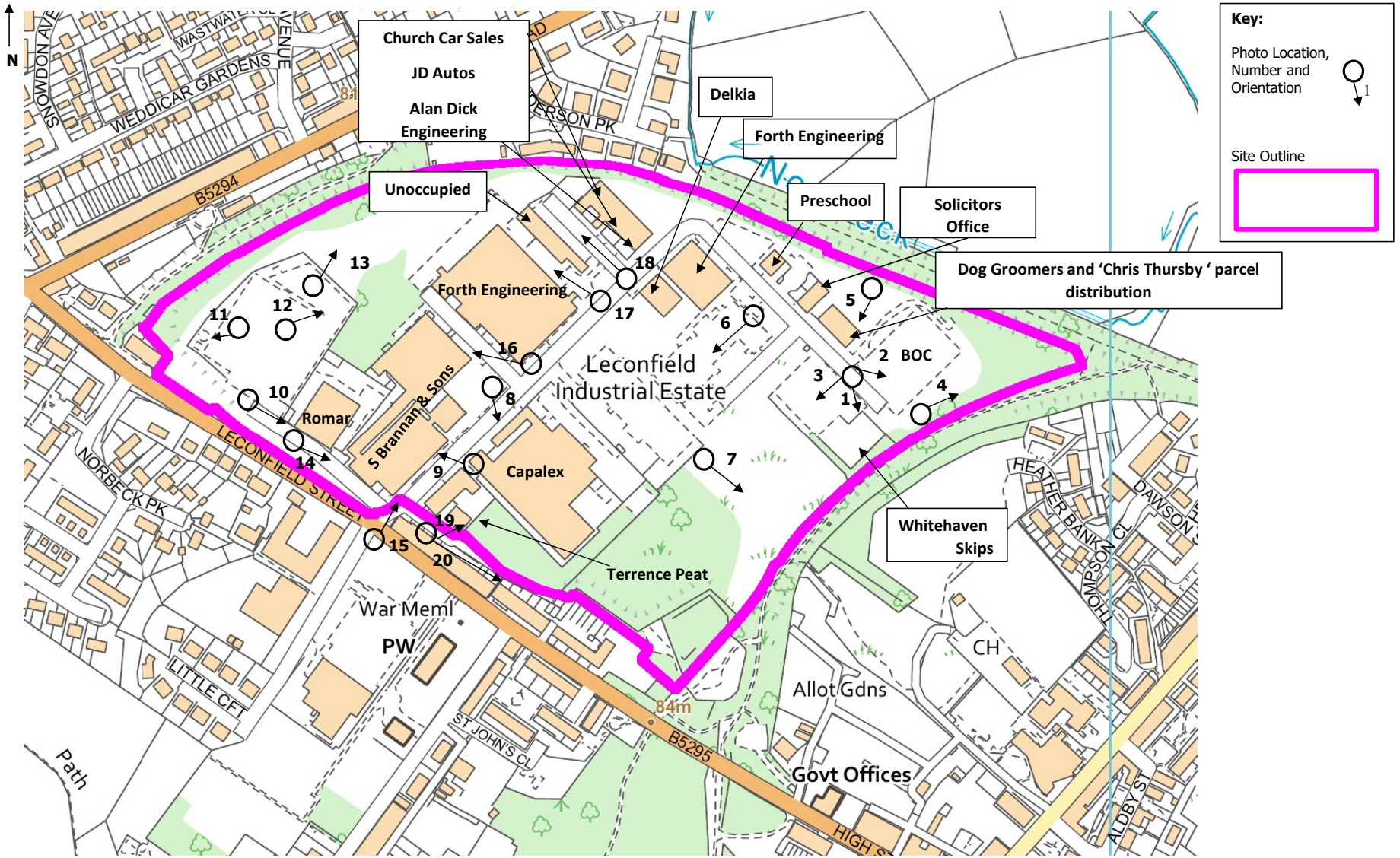

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Figure 3: Photograph Location Plan

Project No.: A114312

Date: December 2019

Appendices

Appendix A – Report Conditions

WYG ENVIRONMENT

C1 - REPORT CONDITIONS
(Environmental Assessment)

This report is produced solely for the benefit of the **COPELAND BOROUGH COUNCIL** and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to WYG. In time improved practices, fresh information or amended legislation may necessitate a re-assessment. Opinions and information provided in this report are on the basis of WYG using due skill and care in the preparation of the report.

This report refers, within the limitations stated, to the environment of the site in the context of the surrounding area at the time of the inspections. Environmental conditions can vary and no warranty is given as to the possibility of changes in the environment of the site and surrounding area at differing times.

This report is limited to those aspects reported on, within the scope and limits agreed with the client under our appointment. It is necessarily restricted and no liability is accepted for any other aspect. It is based on the information sources indicated in the report. Some of the opinions are based on unconfirmed data and information and are presented as the best obtained within the scope for this report.

Reliance has been placed on the documents and information supplied to WYG by others but no independent verification of these has been made and no warranty is given on them. No liability is accepted or warranty given in relation to the performance, reliability, standing etc of any products, services, organisations or companies referred to in this report.

Whilst skill and care have been used, no investigative method can eliminate the possibility of obtaining partially imprecise, incomplete or not fully representative information. Any monitoring or survey work undertaken as part of the commission will have been subject to limitations, including for example timescale, seasonal and weather related conditions.

Although care is taken to select monitoring and survey periods that are typical of the environmental conditions being measured, within the overall reporting programme constraints, measured conditions may not be fully representative of the actual conditions. Any predictive or modelling work, undertaken as part of the commission will be subject to limitations including the representativeness of data used by the model and the assumptions inherent within the approach used. Actual environmental conditions are typically more complex and variable than the investigative, predictive and modelling approaches indicate in practice, and the output of such approaches cannot be relied upon as a comprehensive or accurate indicator of future conditions.

The potential influence of our assessment and report on other aspects of any development or future planning requires evaluation by other involved parties.

The performance of environmental protection measures and of buildings and other structures in relation to acoustics, vibration, noise mitigation and other environmental issues is influenced to a large extent by the degree to which the relevant environmental considerations are incorporated into the final design and specifications and the quality of workmanship and compliance with the specifications on site during construction. WYG accept no liability for issues with performance arising from such factors

November 2008
WYG Environment Planning Transport Ltd

Appendix B – Environmental Database Records

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

Contents

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
Useful Contacts	53

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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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: Keekle 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Unknown 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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 Environment: Freshwater Stream/River 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: Leconfield 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: Keekle 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: Keekle 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: Keekle 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: Keekle 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: Keekle 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: Keekle 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: Keekle, 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 Type: Deposited Waste included Commercial Waste 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 Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st February 1979 Preceded By Licence: Not Given Superseded By Licence: Not Given 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 Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1979 Preceded By Licence: Not Given Superseded By Licence: Not Given 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 Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1977 Preceded By Licence: Not Given Superseded By Licence: Not Given 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 Restrictions: No known restriction on source of waste Status: Licence revokedRevoked Dated: 17th May 1982 Preceded By Licence: Not Given Superseded By Licence: 108/M1 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 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	A11NE (N)	0	1	301382 515509
	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	A11NE (N)	0	1	301430 515640
	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 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (E)	0	1	301798 515514
	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 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (E)	0	1	301725 515470
	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: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	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 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	A12NE (E)	38	1	302000 515499
	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	A12SE (E)	39	1	301980 515444
	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	A12SW (E)	42	1	301779 515358
	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	A12SE (E)	99	1	302000 515434
	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	A12SE (E)	156	1	302000 515375
	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	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 Concentration: 25 - 35 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	A8NW (SE)	259	1	301821 515075
	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	A12NE (E)	290	1	302250 515633
	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	A7NE (S)	370	1	301458 514946
	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	A8NE (SE)	378	1	302000 515091
	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	A8NE (SE)	385	1	302167 515073
	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	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 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	A8NE (SE)	438	1	301957 514956
	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	A8NE (SE)	454	1	302000 514976
	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: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (NW)	498	1	301000 516000
	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	A15NE (N)	512	1	301400 516189
	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	A8SE (SE)	734	1	302177 514756
	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	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 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	A7SE (S)	780	1	301500 514500
	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 mg/kg	A10NW (W)	875	1	300377 515516
	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	A7SW (SW)	897	1	301002 514626
	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 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SW (S)	958	1	301013 514551
144	**BGS Recorded Mineral Sites** Site Name: Whinny Hill Colliery, No 2 Pit Location: Keekle, 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: Keekle, 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: Keekle, 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: Keekle, 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: Keekle, 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: Keekle, 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: Keekle, 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: Keekle, 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 Detail: No Details	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 Detail: No Details	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 Detail: No Details	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 Detail: No Details	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 Detail: No Details	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 Detail: No Details	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 Detail: No Details	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 Detail: No Details	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

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: Optilon (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

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

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

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 Buisness 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

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

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

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

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
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
	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		

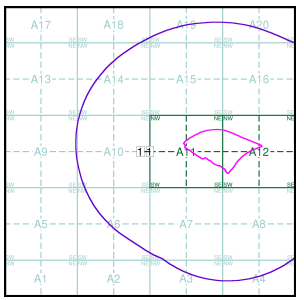
Geology 1:50,000 Maps

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



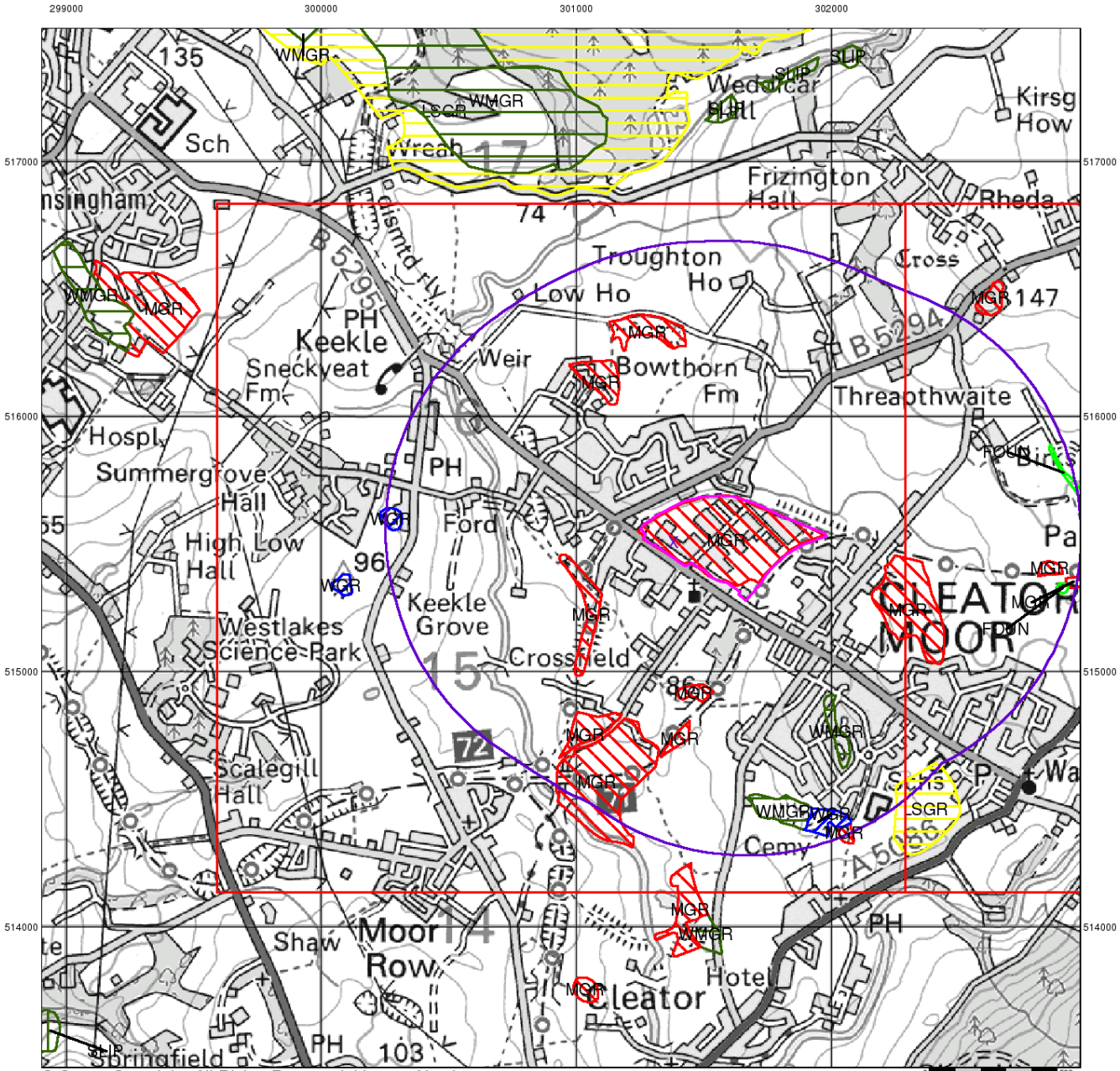
Order Details:

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



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Artificial Ground and Landslip

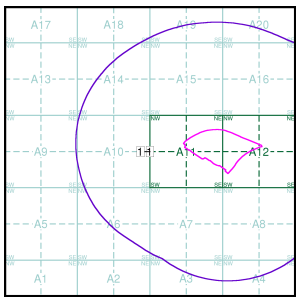
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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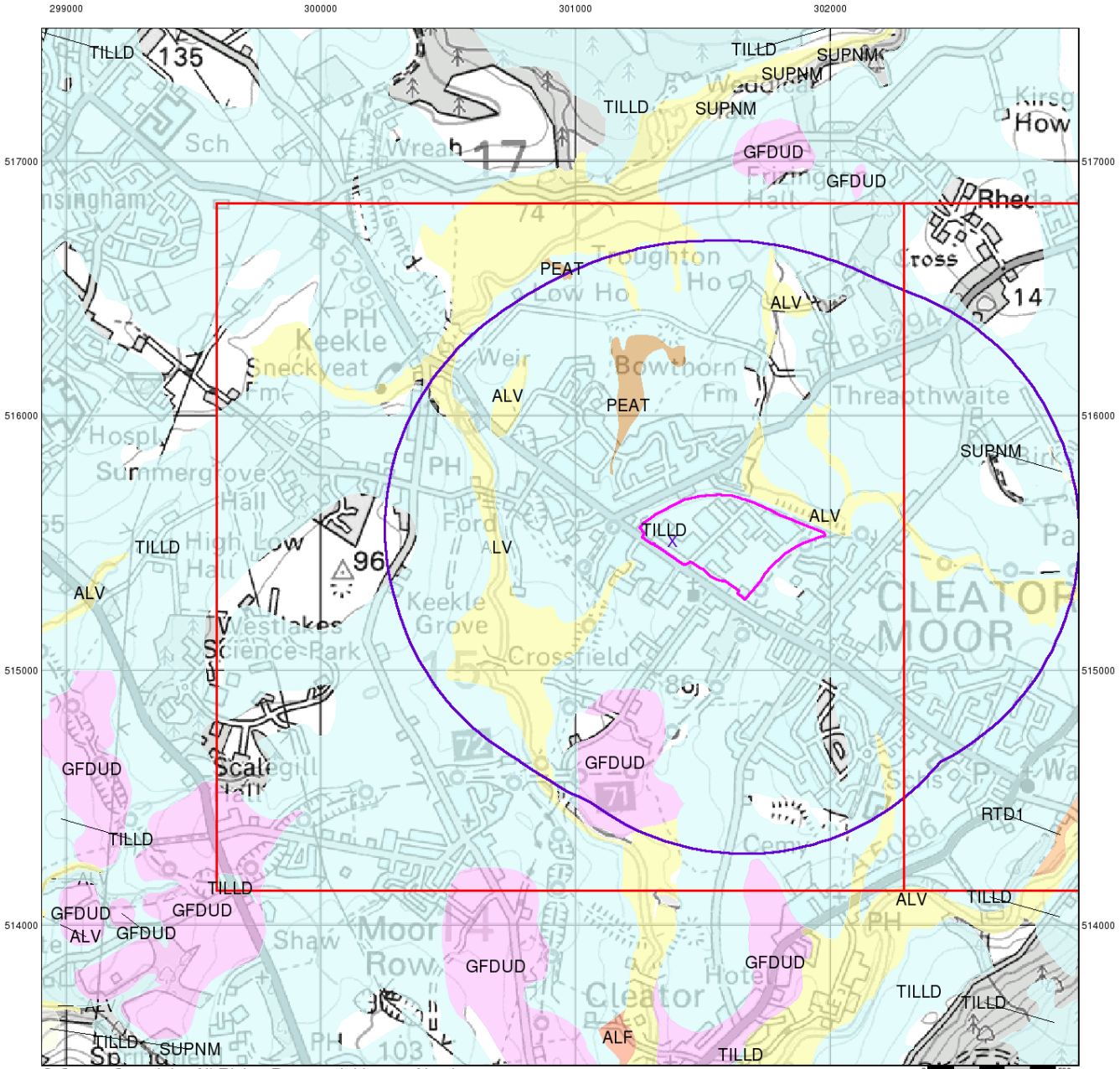

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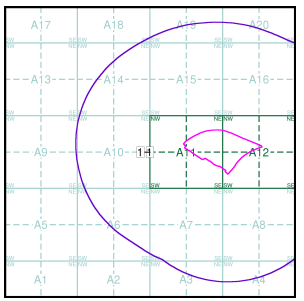
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



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

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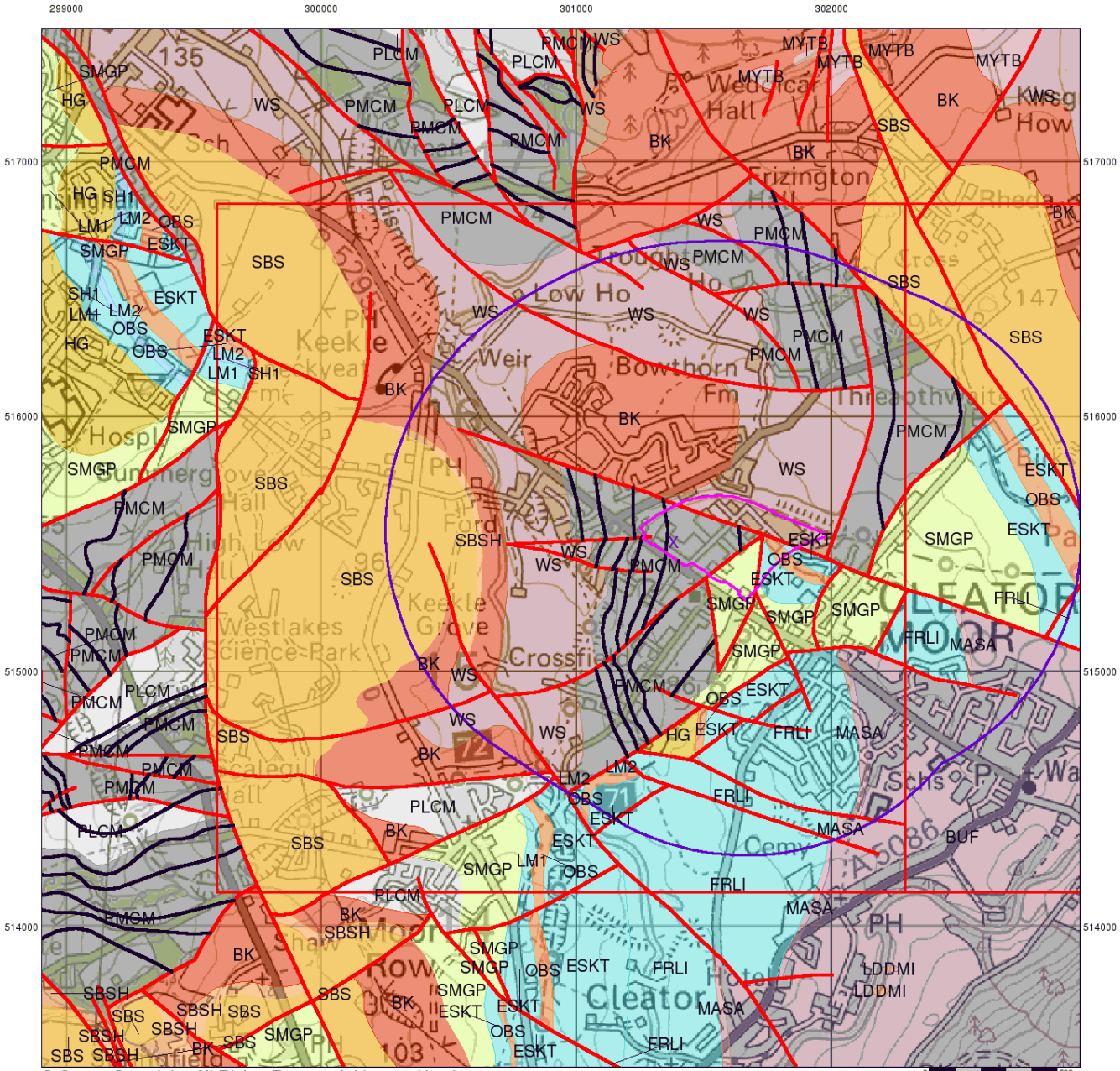

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Bedrock and Faults

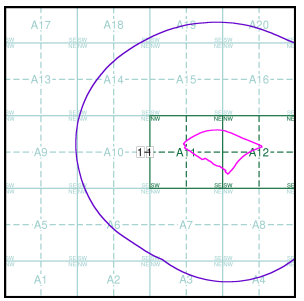
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



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

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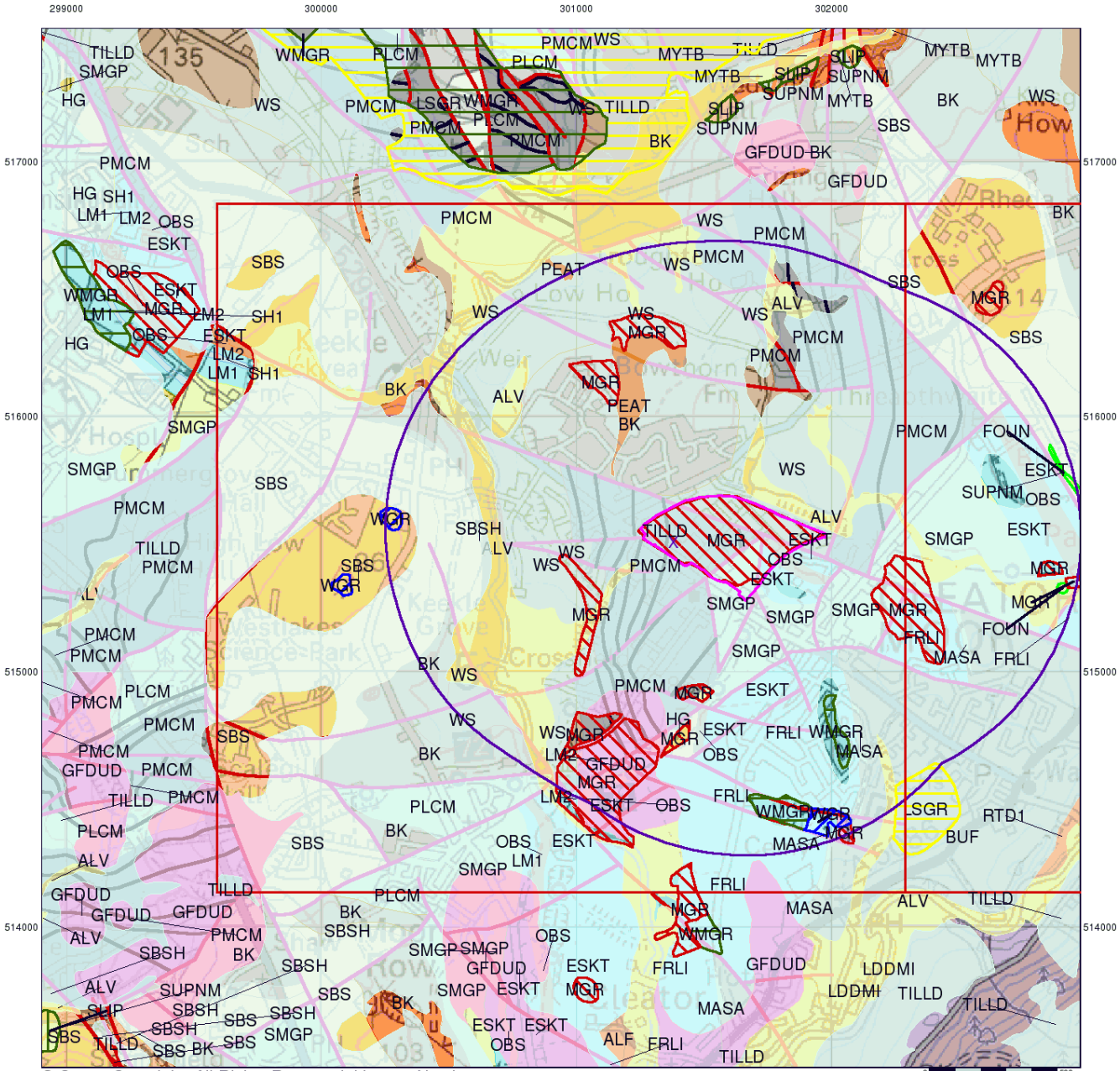

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Combined Surface Geology

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

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

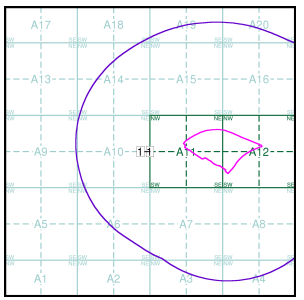
Additional Information

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

Contact

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

Combined Geology Map - Slice A

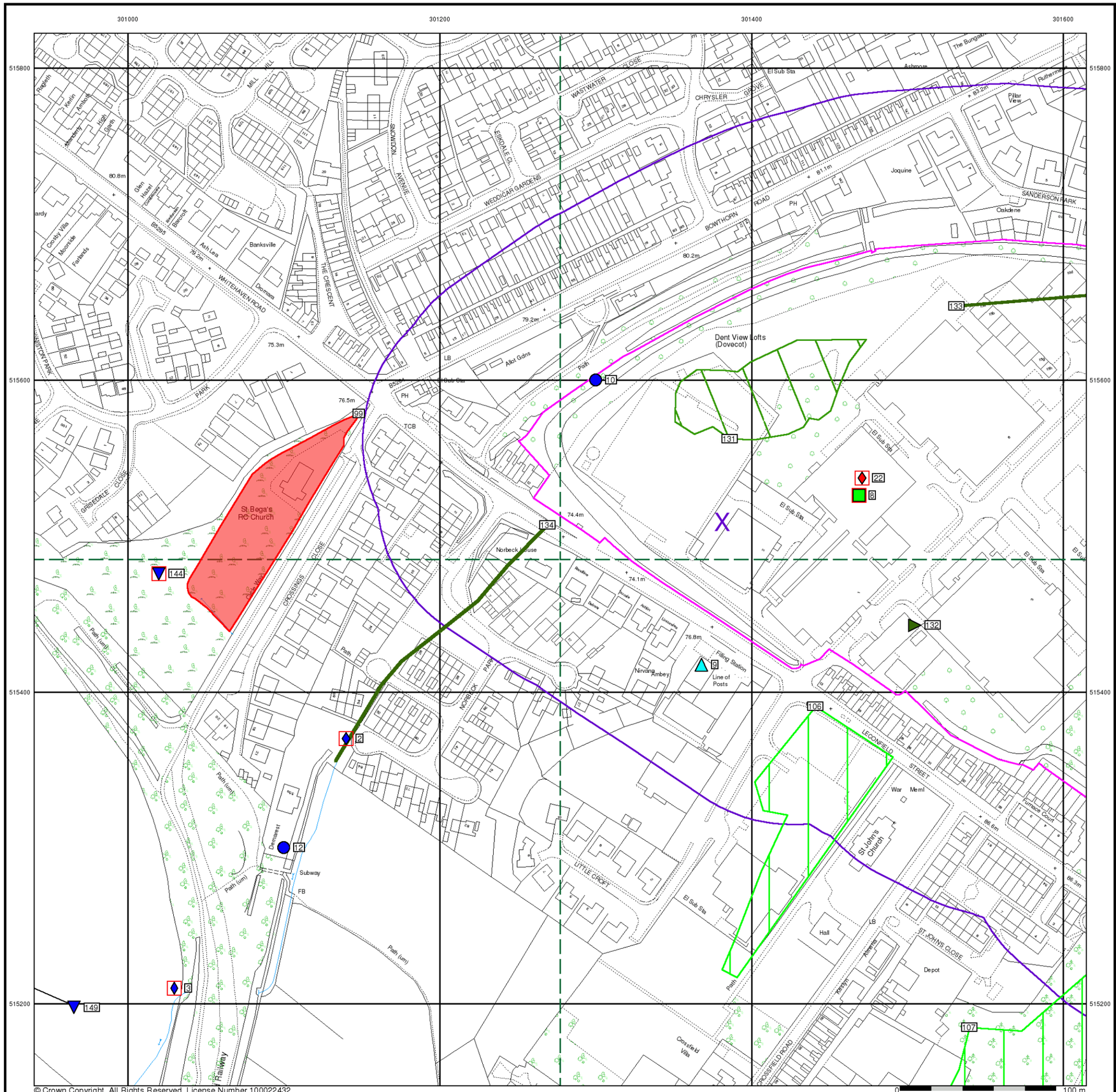


Order Details:

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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General

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

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

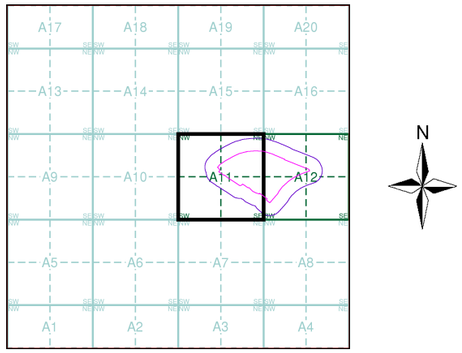
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A11



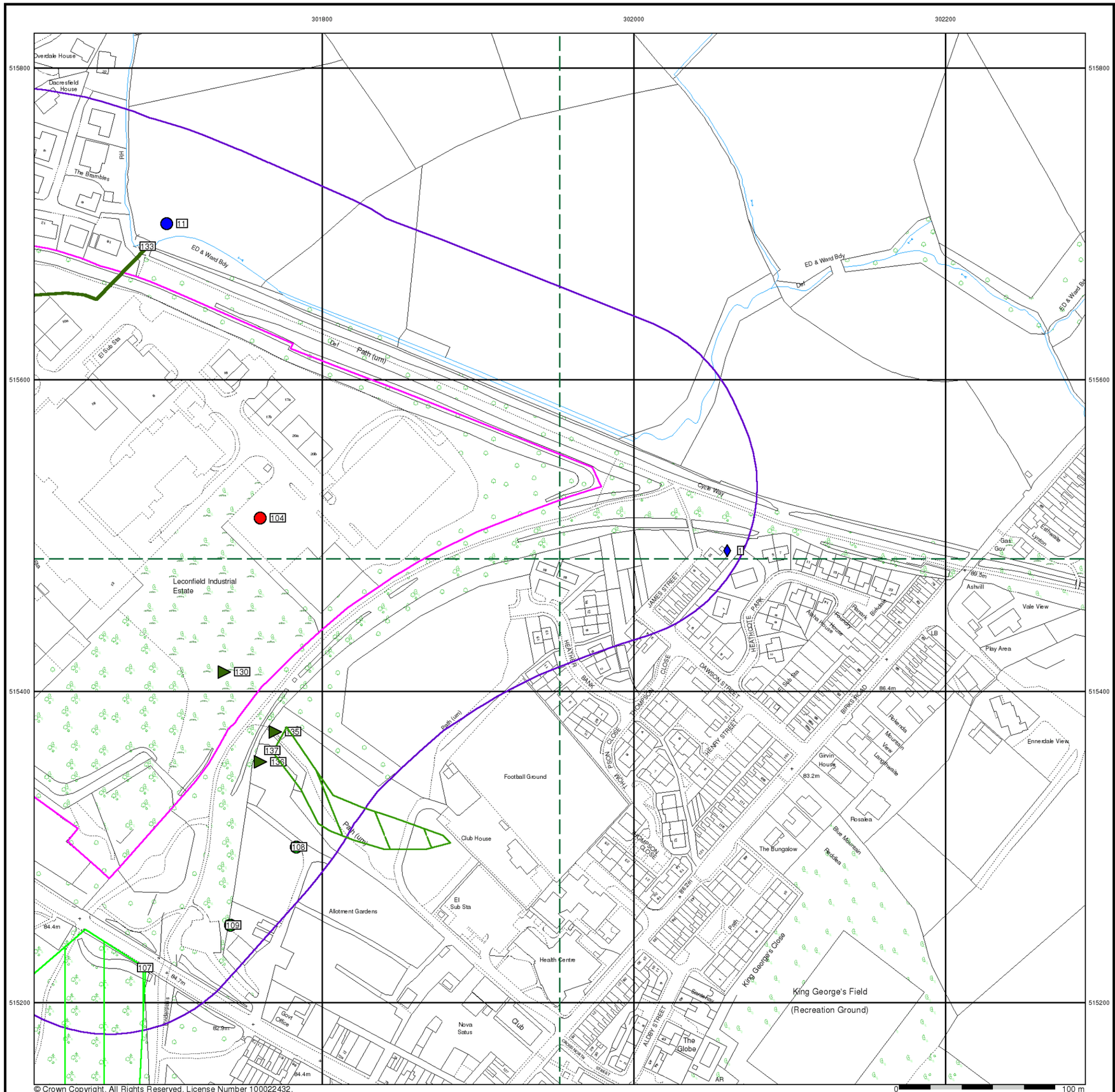
Order Details

Order Number:	224379683_1_1
Customer Ref:	A114312
National Grid Reference:	301380, 515510
Slice:	A
Site Area (Ha):	15.46
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 · Pylon · Overhead Transmission Line

Agency and Hydrological

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Hazardous Substances

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Geological

- BGS Recorded Mineral Site

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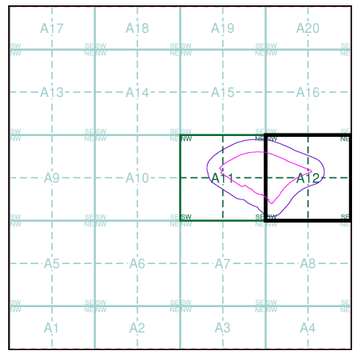
- Registered Waste Treatment or Disposal Site

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

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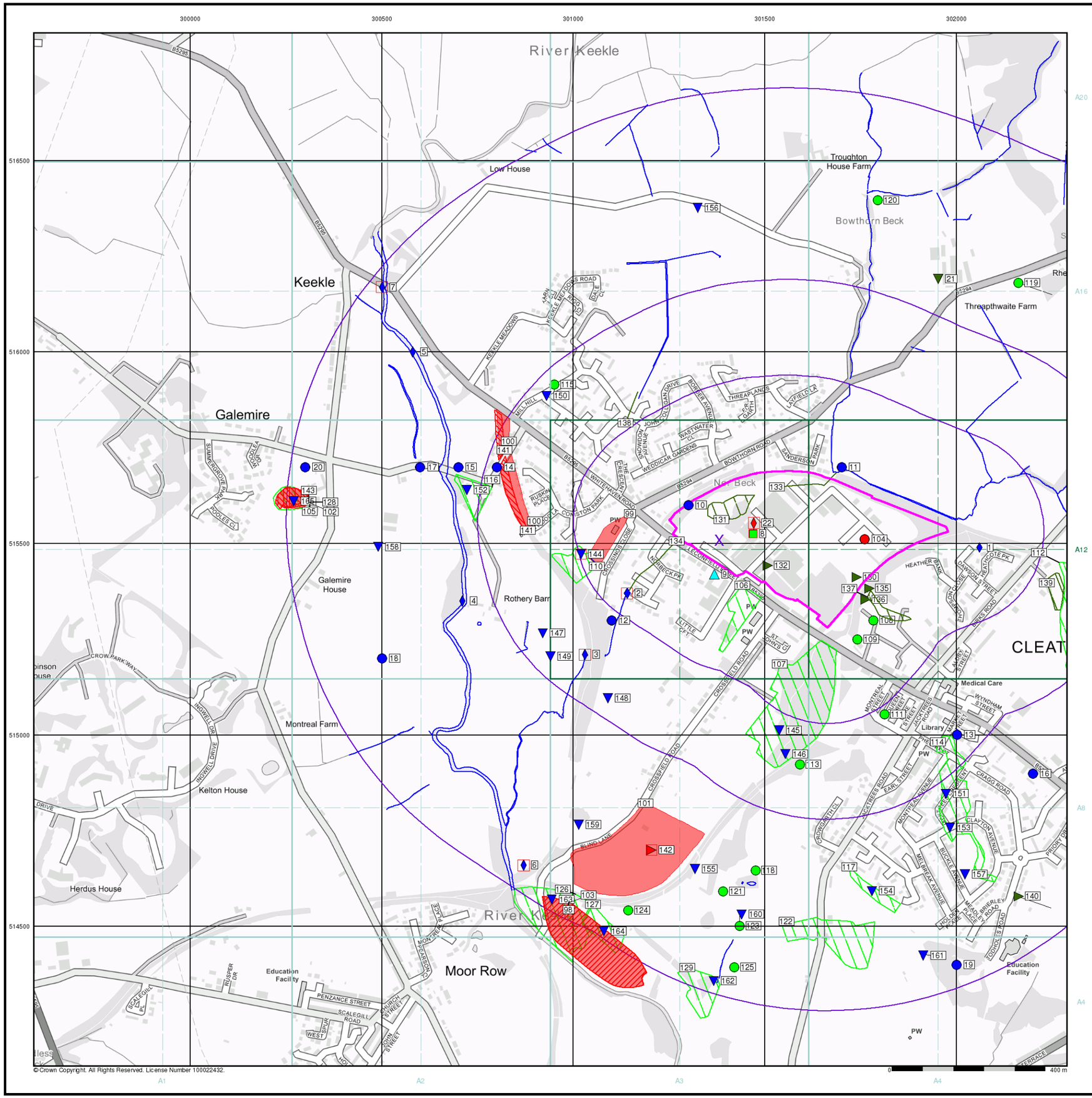

General

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

Several of Type at Location

Agency and Hydrological

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- Contaminated Land Register Entry or Notice
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COMAH Site | Explosive Site | NIHHS Site

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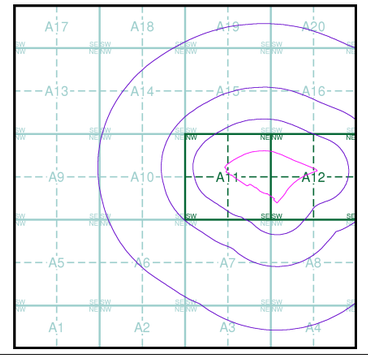
Site Sensitivity Map - Slice A



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

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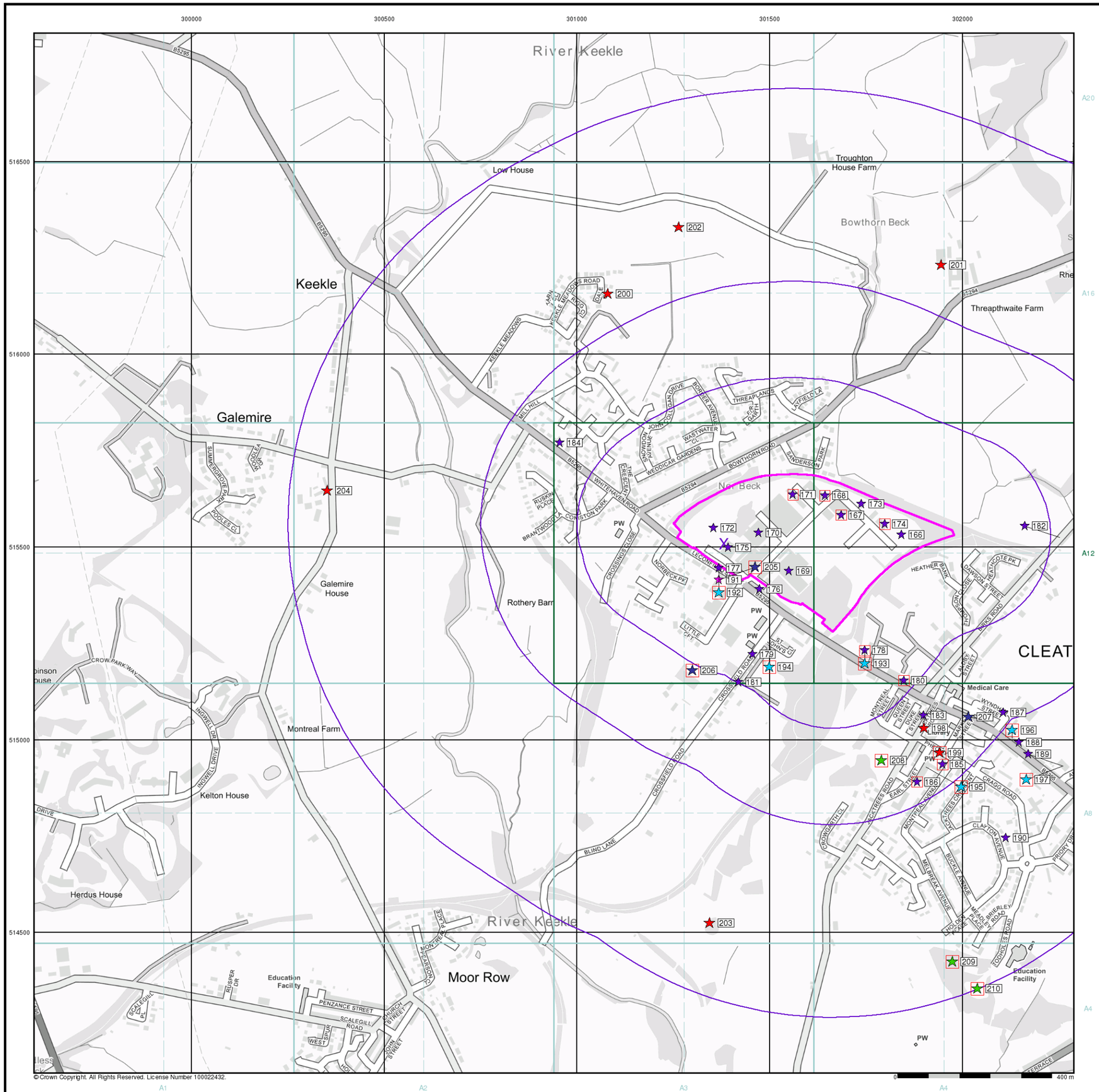


Industrial Land Use Map

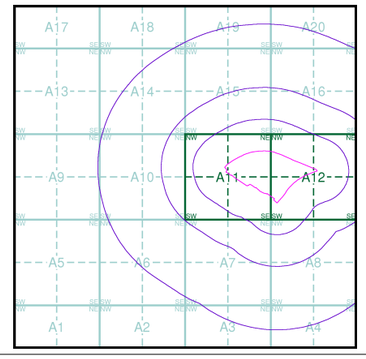
General

- 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 A



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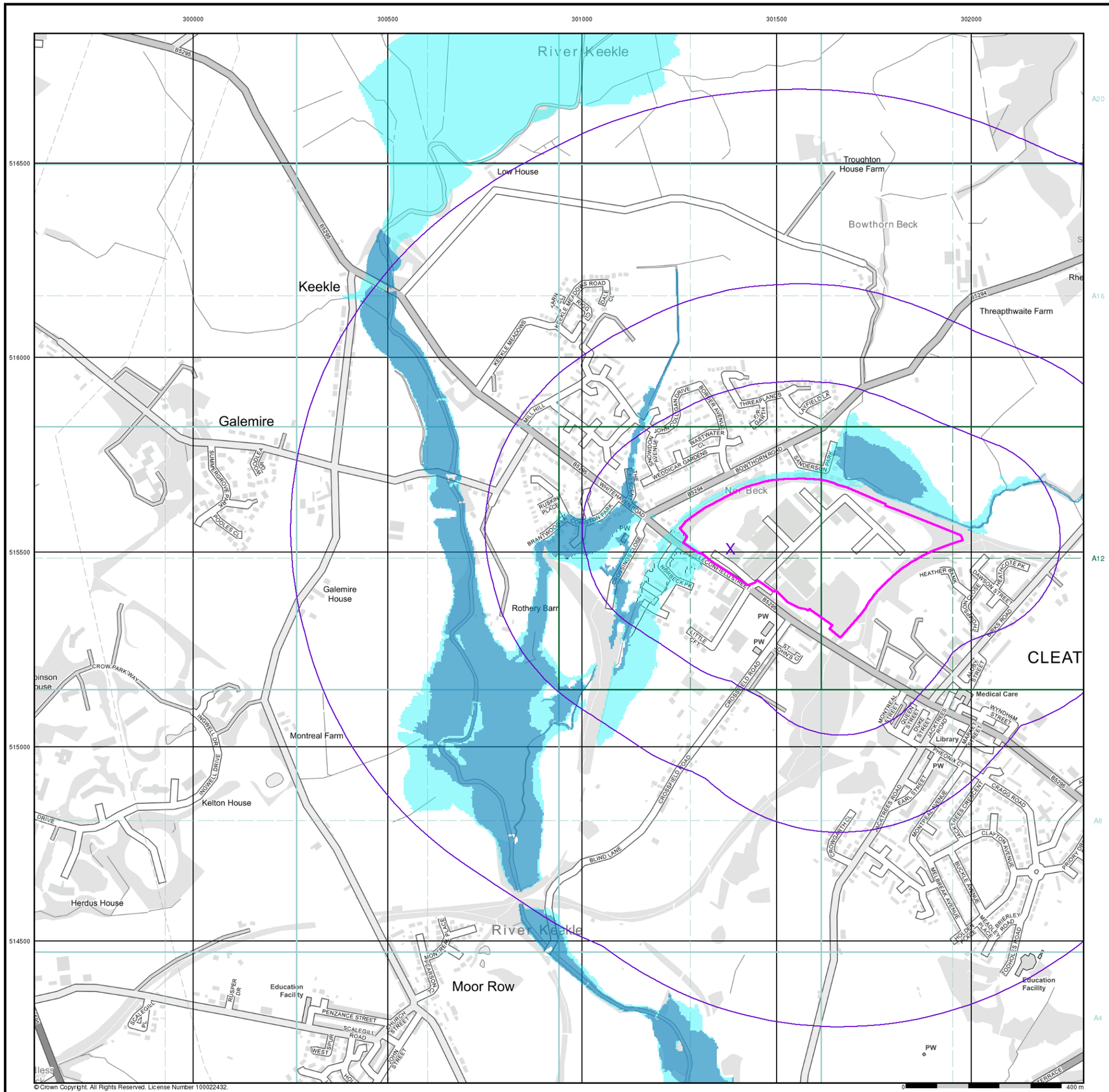

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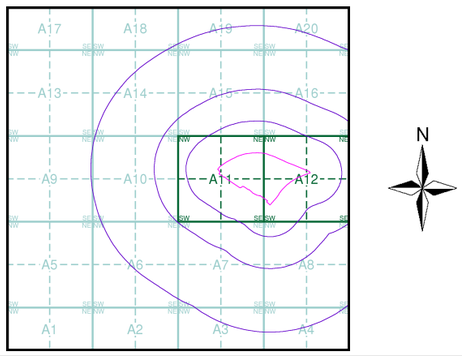
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



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Slice:	A
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Search Buffer (m):	1000

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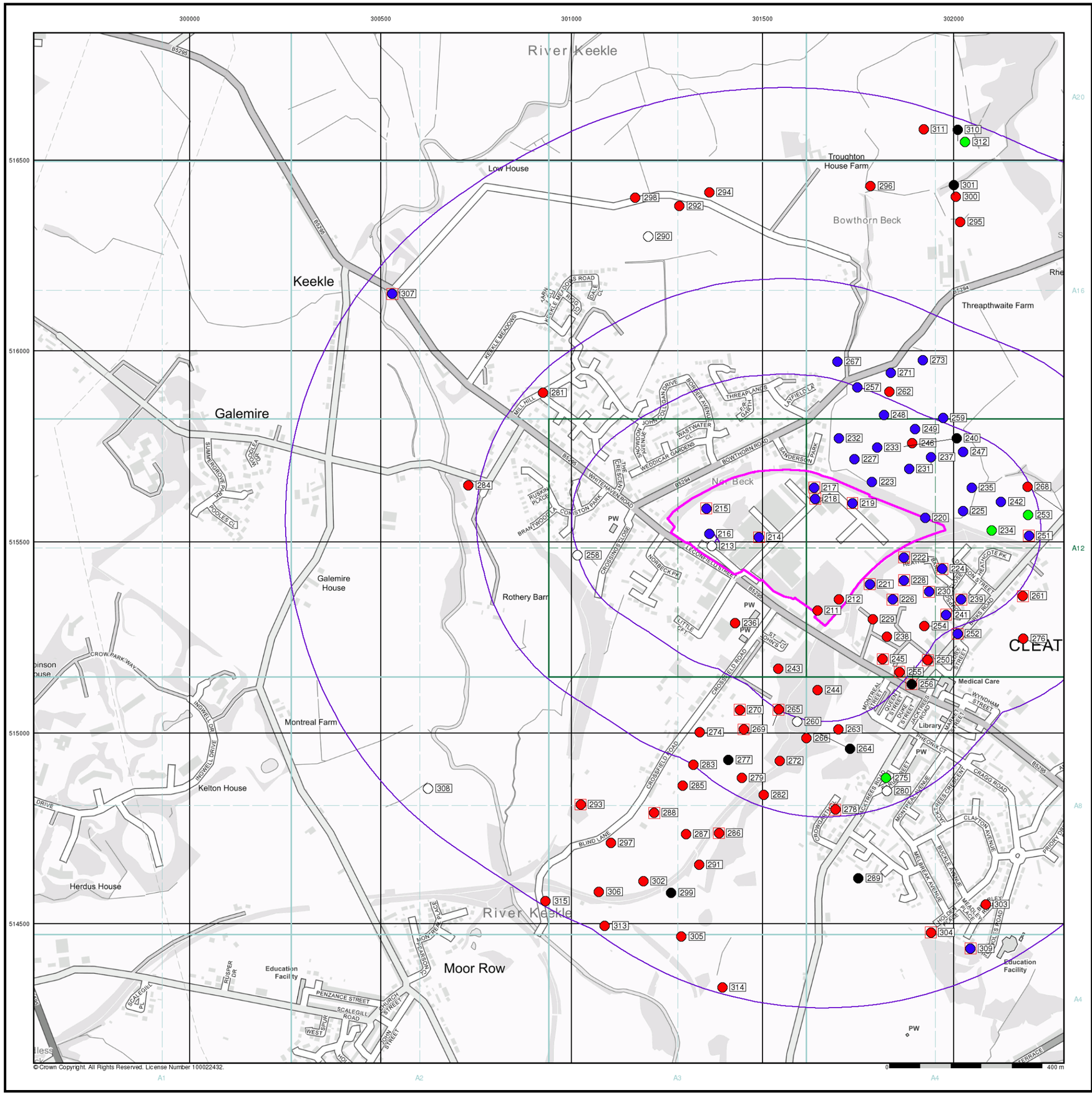

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General

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

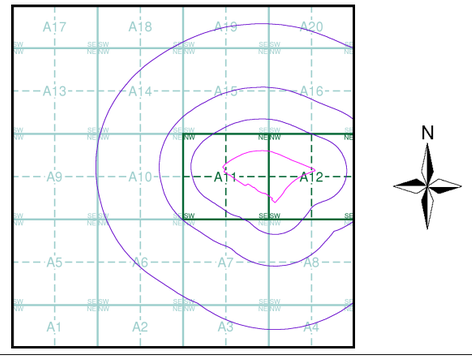
Agency and Hydrological (Boreholes)

- 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



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

Site Details

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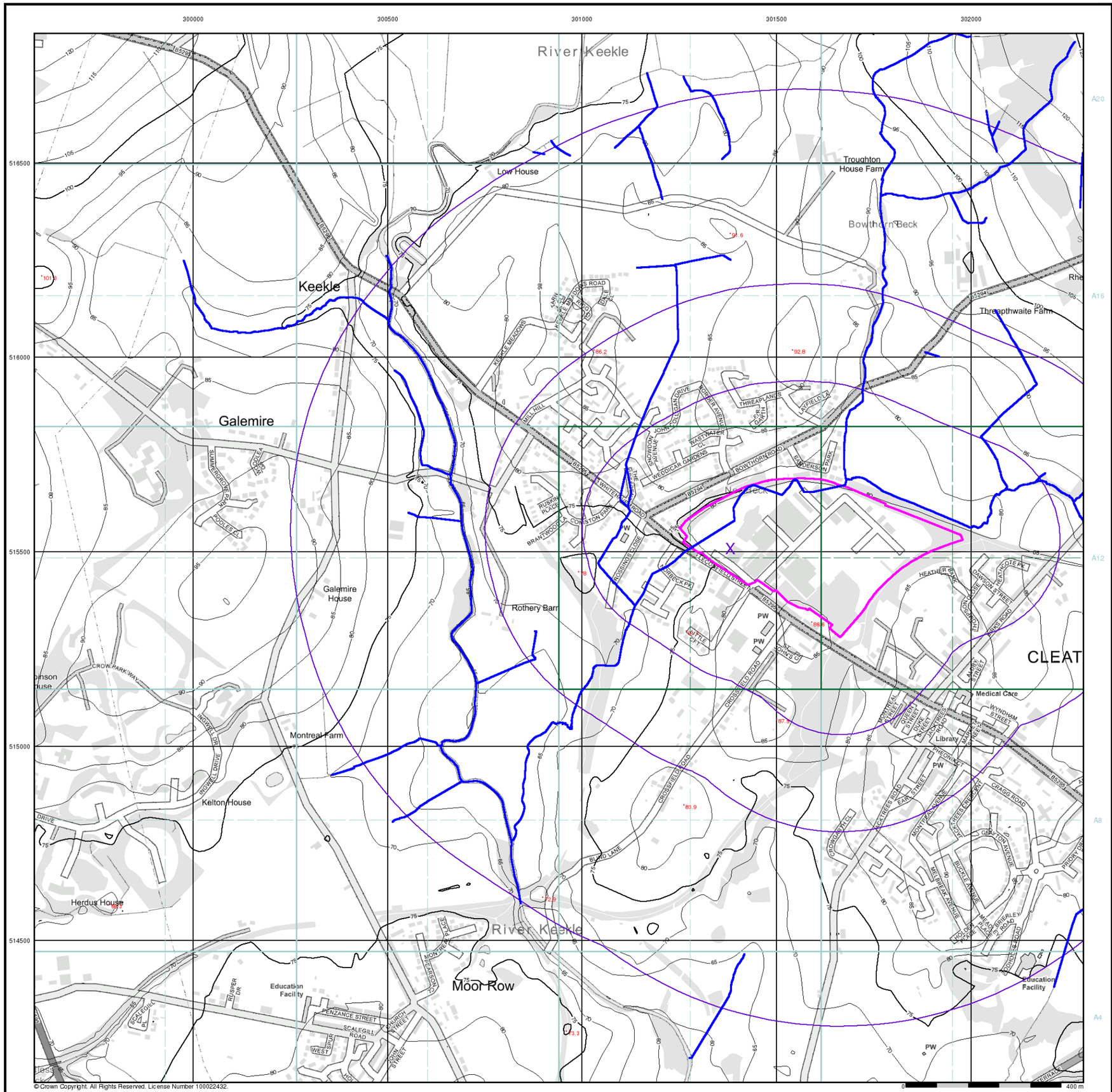


General

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

OS Water Network Data

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

Contours (height in meters)

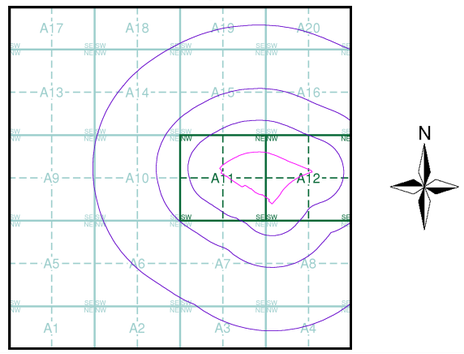
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



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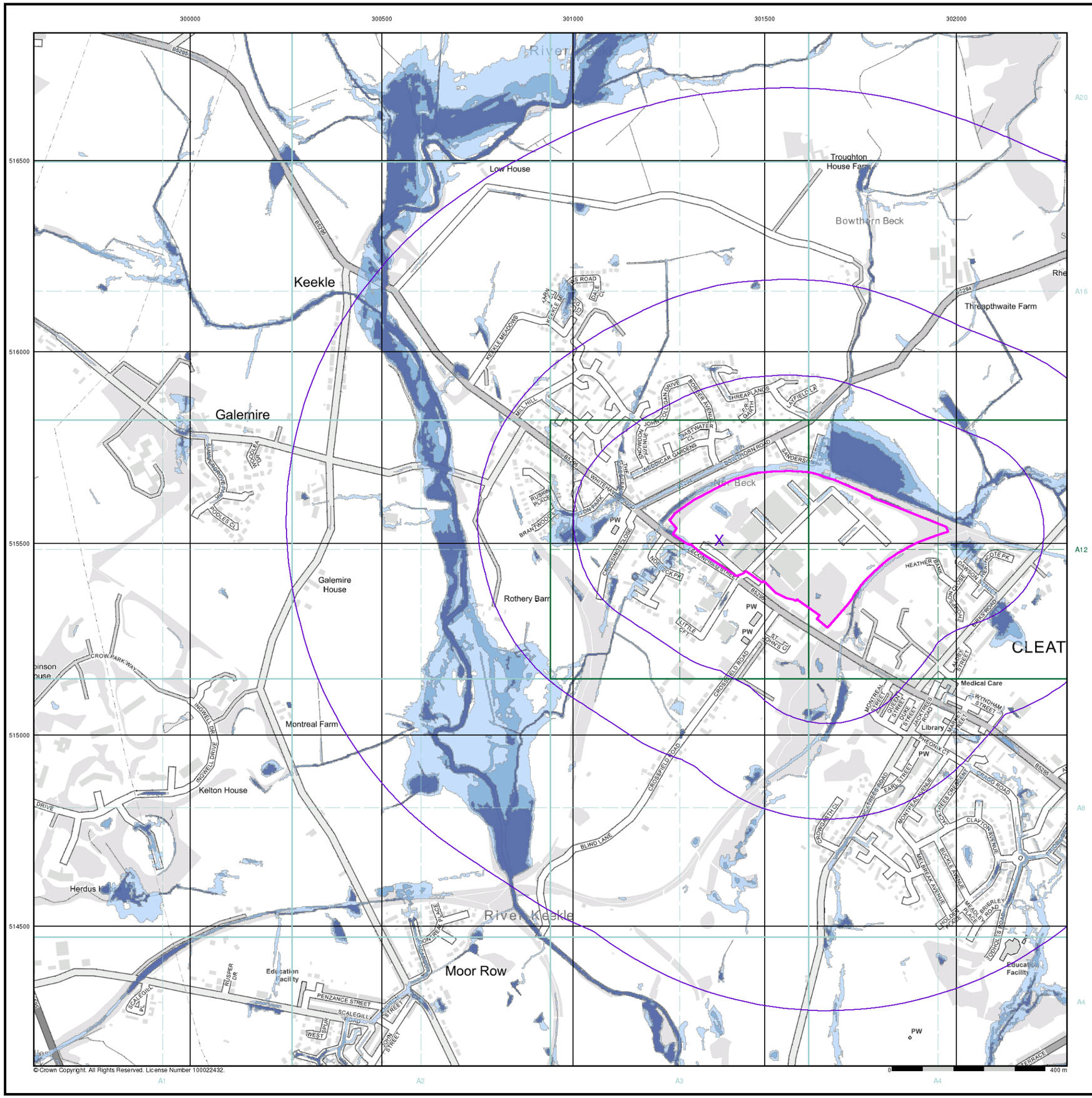
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A16
A12
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A4
River Keekle
Low House
Troughton House Farm
Bowthorn Beck
Keekle
Threapthwaite Farm
Galemire
Galemire House
Rothery Barn
Montreal Farm
Kelton House
Herdus House
River Keekle
Moor Row
CLEATOR
Medical Care
Library
Education Facility
Education Facility
B5295
B5292
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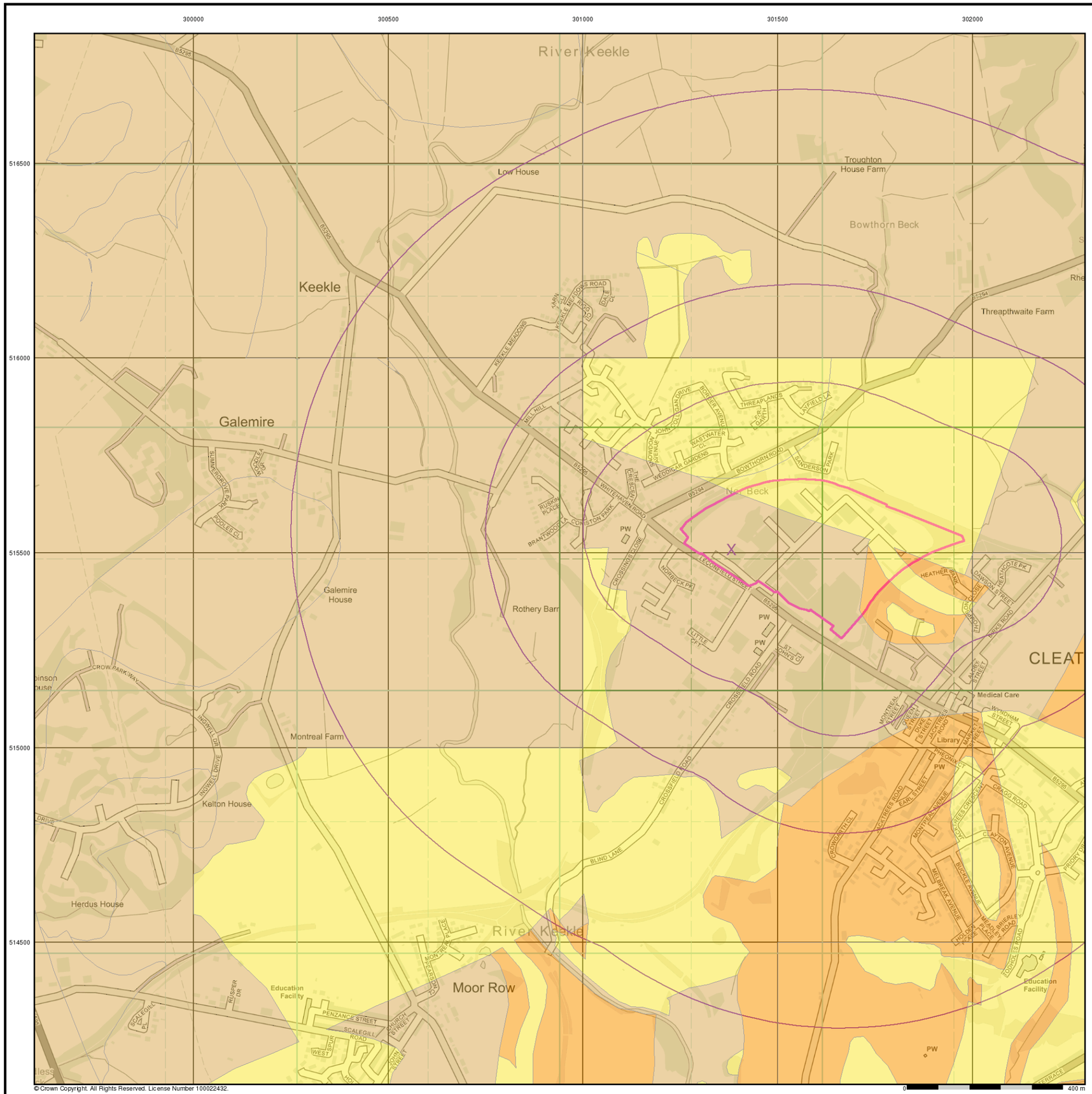
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Education Facility
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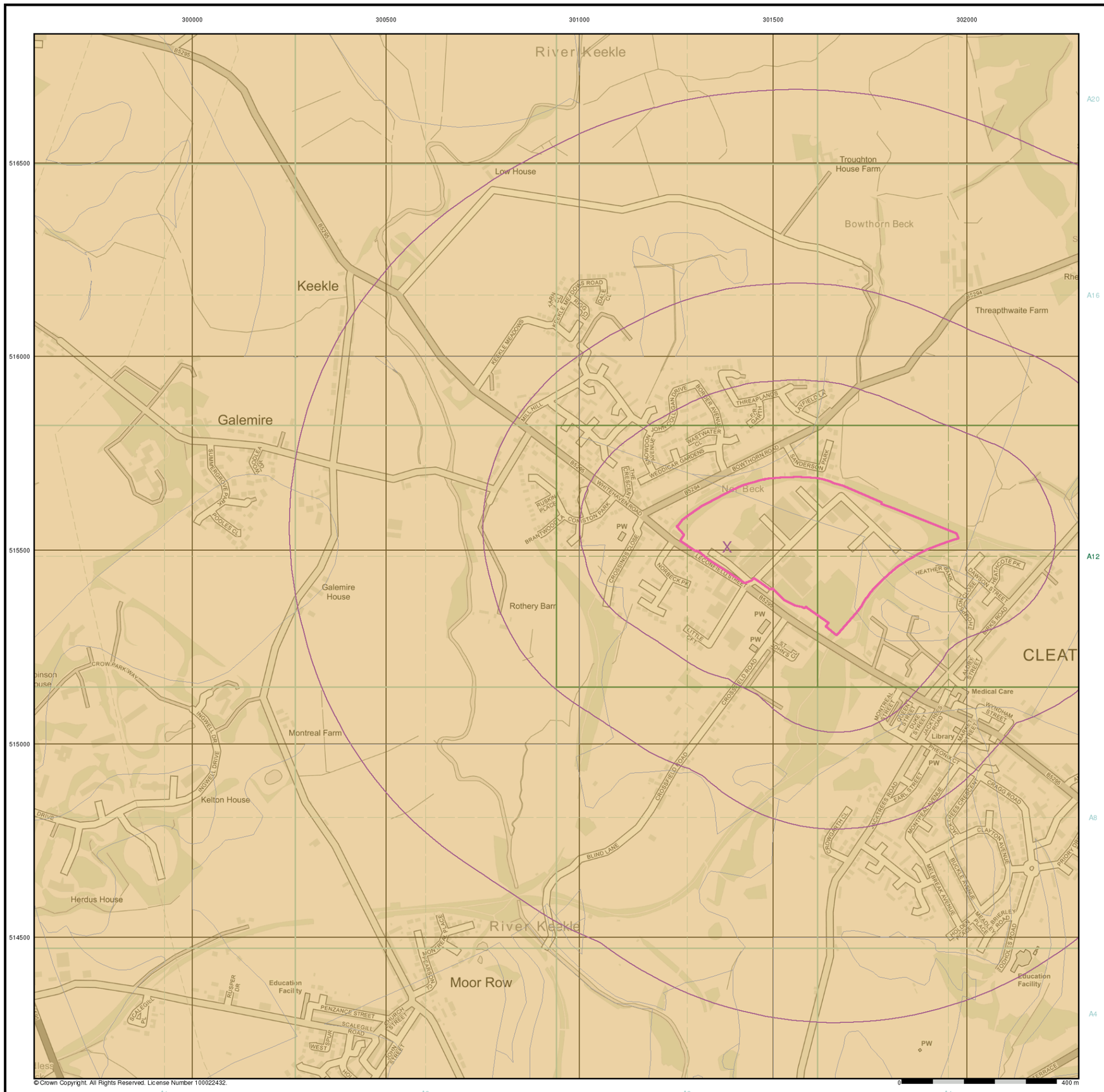


General

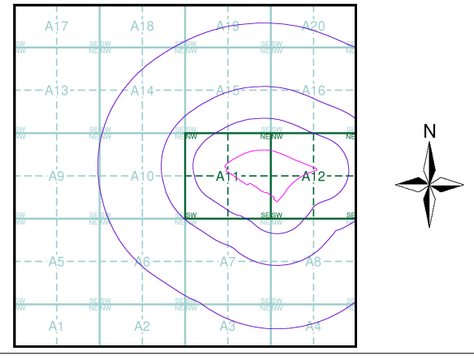
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

	< 1.8
	1.8 - 2.2
	2.2 - 3.0
	> 3.0

Estimated Soil Chemistry Cadmium - Slice A



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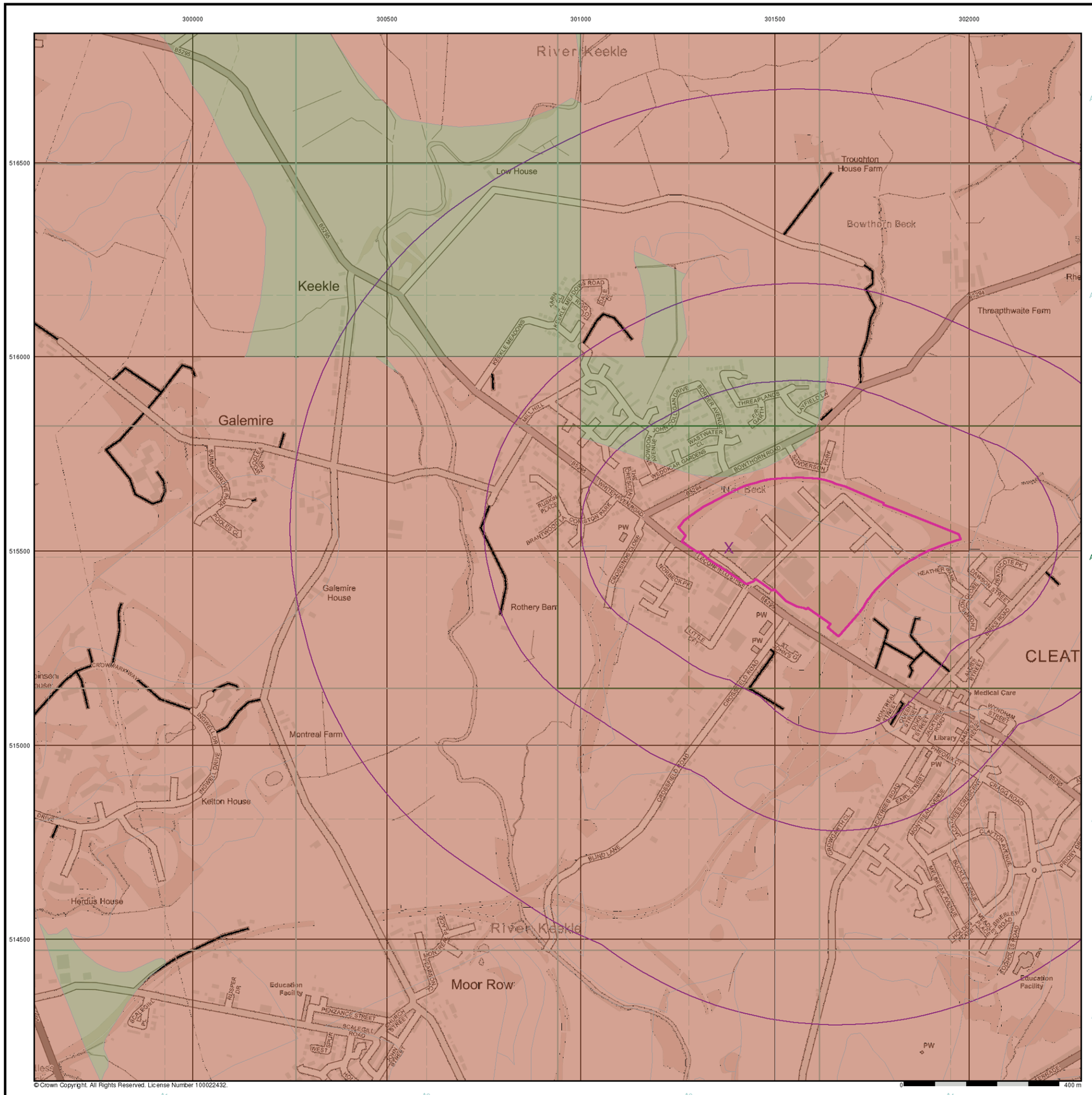
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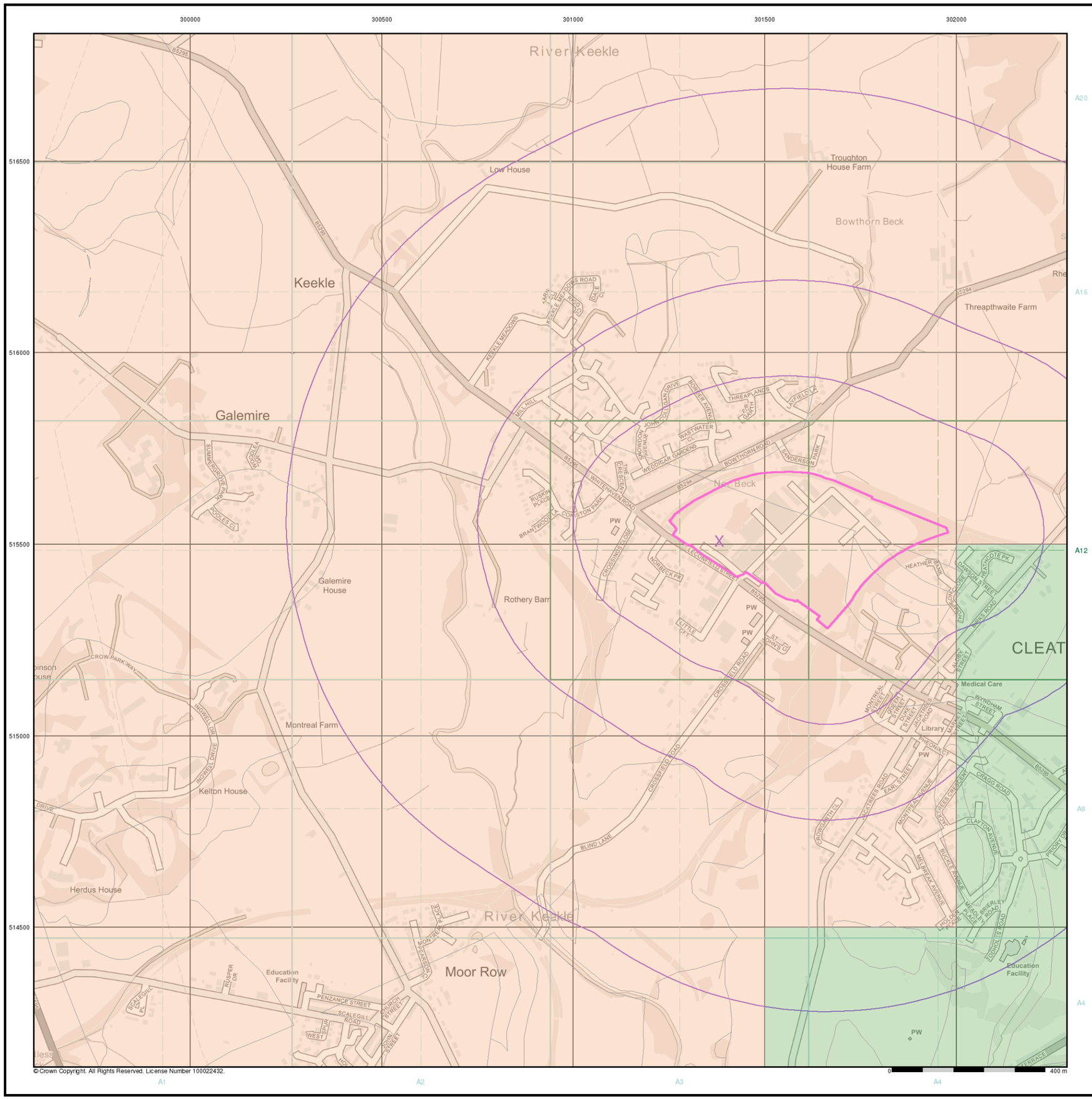
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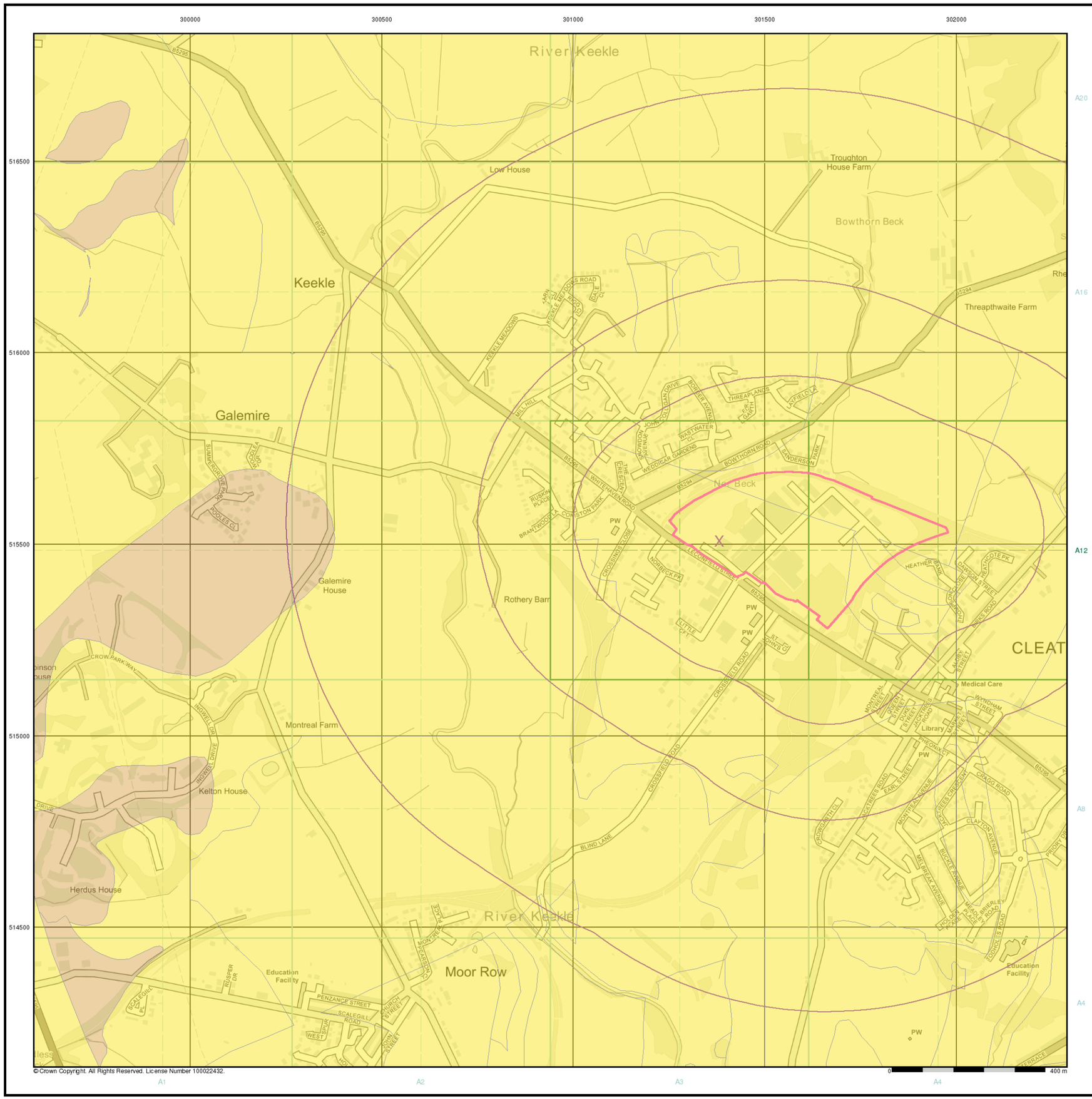
B5295



General

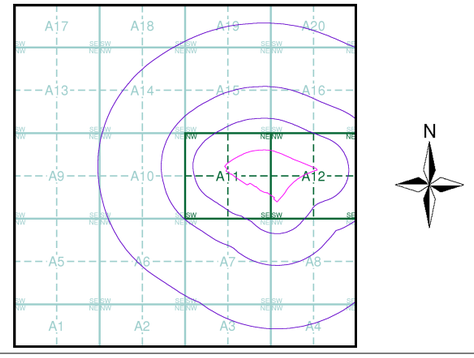
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

Estimated Soil Chemistry Nickel - Slice A



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Fax: 0844 844 9951
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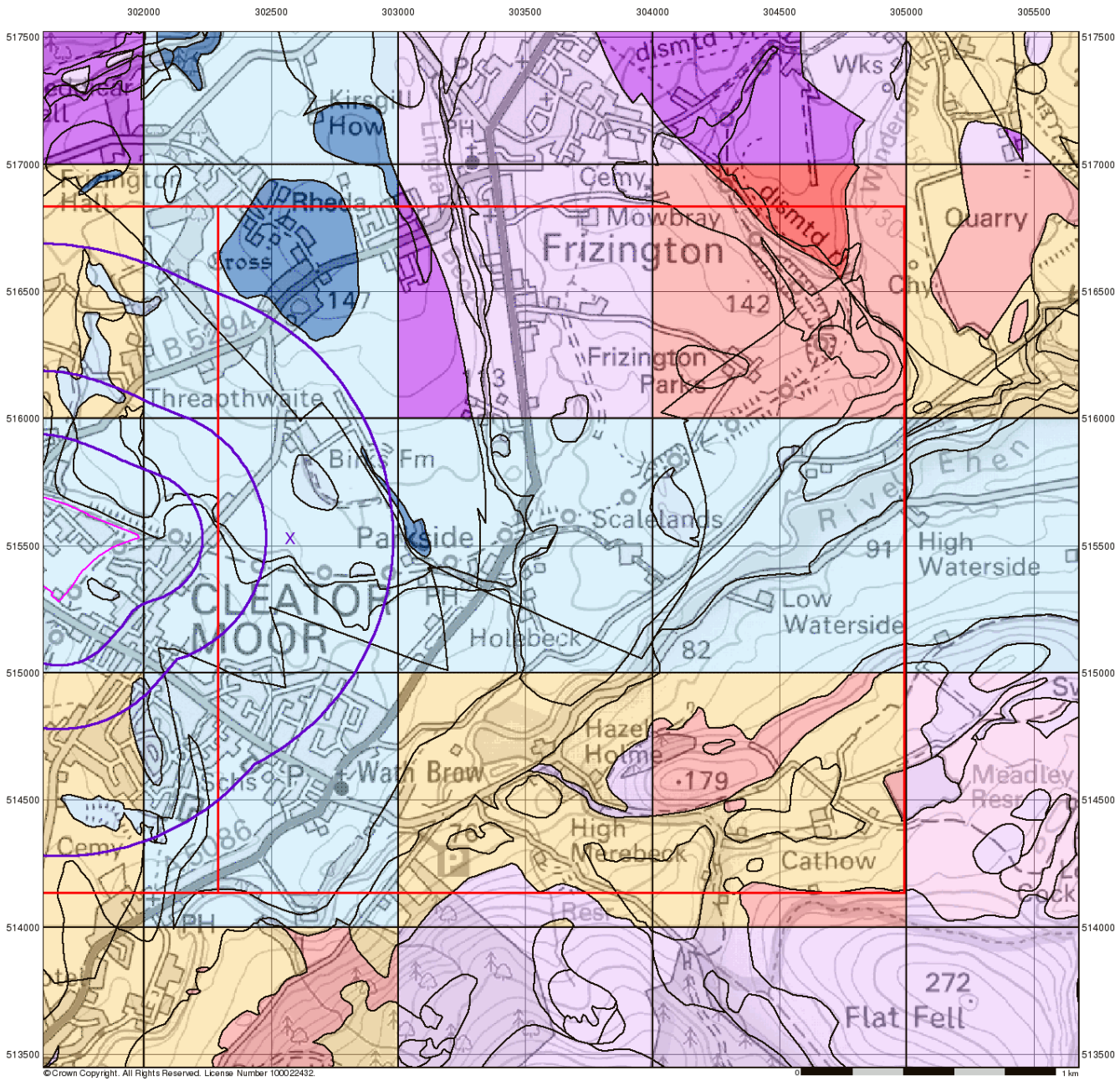

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Groundwater Vulnerability

General

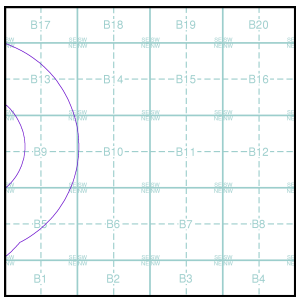
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer
Soluble Rock

Site Sensitivity Context Map - Slice B



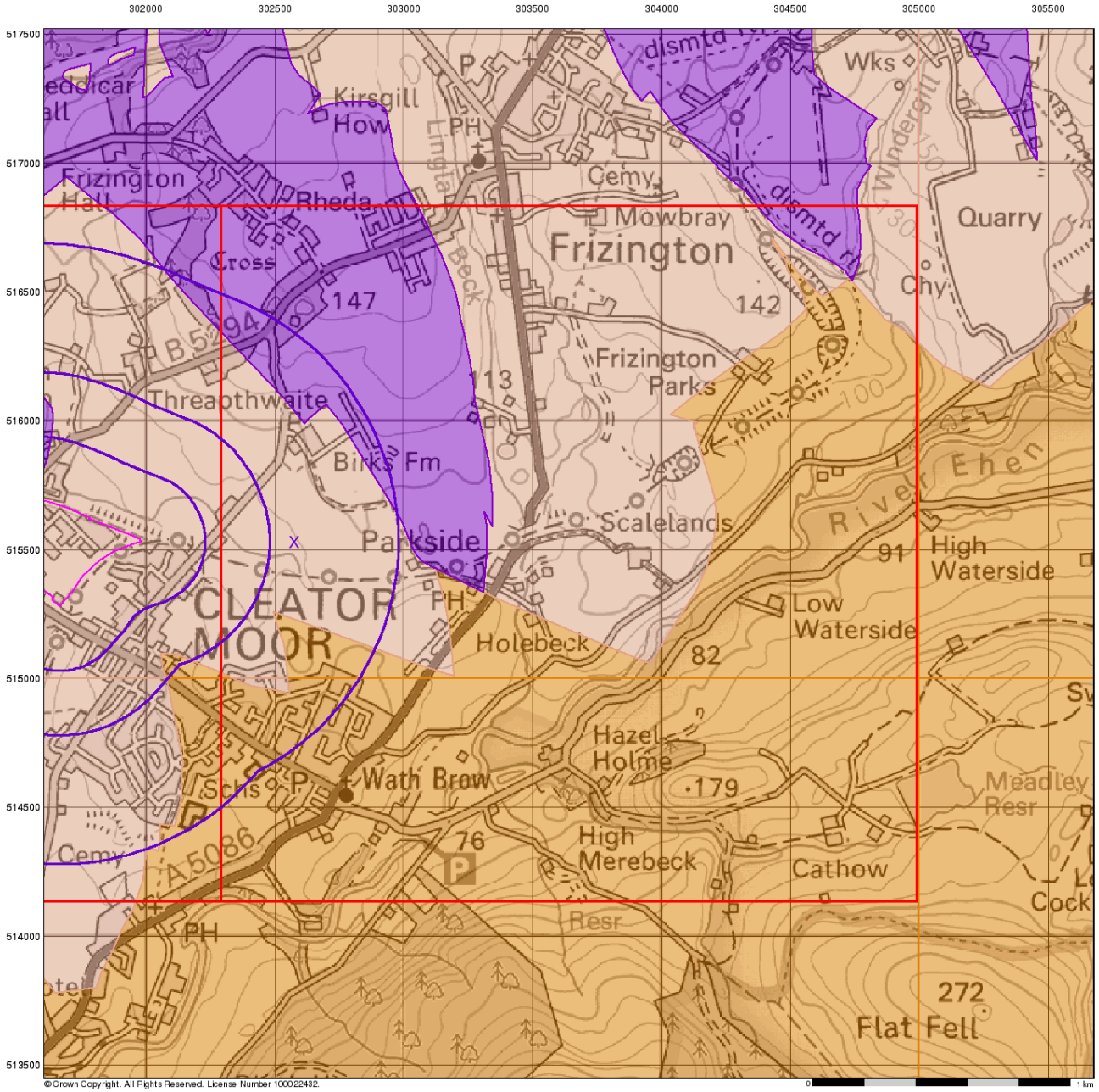
Order Details

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

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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



Bedrock Aquifer Designation

General

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

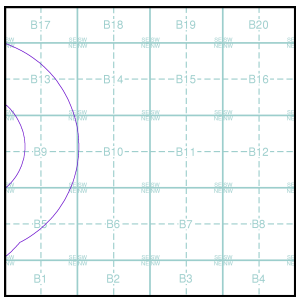
Slice | Map ID

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



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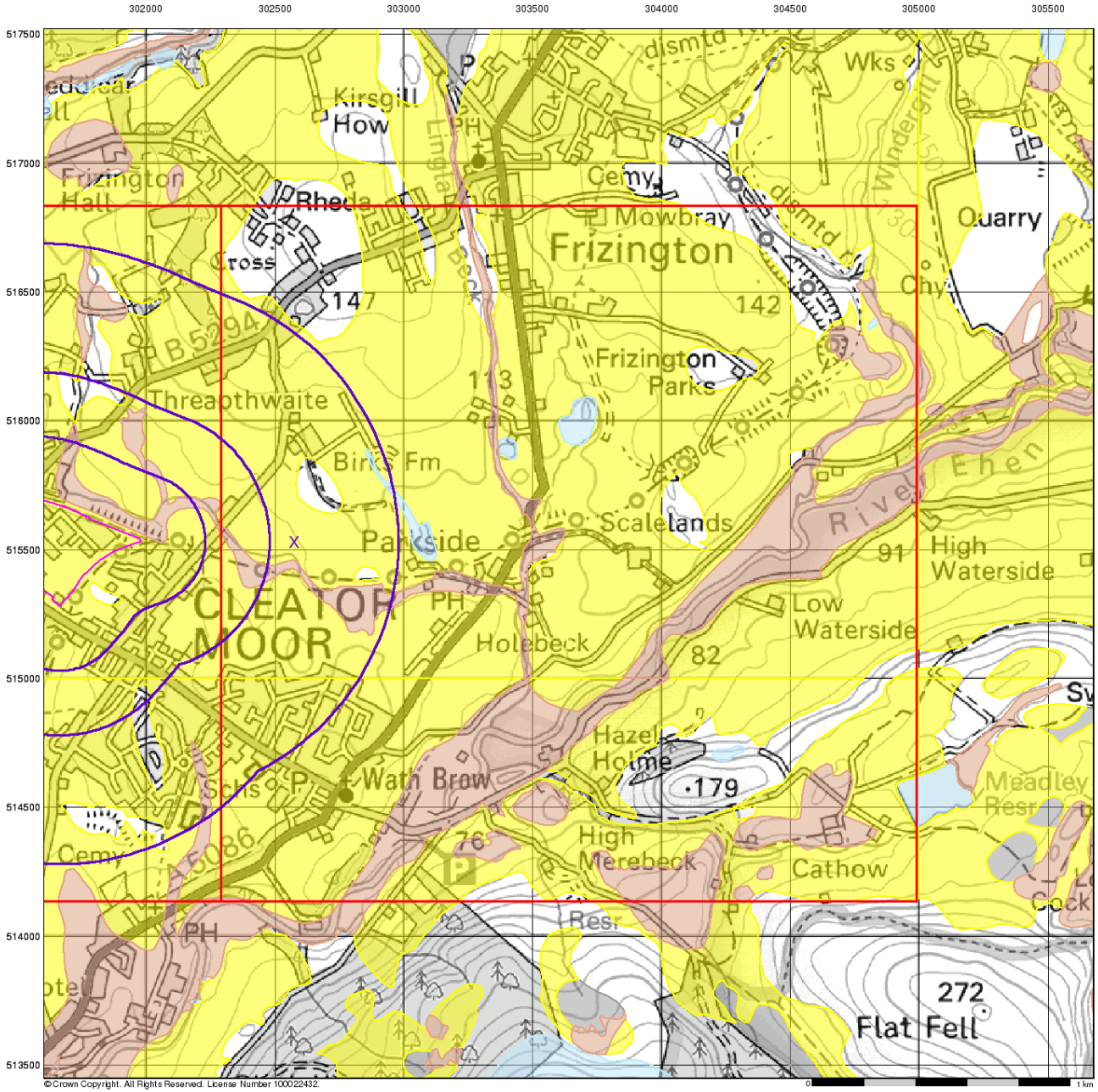


Superficial Aquifer Designation

General

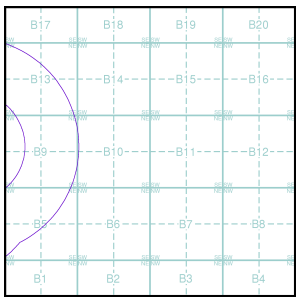
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

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



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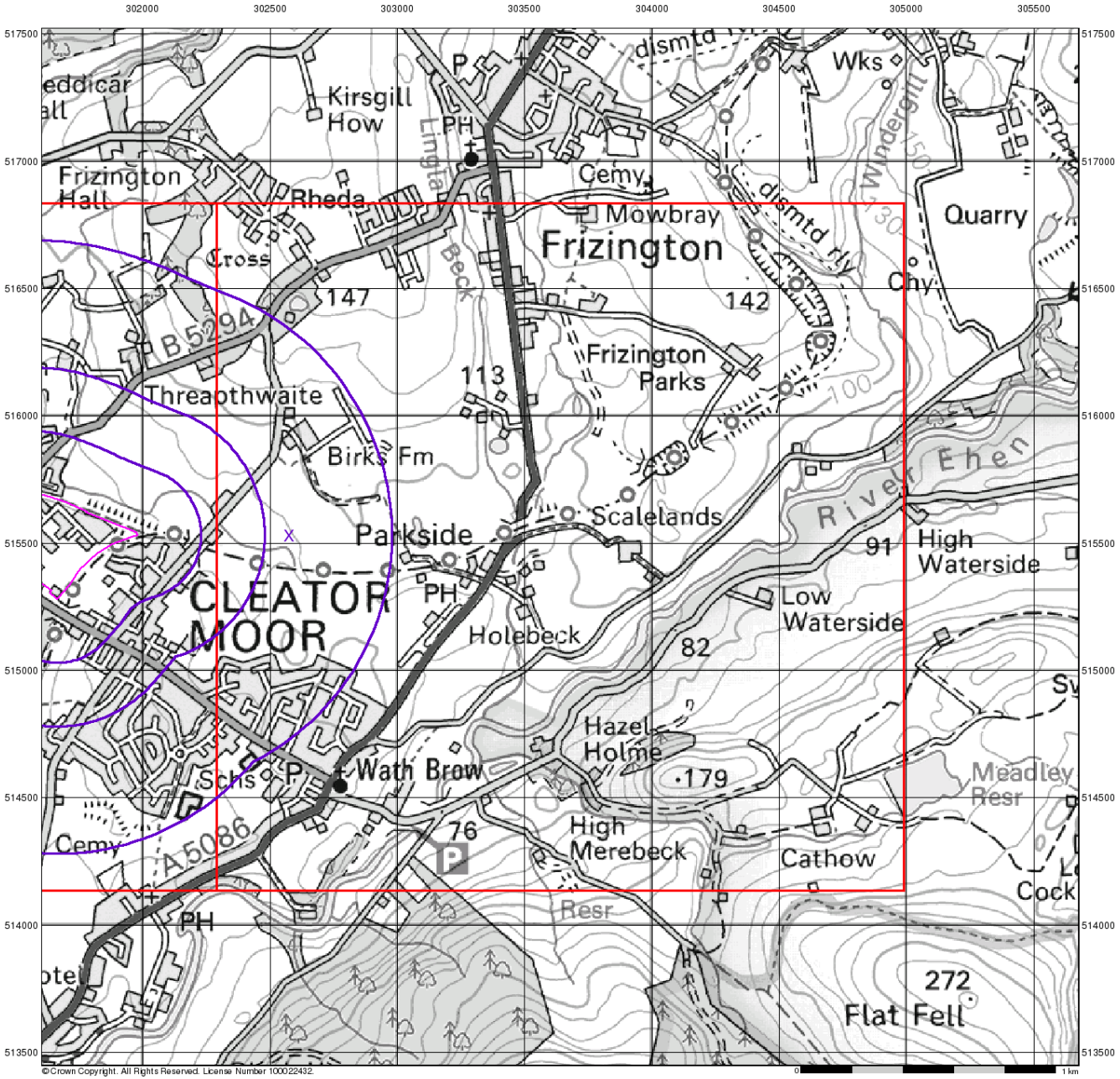


Source Protection Zones

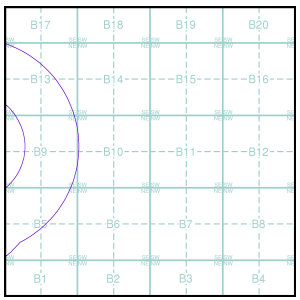
General

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



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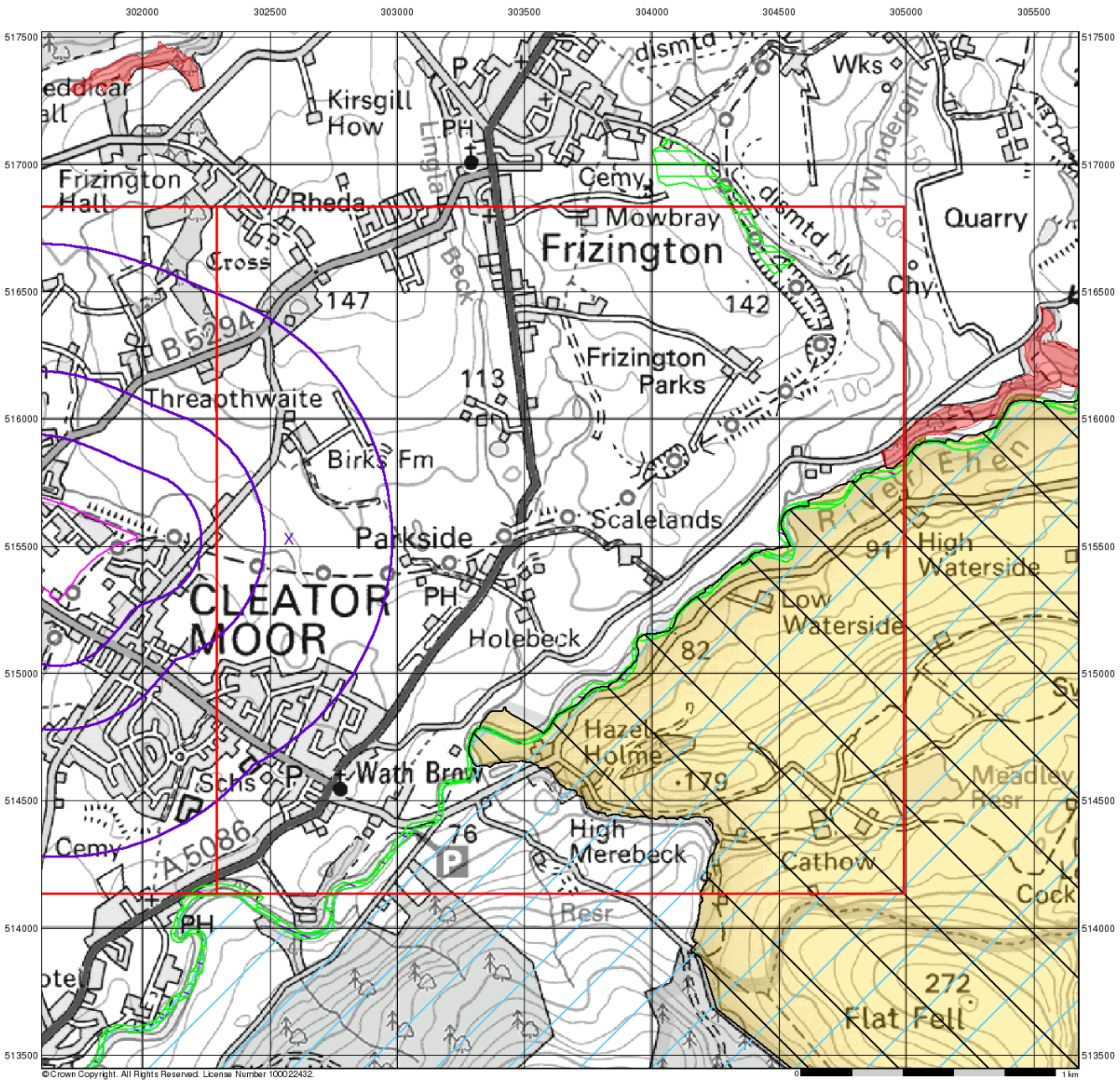


Sensitive Land Uses

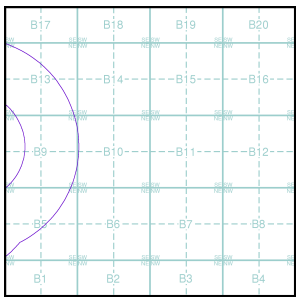
General

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

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Slice:	B
Site Area (Ha):	15.46
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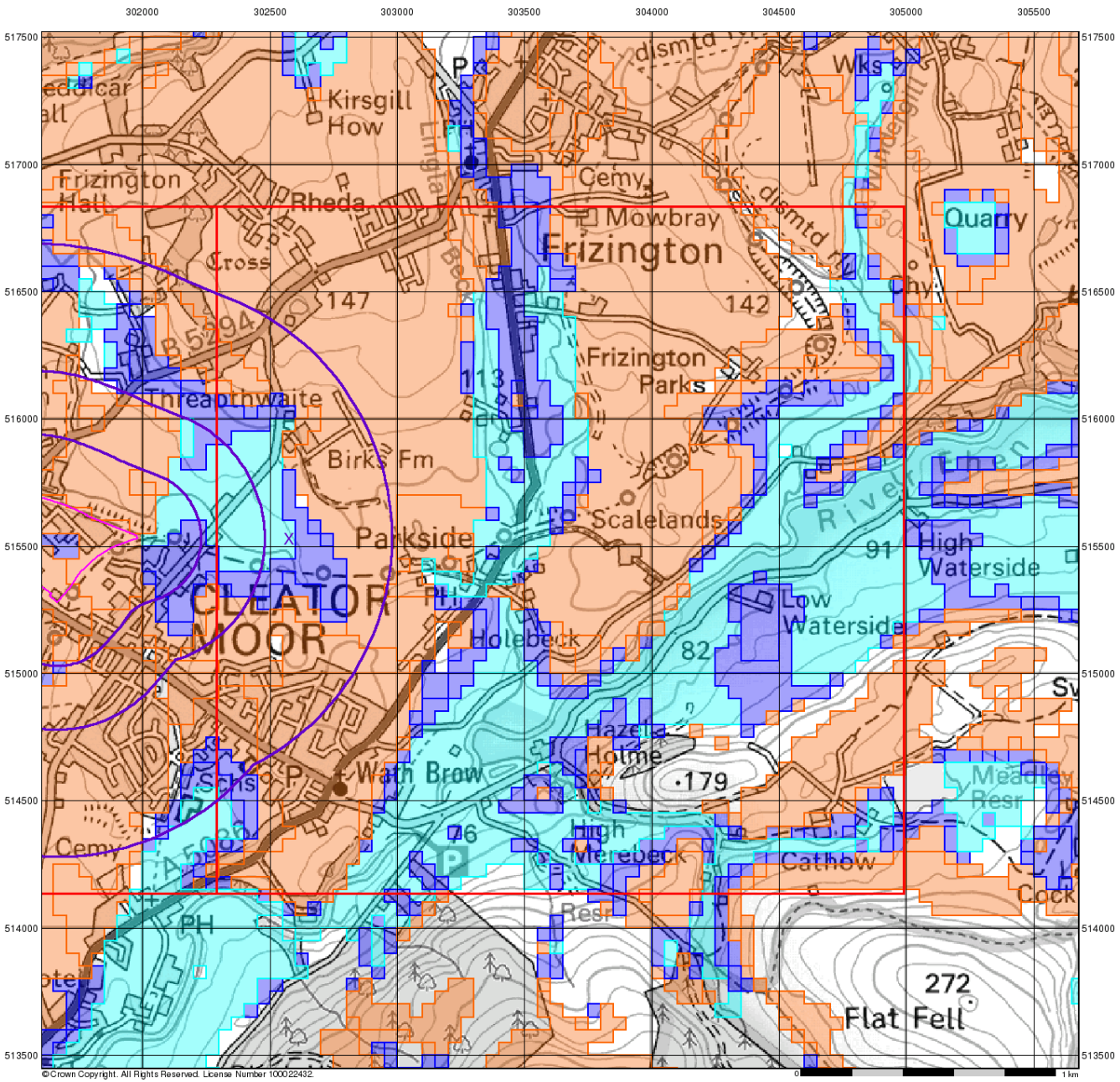


BGS Flood GFS Data

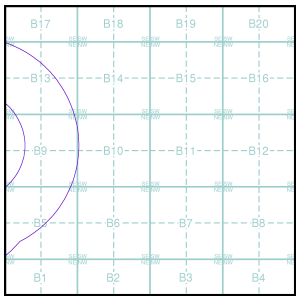
General

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

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

Contents

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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Contents

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

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 6	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 6			2	5
Potentially Infilled Land (Water)					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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 7	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 7	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 10			2	7
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 12	Yes	n/a	n/a	n/a
Mining Instability	pg 12	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 12		Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 12		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
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
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 12	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 13			3	2
Fuel Station Entries					
Points of Interest - Commercial Services	pg 13			2	
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 13			6	4
Points of Interest - Public Infrastructure	pg 14				2
Points of Interest - Recreational and Environmental					
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	(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 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	B9NW (SW)	397	1	302574 515529
	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)	554	1	302479 515262
	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	B9NE (NE)	637	1	302649 515657
	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	B9NE (NE)	645	1	302689 515600
	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: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	B5NW (S)	745	1	302532 515000
	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: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	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 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	B9NE (NE)	775	1	302797 515651
	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	B13SW (N)	796	1	302625 516000
	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	B9NE (NE)	841	1	302860 515712
	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	B9SE (SE)	842	1	302802 515356
	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 mg/kg Nickel Concentration: 15 - 30 mg/kg	B13SE (N)	842	1	302680 516000
	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	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 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	B9NE (NE)	900	1	302914 515740
	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	B9SE (SE)	908	1	302815 515180
	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	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

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	February 2016	Variable
Cumbria County Council - Development Control	February 2016	Variable
Lake District National Park	February 2016	Variable
Planning Hazardous Substance Consents		
Copeland Borough Council - Planning	February 2016	Variable
Cumbria County Council - Development Control	February 2016	Variable
Lake District National Park	February 2016	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

Data Currency

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

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
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 - Cisuralian

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		

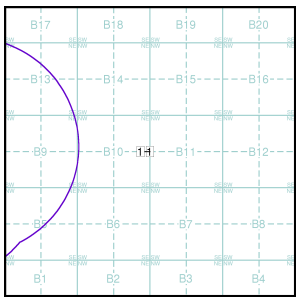
Geology 1:50,000 Maps

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



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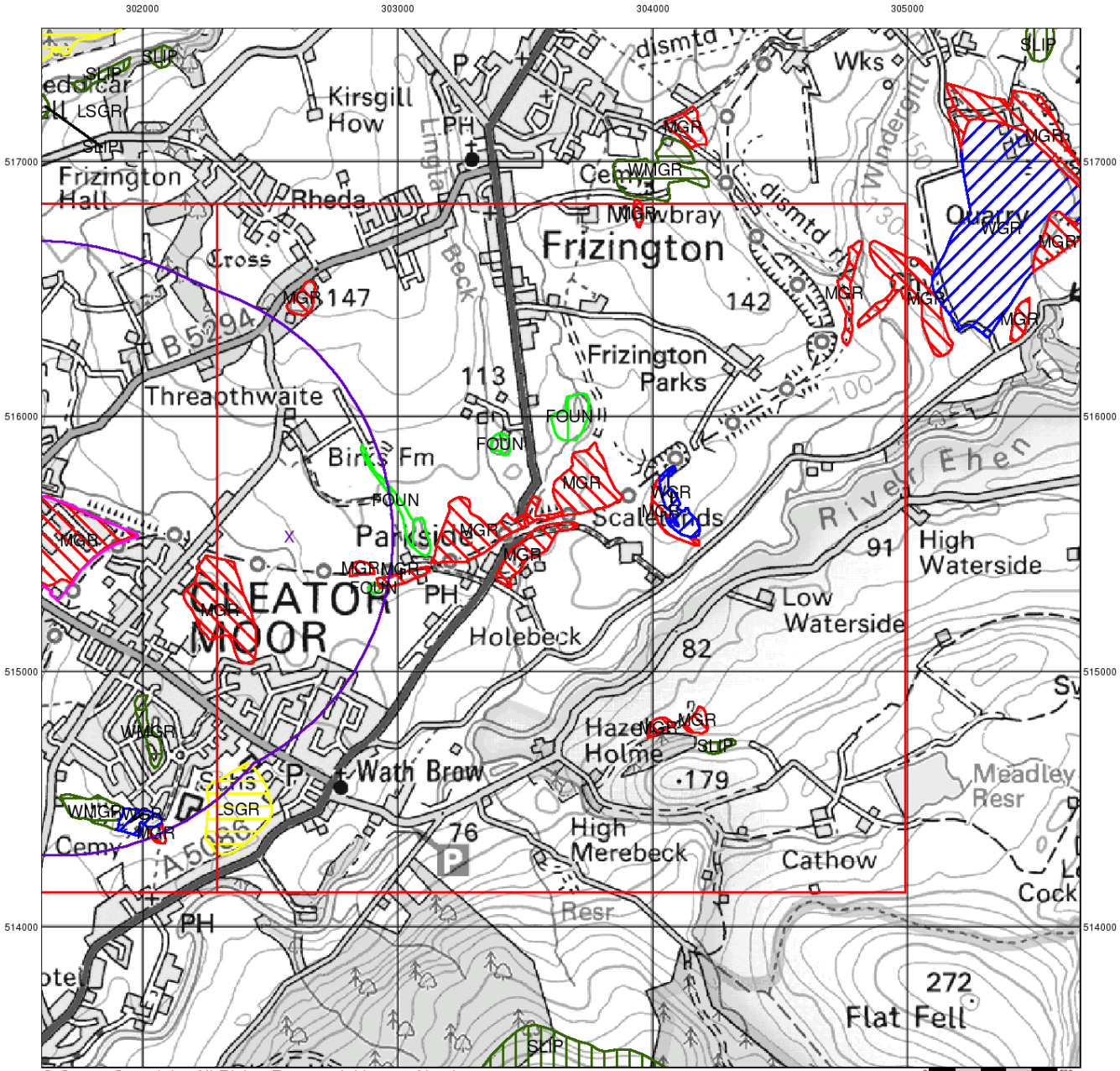
Order Number:	224379683_1_1
Customer Reference:	A114312
National Grid Reference:	302570, 515530
Slice:	B
Site Area (Ha):	15.46
Search Buffer (m):	1000

Site Details:

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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



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Artificial Ground and Landslip

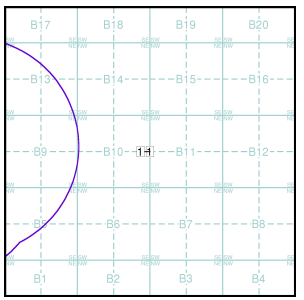
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice B



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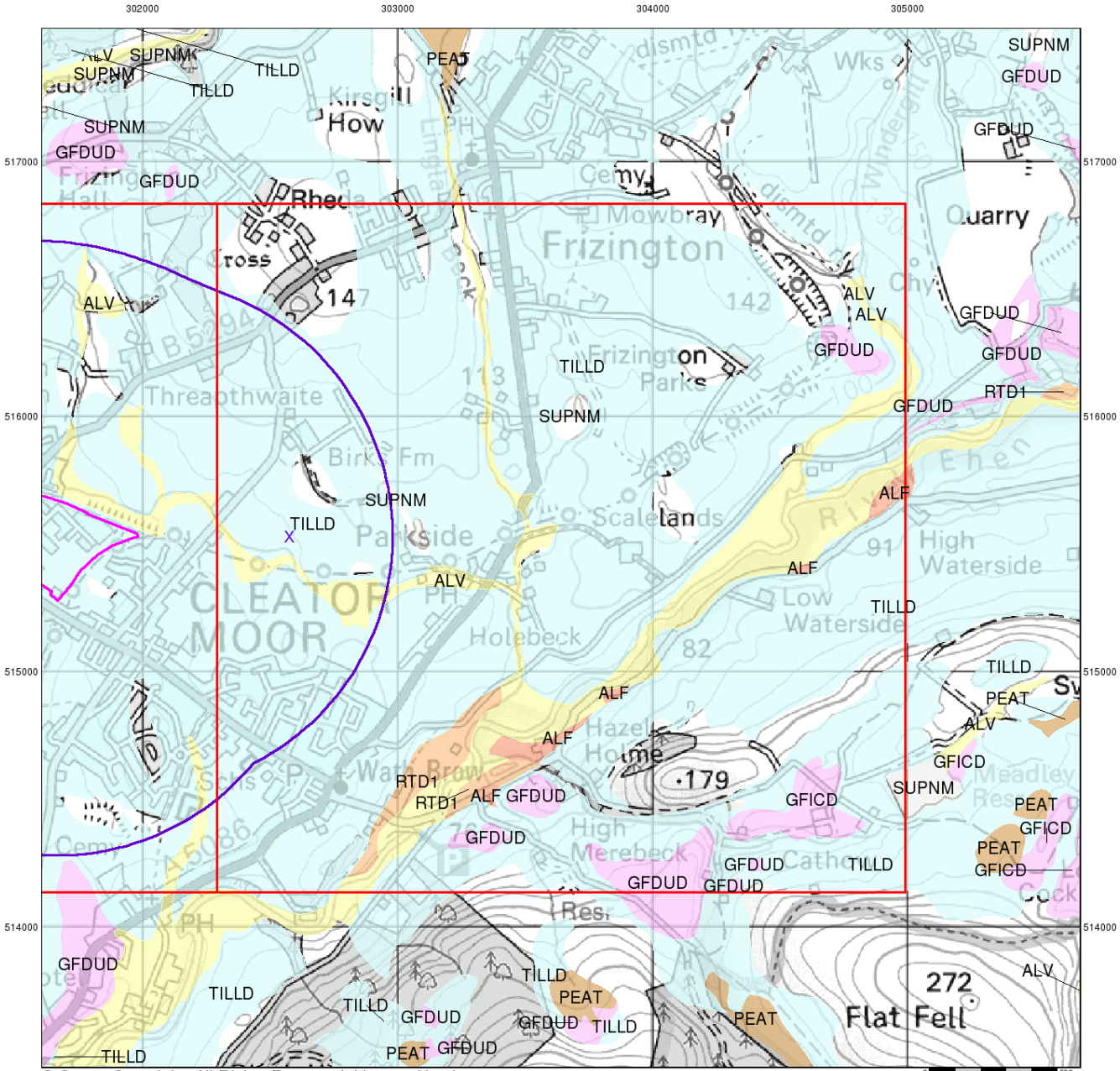

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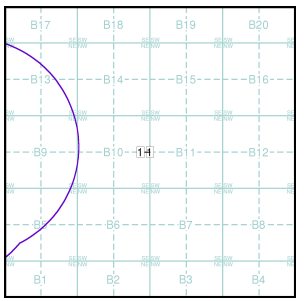
Superficial Geology

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

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

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

Superficial Geology Map - Slice B



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Customer Reference:	A114312
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Slice:	B
Site Area (Ha):	15.46
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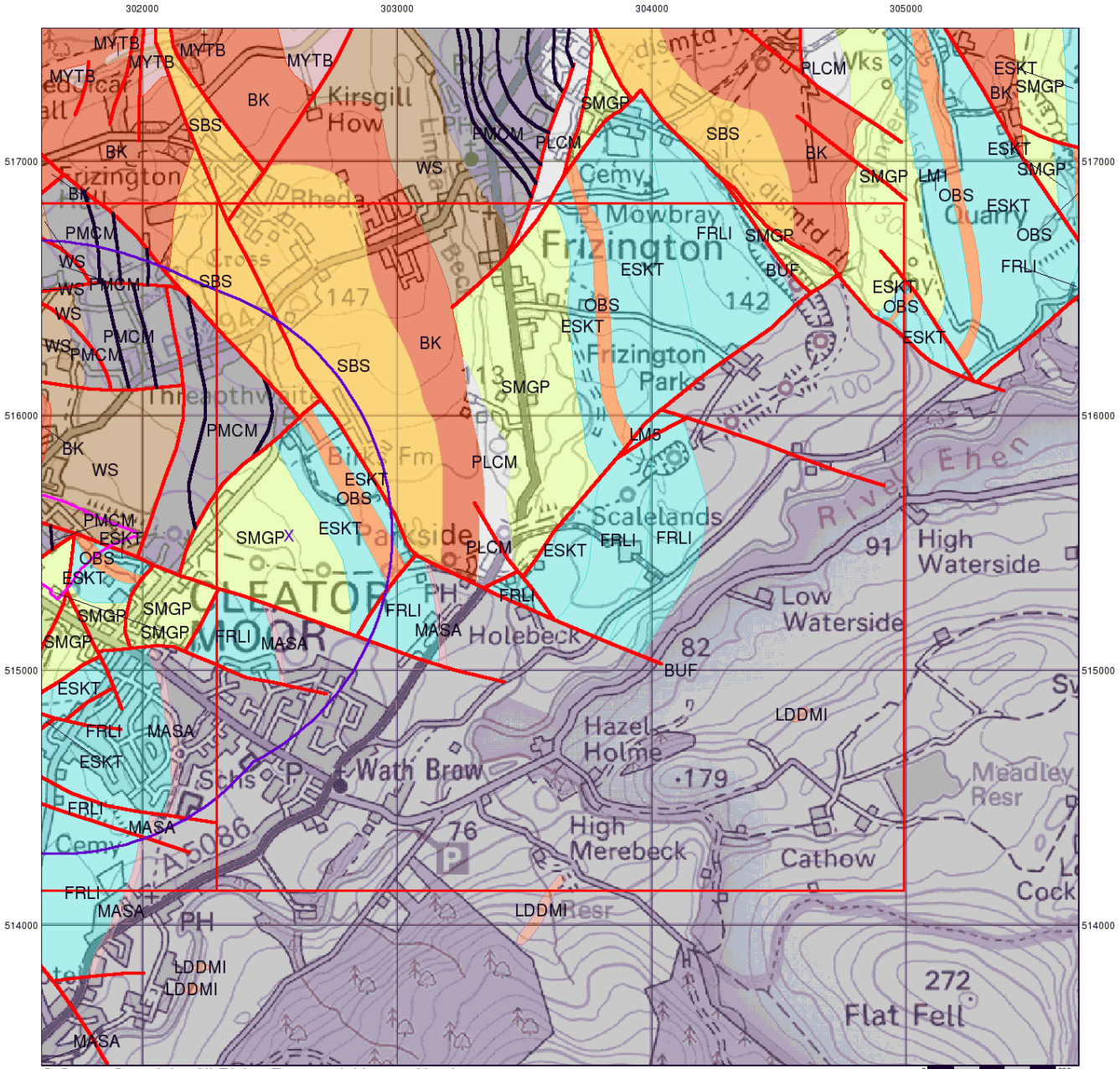

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Bedrock and Faults

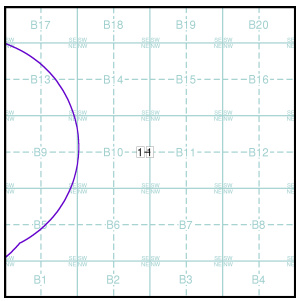
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice B



N

Order Details:

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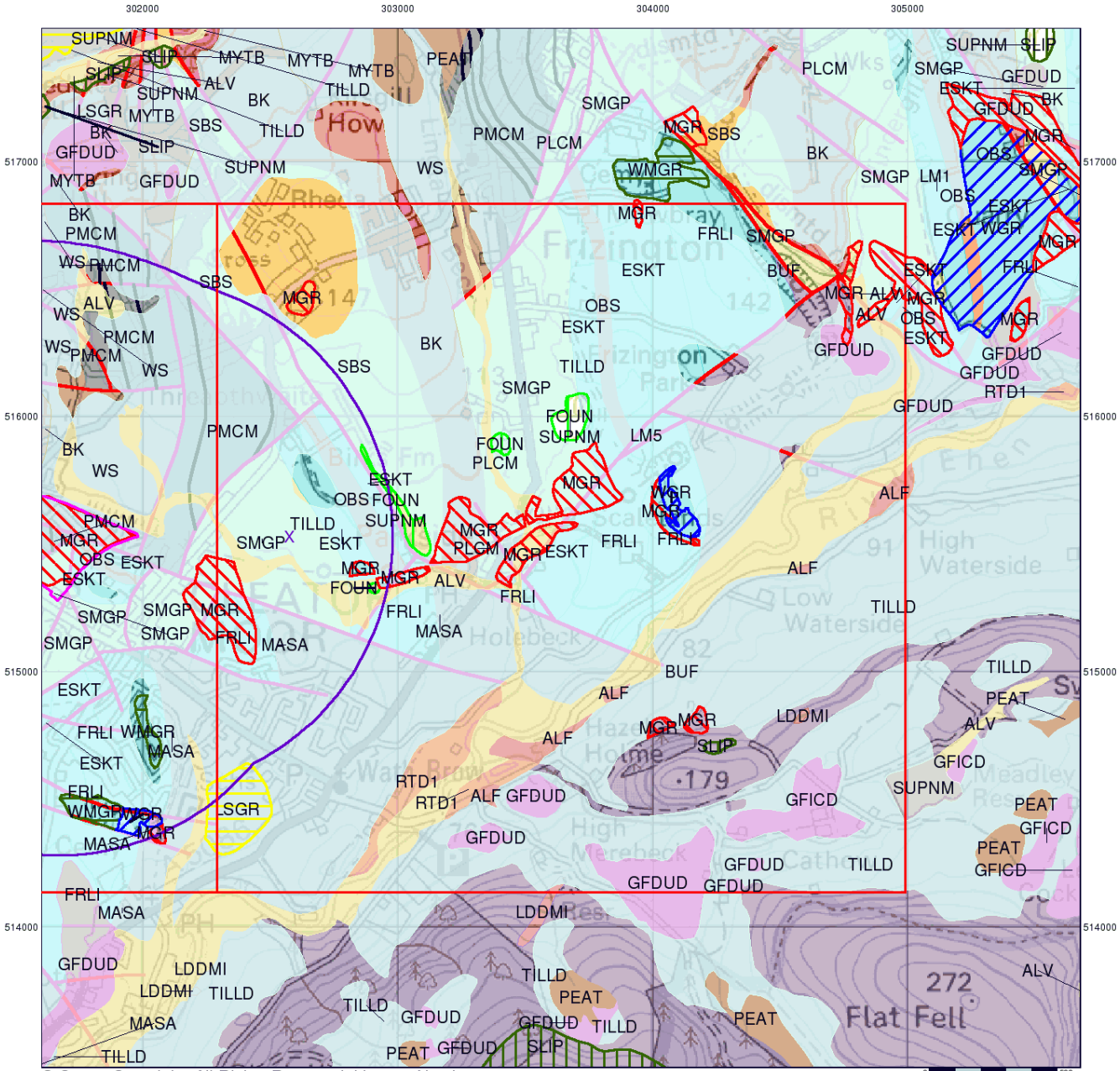

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Combined Surface Geology

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

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

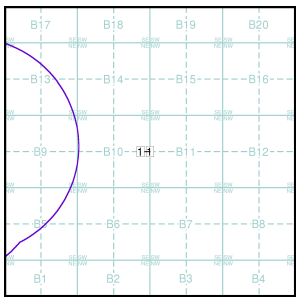
Additional Information

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

Contact

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

Combined Geology Map - Slice B



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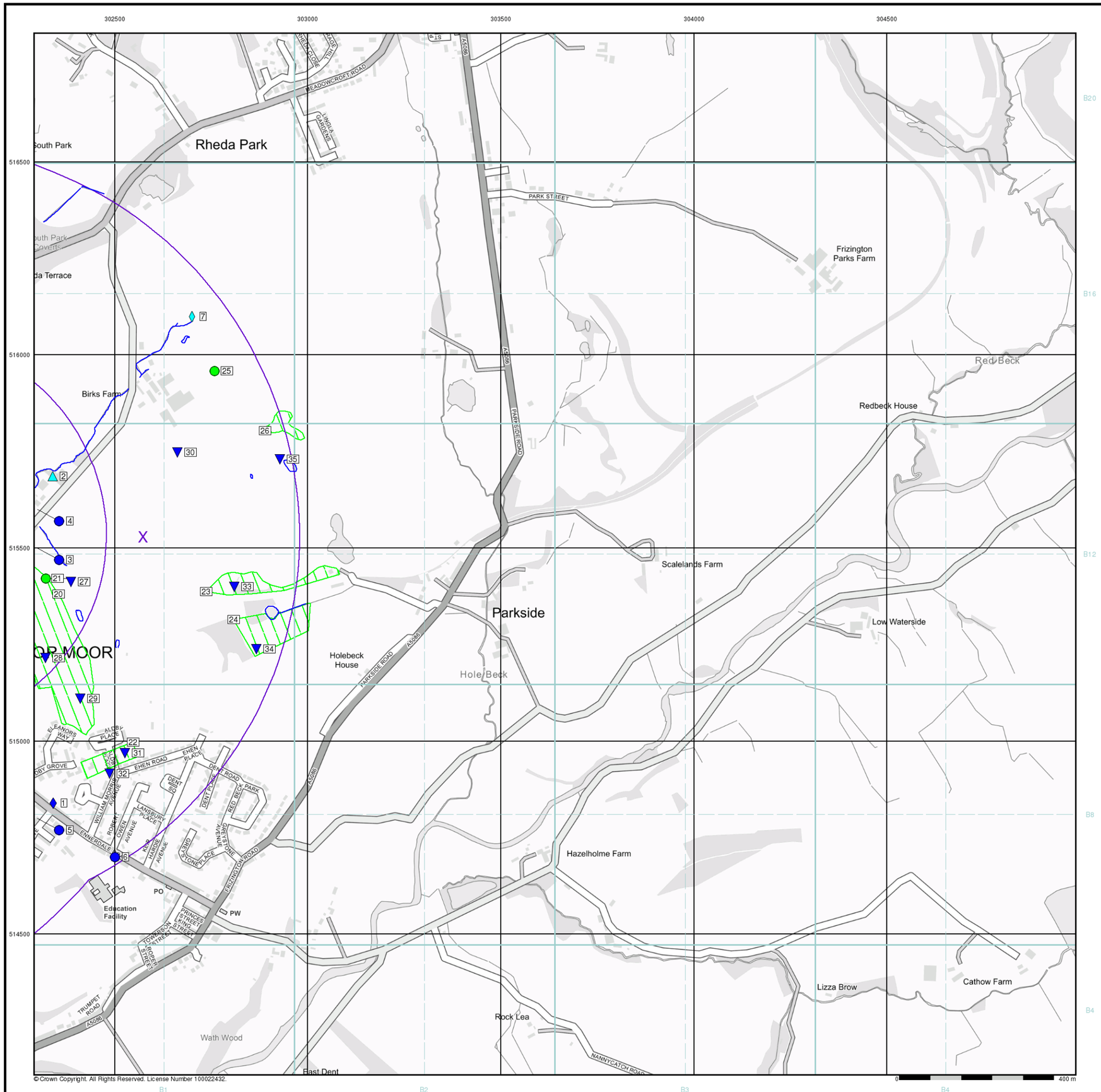


General

- 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

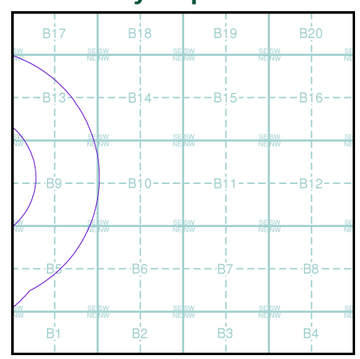
Geological

- 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 (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 - Slice B



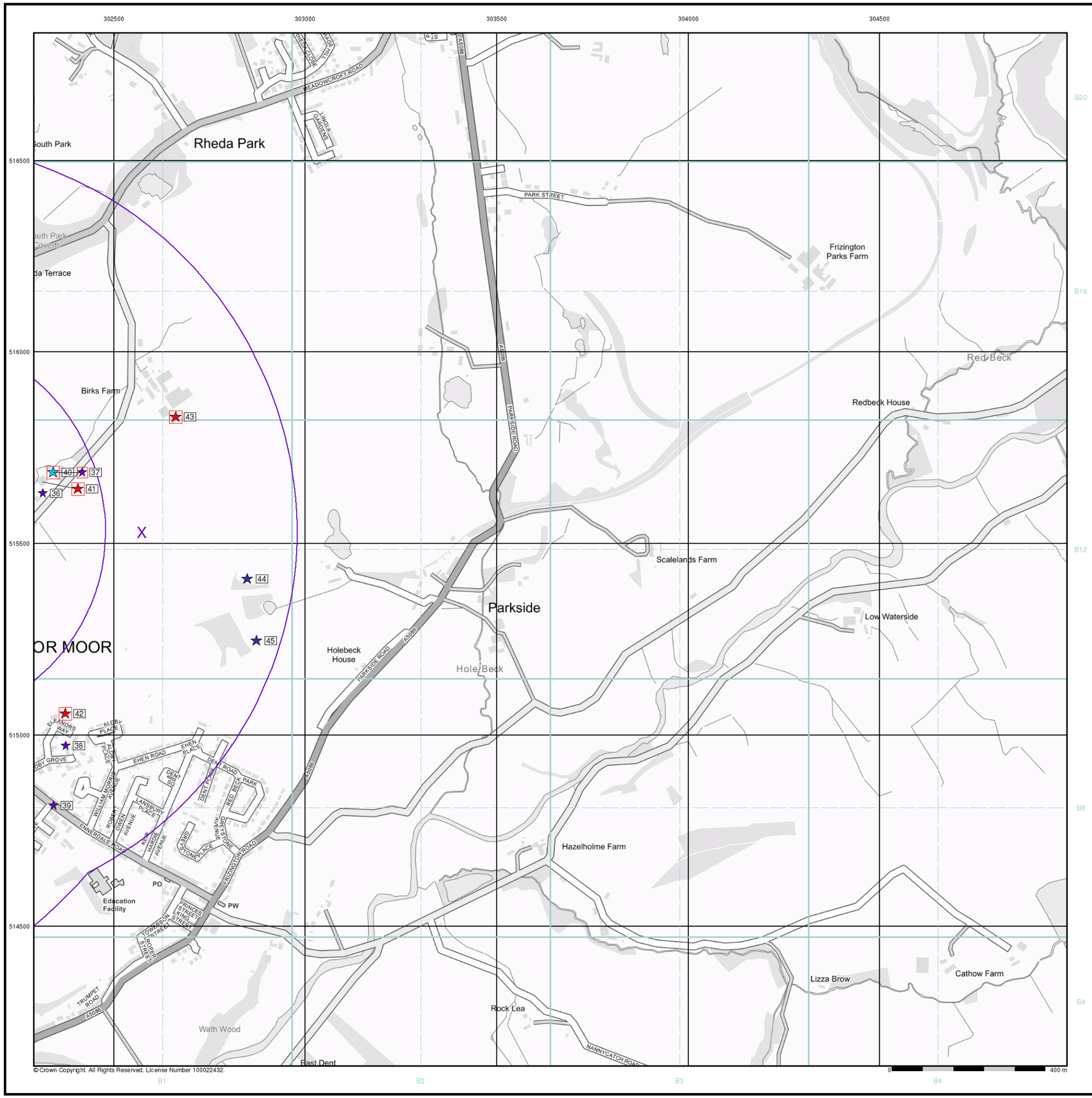
Order Details

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



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Industrial Land Use Map

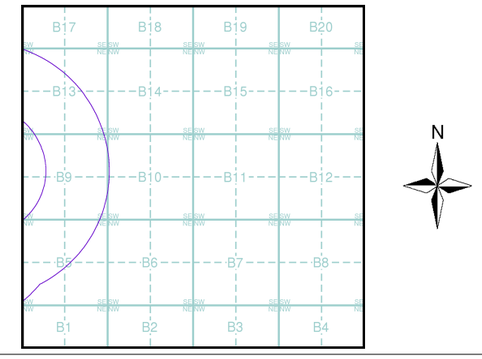
General

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

Order Number:	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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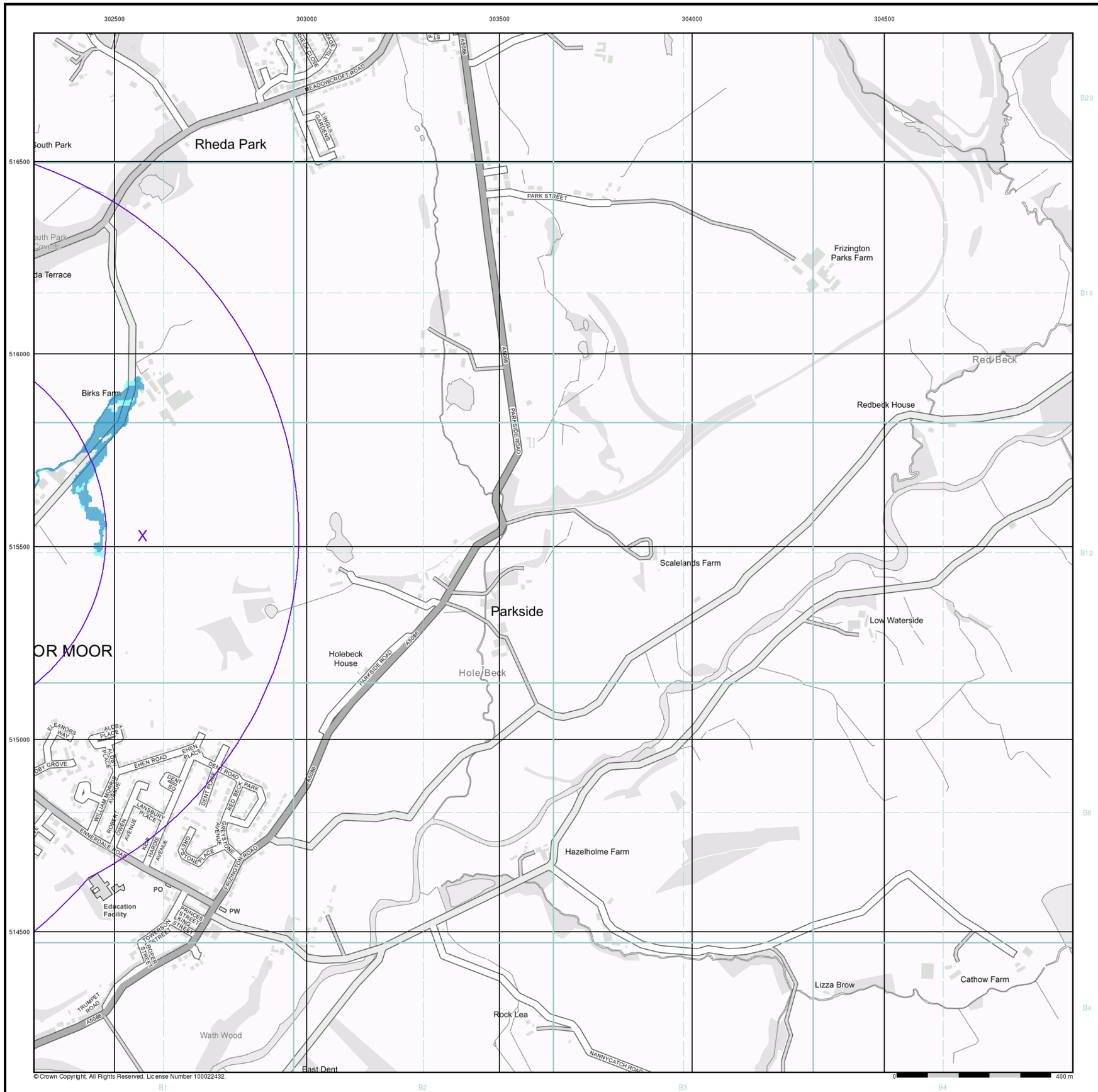


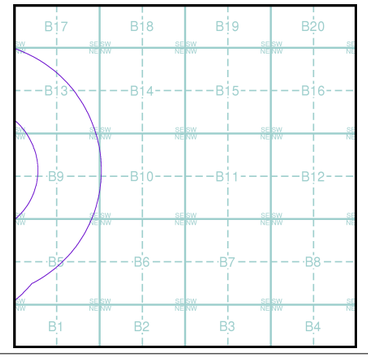
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice B



Order Details

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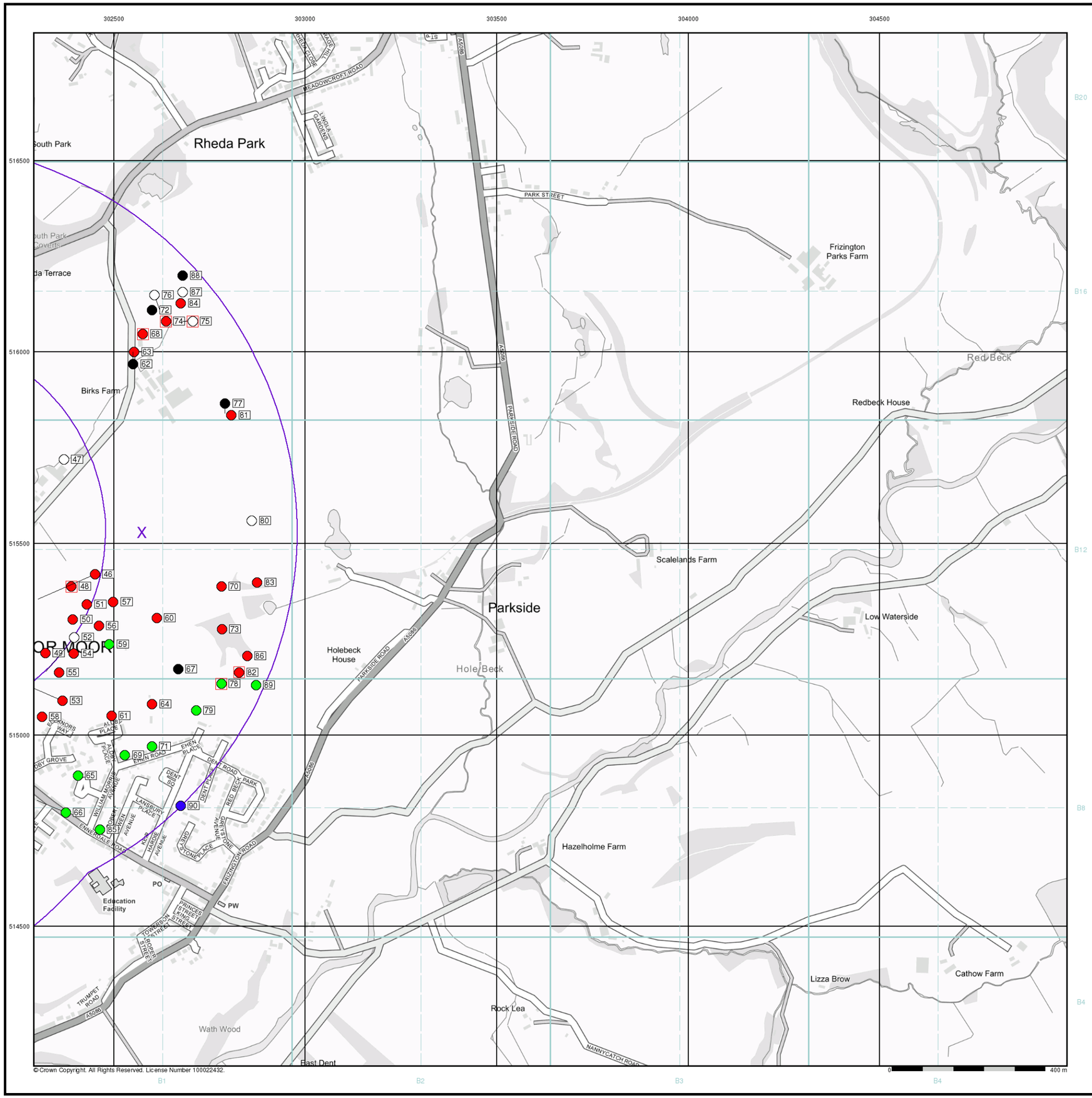

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General

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

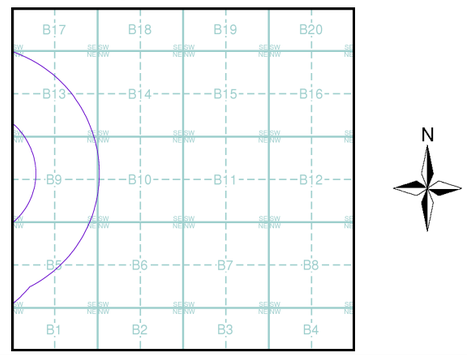
Agency and Hydrological (Boreholes)

- 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 B



Order Details

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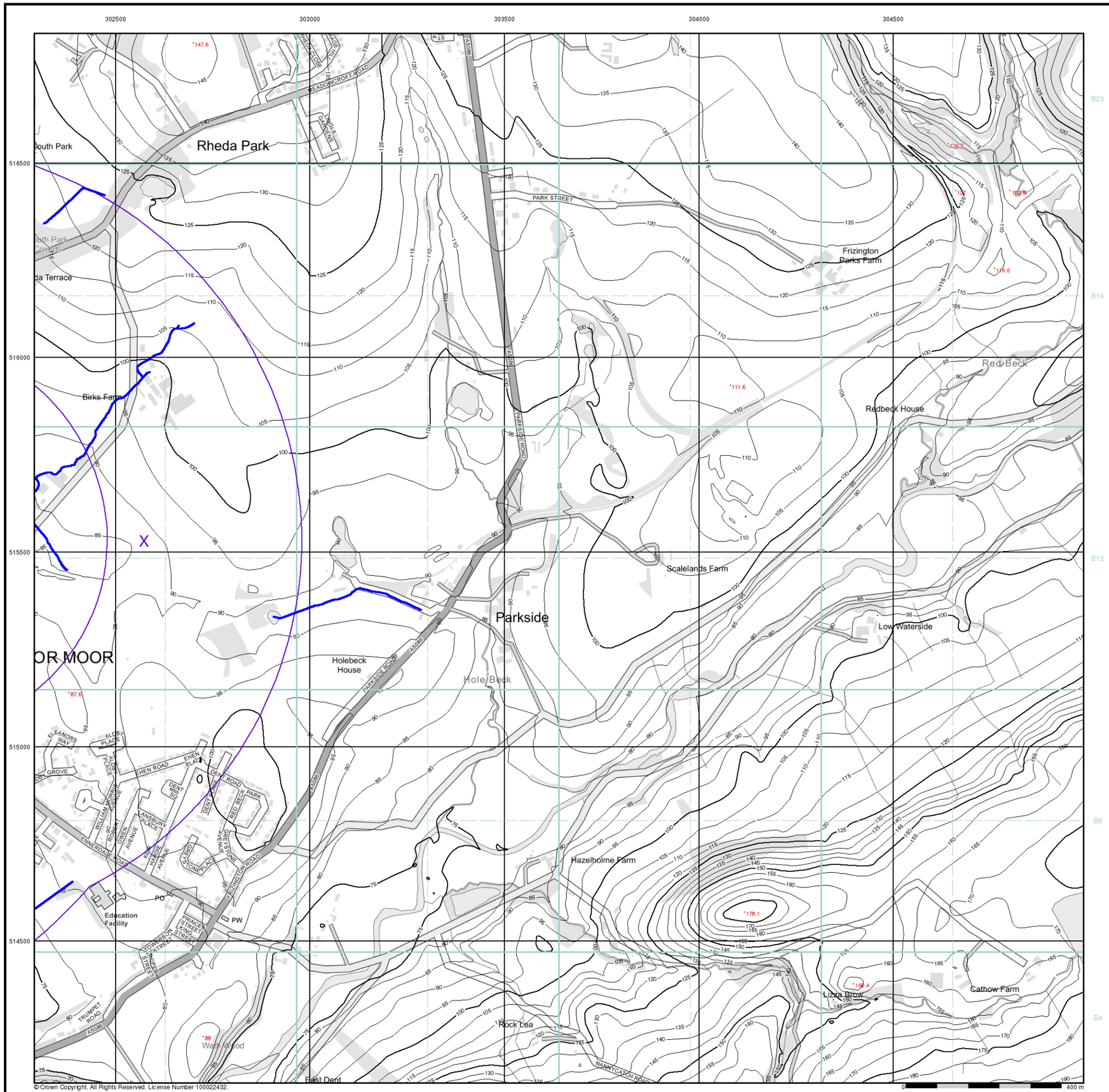

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General

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

OS Water Network Data

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

Contours (height in meters)

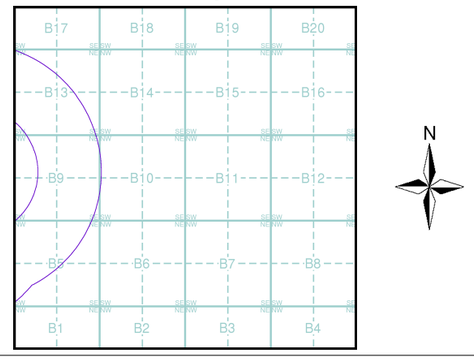
Standard Contour 105

Master Contour 100 95

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice B



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National Grid Reference:	302570, 515530
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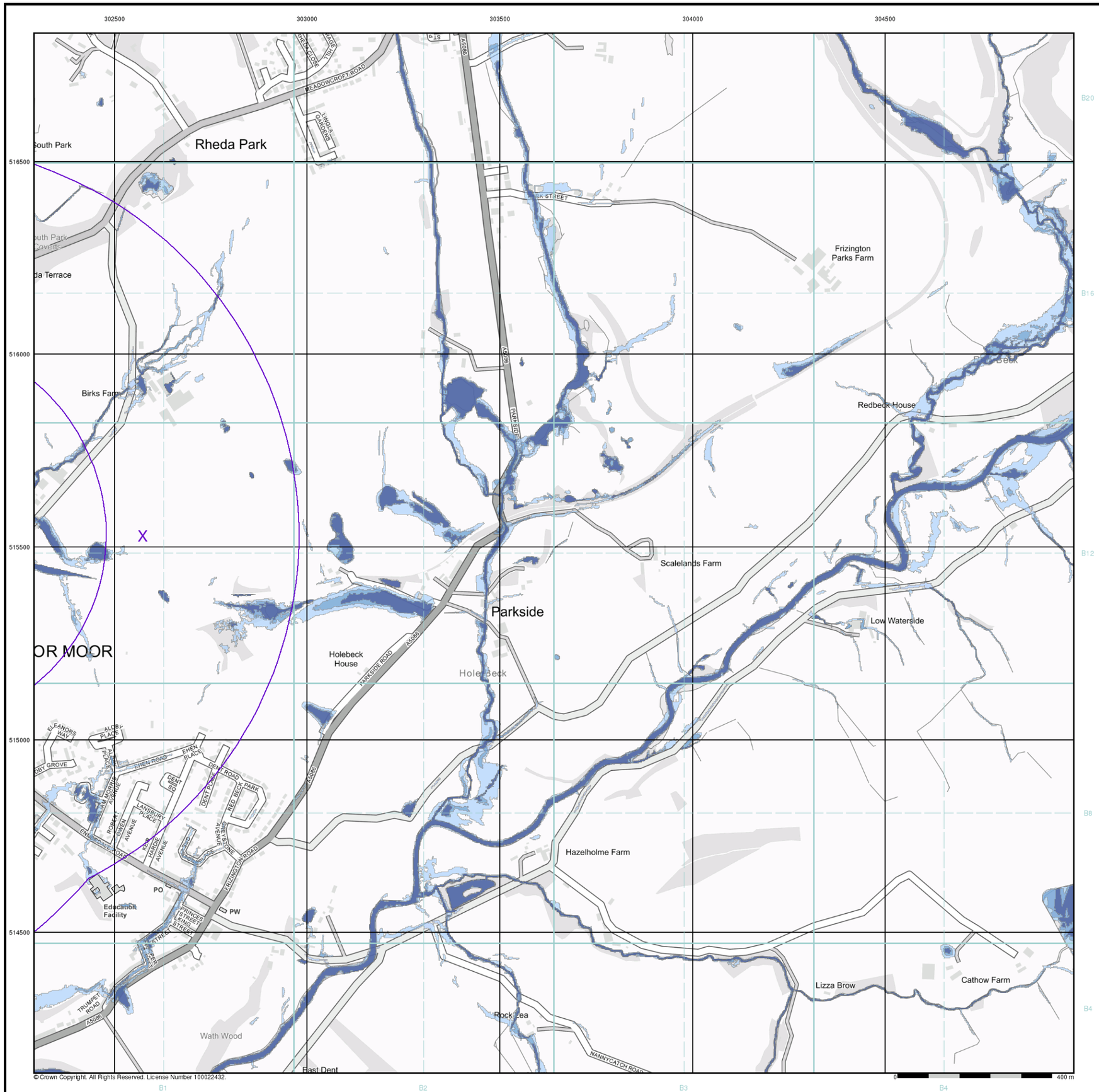

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General

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

Risk of Flooding from Surface Water

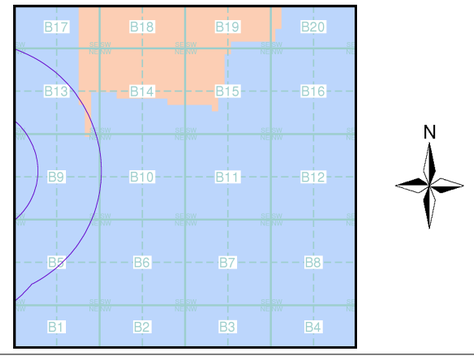
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice B



Order Details

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Slice:	B
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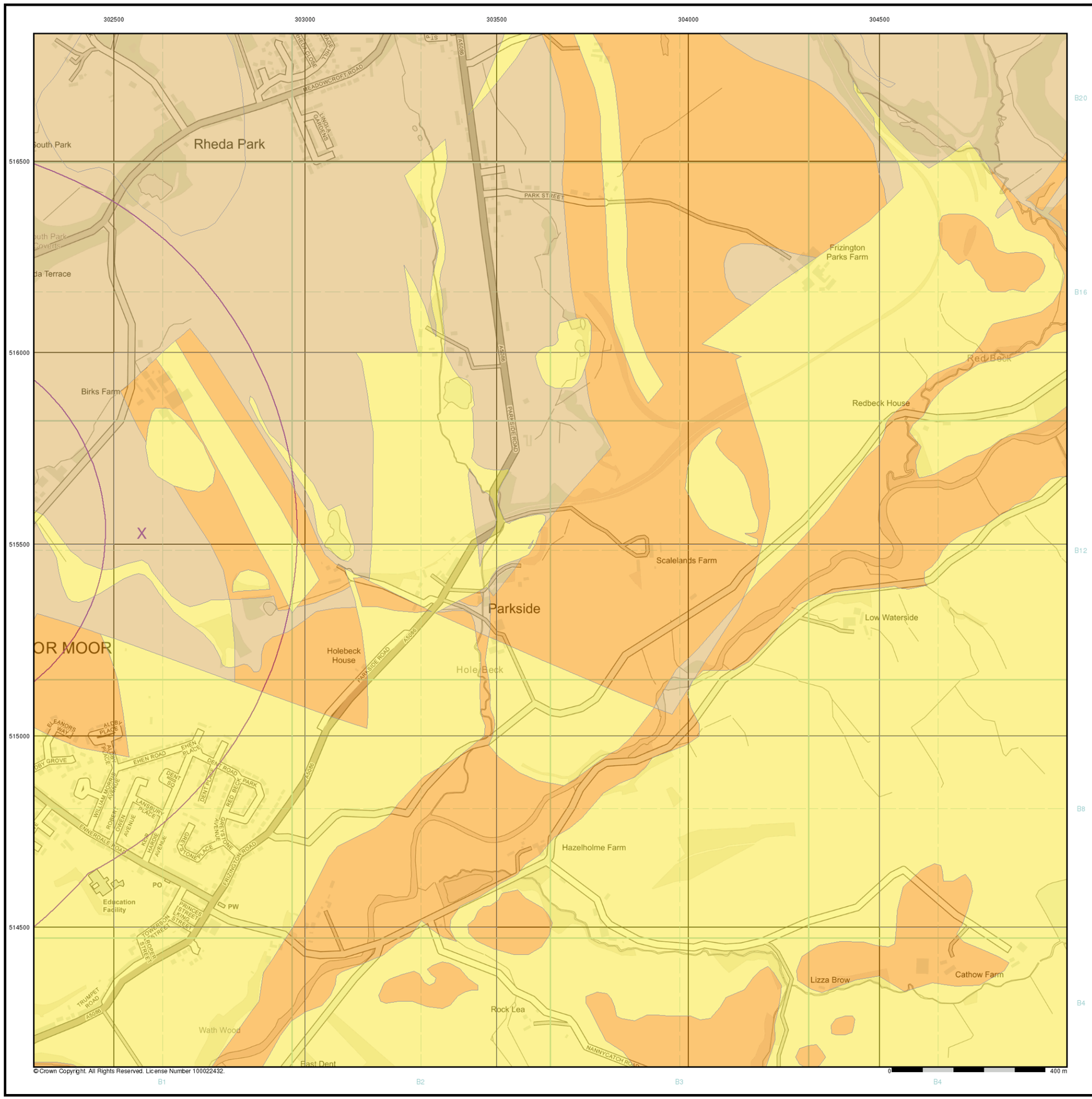

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General

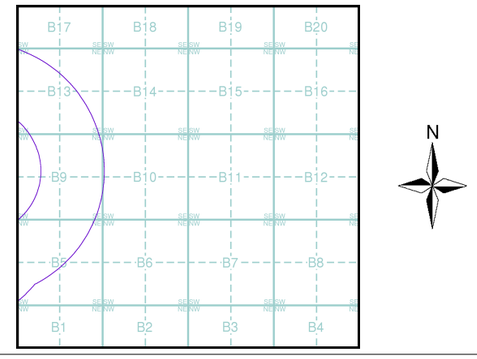
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice B



Order Details

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Slice:	B
Site Area (Ha):	15.46
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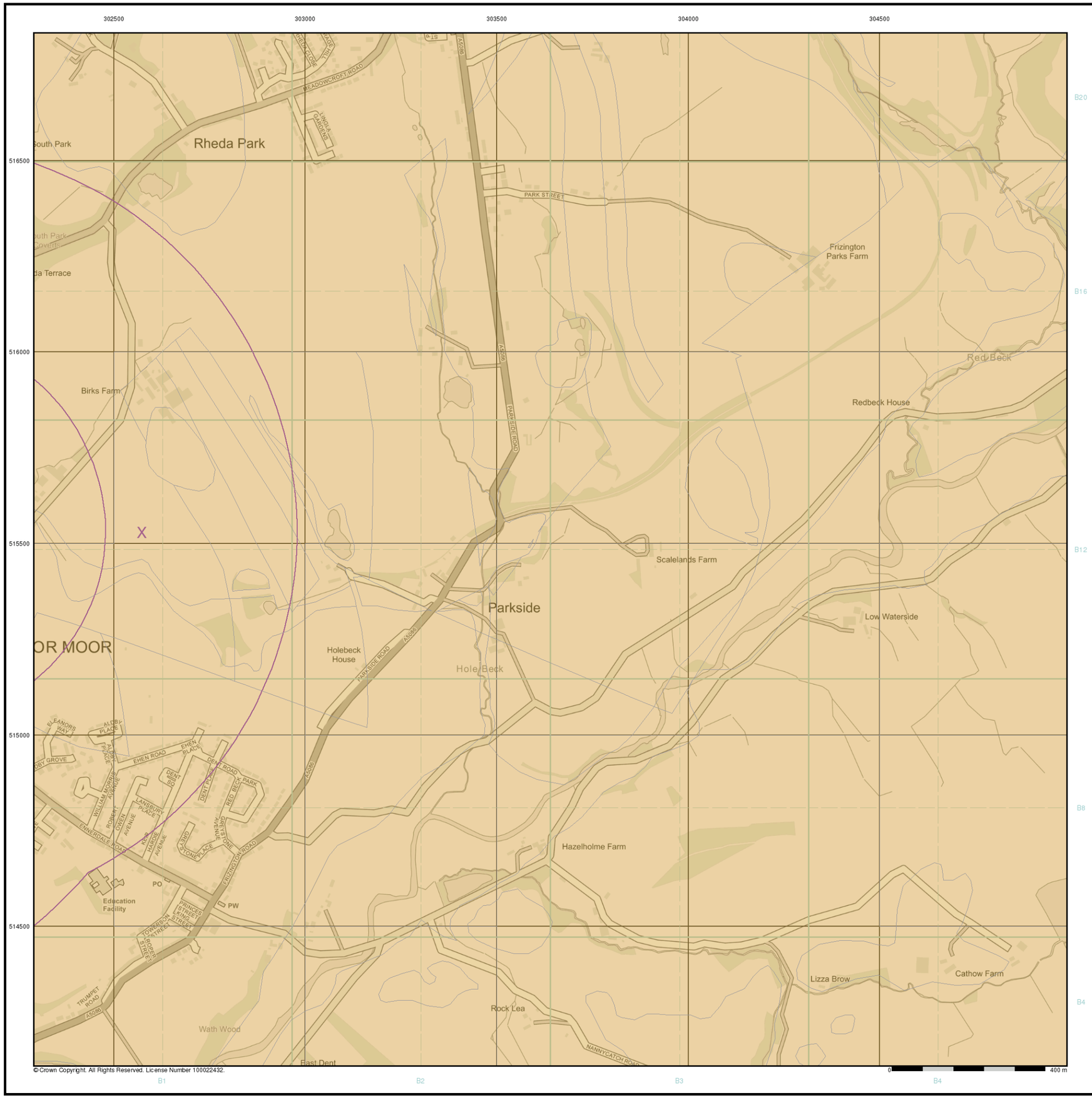

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General

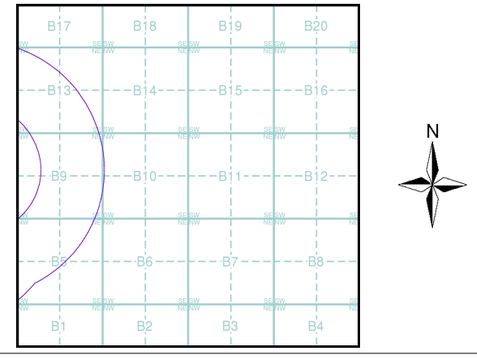
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

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

Estimated Soil Chemistry Cadmium - Slice B



Order Details

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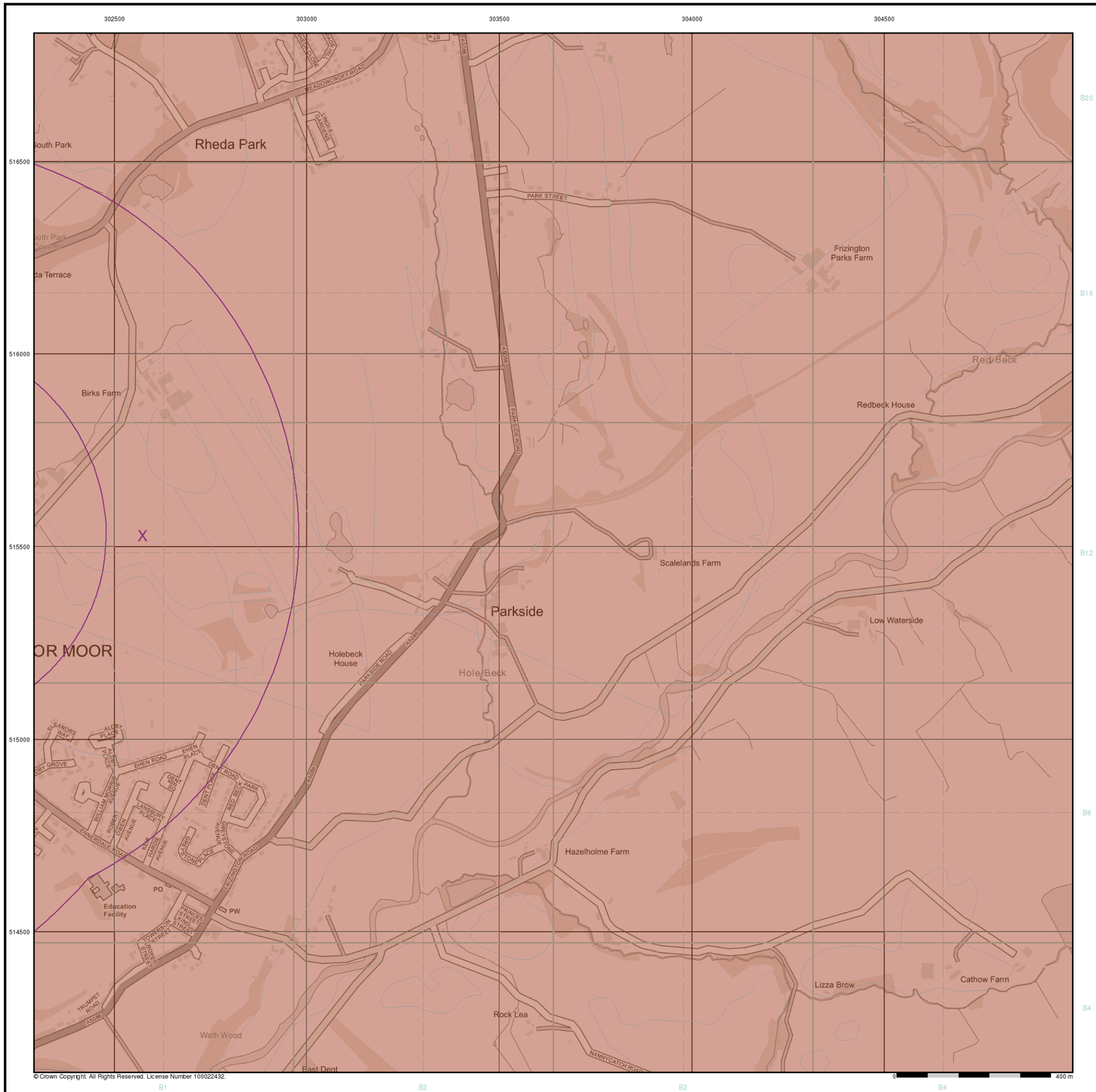


General

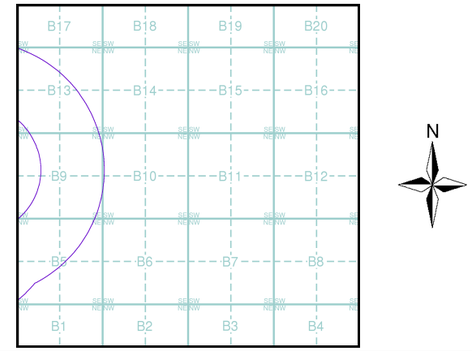
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

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

Estimated Soil Chemistry Chromium - Slice 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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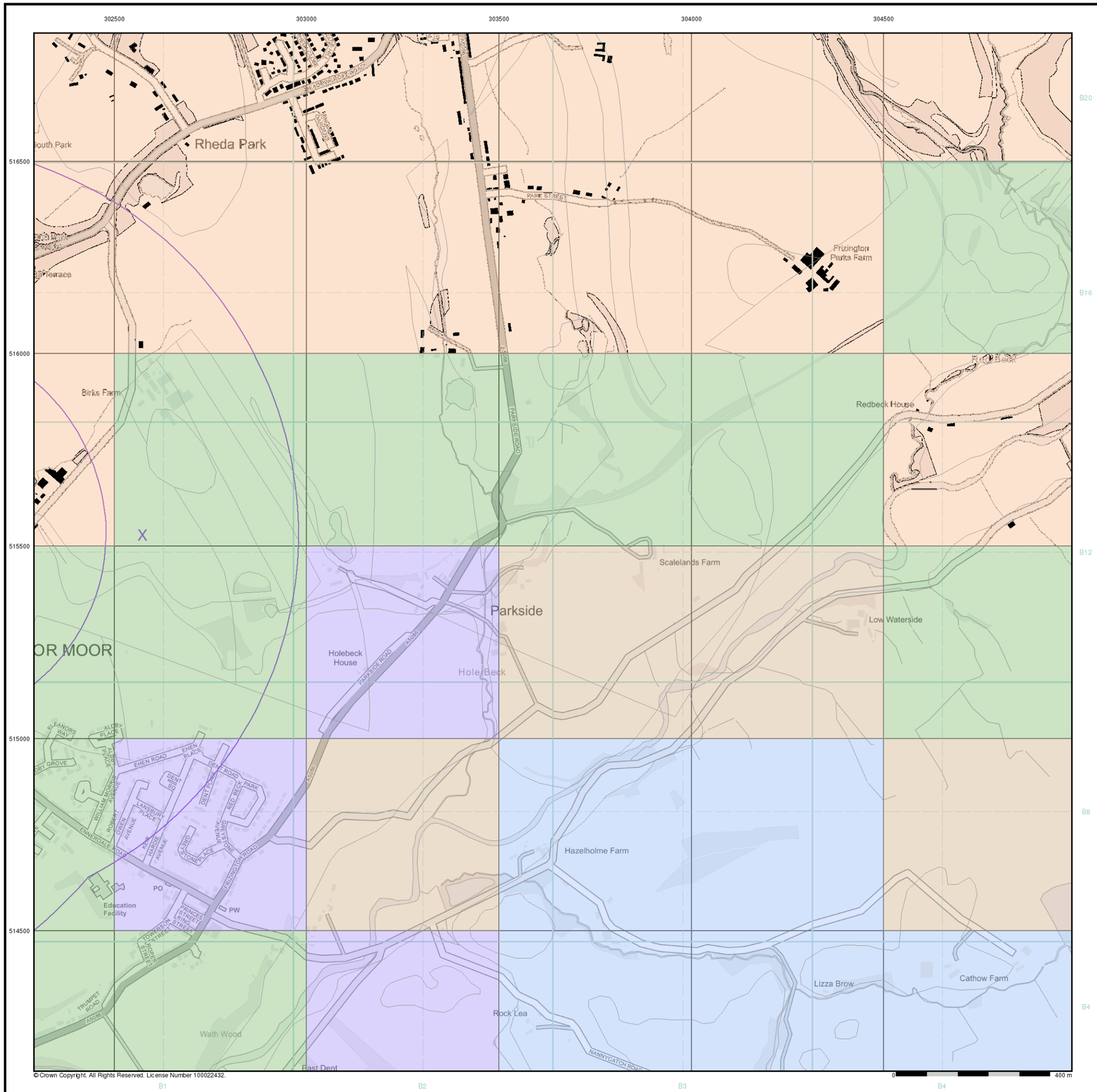

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General

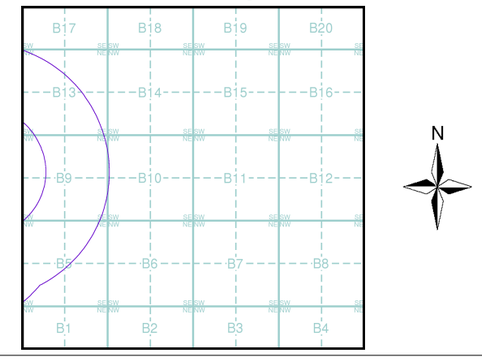
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice B



Order Details

Order Details:	224379683_1_1
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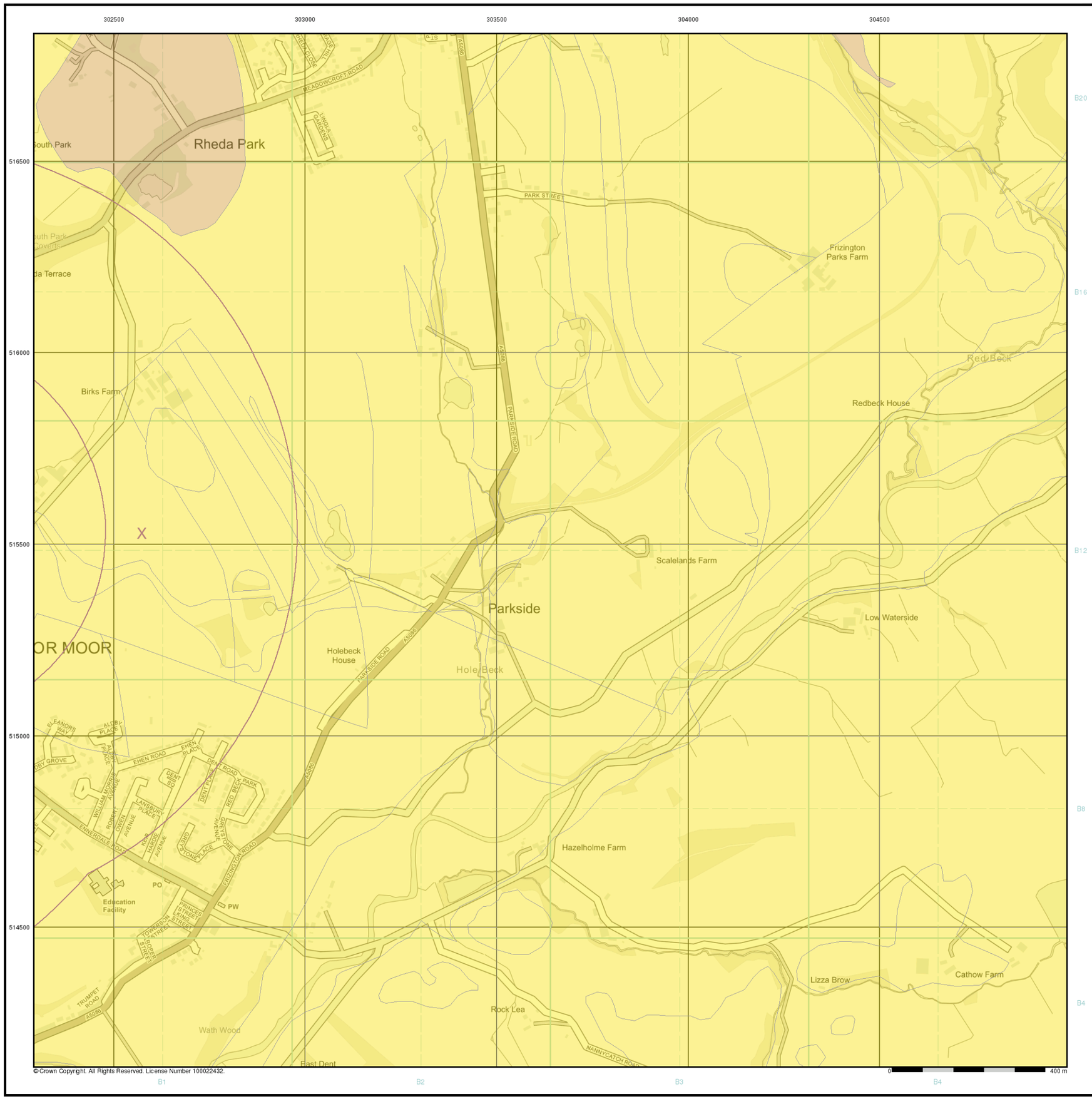

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General

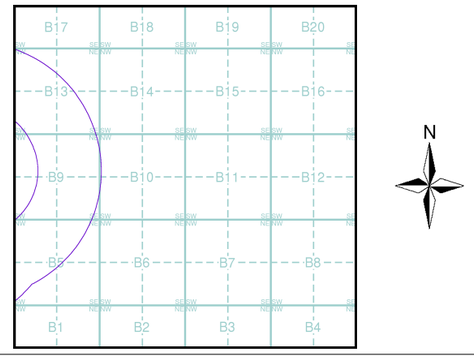
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

Estimated Soil Chemistry Nickel - Slice B



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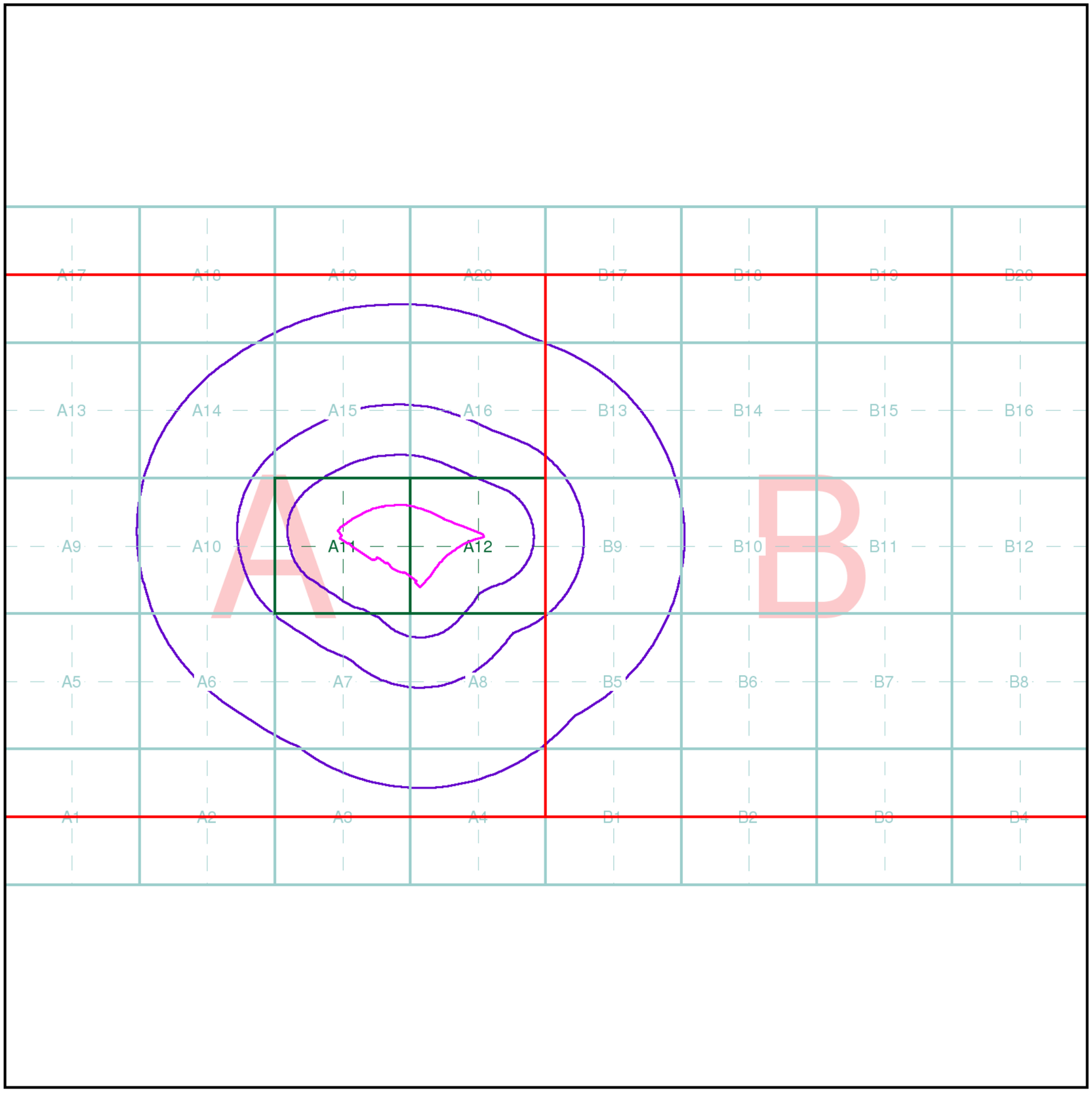

Index Map

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:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

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

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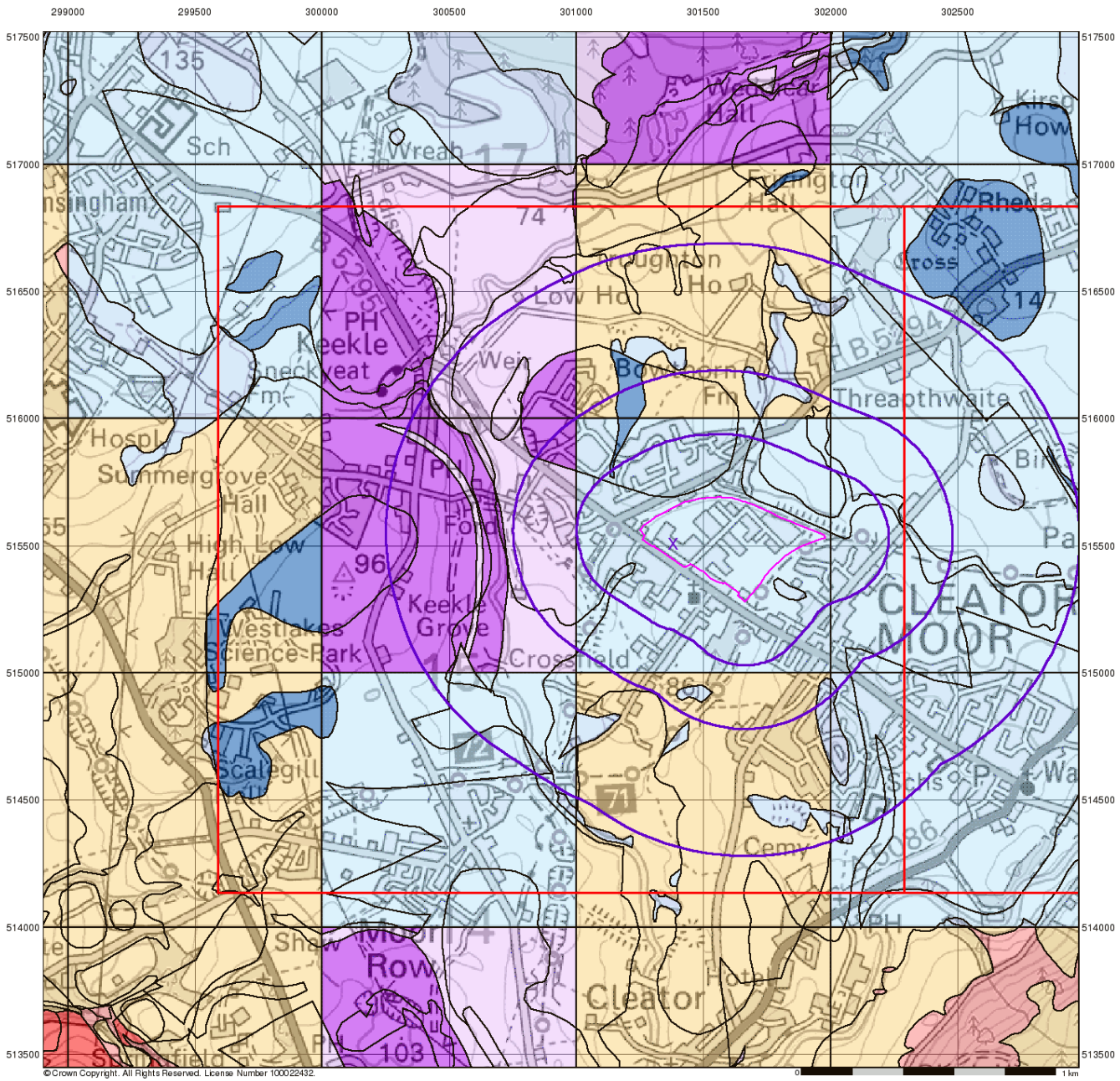


Groundwater Vulnerability

General

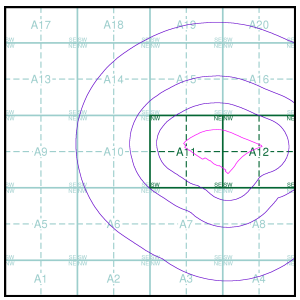
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer
Soluble Rock

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

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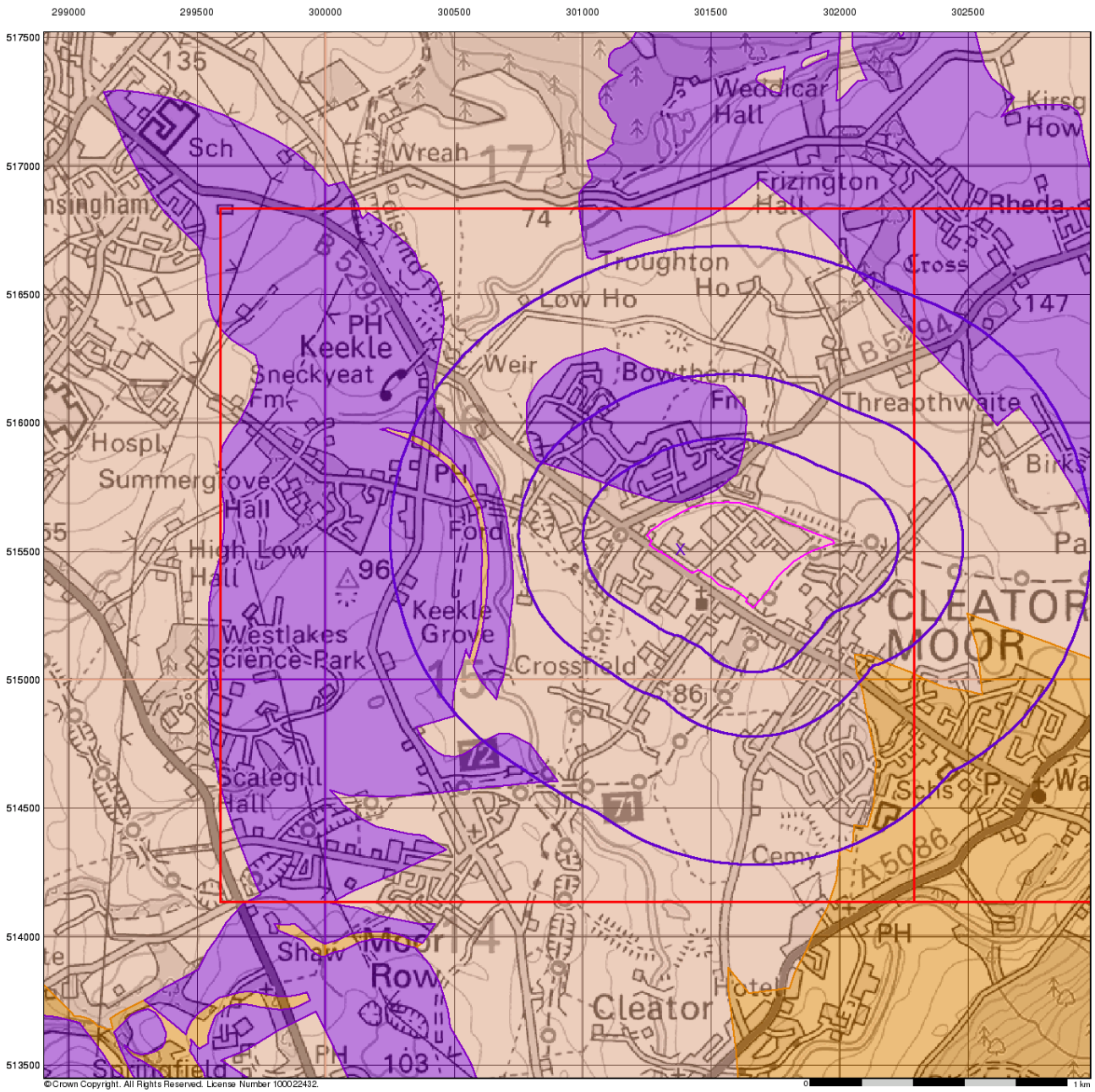


Bedrock Aquifer Designation

General

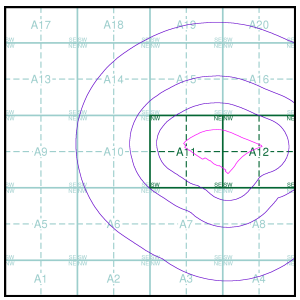
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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



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Slice:	A
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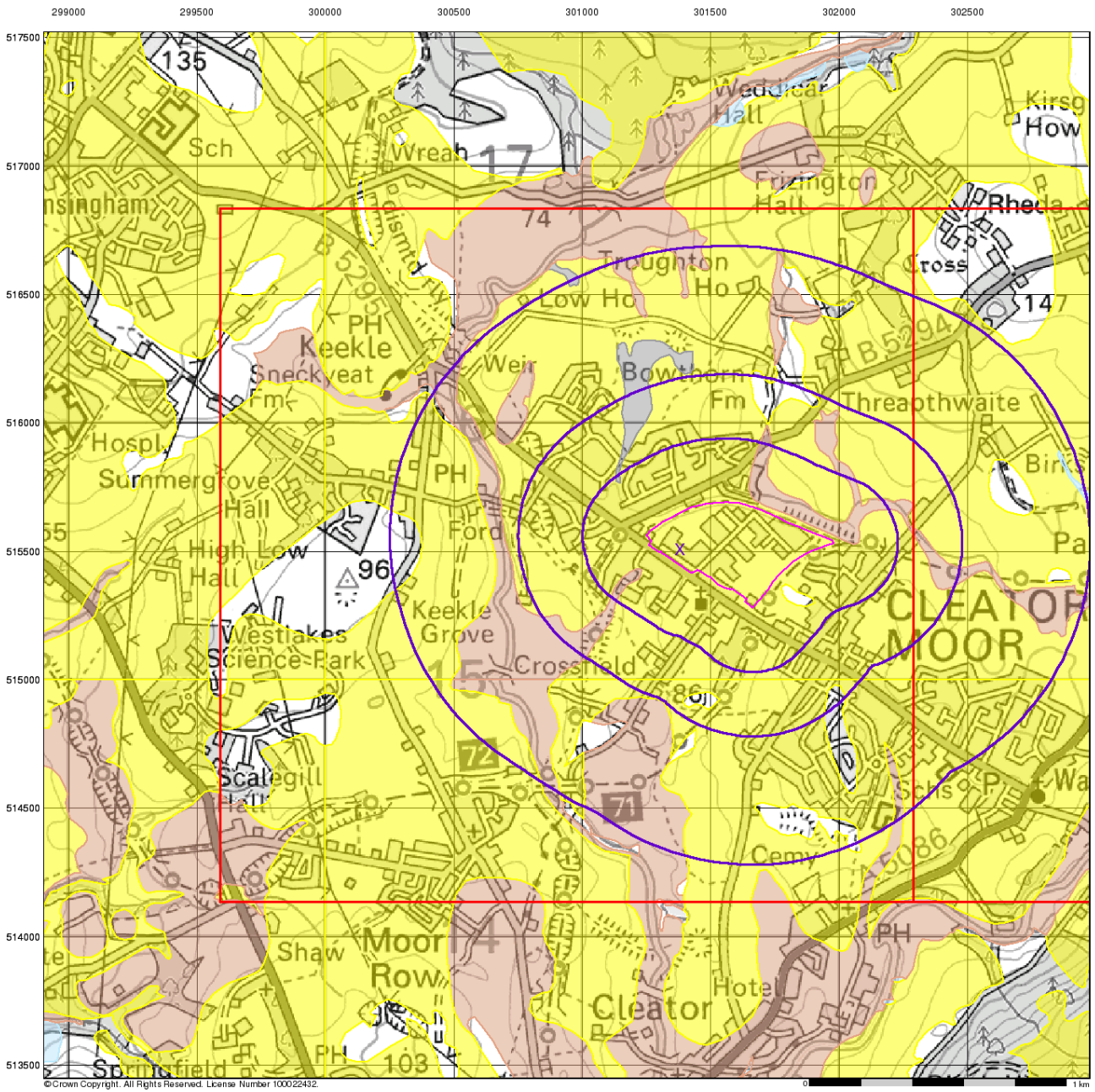


Superficial Aquifer Designation

General

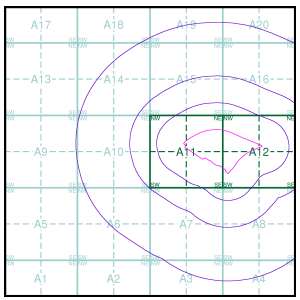
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

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 A



Order Details

Order Number:	224379683_1_1
Customer Ref:	A114312
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Search Buffer (m):	1000

Site Details

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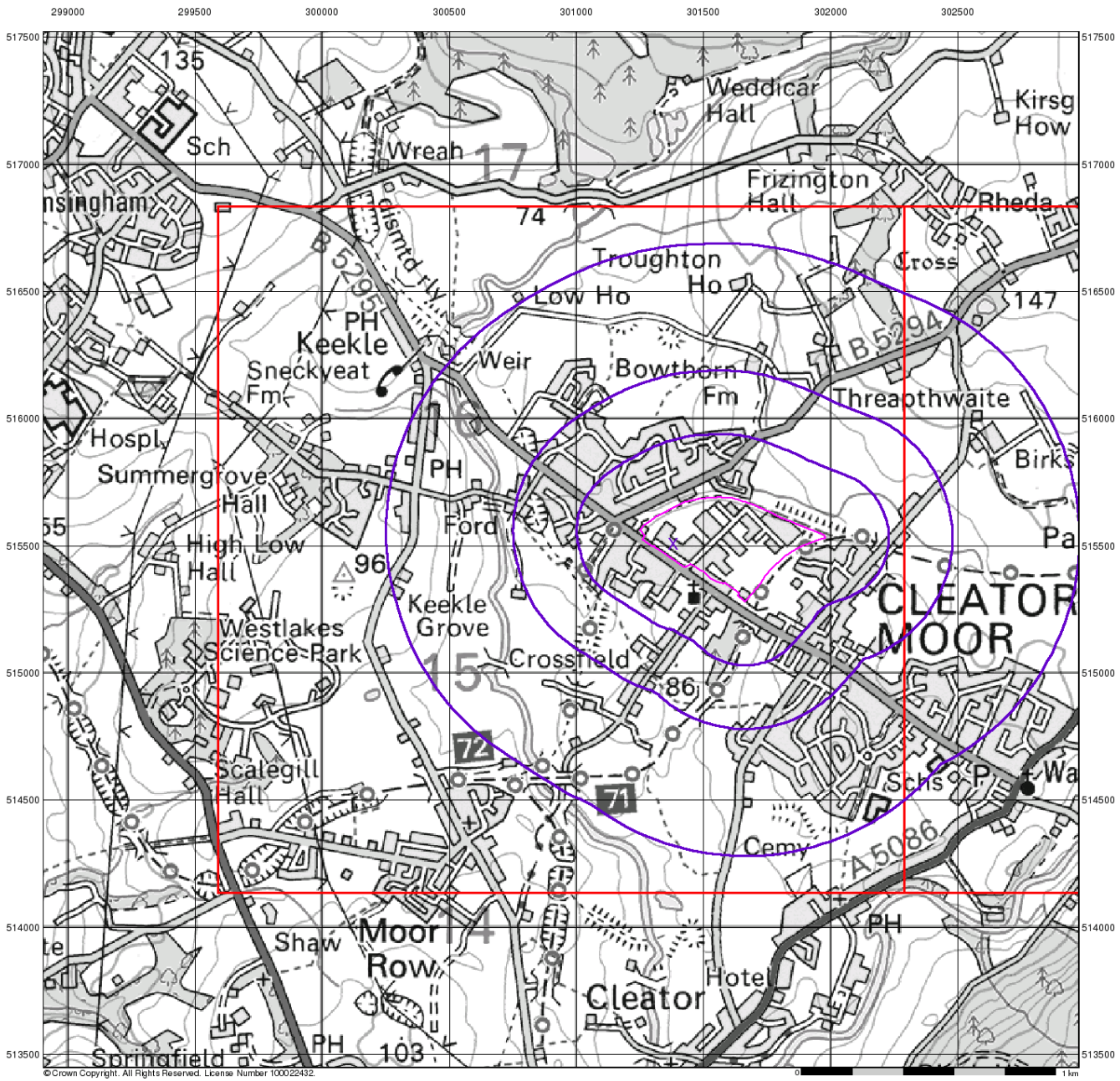


Source Protection Zones

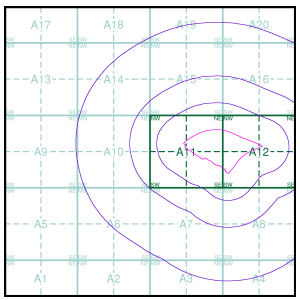
General

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 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

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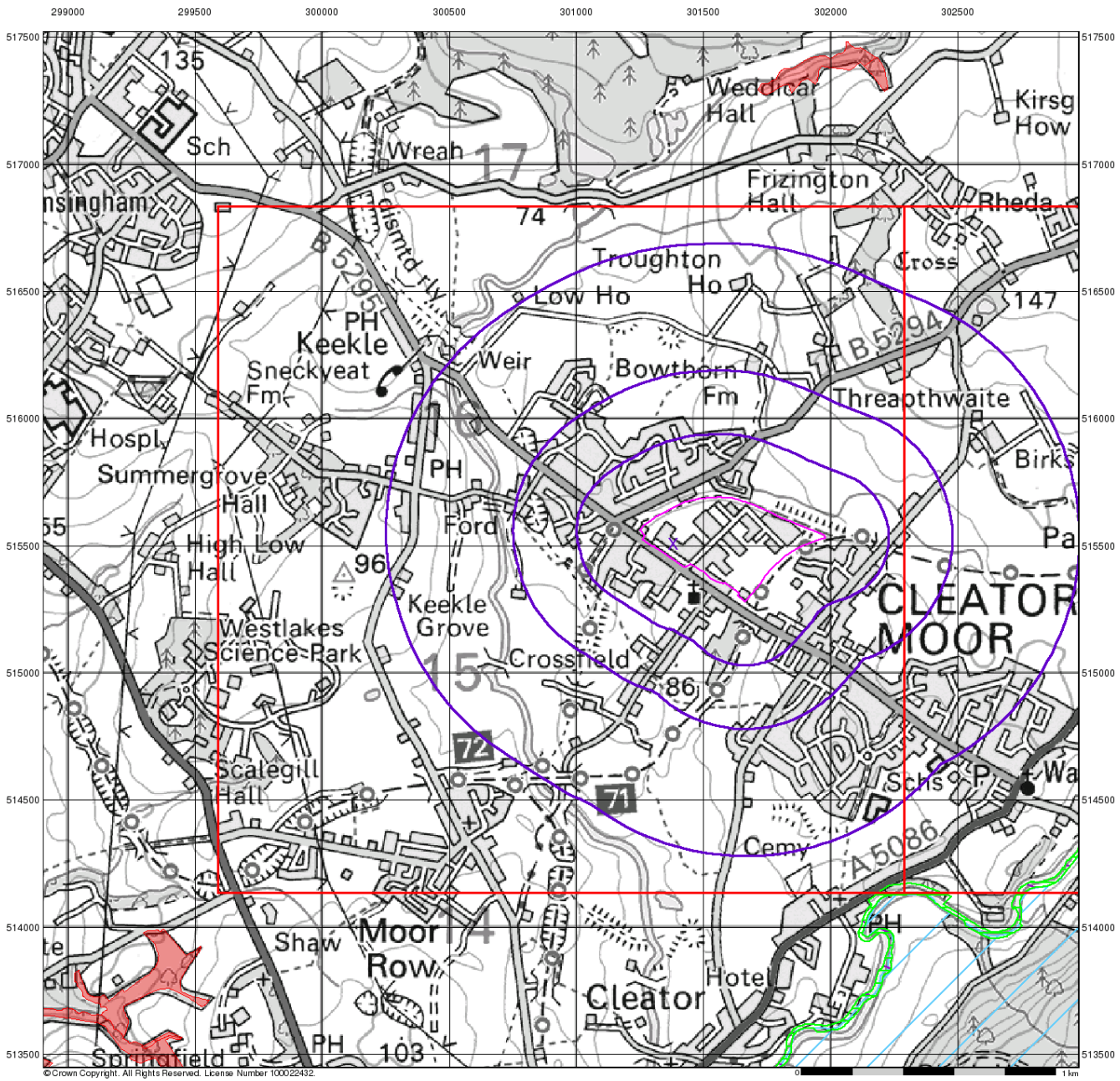


Sensitive Land Uses

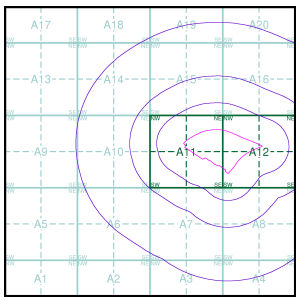
General

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



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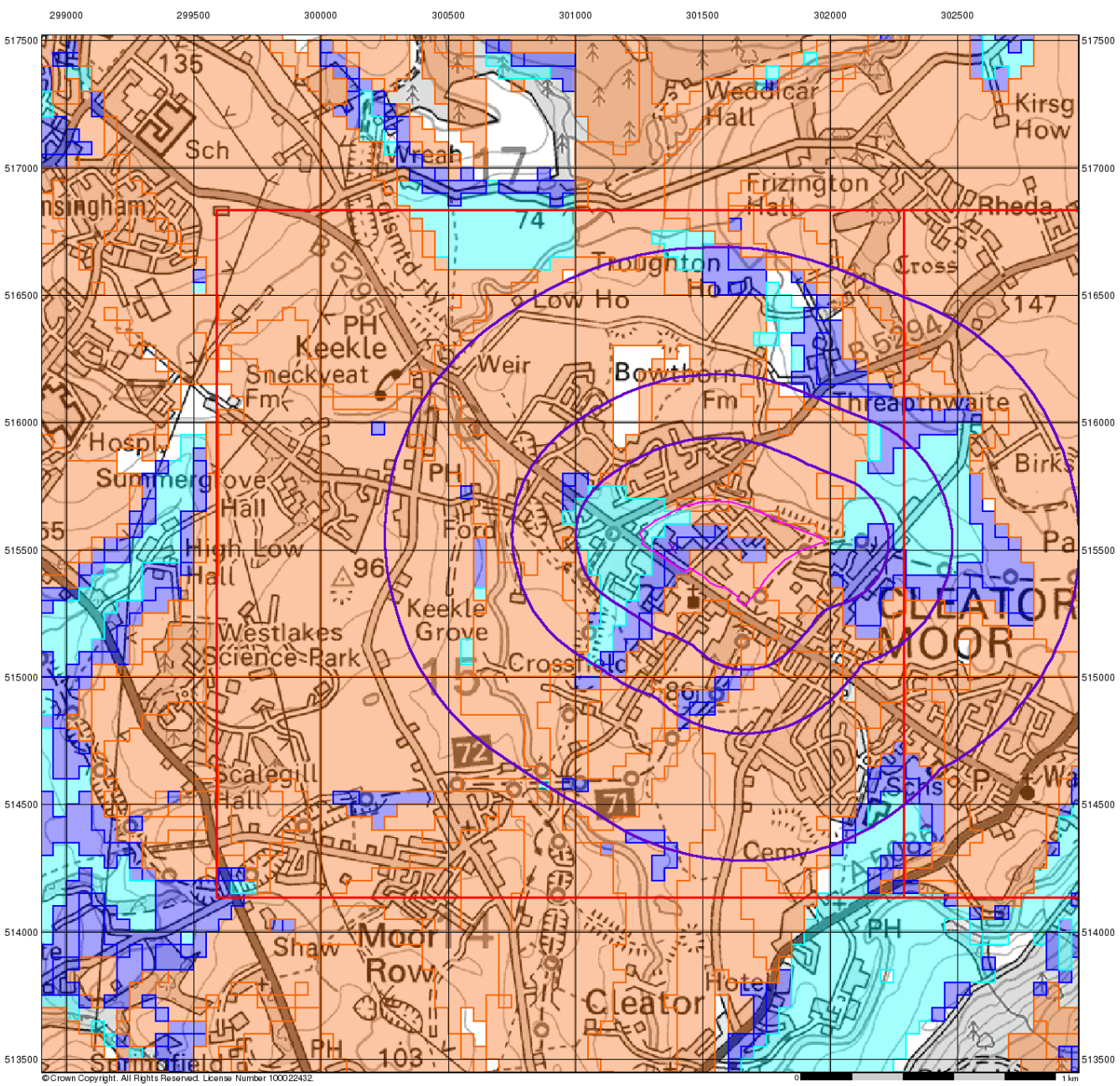


BGS Flood GFS Data

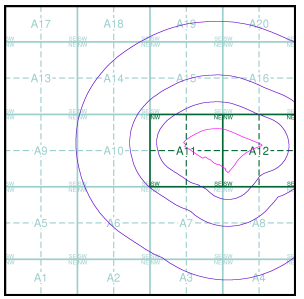
General

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



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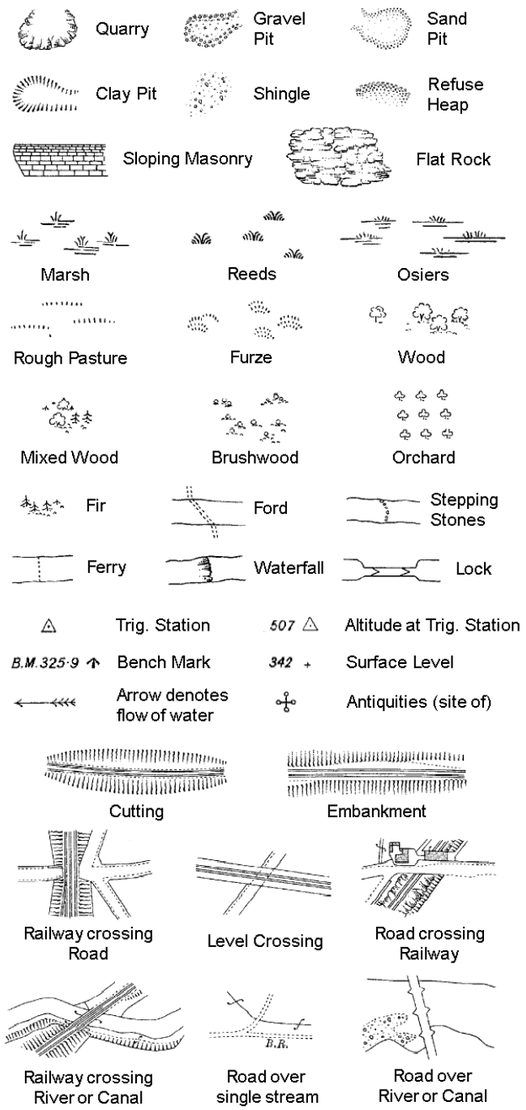
Appendix C – Historical Maps

Historical Mapping Legends

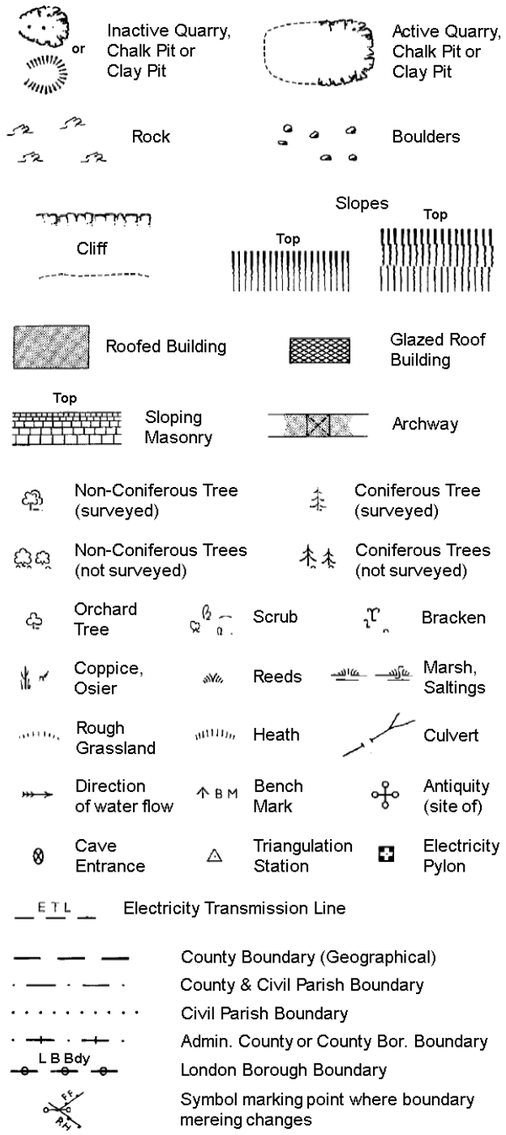
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

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

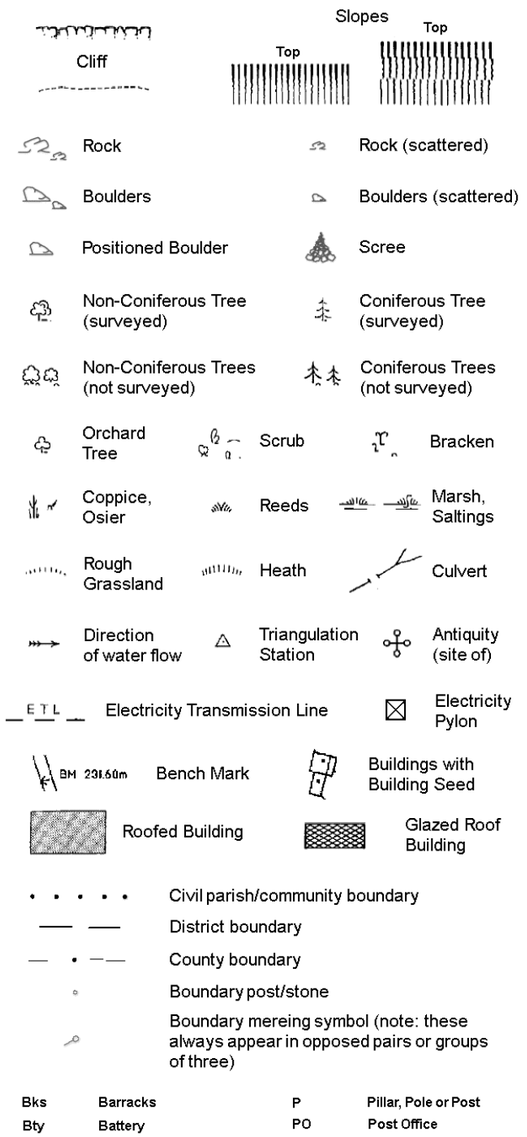
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

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

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



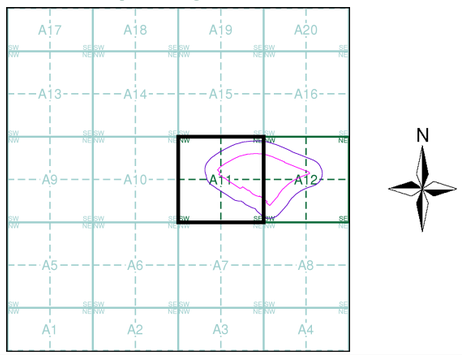
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

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

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



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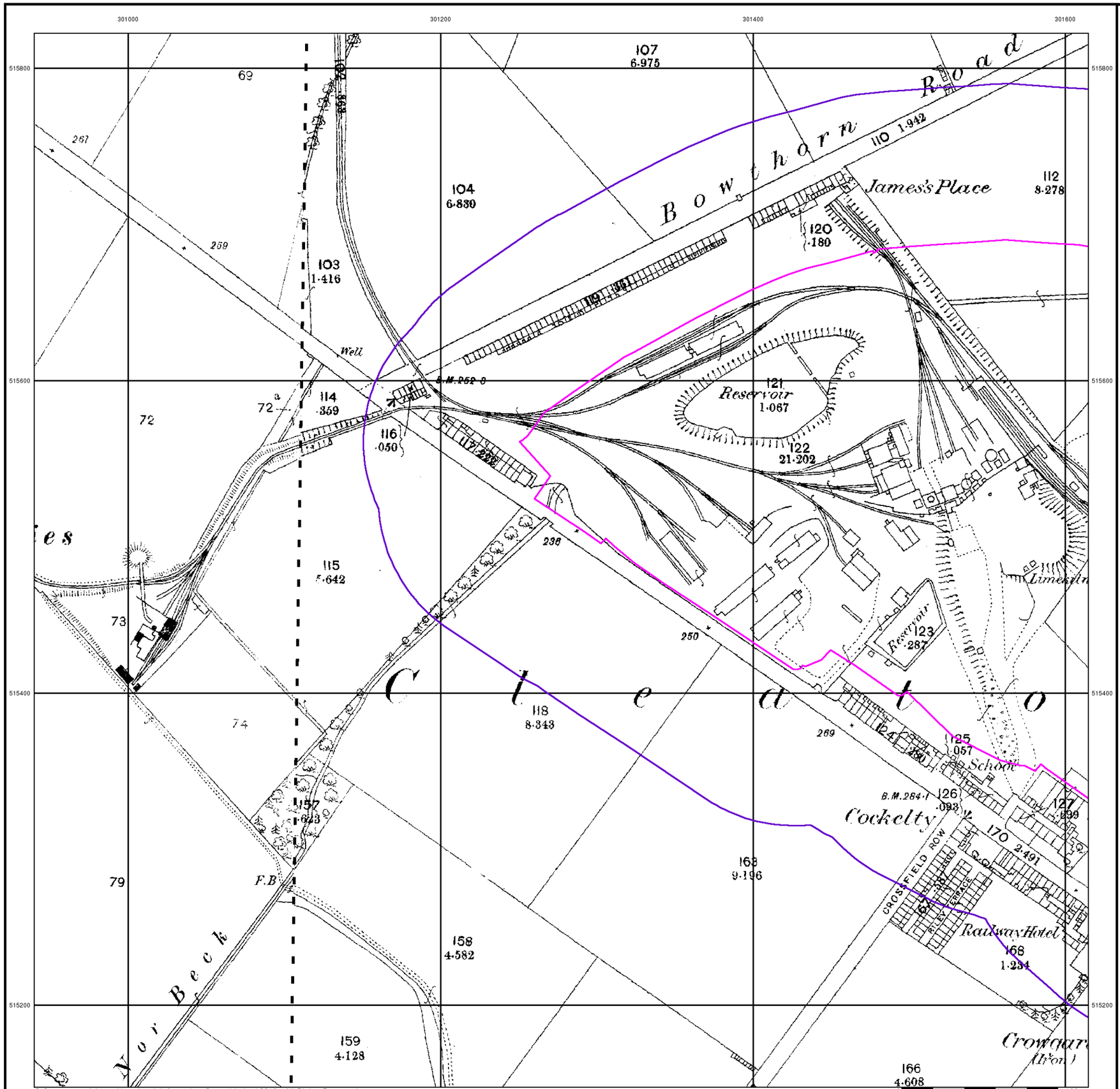

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Cumberland

Published 1863 - 1865

Source map scale - 1:2,500

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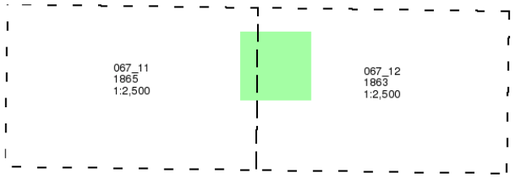
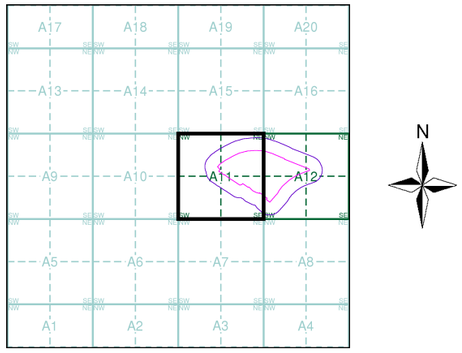
Map Name(s) and Date(s)



Historical Map - Segment A11



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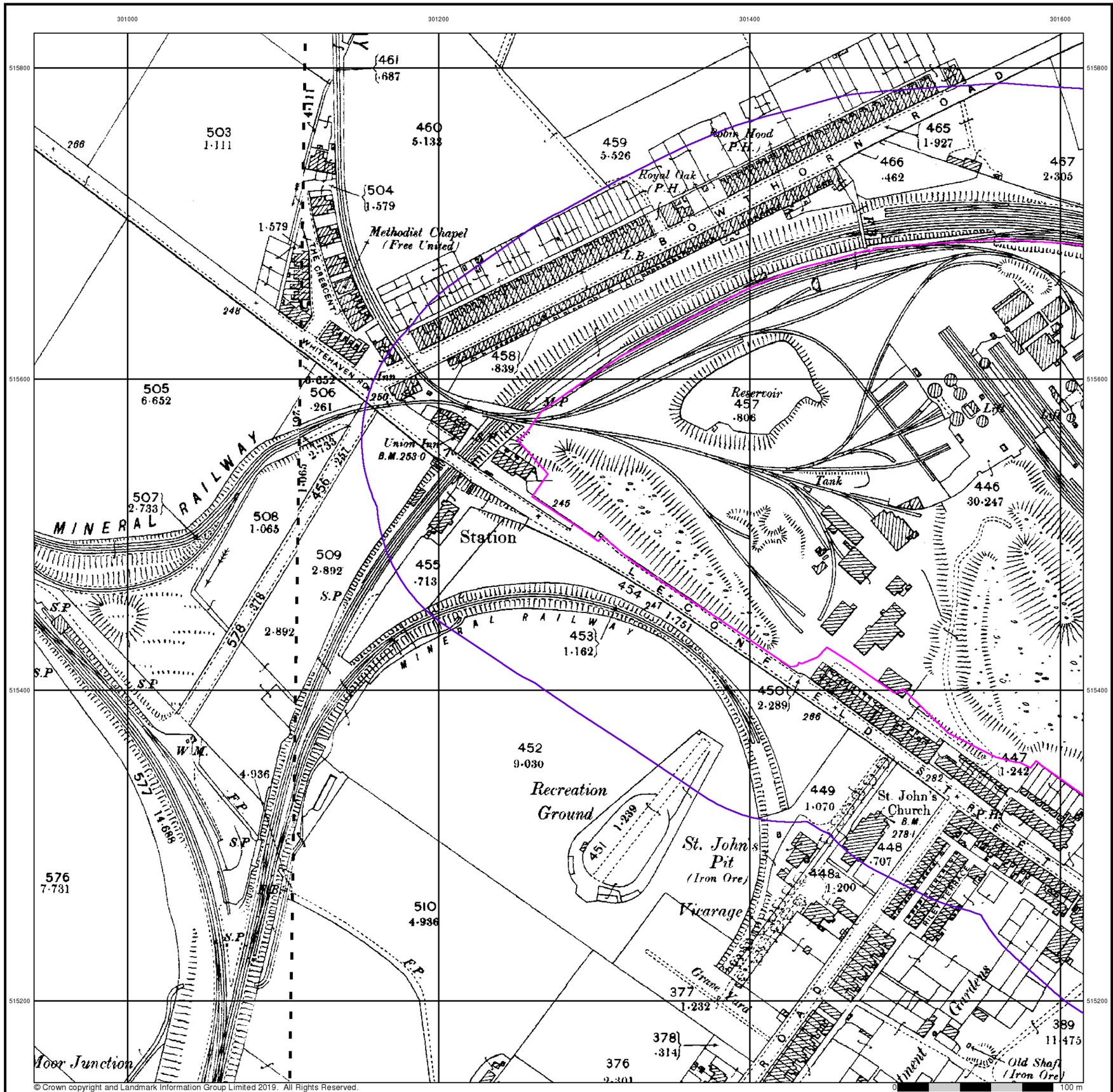

Cumberland

Published 1899

Source map scale - 1:2,500

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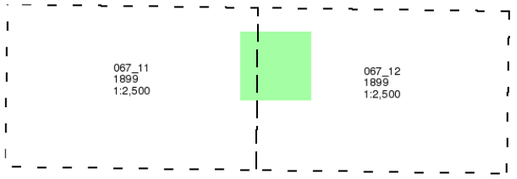
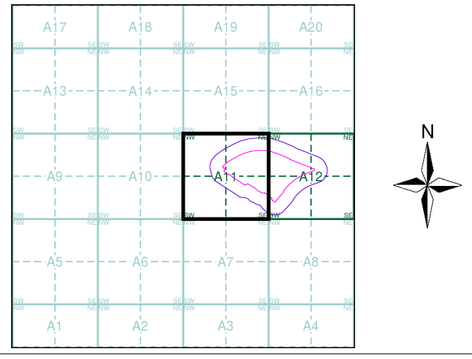


Historical Map - Segment A11



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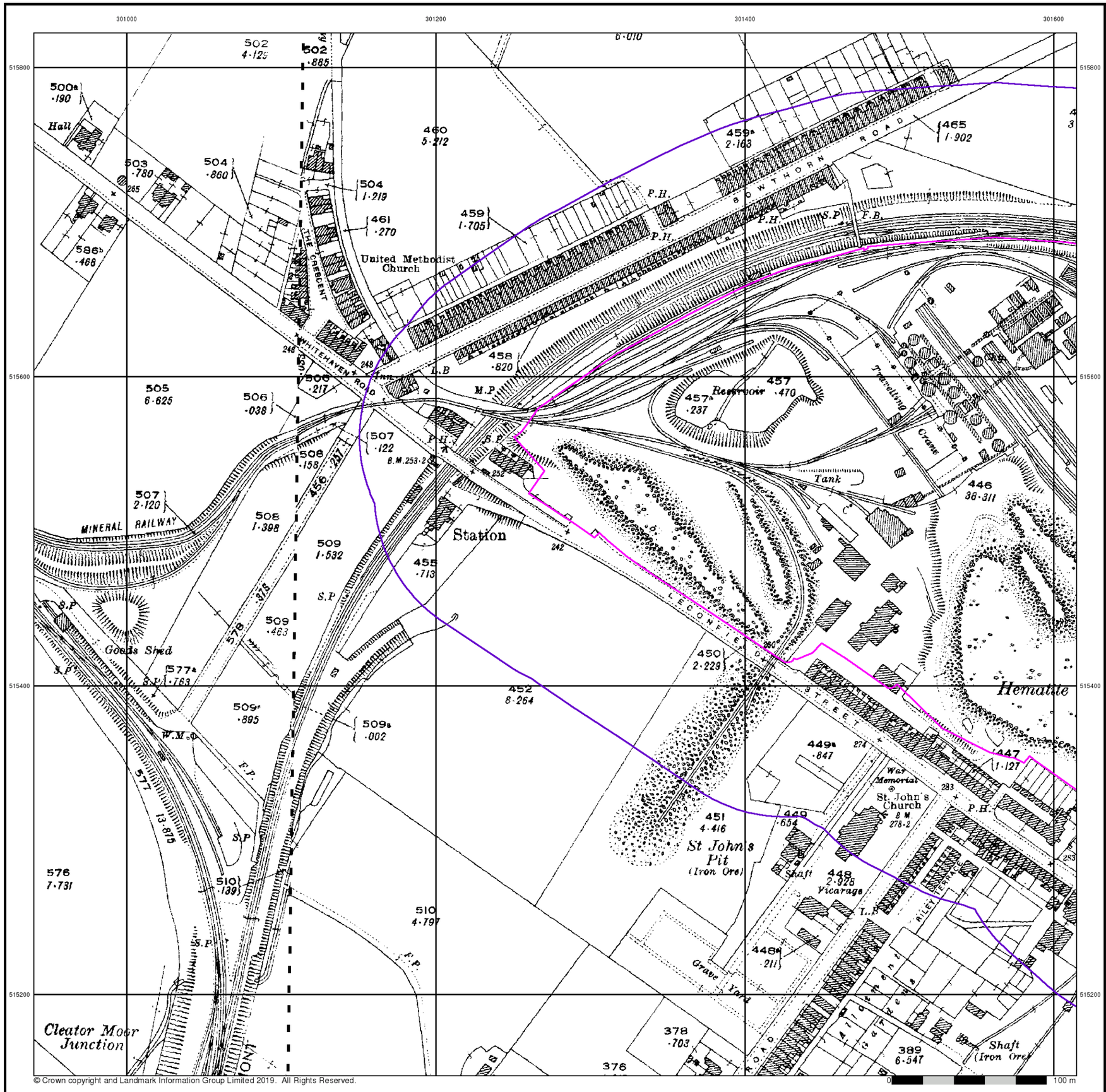

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Cumberland

Published 1925

Source map scale - 1:2,500

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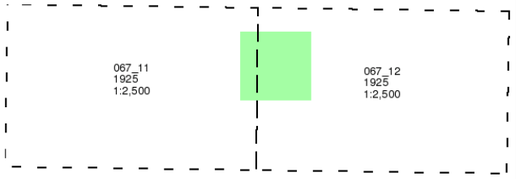

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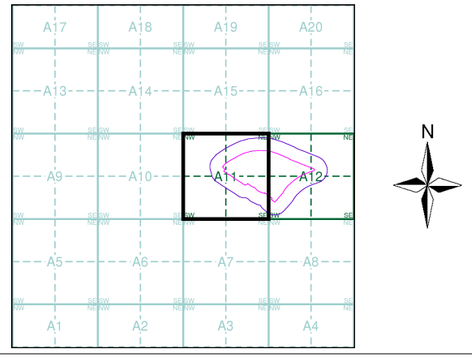

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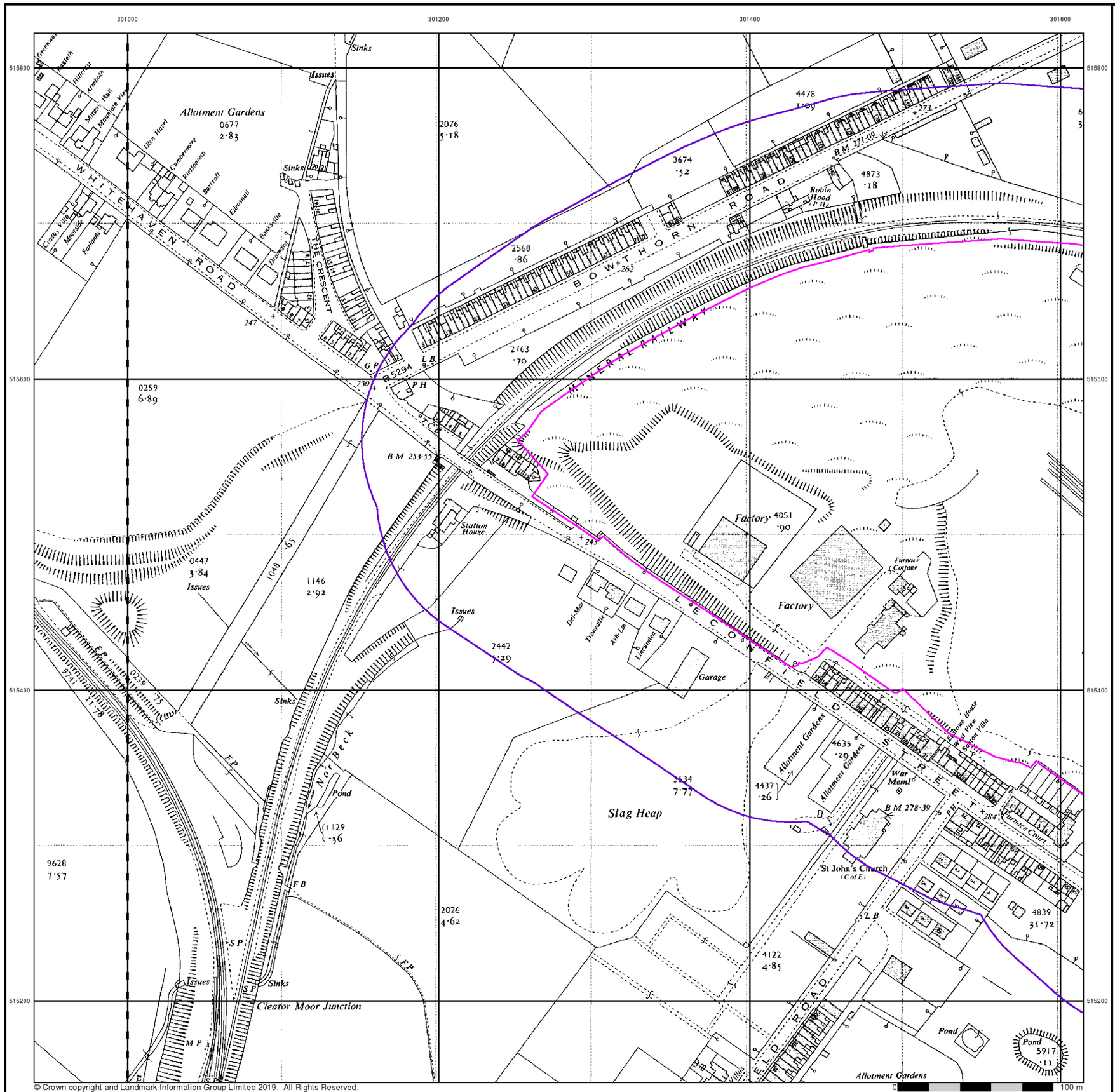

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Ordnance Survey Plan

Published 1962

Source map scale - 1:2,500

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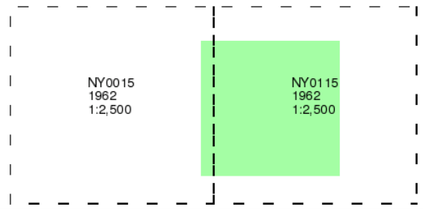
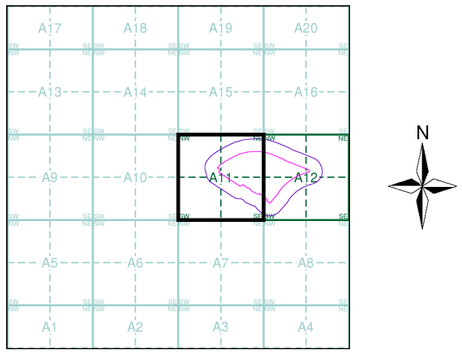


Historical Map - Segment A11



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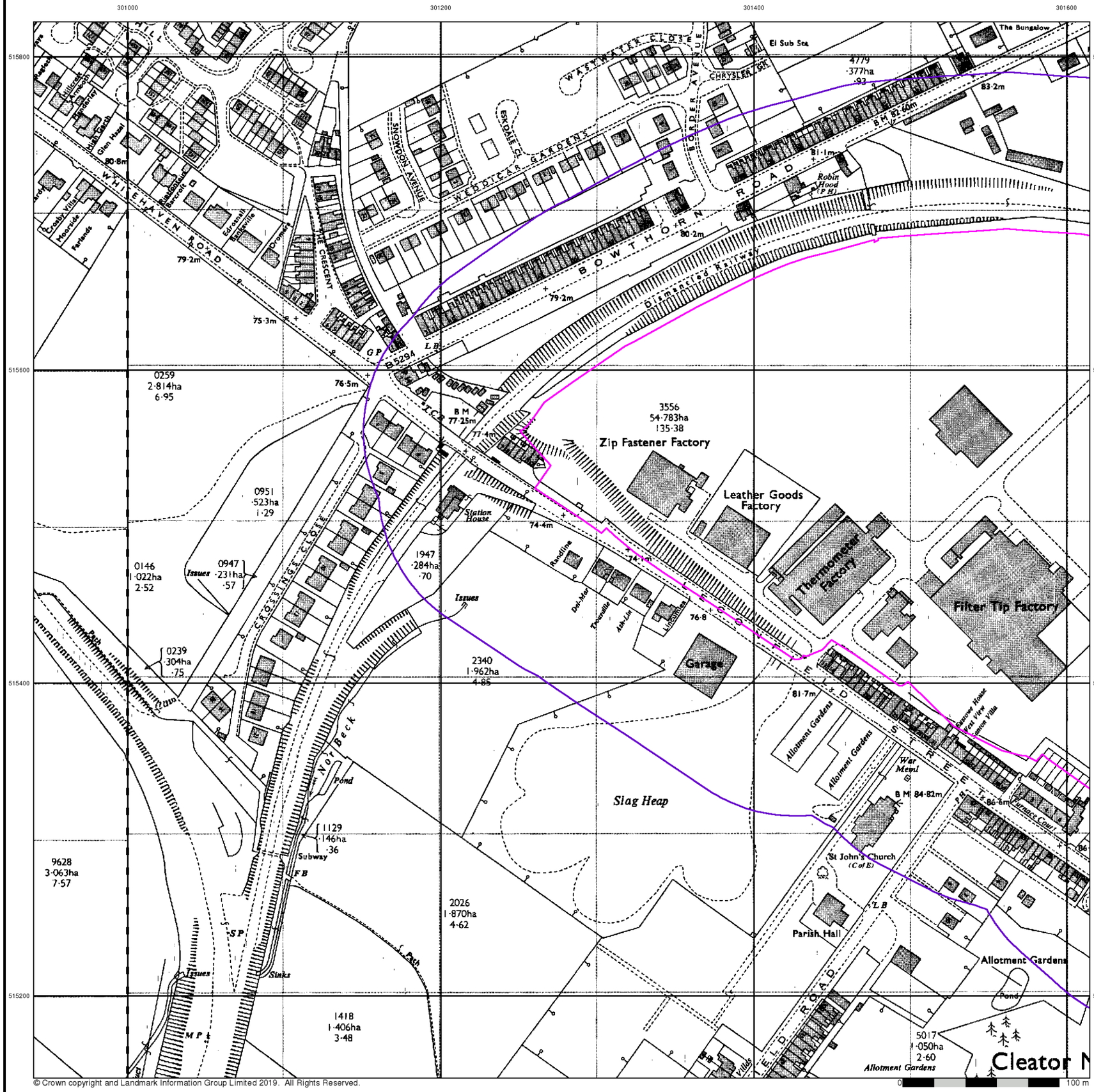

Ordnance Survey Plan

Published 1970

Source map scale - 1:2,500

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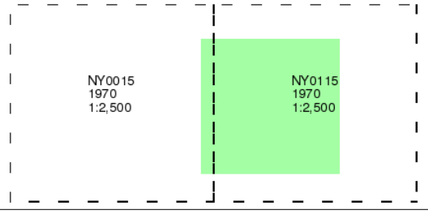
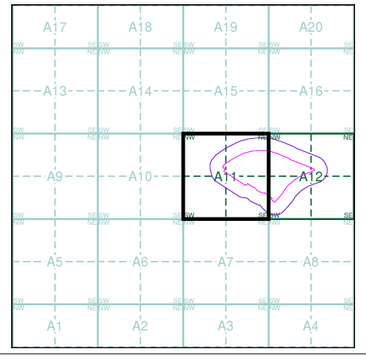


Historical Map - Segment A11



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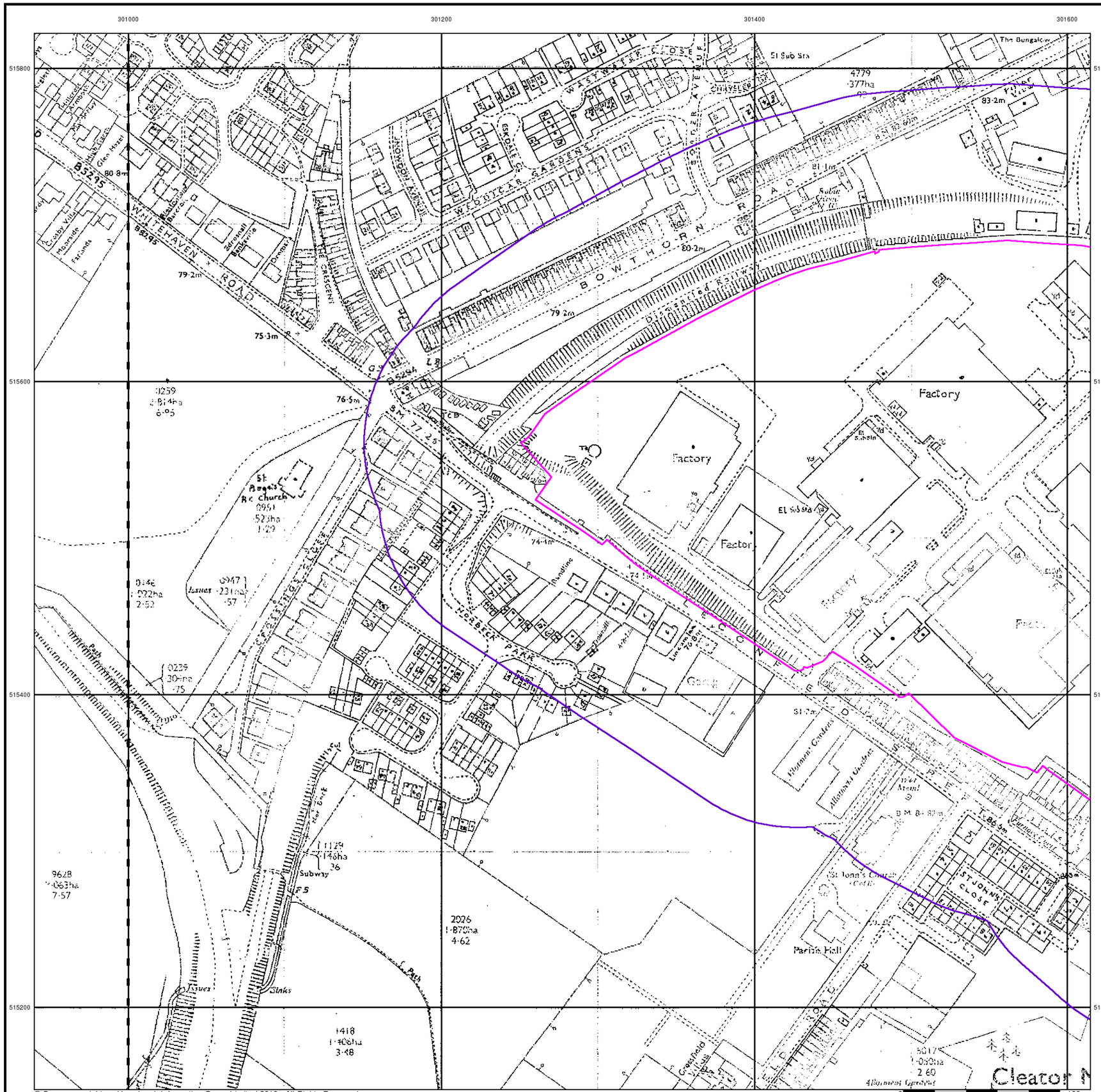

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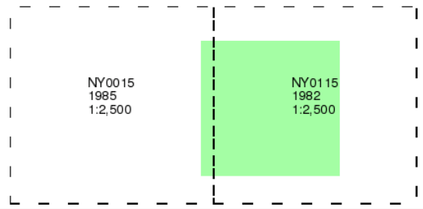
Additional SIMs

Published 1982 - 1985

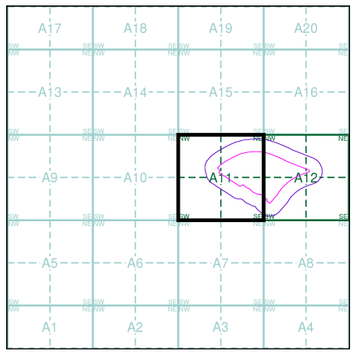
Source map scale - 1:2,500

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



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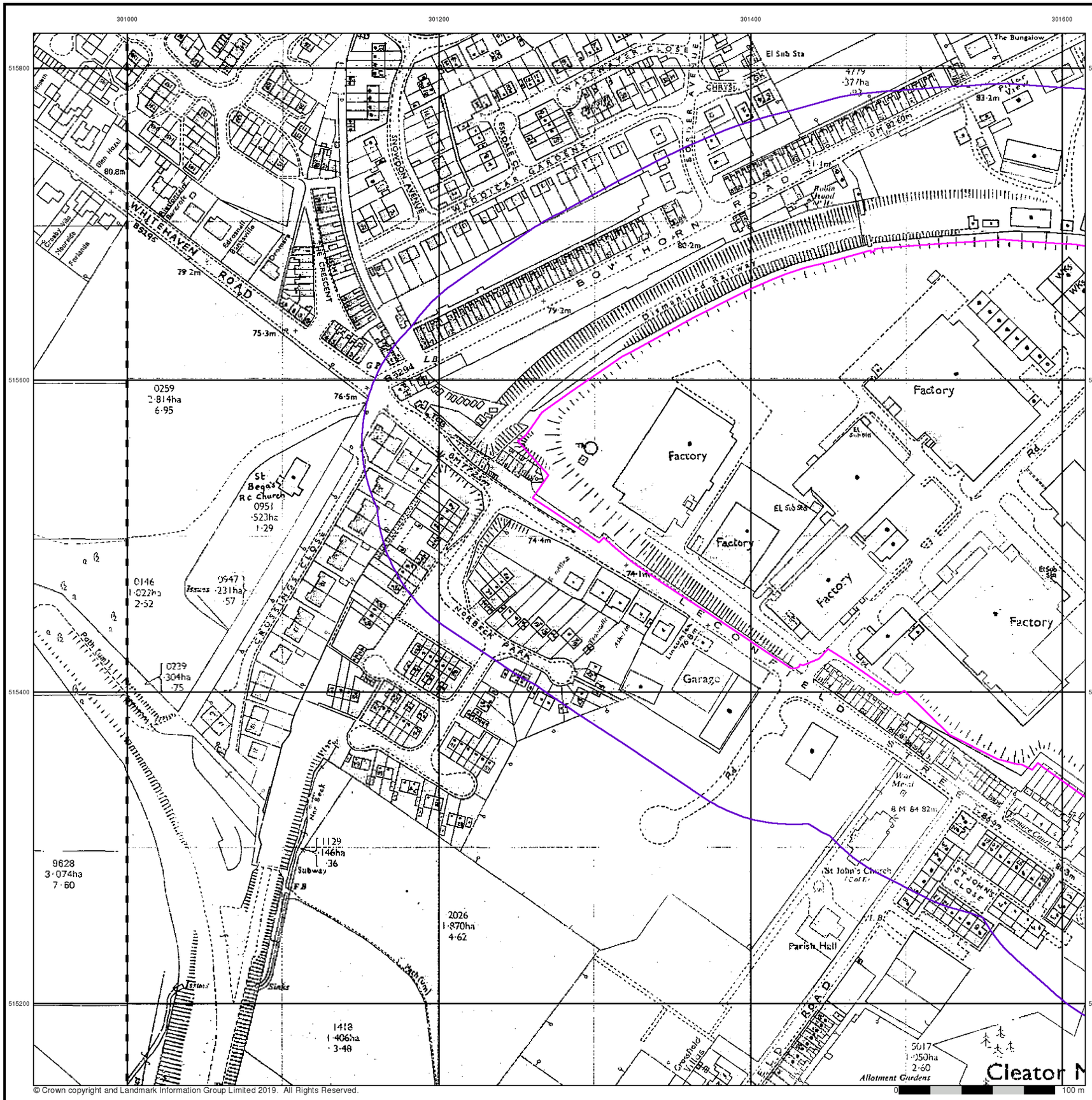


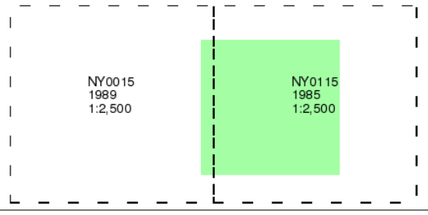
Additional SIMs

Published 1985 - 1989

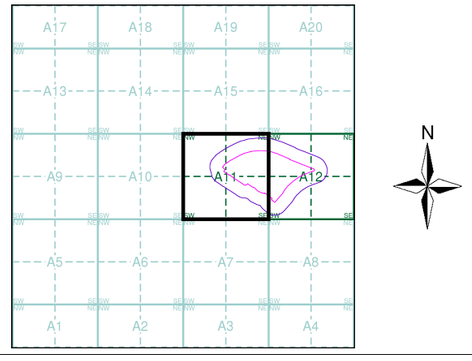
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



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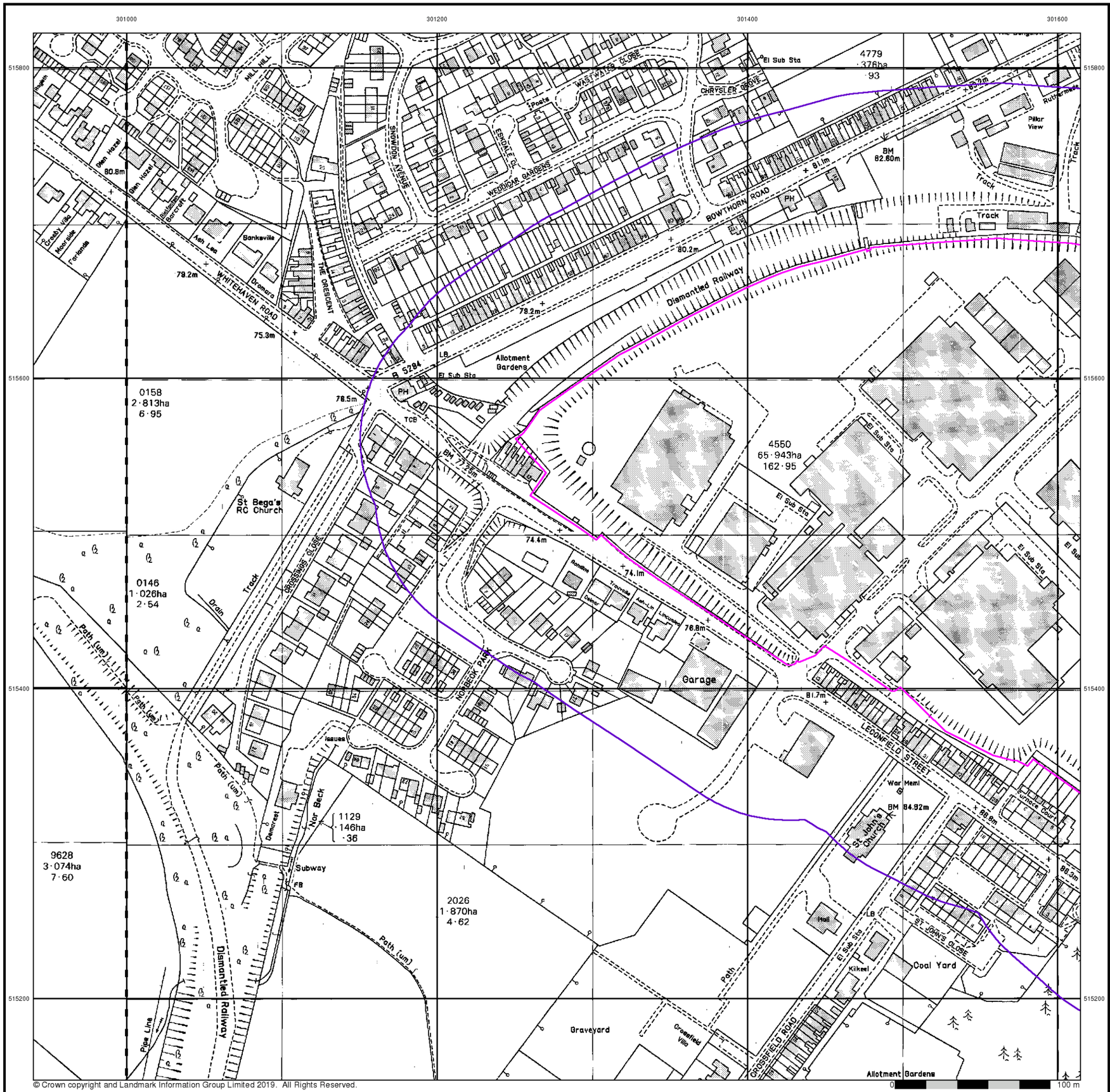

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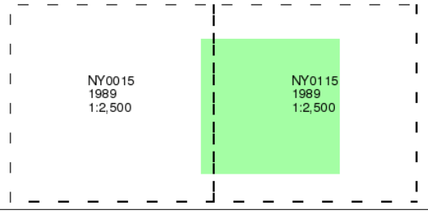
Ordnance Survey Plan

Published 1989

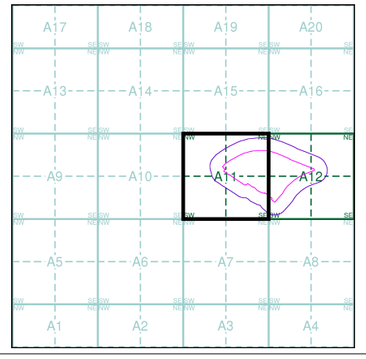
Source map scale - 1:2,500

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

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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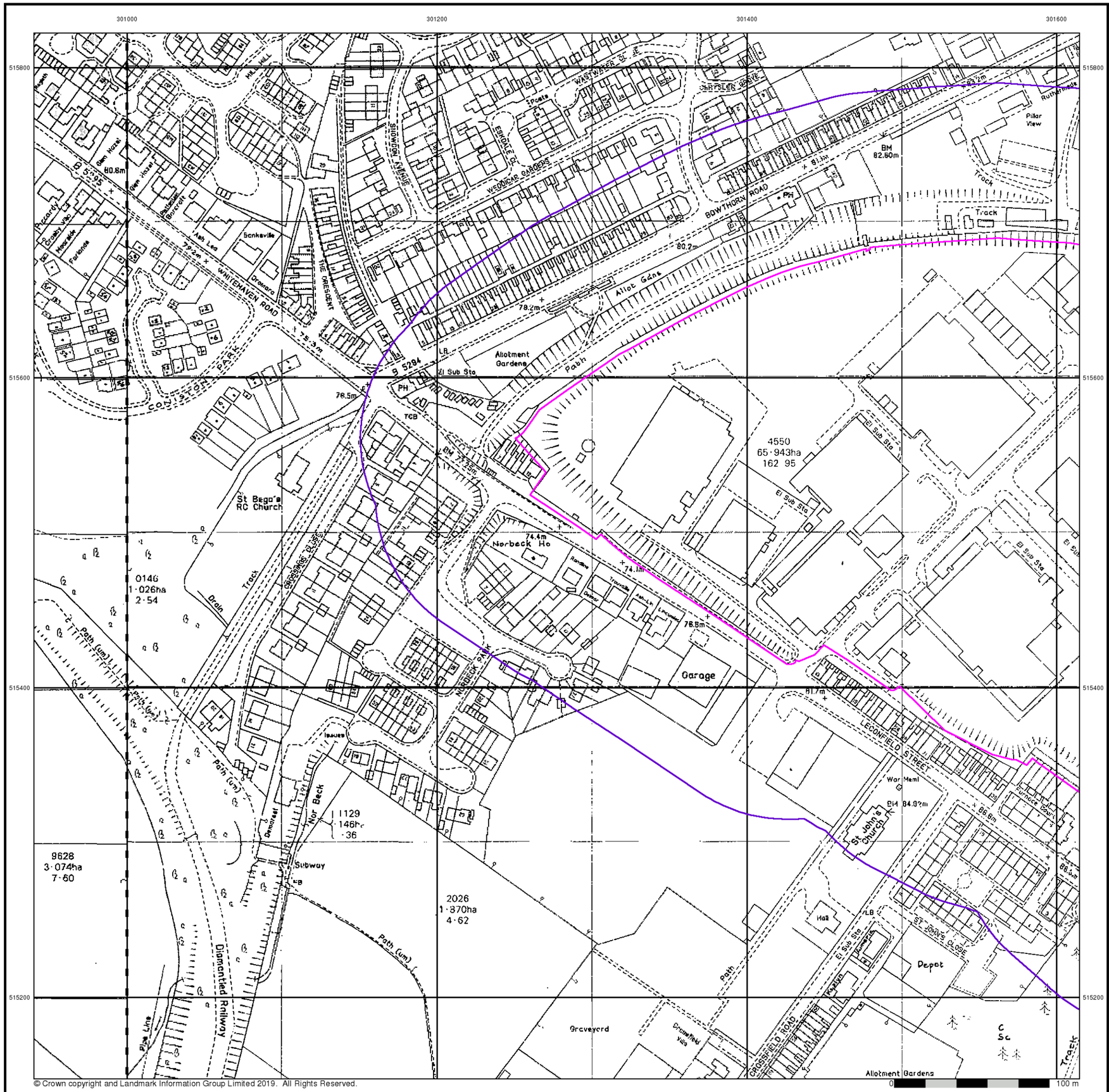

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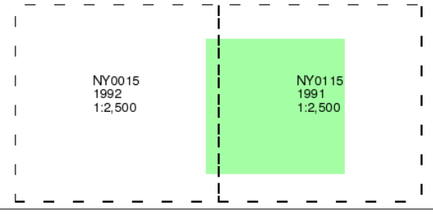
Additional SIMs

Published 1991 - 1992

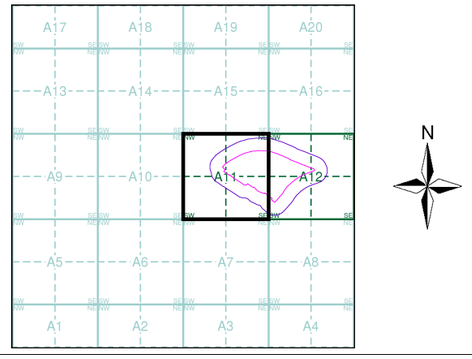
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



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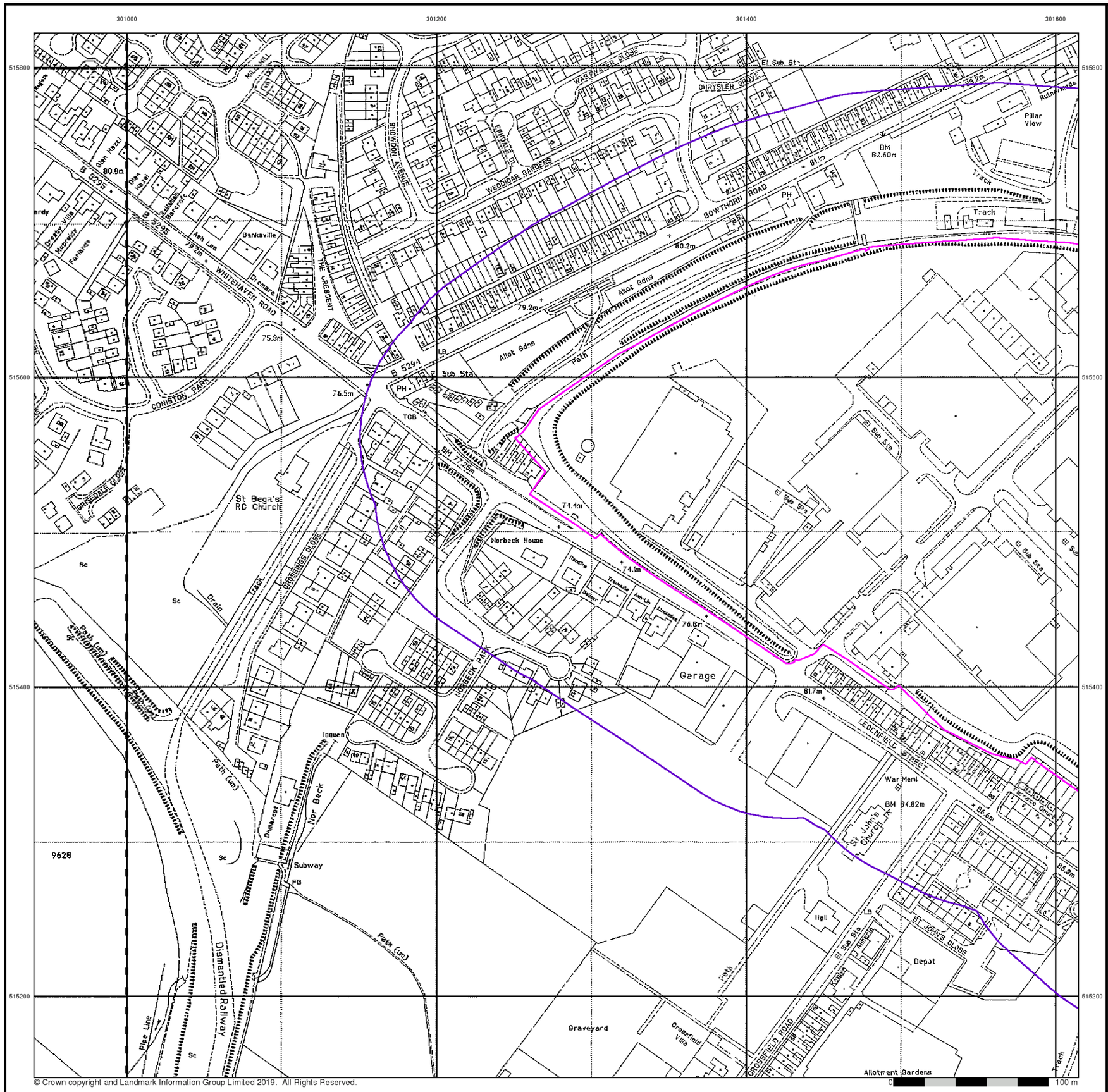

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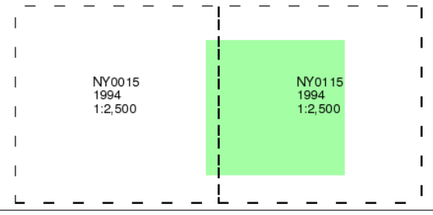
Large-Scale National Grid Data

Published 1994

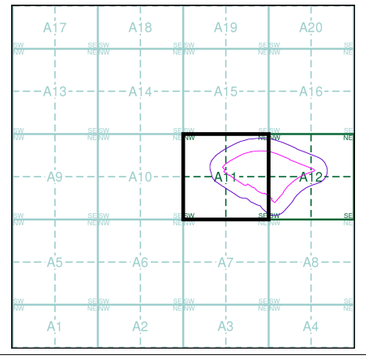
Source map scale - 1:2,500

'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 A11



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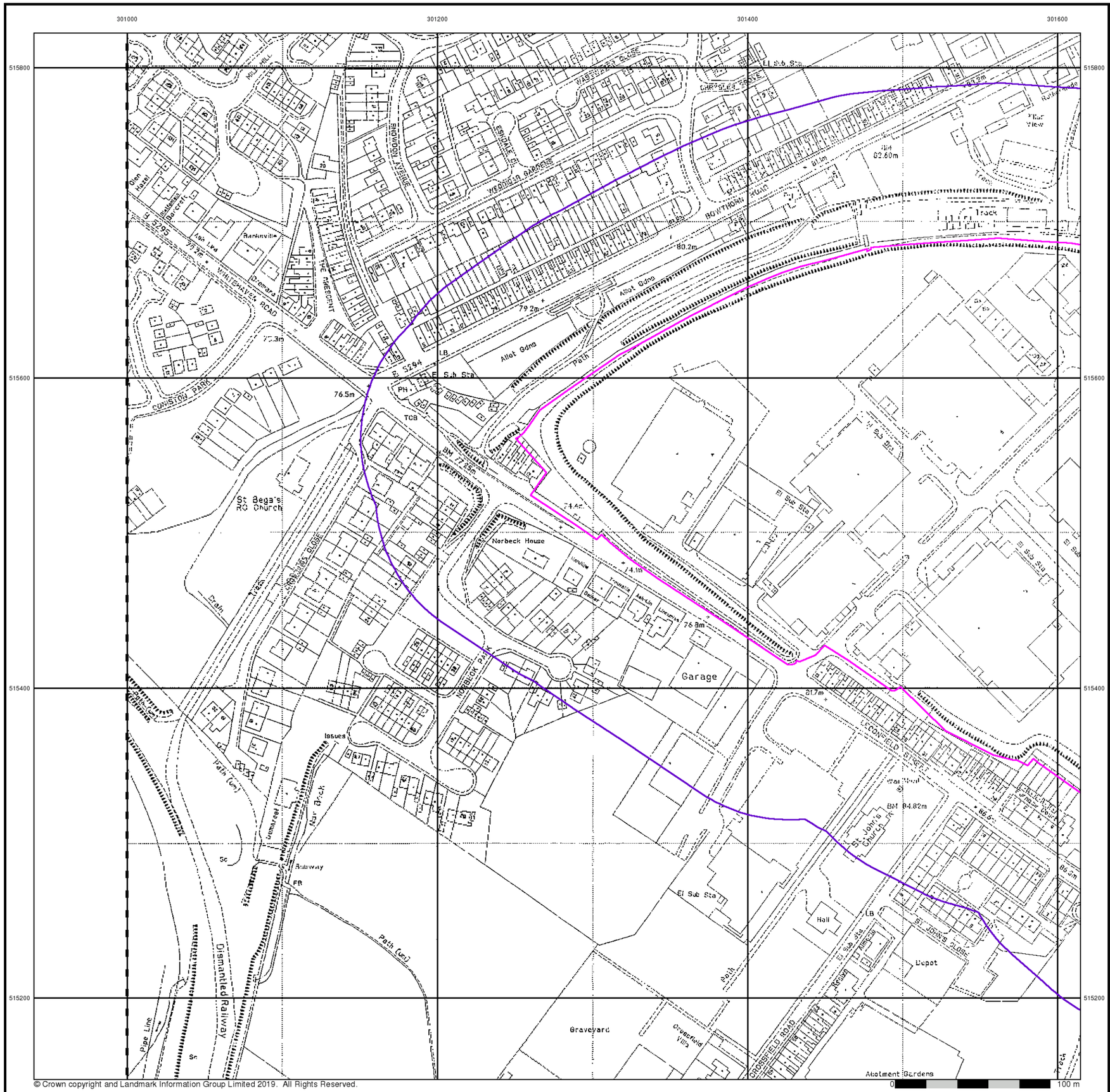
301000
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St Bega's RC Church
Norbeck House
Garage
Issues
Graveyard
Depot
Hall
Allotment Gardens
Dismantled Railway
Nar Beck
Path (um)
Pipe Line
Railway
El Sub Sta
Track
Path
Allot Gdns
Weddicar Gardens
Crossfield Road
St John's Church
Crossfield Villa
Norbeck Park
Coniston Park
Whitehaven Road
The Crescent
Highworth Avenue
Esplanade
Wastwater Close
Grasmere Close
Derwent Close
Bridge
Culvert
Ford
Sc
FB
LB
PH
TCB
BM 77.25m
BM 84.82m
BM 62.60m
76.5m
80.2m
79.2m
75.3m
74.4m
76.8m
86.5m
87.7m
82.6m
Pillar View
Bardonville
Glen Hazel
Dreamara
Lilac Cottage
Lilac Bungalow
Ashdene
Lilac Villa
Lilac Cottage
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Lilac Cottage
Lilac Bungalow
Deliver
Junction
Telephone
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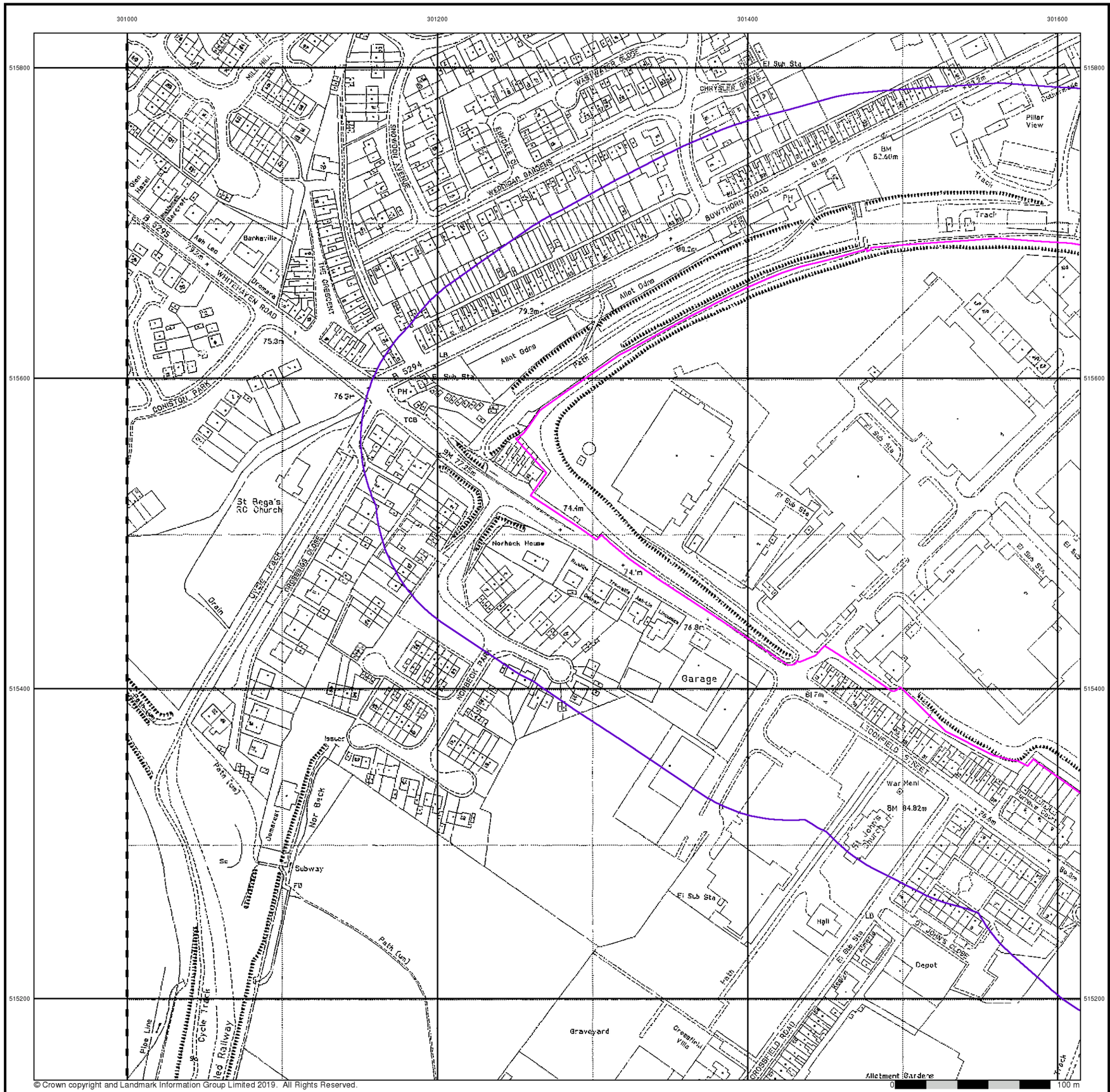
Telephone



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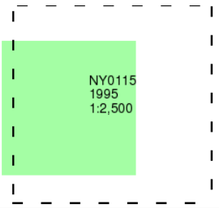
Large-Scale National Grid Data

Published 1995

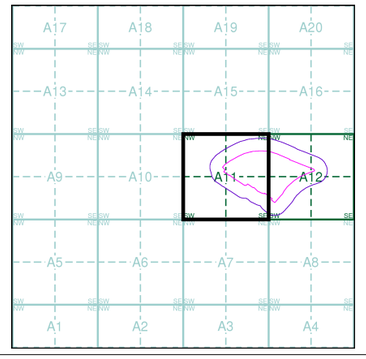
Source map scale - 1:2,500

'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



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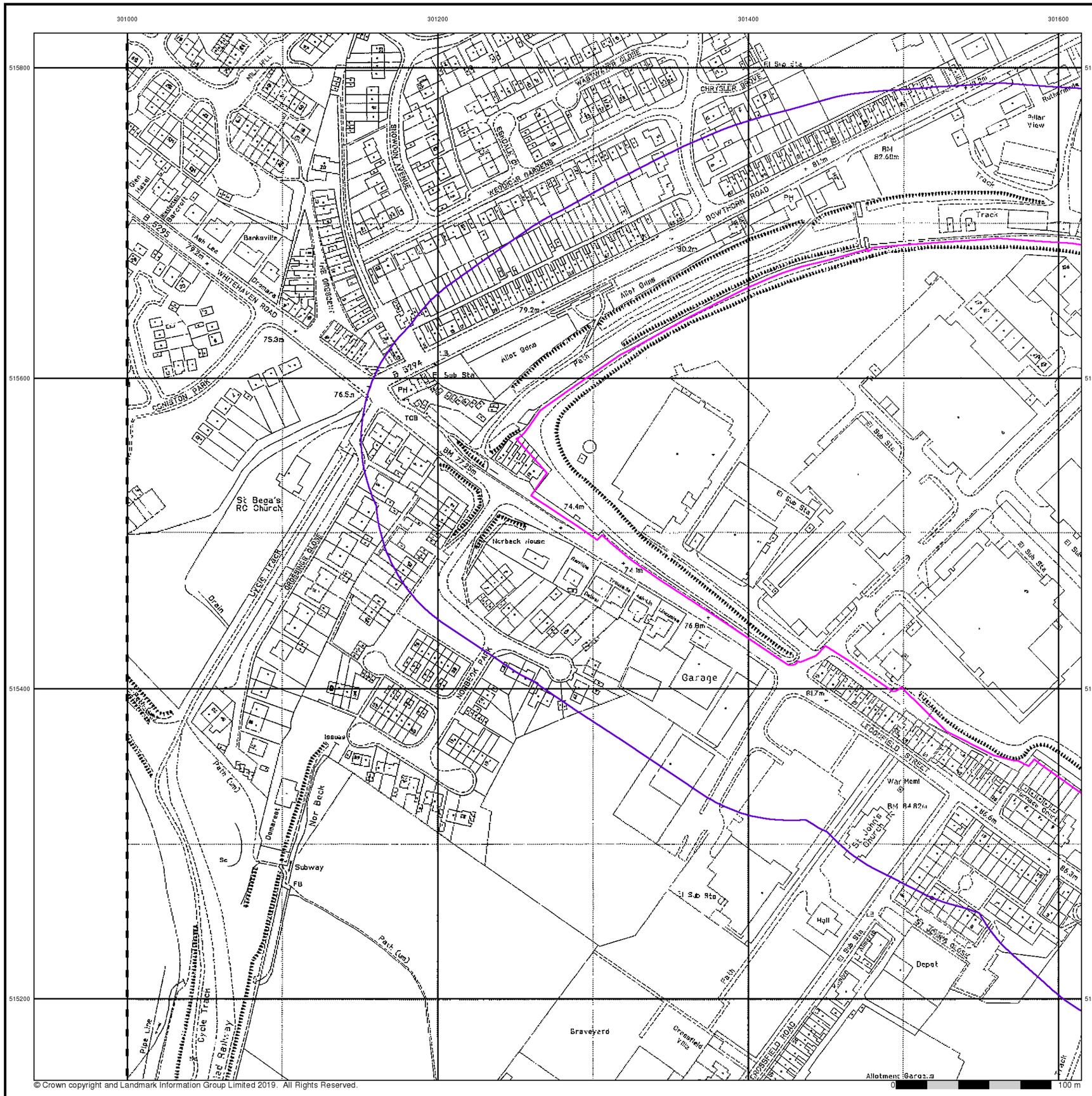

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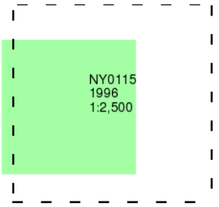
Large-Scale National Grid Data

Published 1996

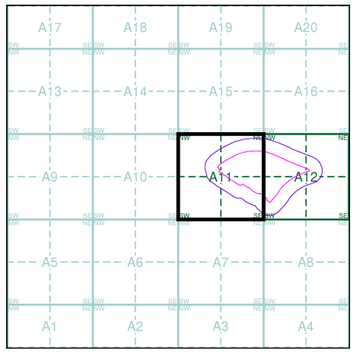
Source map scale - 1:2,500

'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



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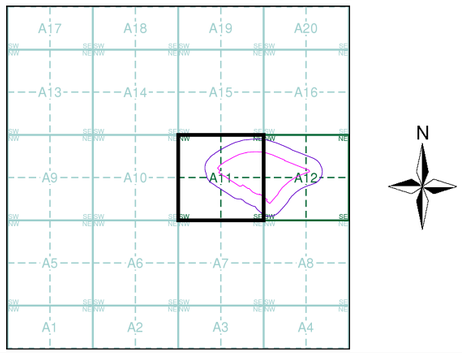
Historical Aerial Photography

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



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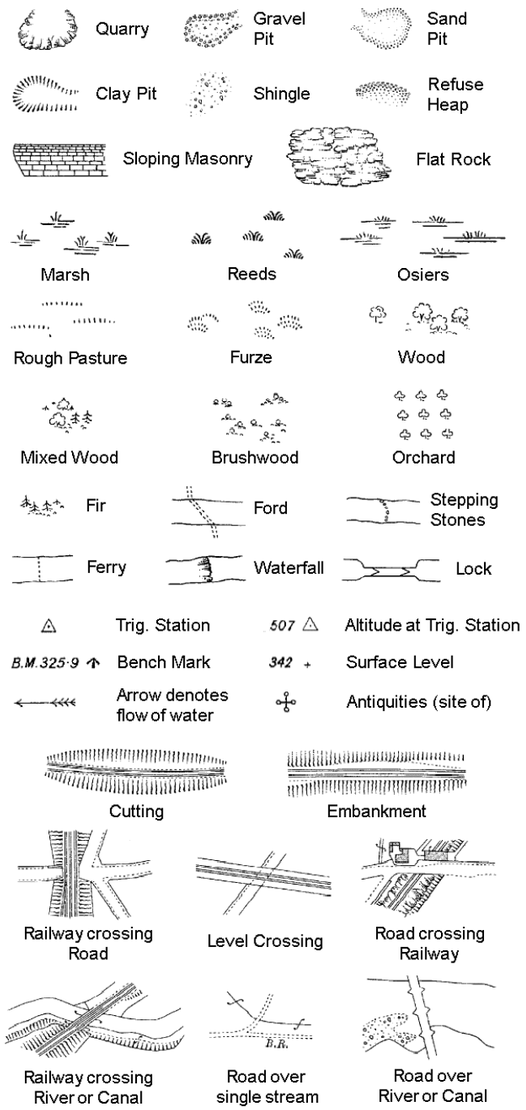
Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

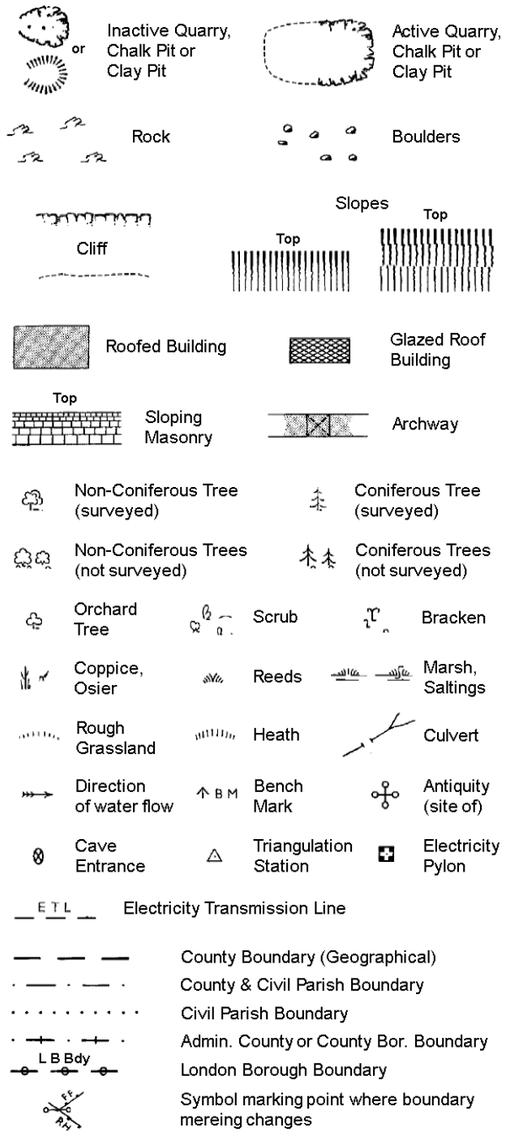
Administrative County & Civil Parish Boundary

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

Co. Burgh Bdy. County Burgh Boundary (Scotland)

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

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

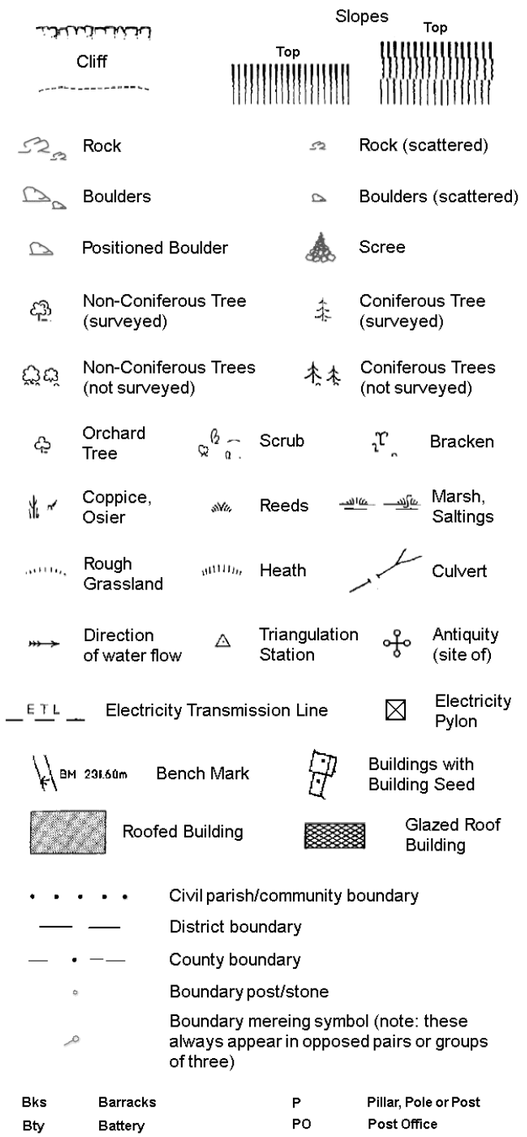
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

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

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

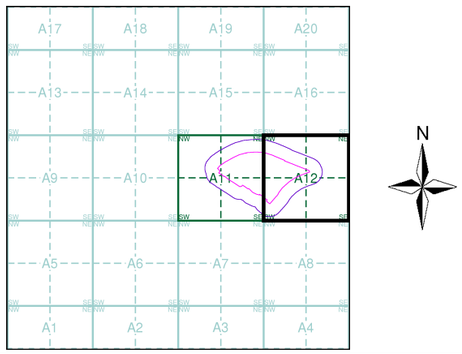
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
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
Ordnance Survey Plan	1:2,500	1989	9
Additional SIMs	1:2,500	1991	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 A12



Order Details

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Site Details

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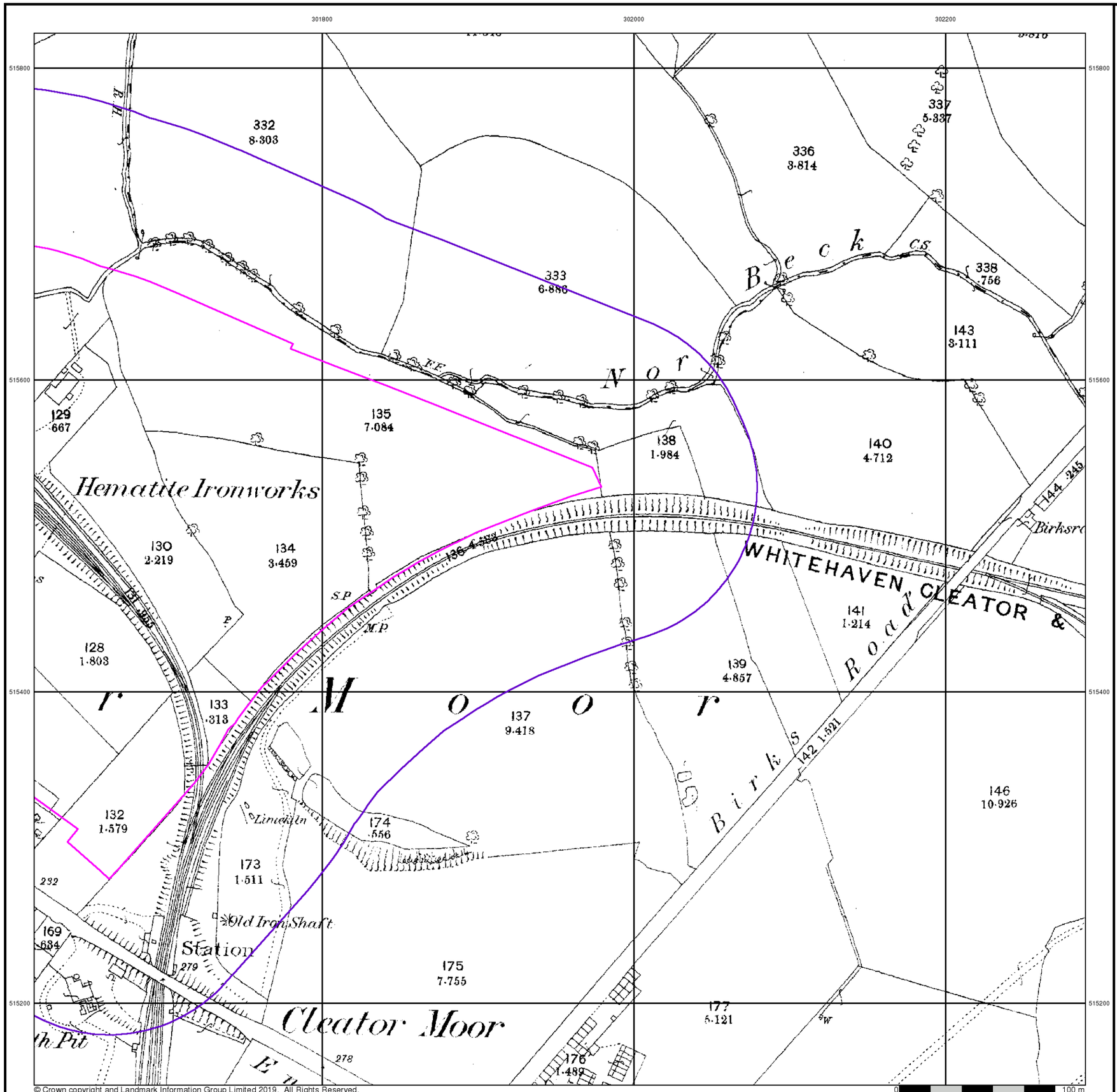

Cumberland

Published 1863

Source map scale - 1:2,500

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

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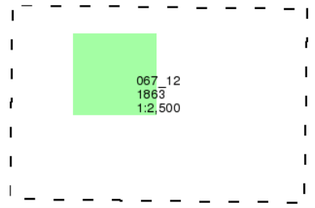
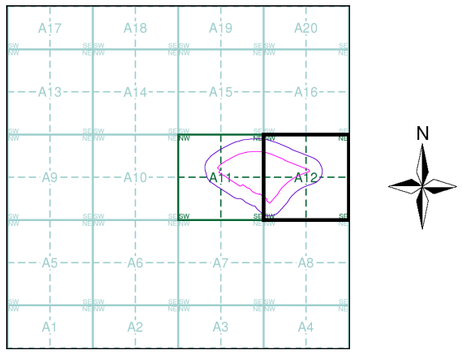


Historical Map - Segment A12



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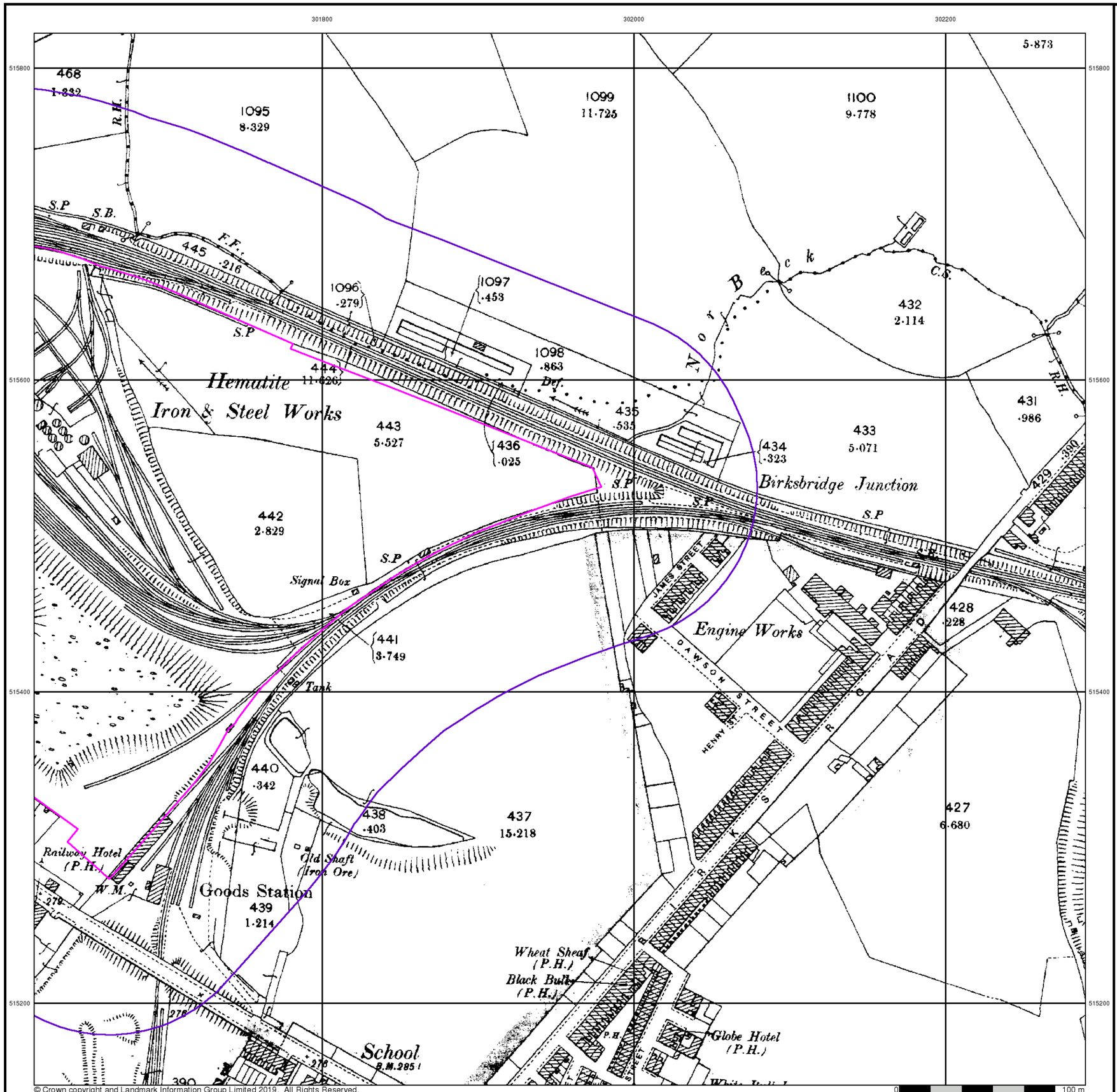

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Cumberland

Published 1899

Source map scale - 1:2,500

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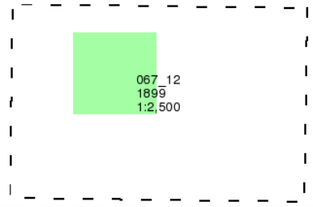
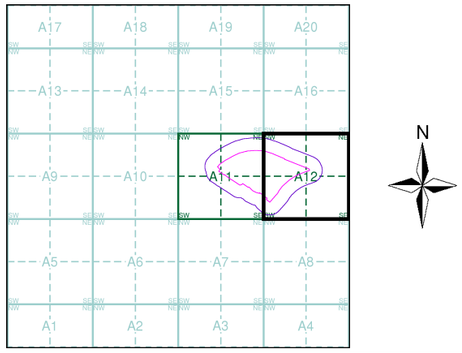


Historical Map - Segment A12



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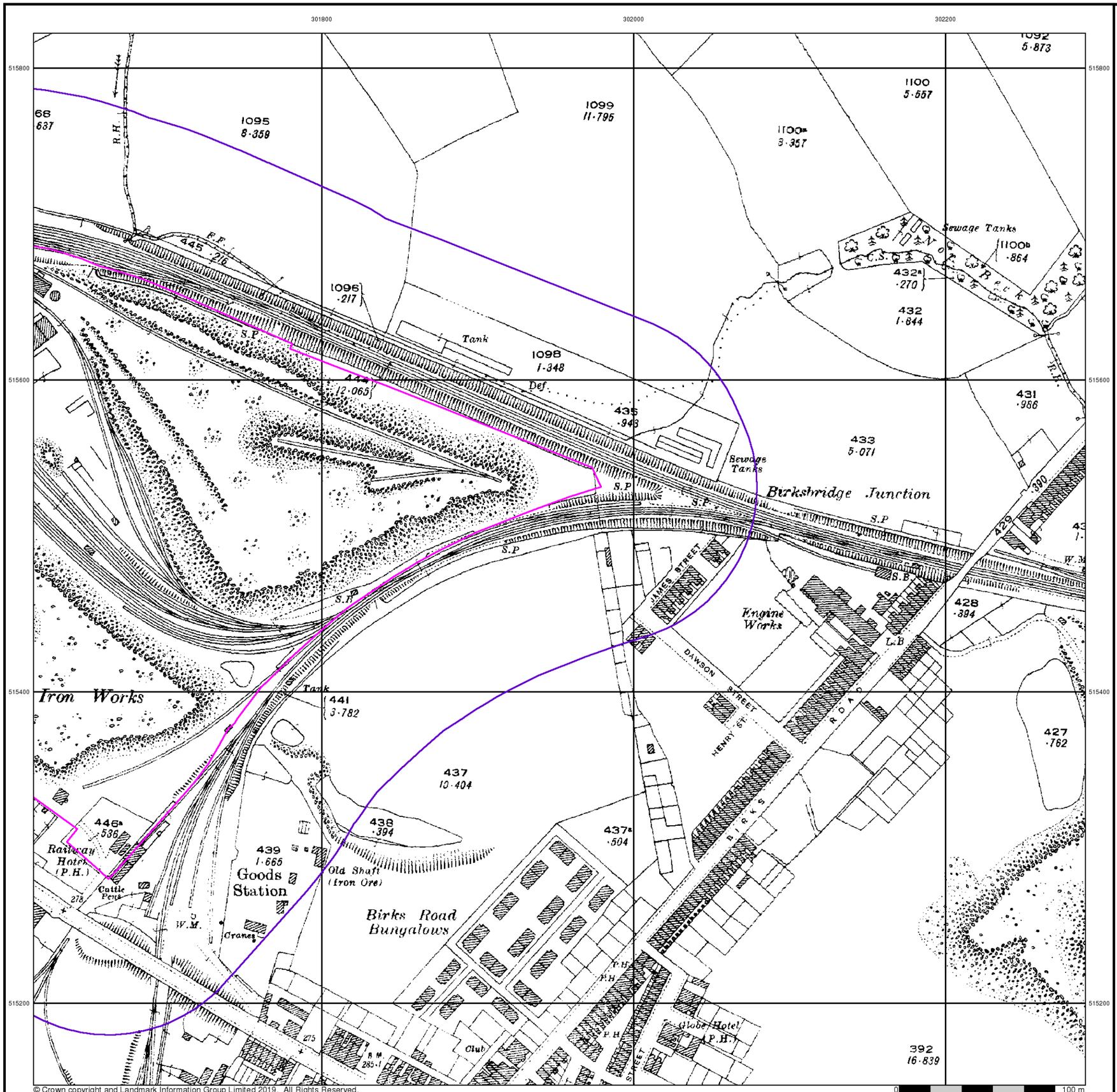

Cumberland

Published 1925

Source map scale - 1:2,500

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

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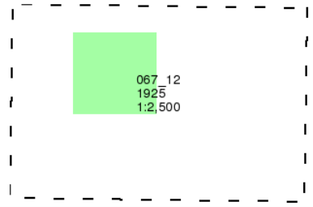
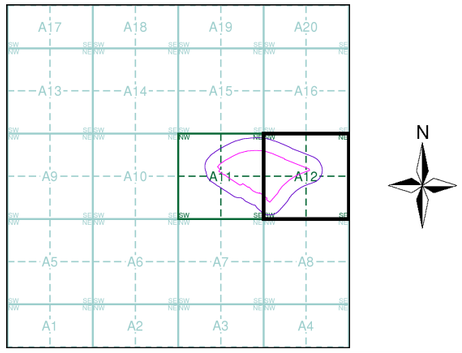


Historical Map - Segment A12



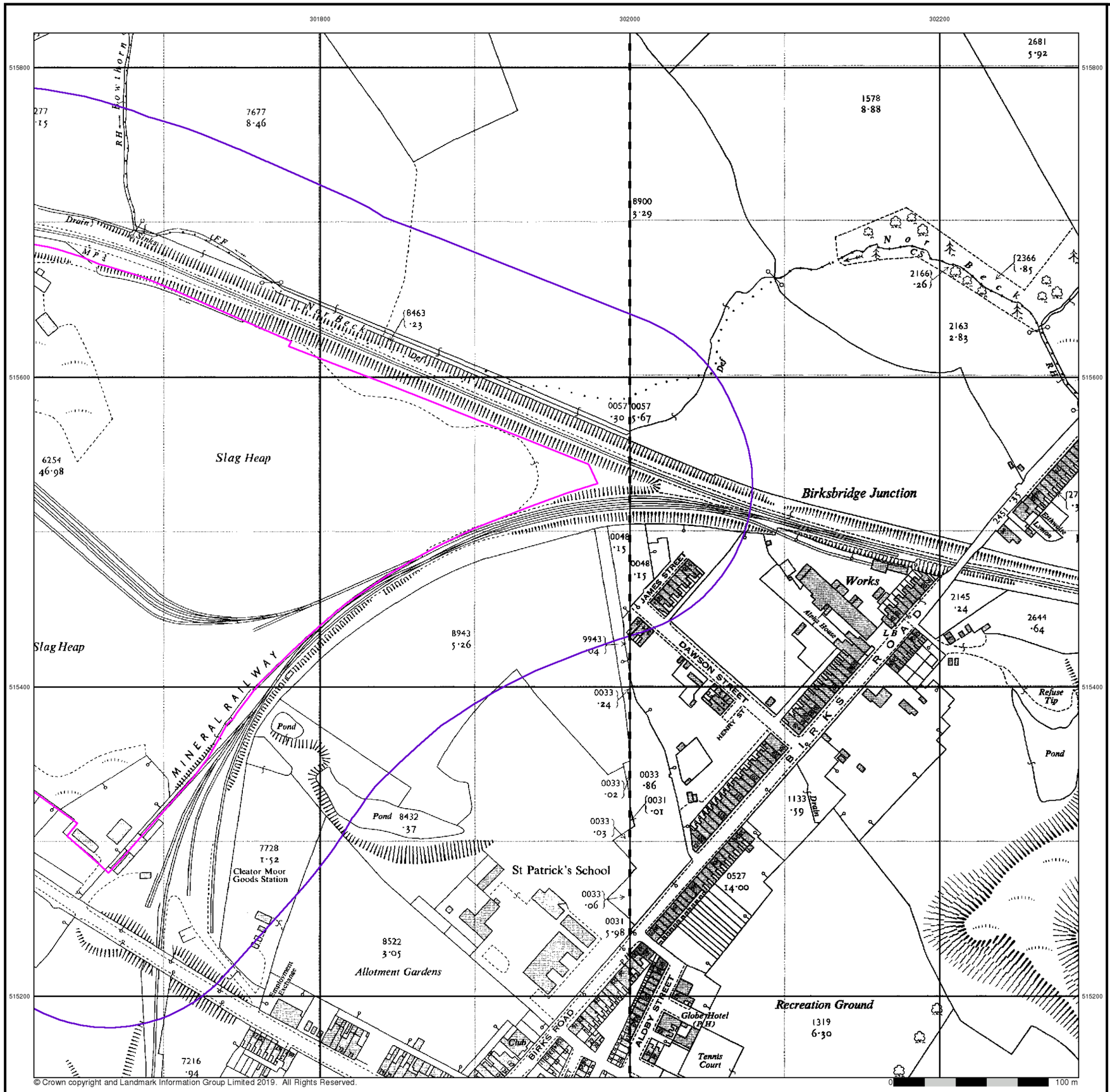
Order Details

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

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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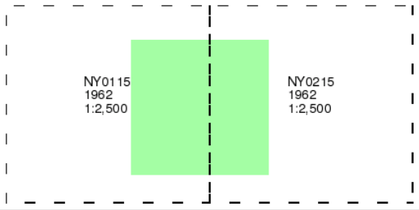
Ordnance Survey Plan

Published 1962

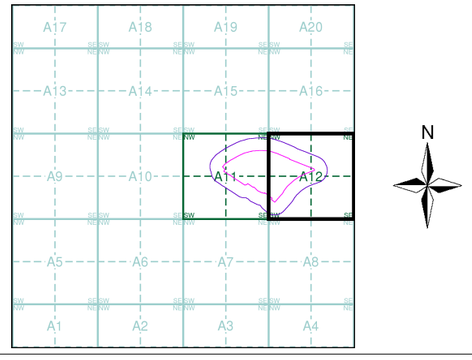
Source map scale - 1:2,500

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 A12



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Site Details

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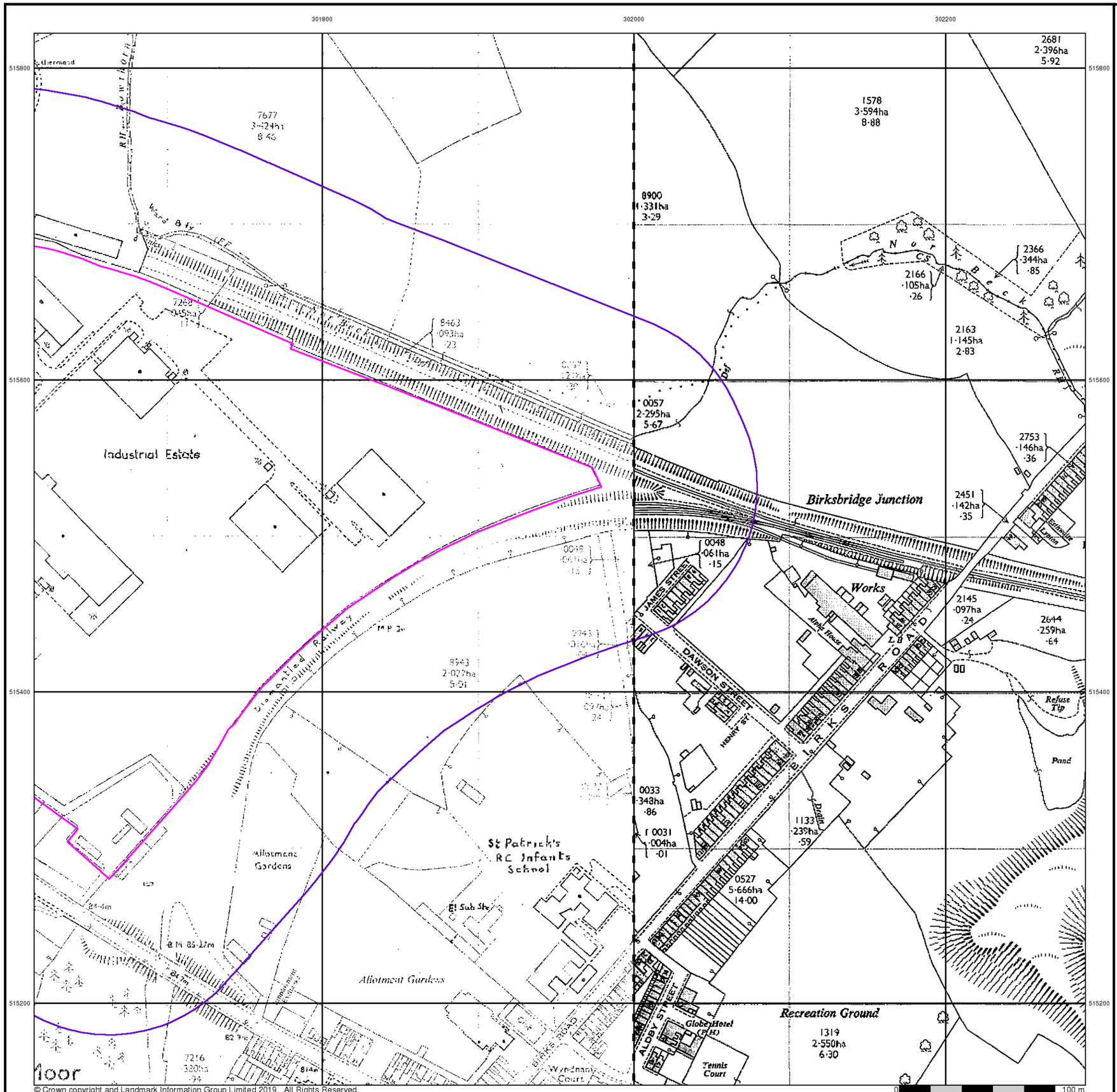


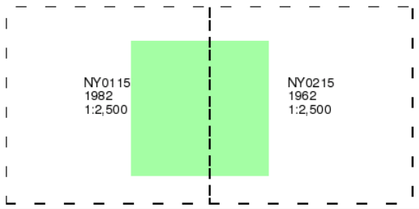
Additional SIMs

Published 1962 - 1982

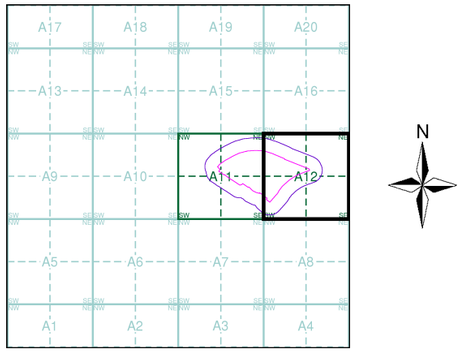
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number:	224379683_1_1
Customer Ref:	A114312
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Site Area (Ha):	15.46
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Ordnance Survey Plan

Published 1970

Source map scale - 1:2,500

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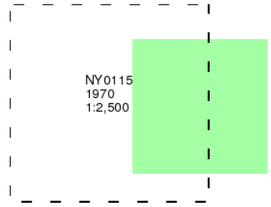
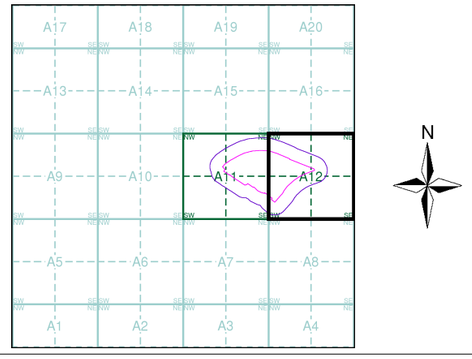
Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

Order Number:	224379683_1_1
Customer Ref:	A114312
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Slice:	A
Site Area (Ha):	15.46
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Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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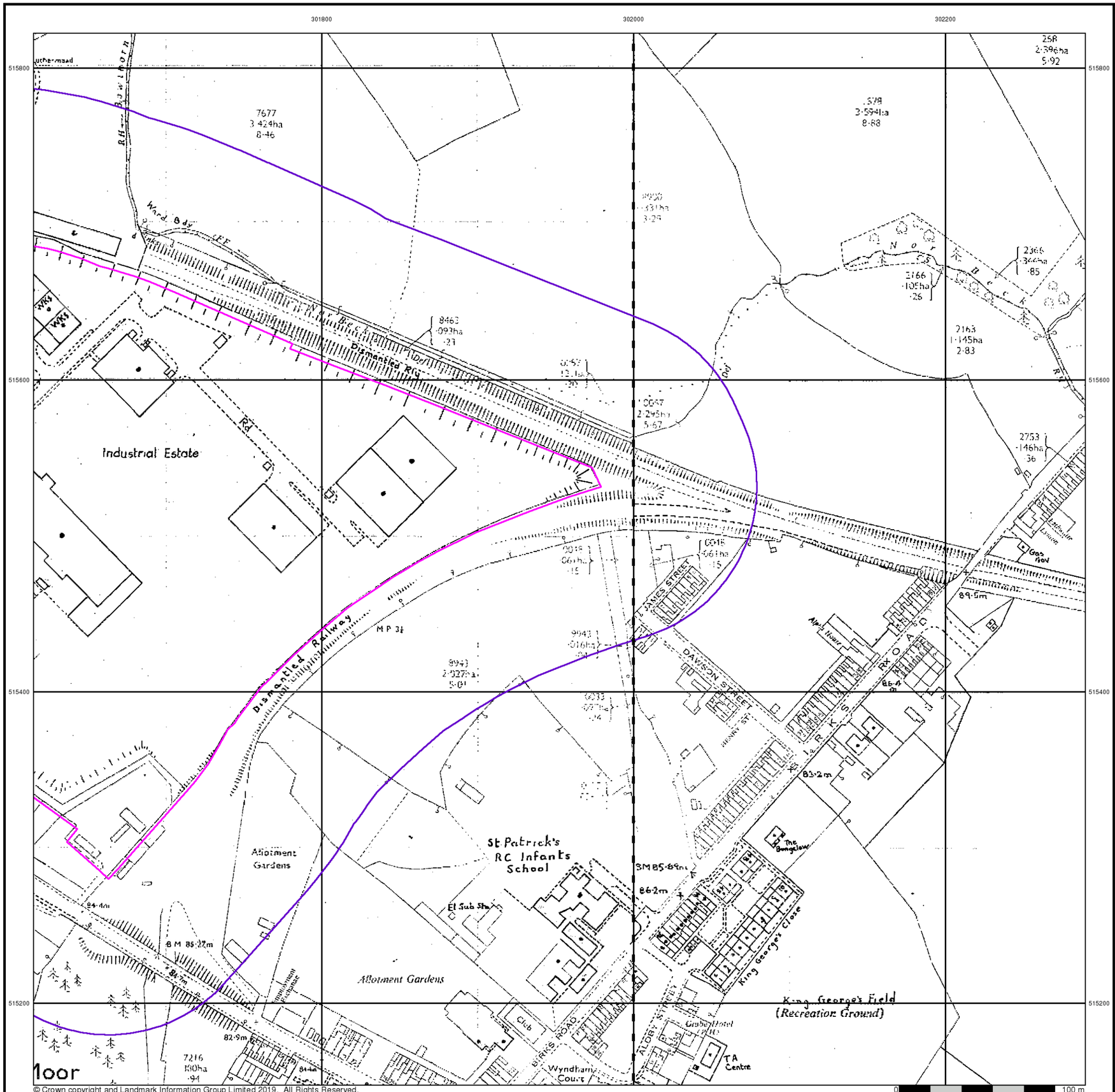

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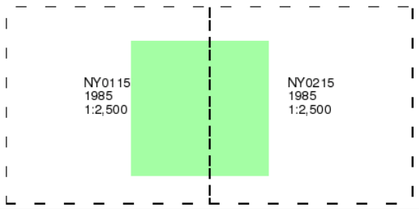
Additional SIMs

Published 1985

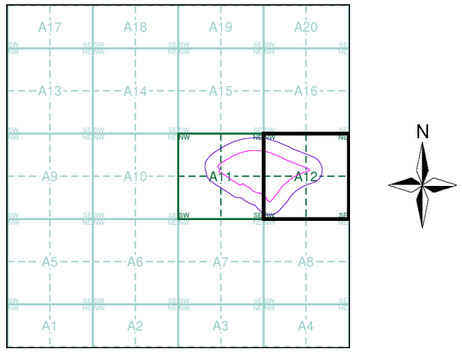
Source map scale - 1:2,500

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 A12



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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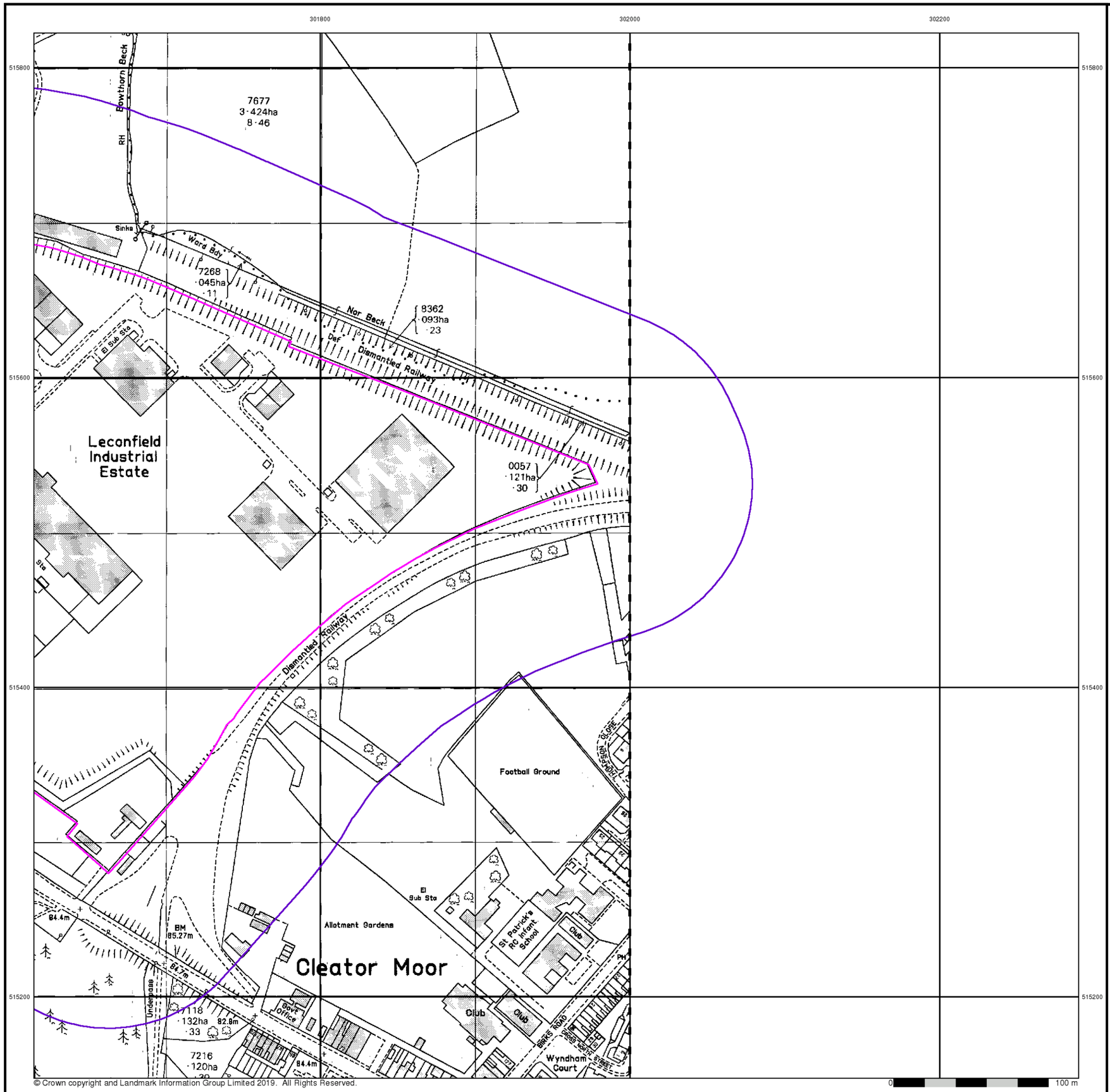

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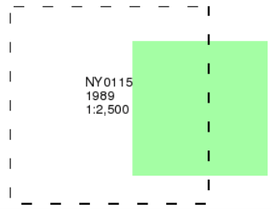
Ordnance Survey Plan

Published 1989

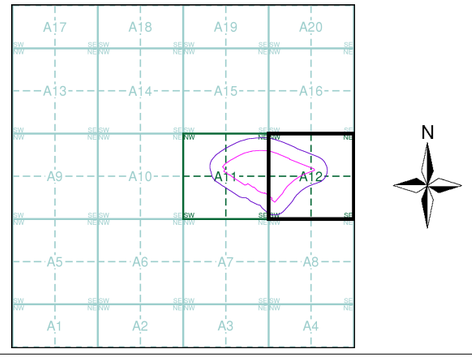
Source map scale - 1:2,500

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 A12



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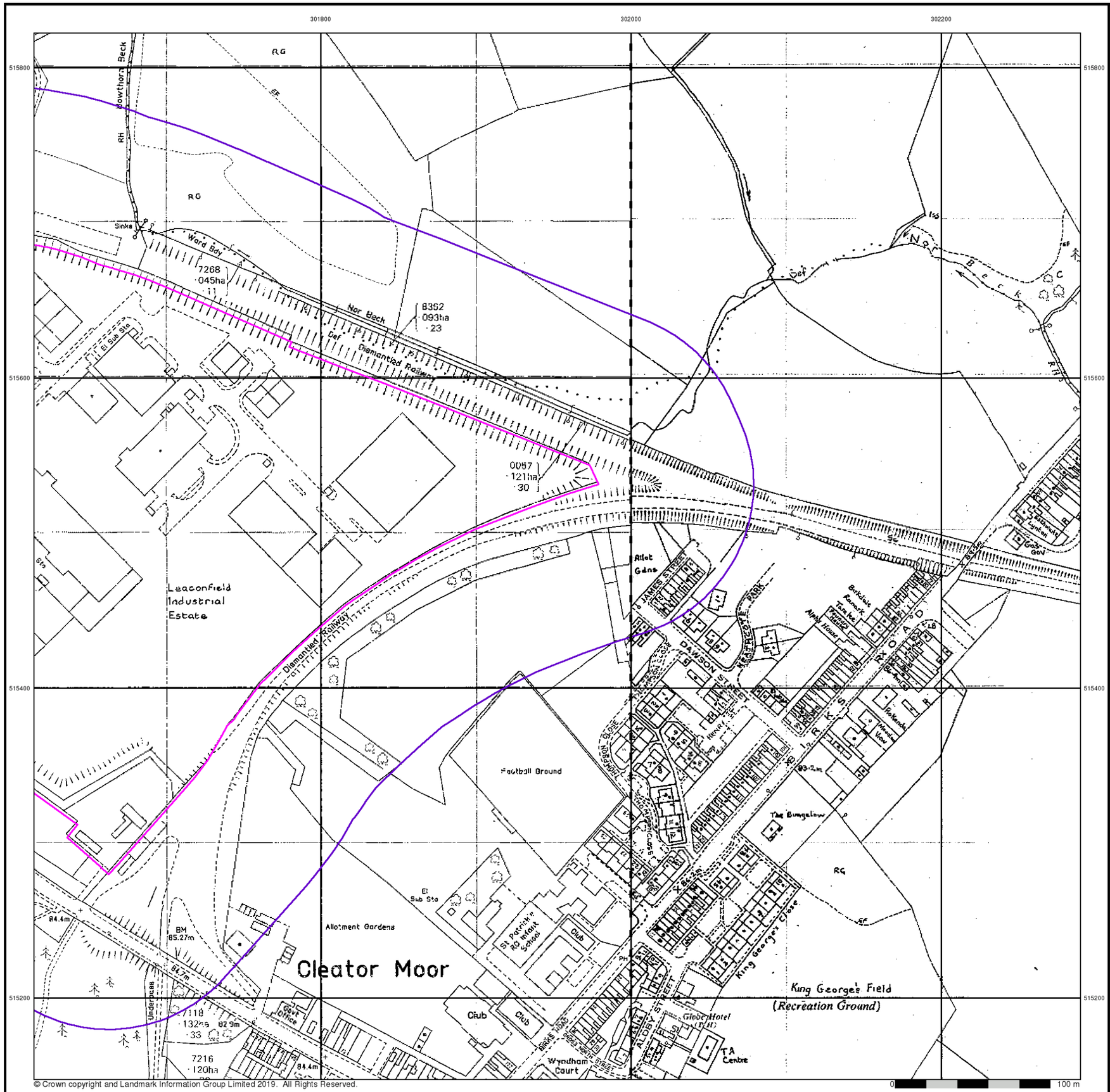

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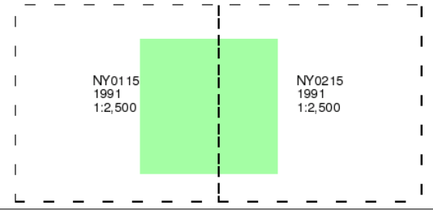
Additional SIMs

Published 1991

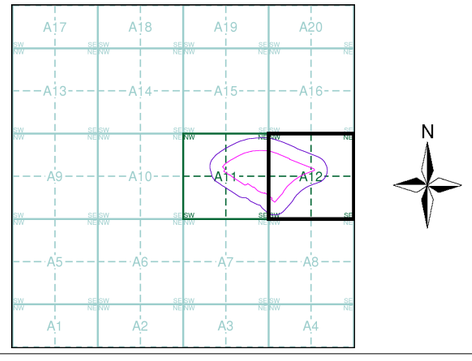
Source map scale - 1:2,500

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 A12



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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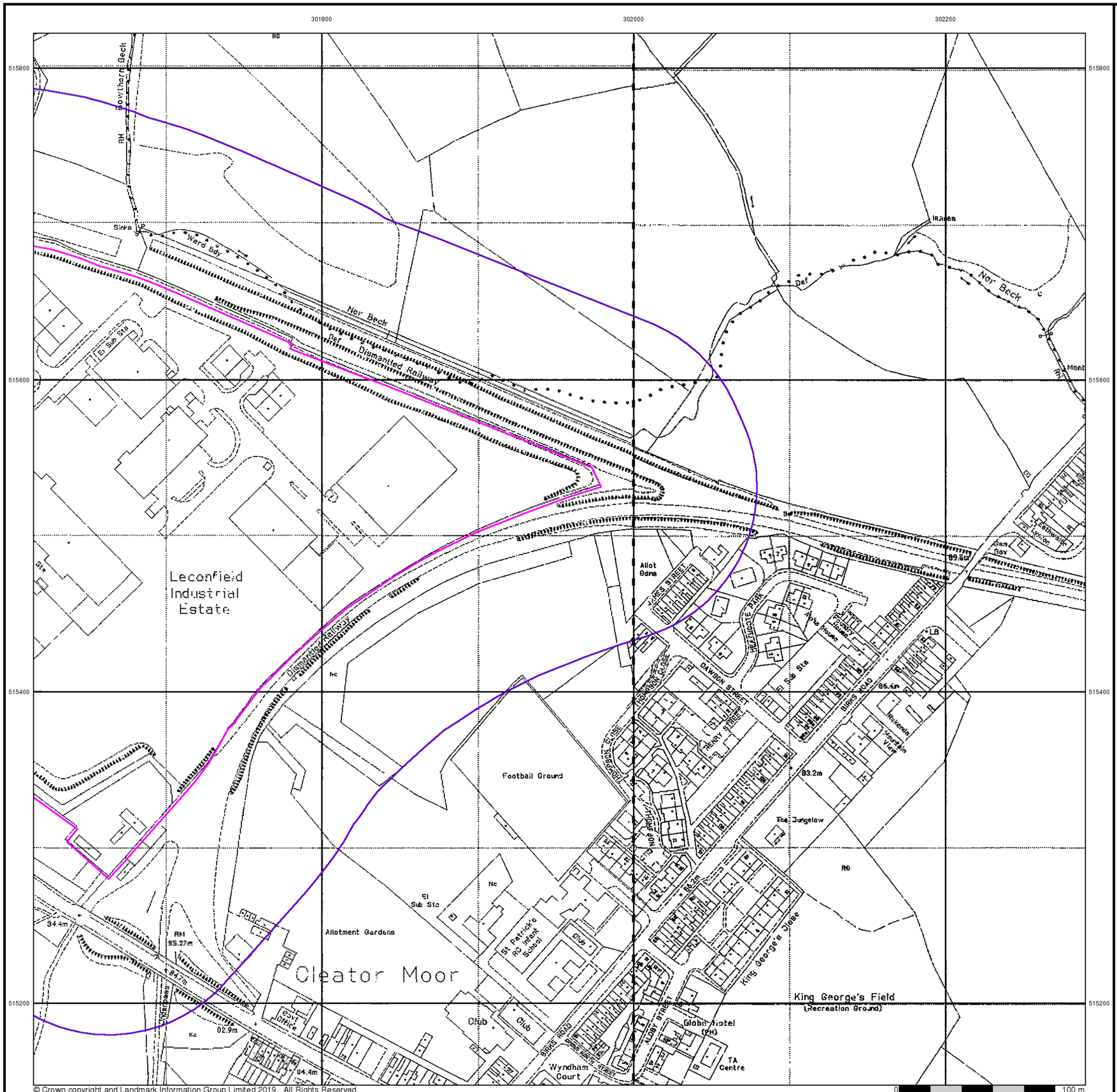


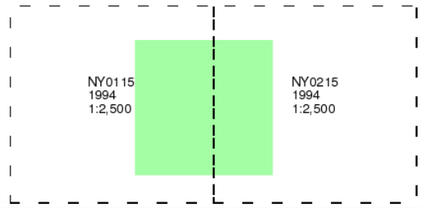
Large-Scale National Grid Data

Published 1994

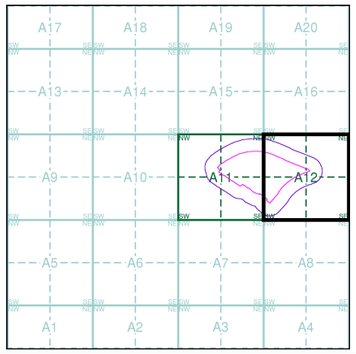
Source map scale - 1:2,500

'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



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

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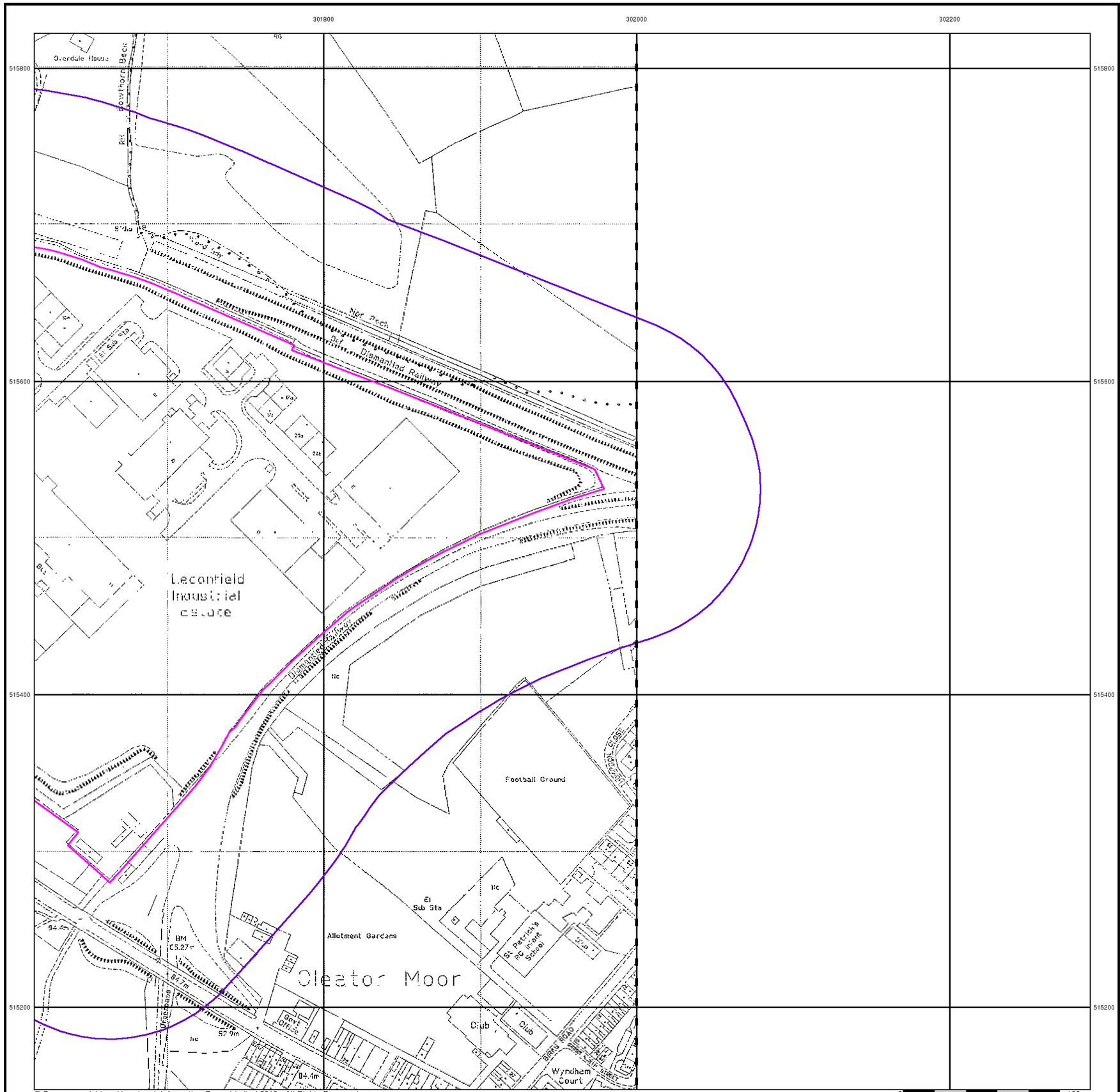

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Large-Scale National Grid Data

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.

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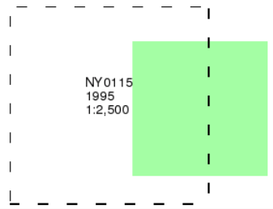
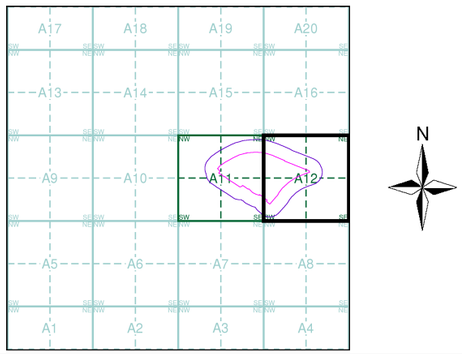


Historical Map - Segment A12



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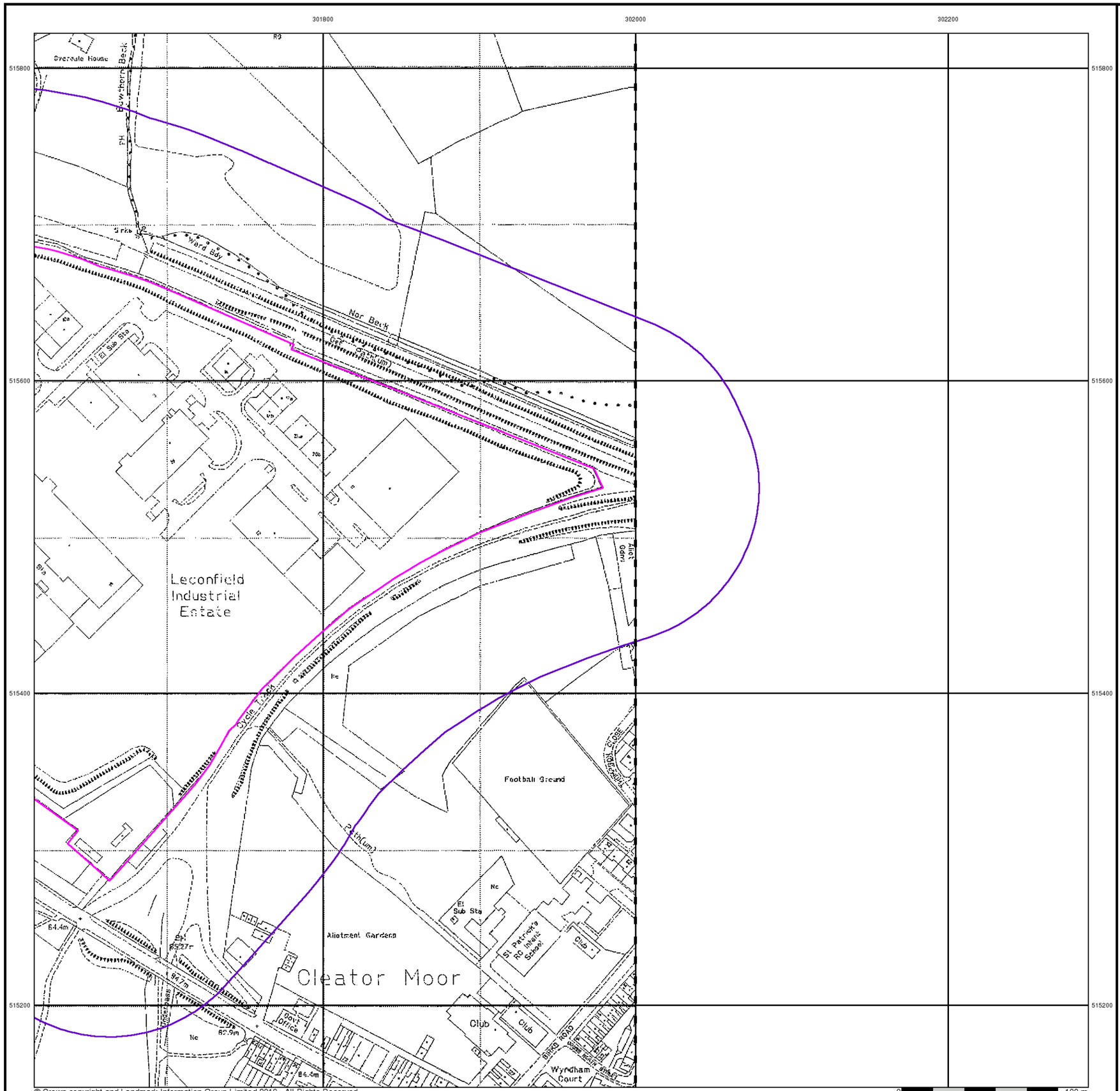

Large-Scale National Grid Data

Published 1995

Source map scale - 1:2,500

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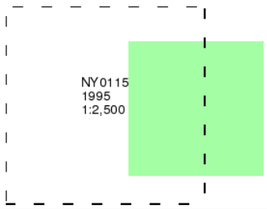
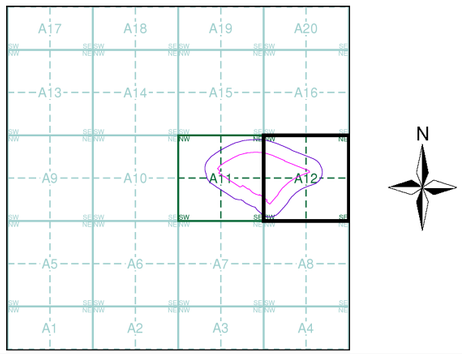


Historical Map - Segment A12



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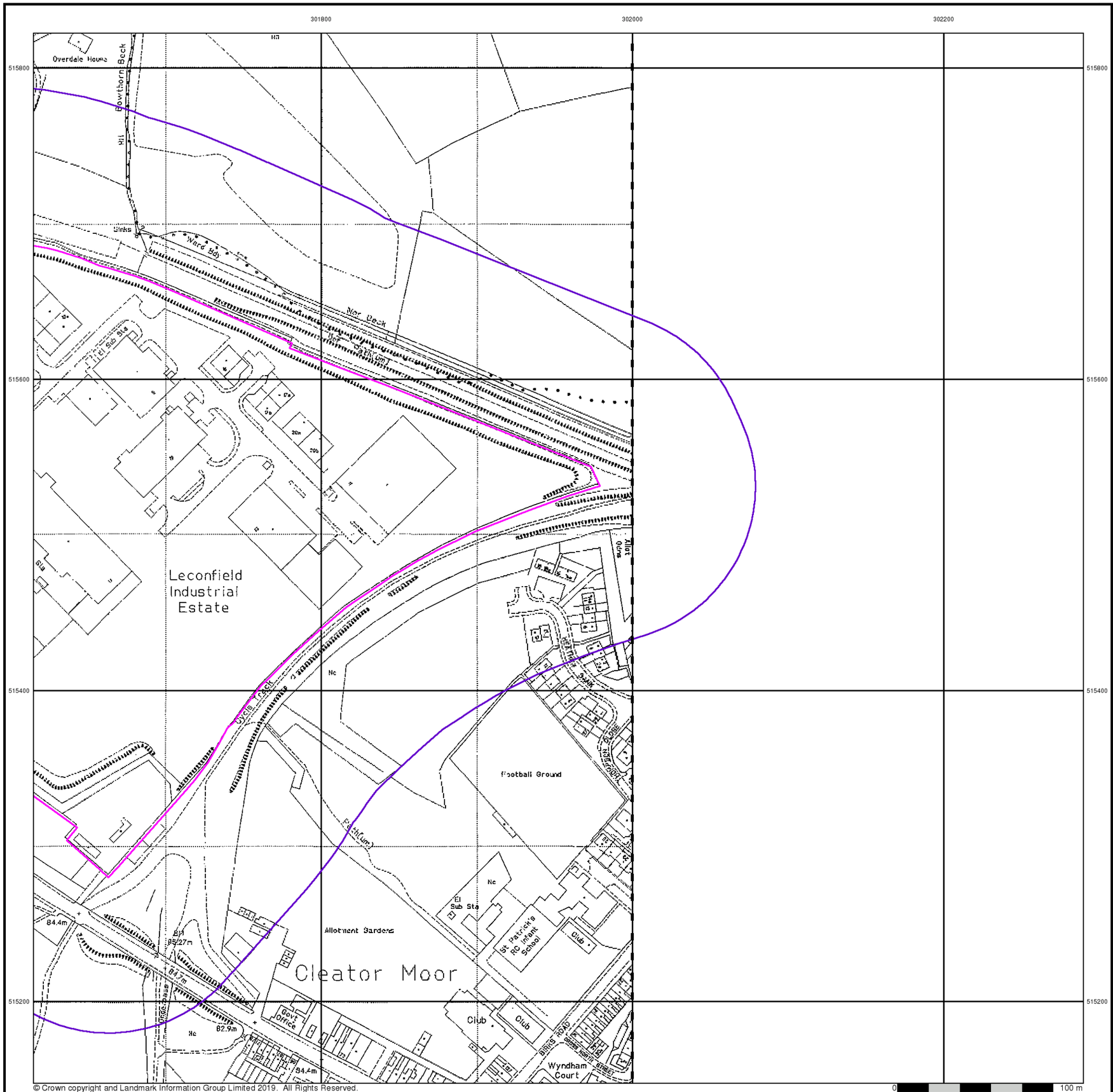

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Large-Scale National Grid Data

Published 1996

Source map scale - 1:2,500

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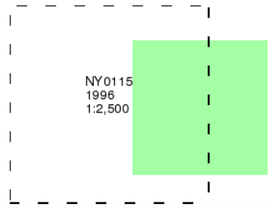
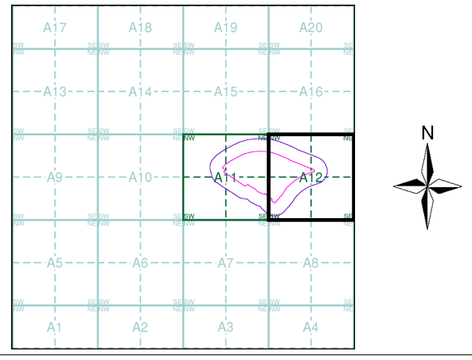


Historical Map - Segment A12



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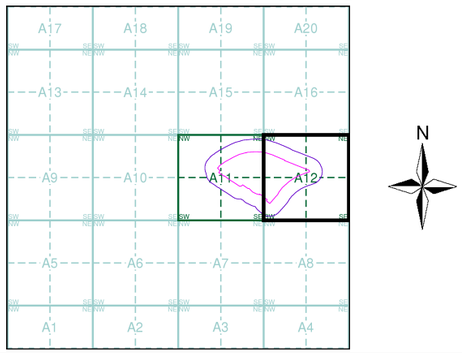
Historical Aerial Photography

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



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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
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

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

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

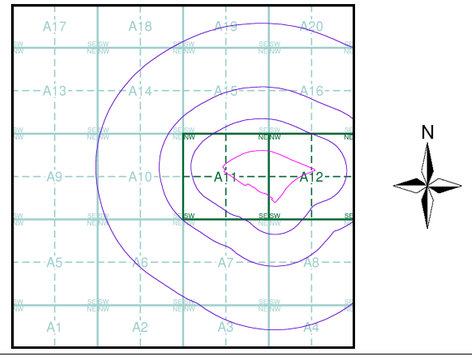
1:10,000 Raster Mapping

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

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



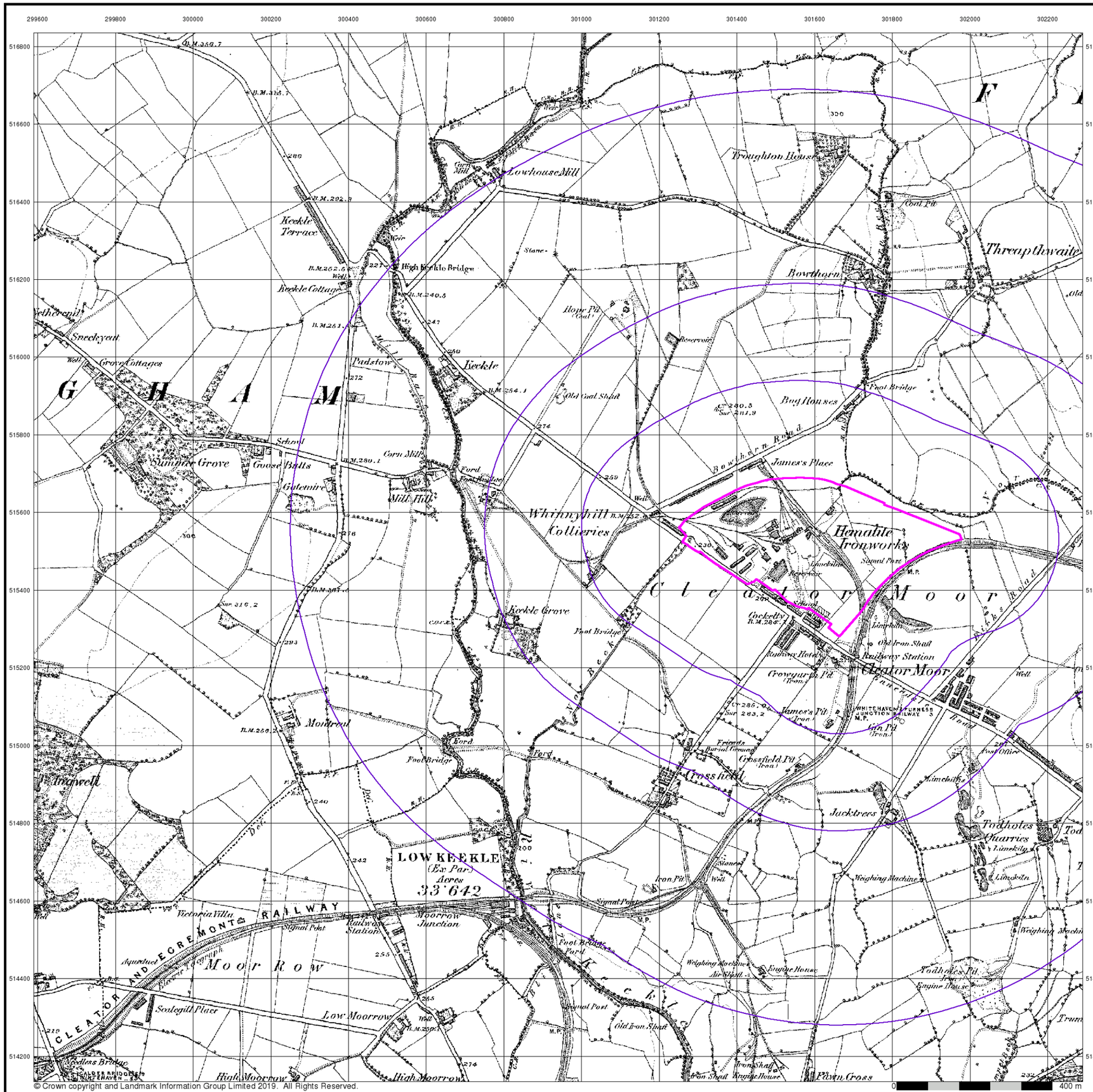
Order Details

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



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Cumberland

Published 1867

Source map scale - 1:10,560

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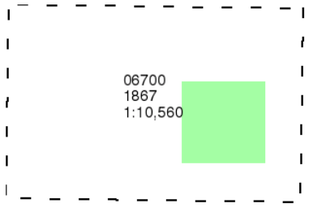
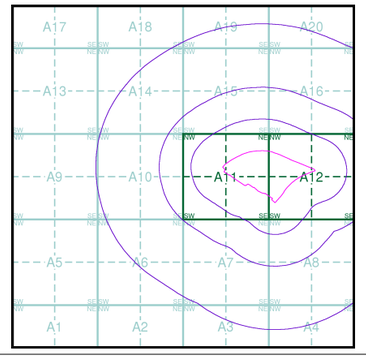
Map Name(s) and Date(s)



Historical Map - Slice A



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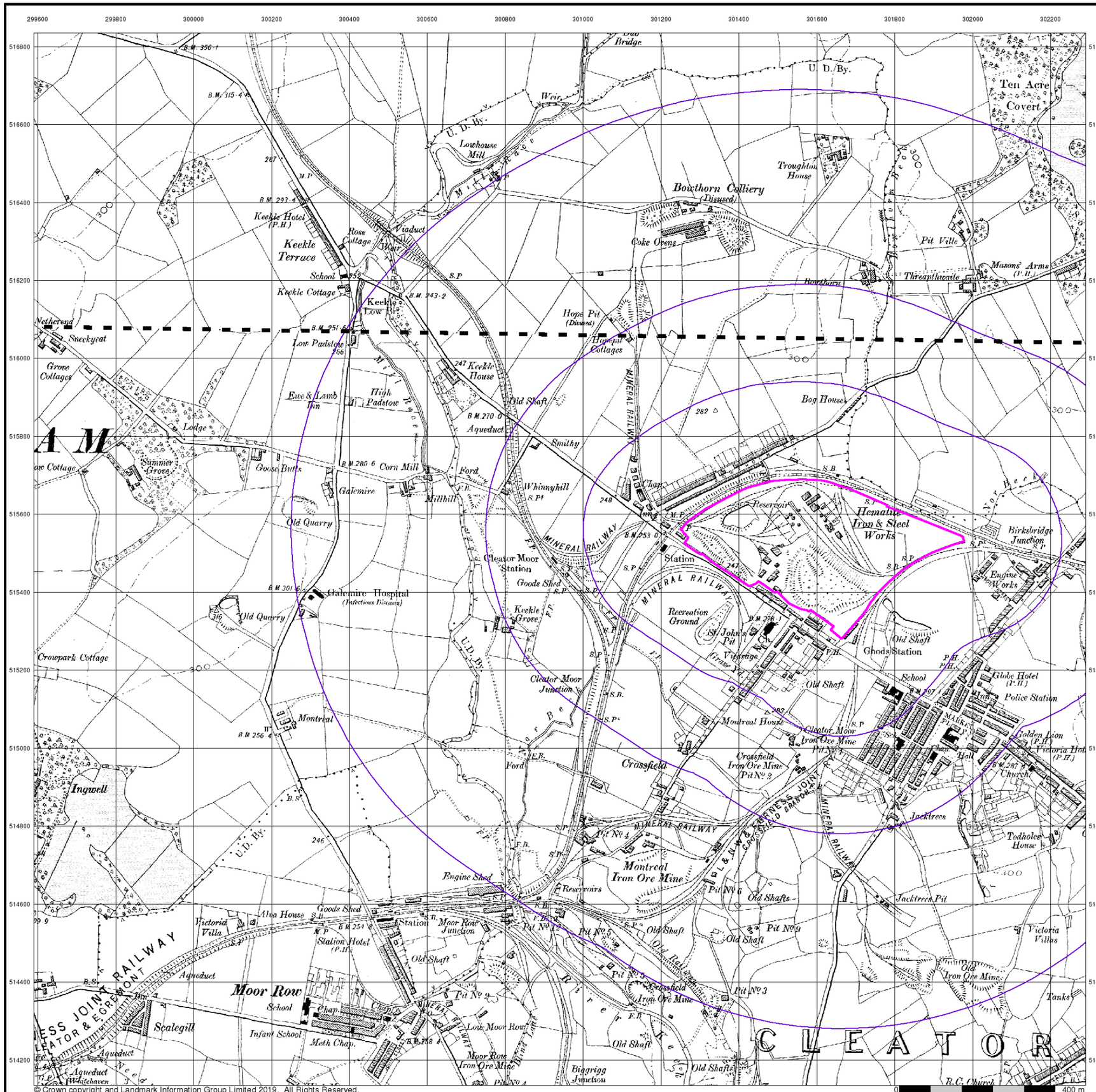

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Cumberland

Published 1900

Source map scale - 1:10,560

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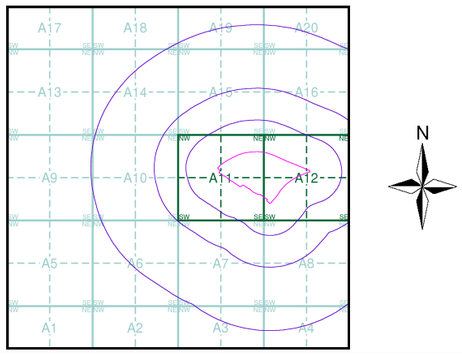
Map Name(s) and Date(s)

067NE
1900
1:10,560

067SE
1900
1:10,560

Historical Map - Slice A



Order Details

Order Number:	224379683_1_1
Customer Ref:	A114312
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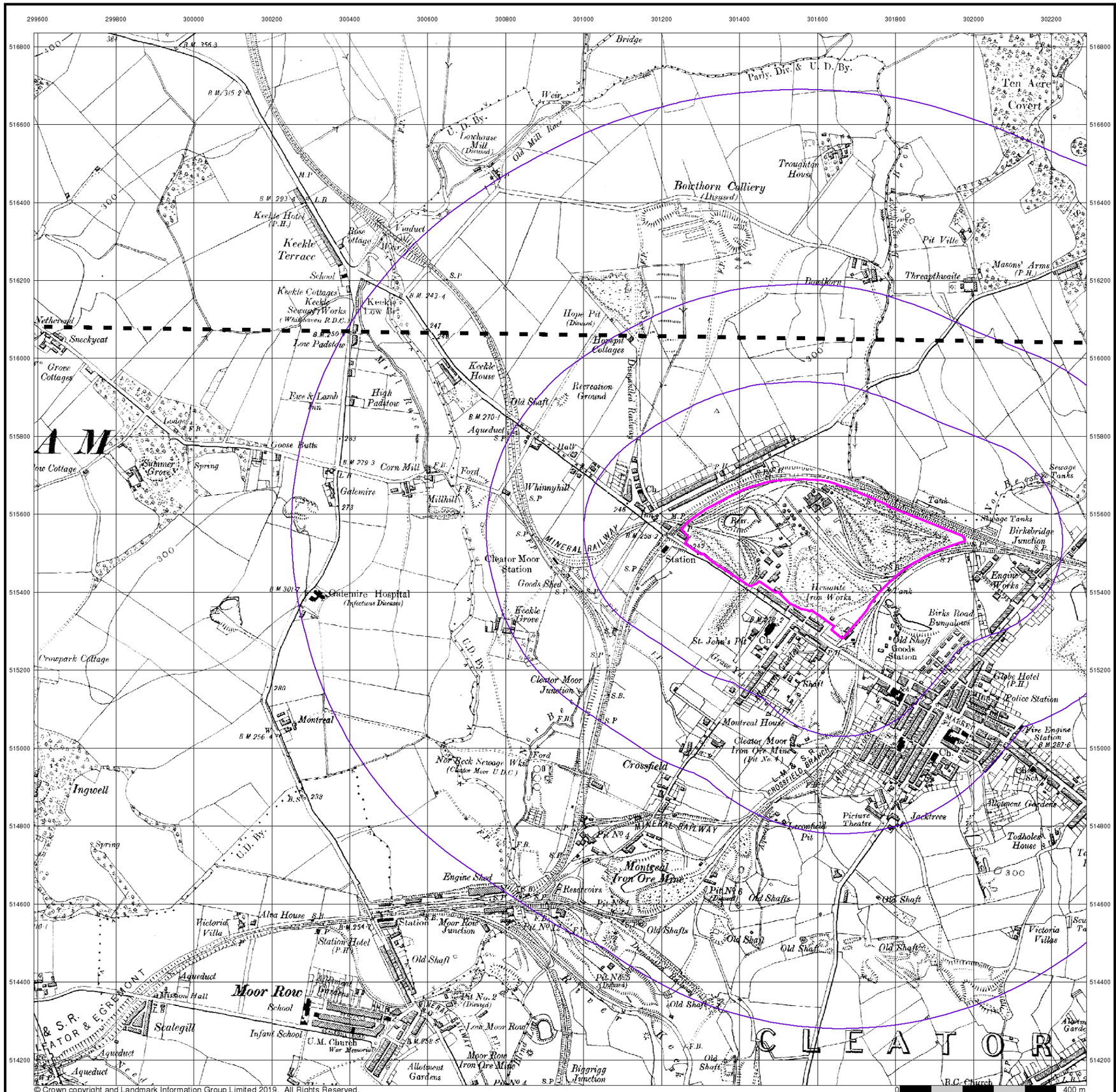

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Cumberland

Published 1926

Source map scale - 1:10,560

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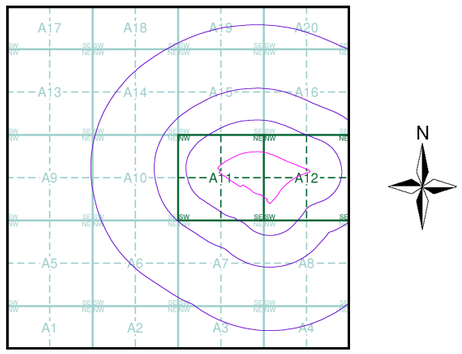
Map Name(s) and Date(s)

067NE
1926
1:10,560

067SE
1926
1:10,560

Historical Map - Slice A



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Slice:	A
Site Area (Ha):	15.46
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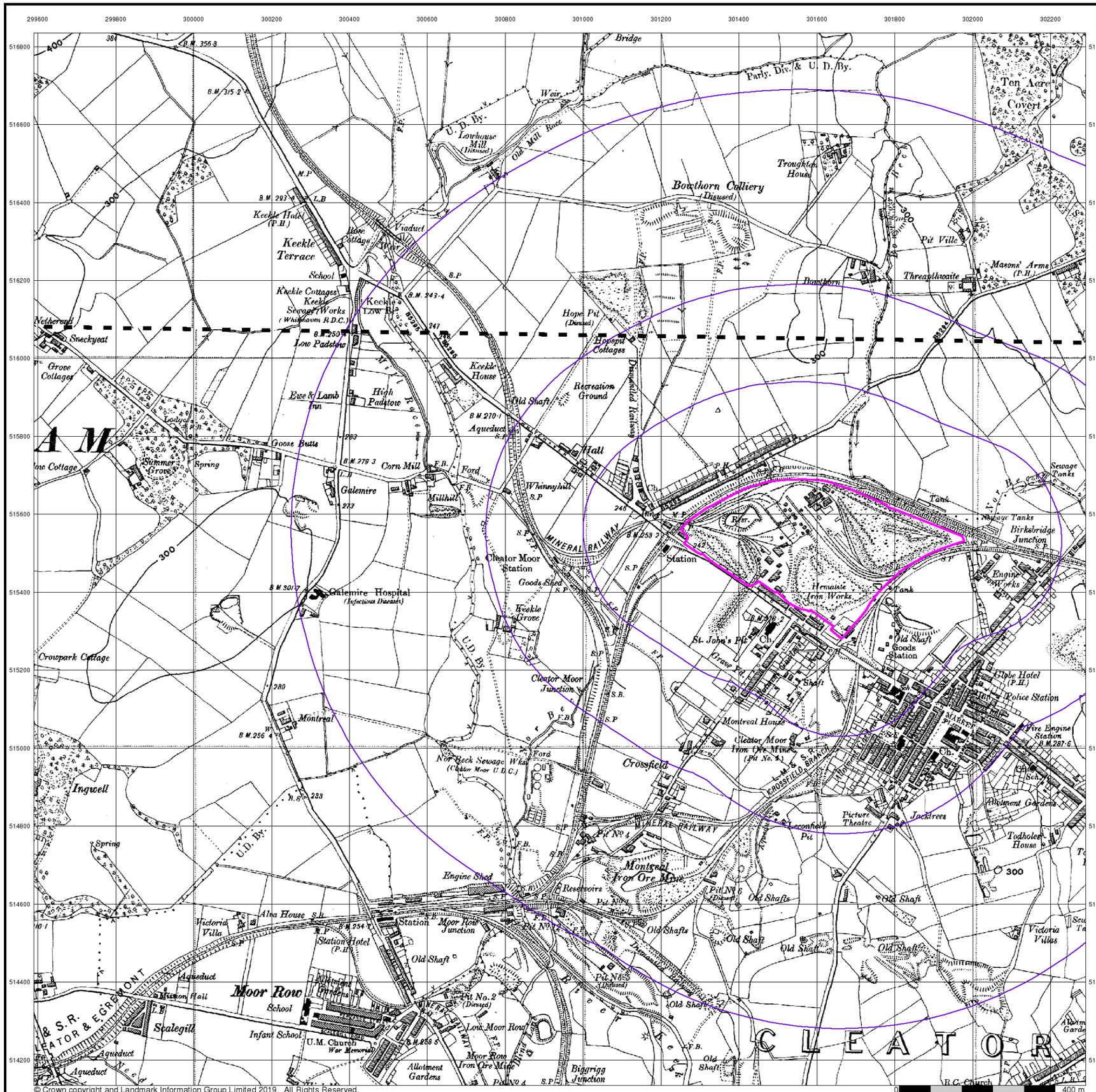

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Cumberland

Published 1938

Source map scale - 1:10,560

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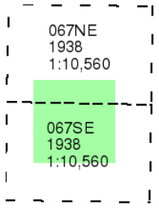
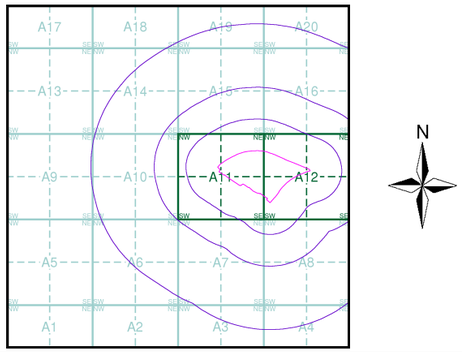
Map Name(s) and Date(s)



Historical Map - Slice A



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Customer Ref:	A114312
National Grid Reference:	301380, 515510
Slice:	A
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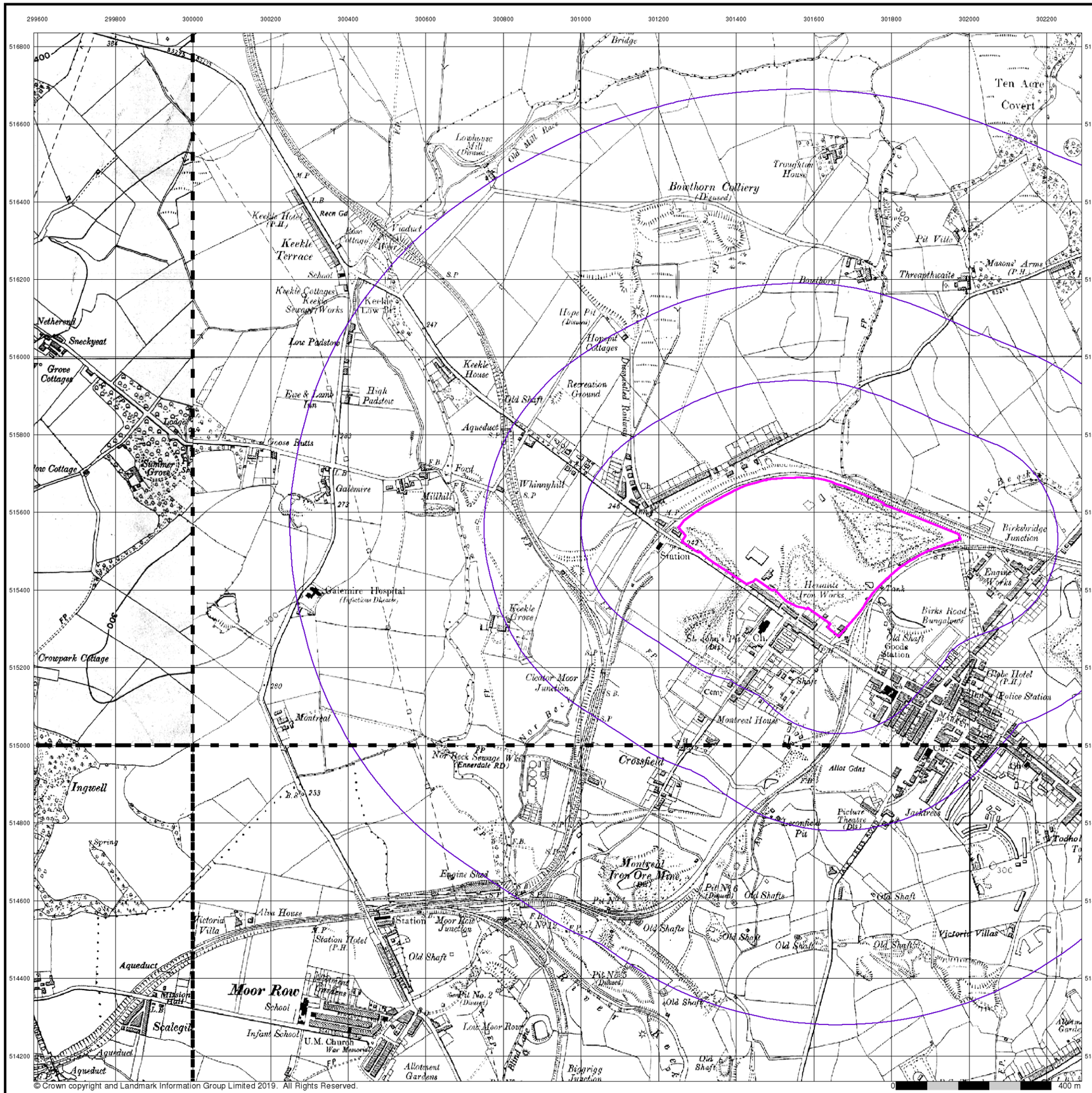


Ordnance Survey Plan

Published 1956 - 1957

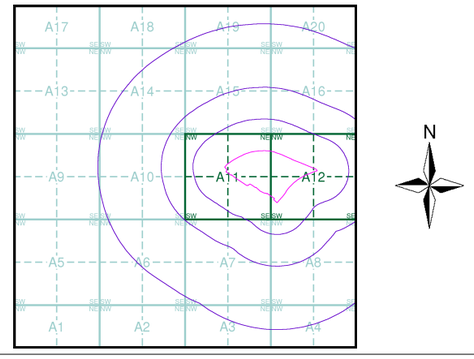
Source map scale - 1:10,000

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 1957 1:10,560	NY01NW 1957 1:10,560
NX91SE 1957 1:10,560	NY01SW 1956 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
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Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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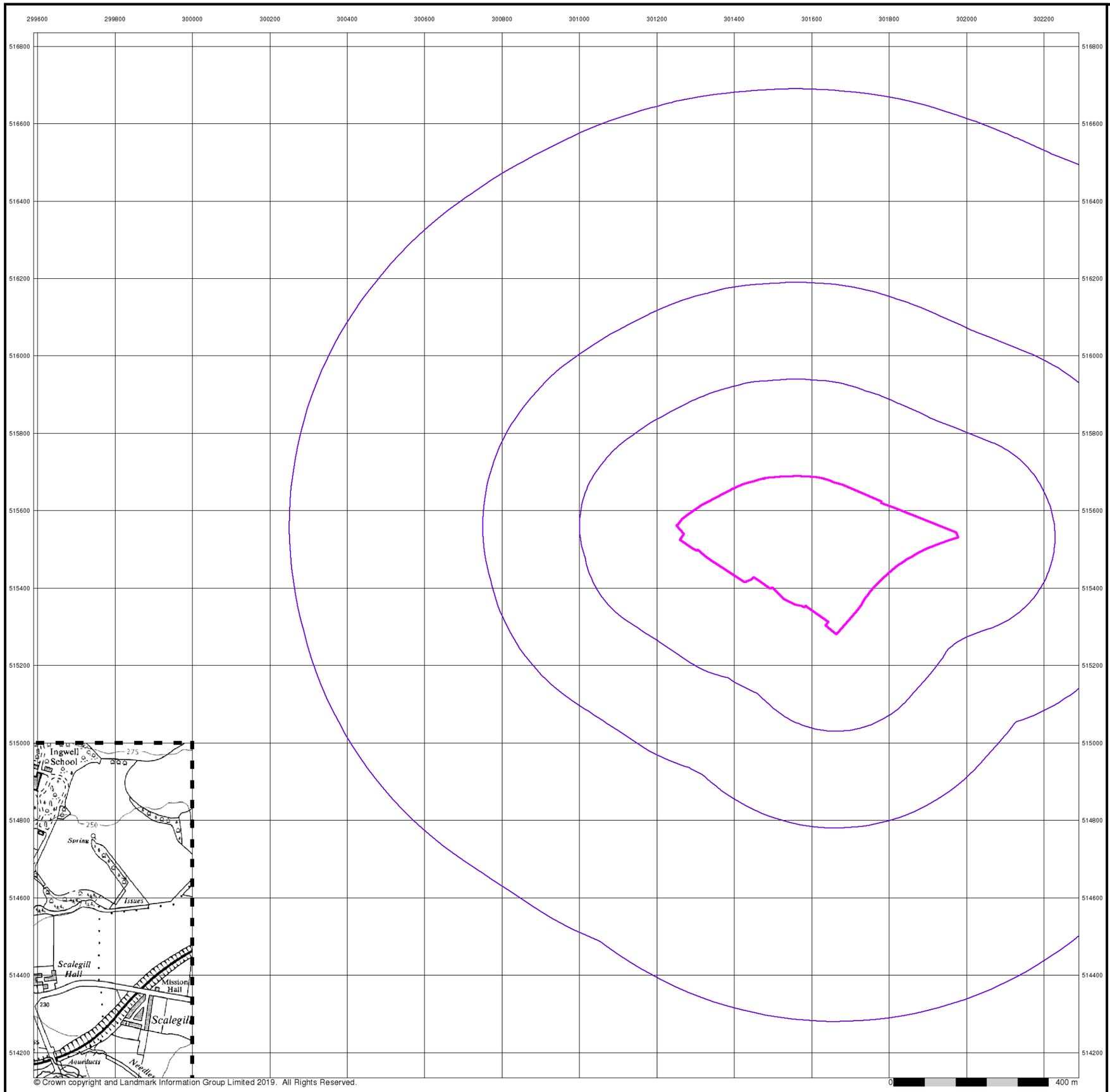

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Ordnance Survey Plan

Published 1967

Source map scale - 1:10,000

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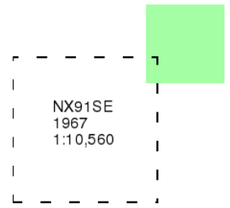
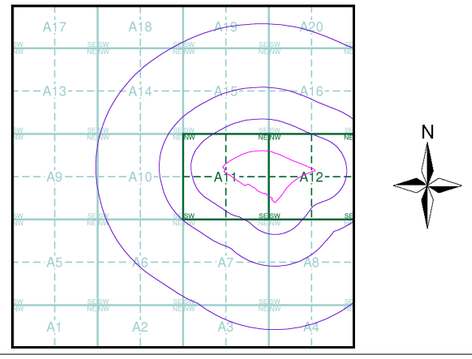
Map Name(s) and Date(s)



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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Site Details

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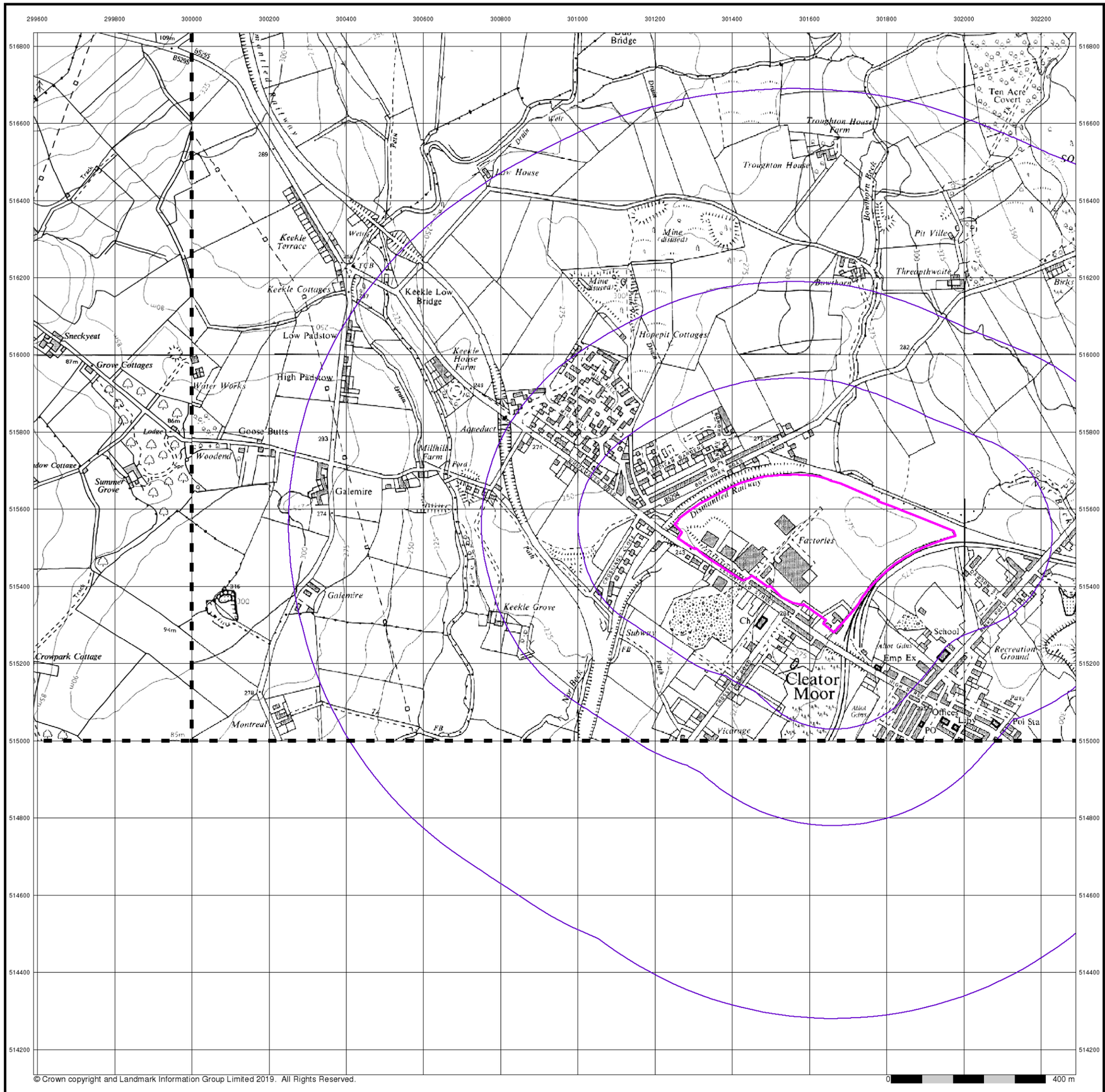

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Ordnance Survey Plan

Published 1971 - 1979

Source map scale - 1:10,000

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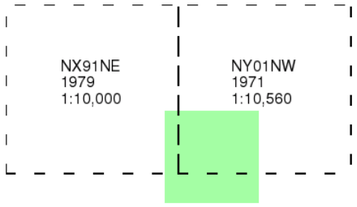
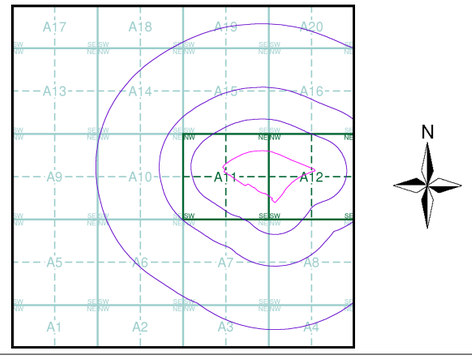
Map Name(s) and Date(s)



Historical Map - Slice A



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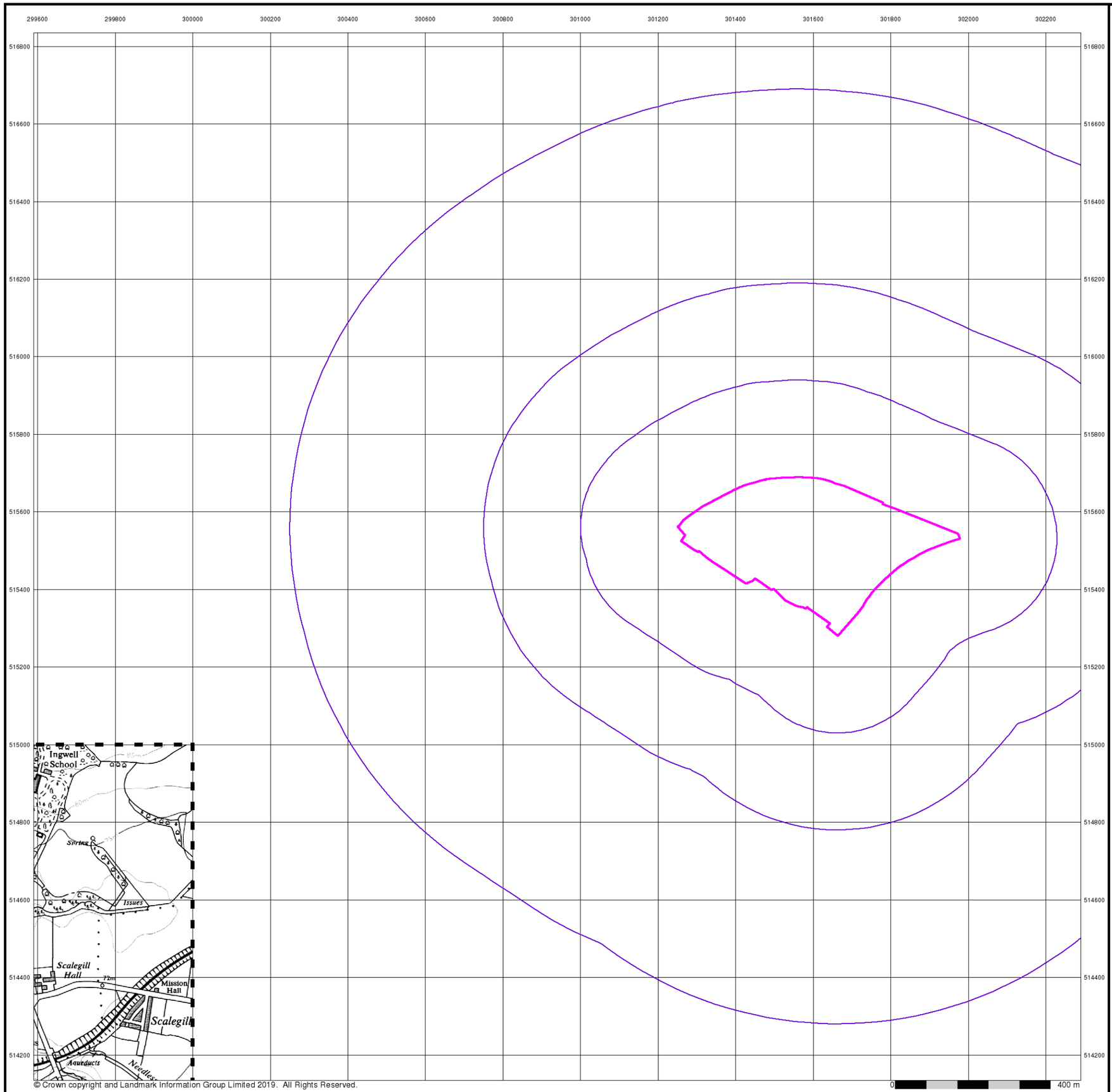

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Ordnance Survey Plan

Published 1988

Source map scale - 1:10,000

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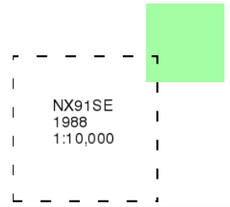
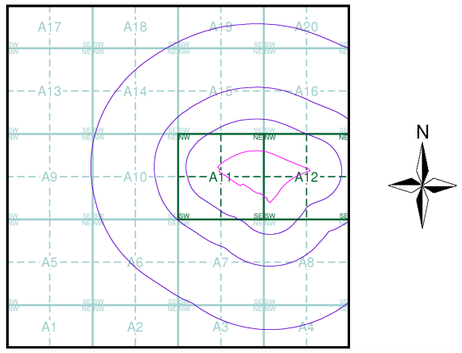
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Slice:	A
Site Area (Ha):	15.46
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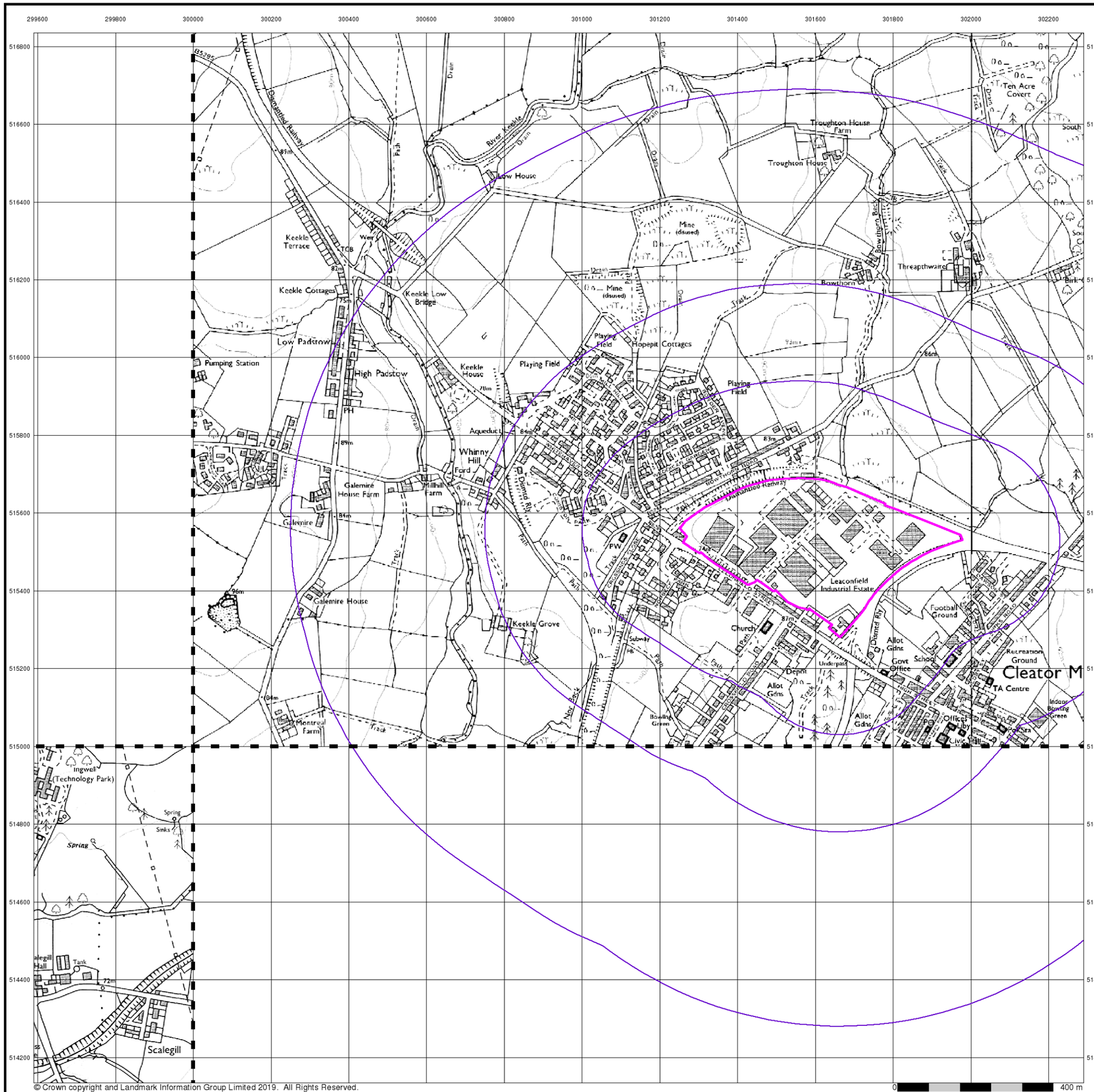

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Ordnance Survey Plan

Published 1993

Source map scale - 1:10,000

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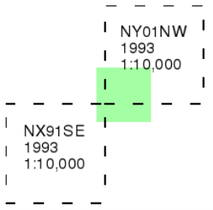
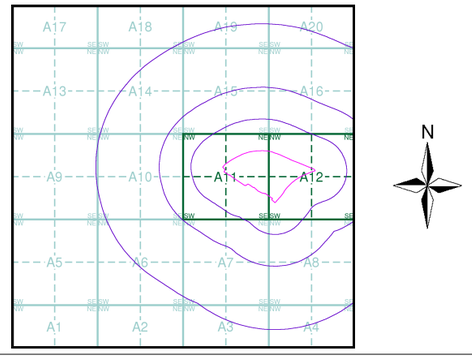
Map Name(s) and Date(s)



Historical Map - Slice A



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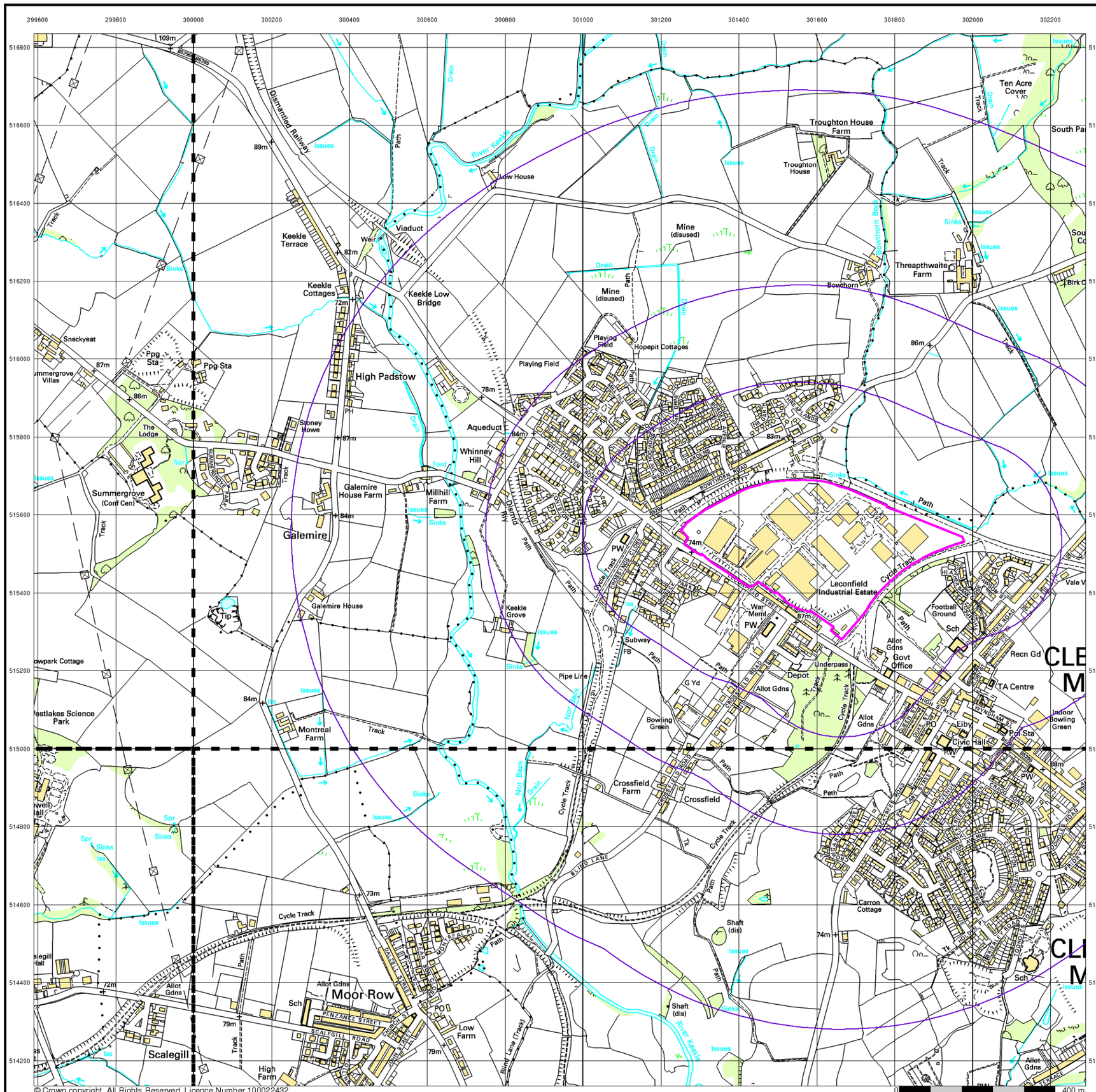

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10k Raster Mapping

Published 2000

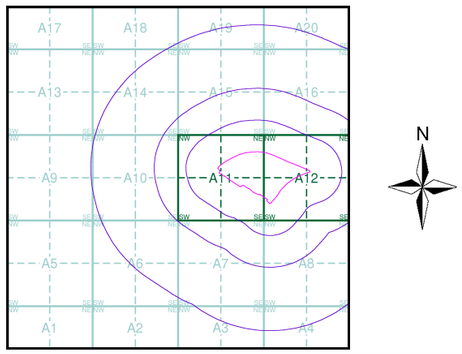
Source map scale - 1:10,000

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

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
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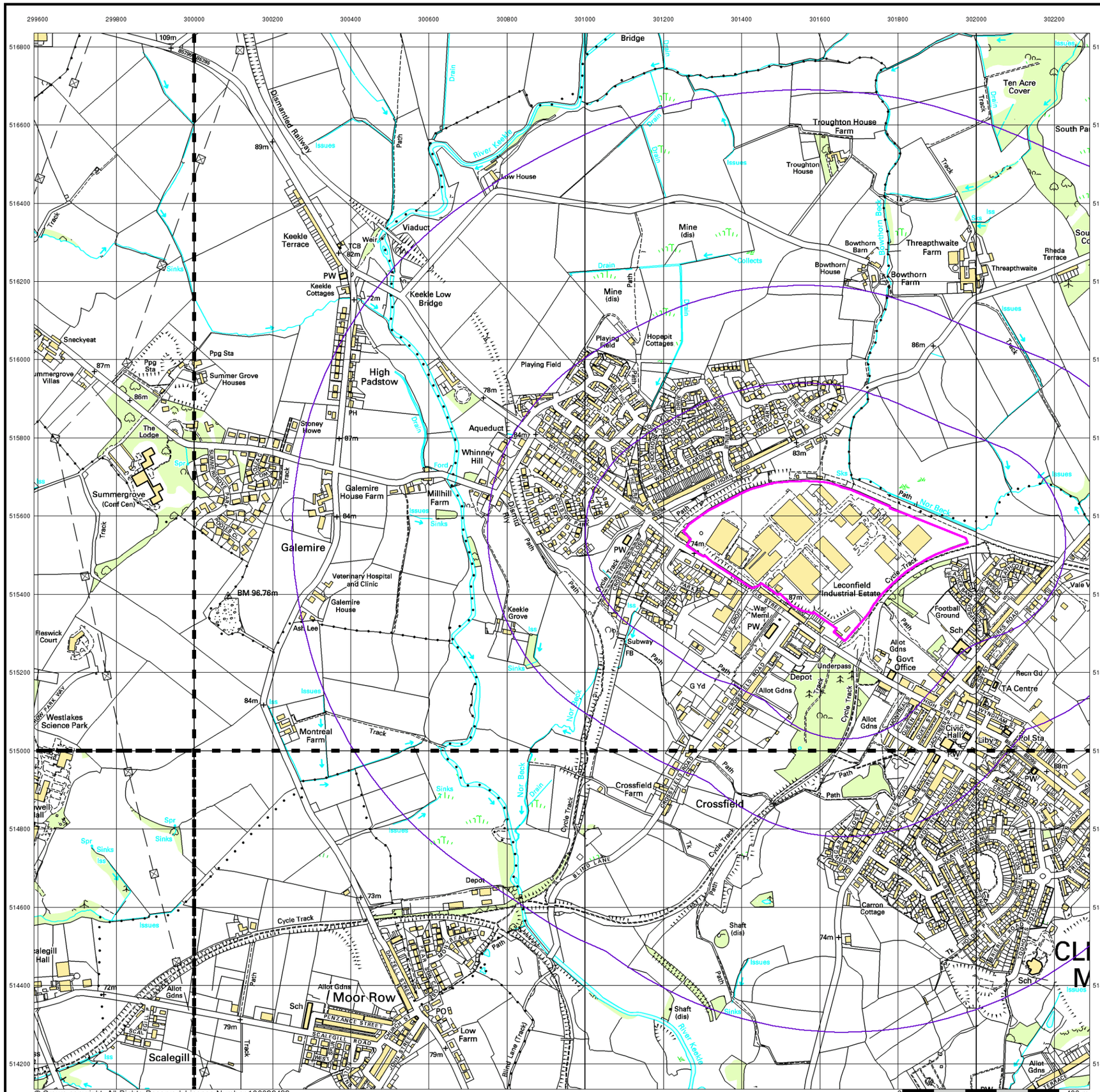


10k Raster Mapping

Published 2006

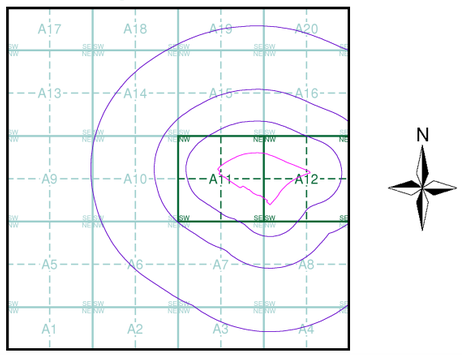
Source map scale - 1:10,000

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

Historical Map - Slice A



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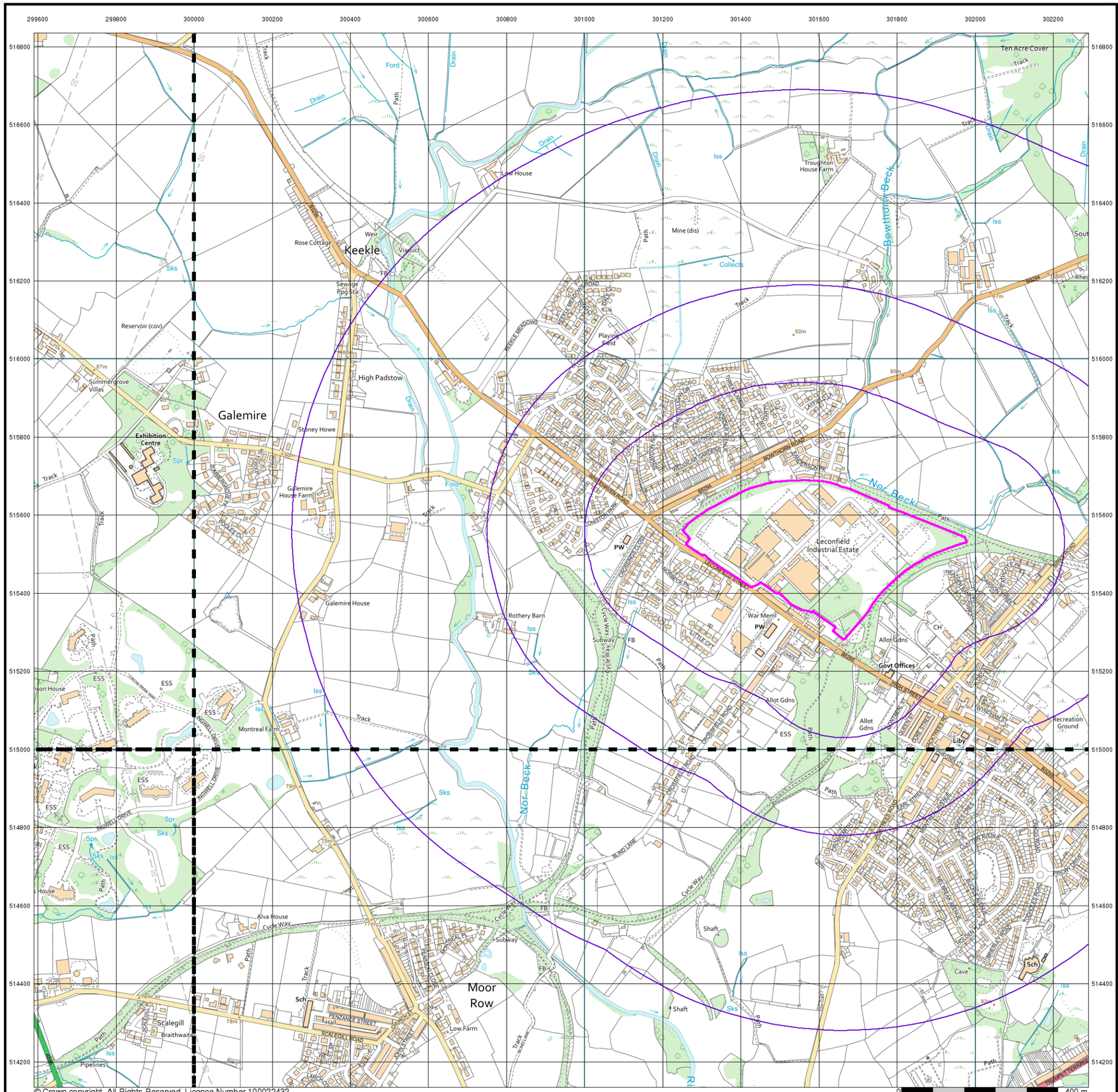


VectorMap Local

Published 2019

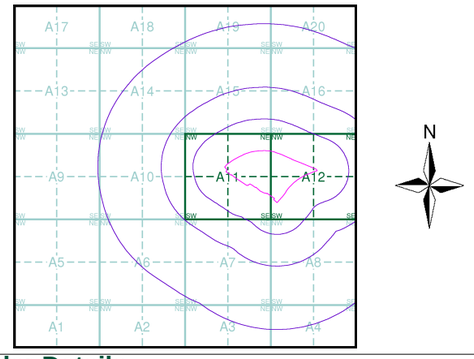
Source map scale - 1:10,000

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 2019 Variable	NY01NW 2019 Variable
NX91SE 2019 Variable	NY01SW 2019 Variable

Historical Map - Slice A



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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
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

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

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

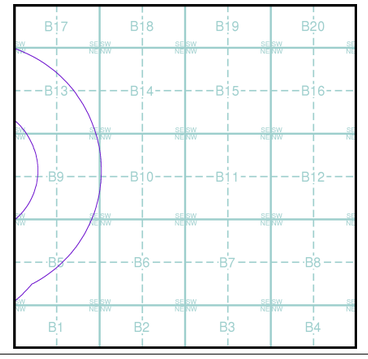
1:10,000 Raster Mapping

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

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
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Site Area (Ha): 15.46
Search Buffer (m): 1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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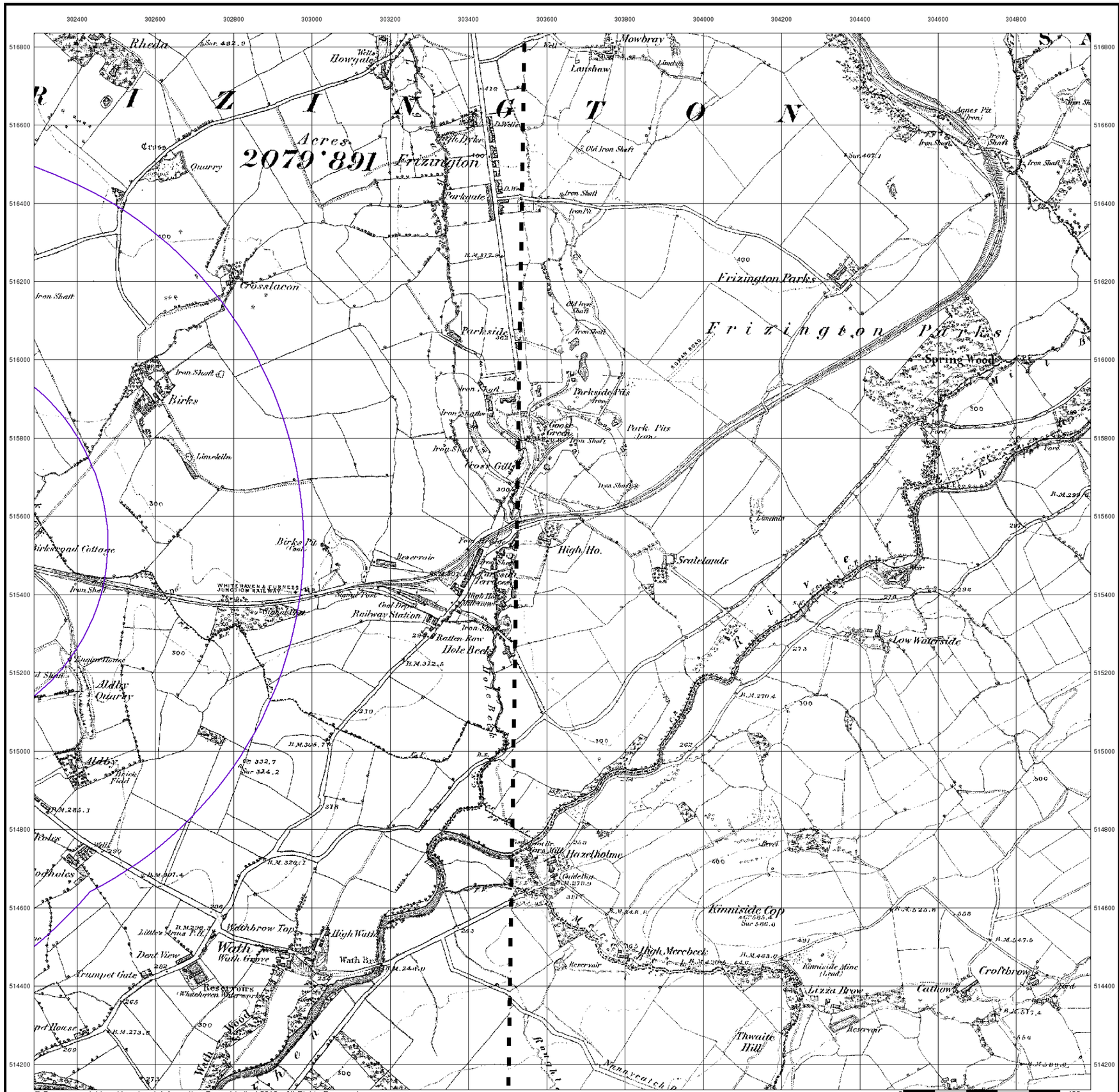

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Cumberland

Published 1867

Source map scale - 1:10,560

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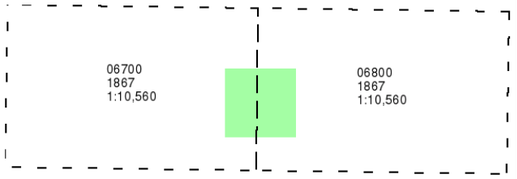
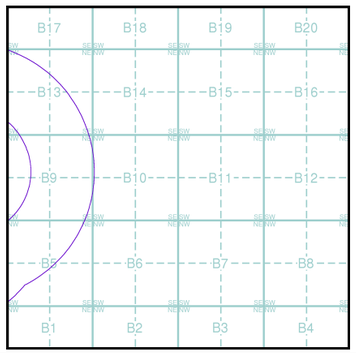
Map Name(s) and Date(s)



Historical Map - Slice B



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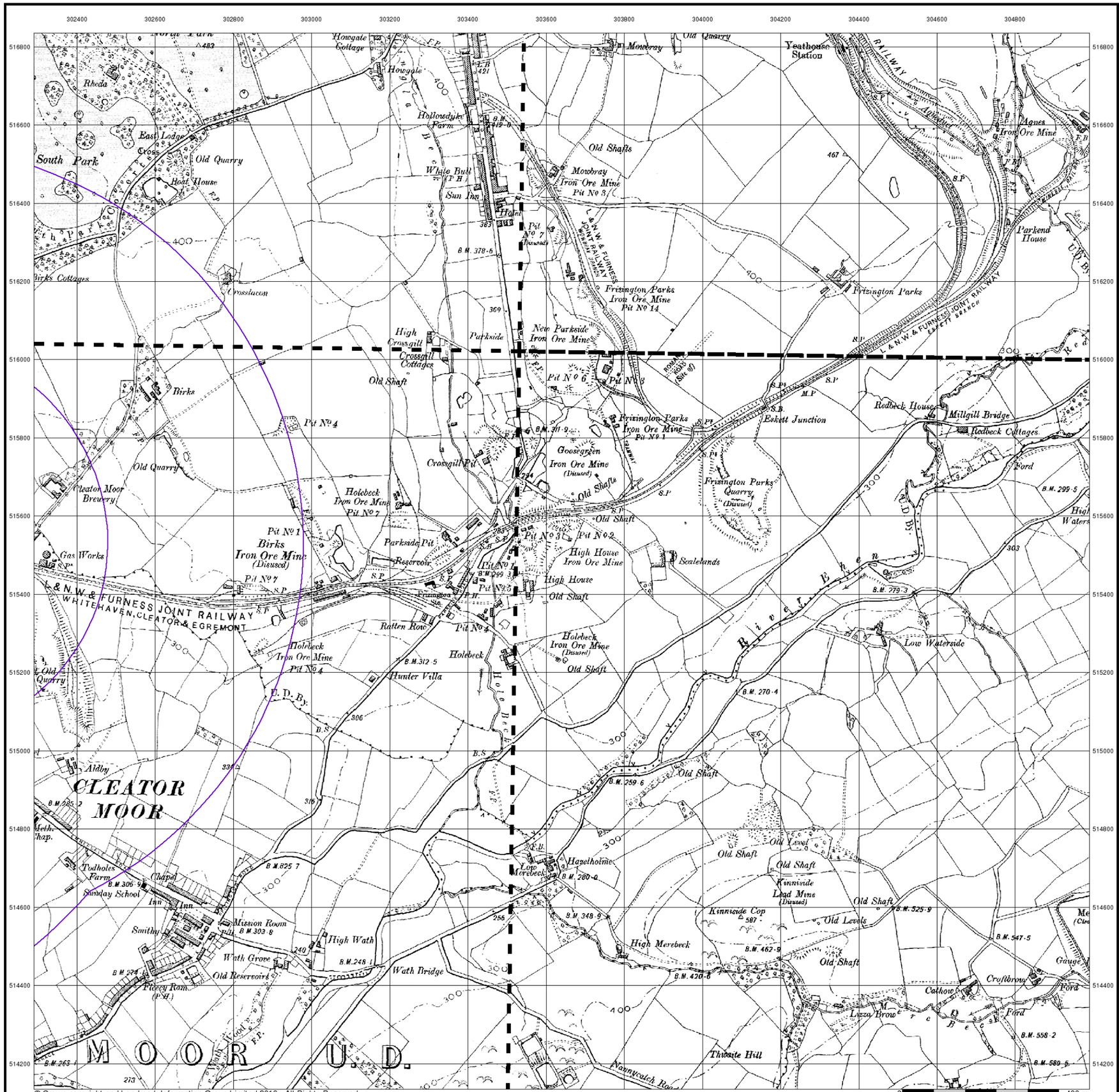

Cumberland

Published 1900

Source map scale - 1:10,560

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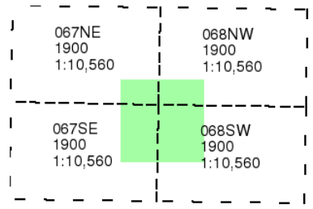
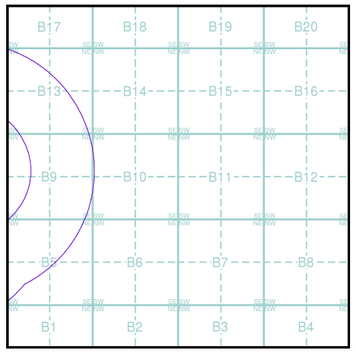


Historical Map - Slice B



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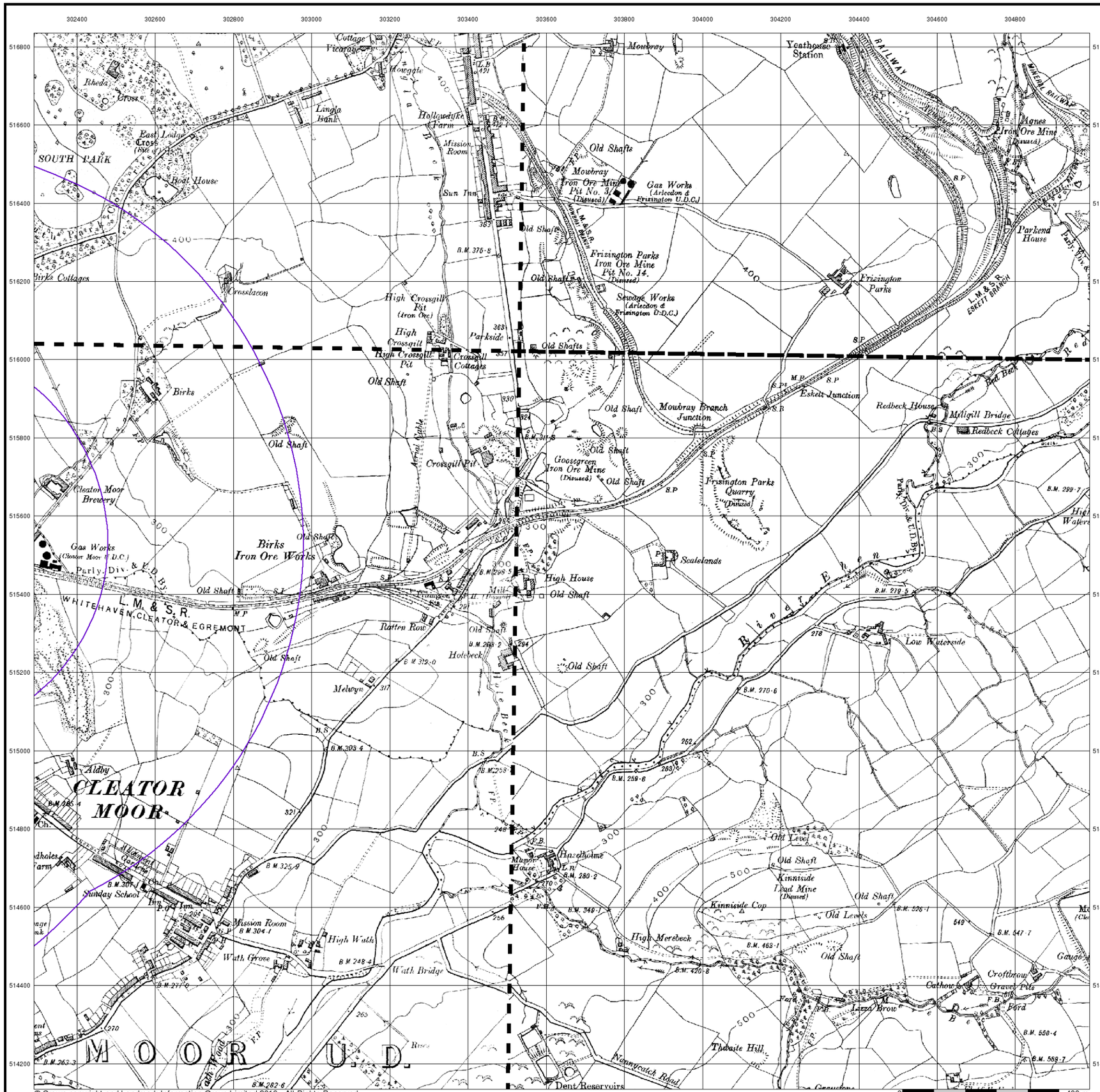

Cumberland

Published 1926

Source map scale - 1:10,560

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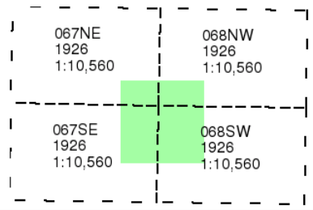
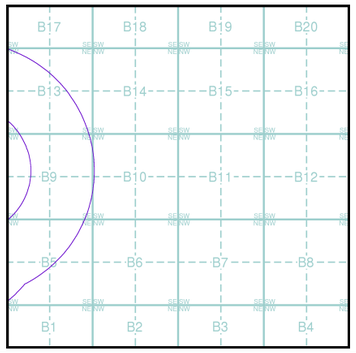


Historical Map - Slice B



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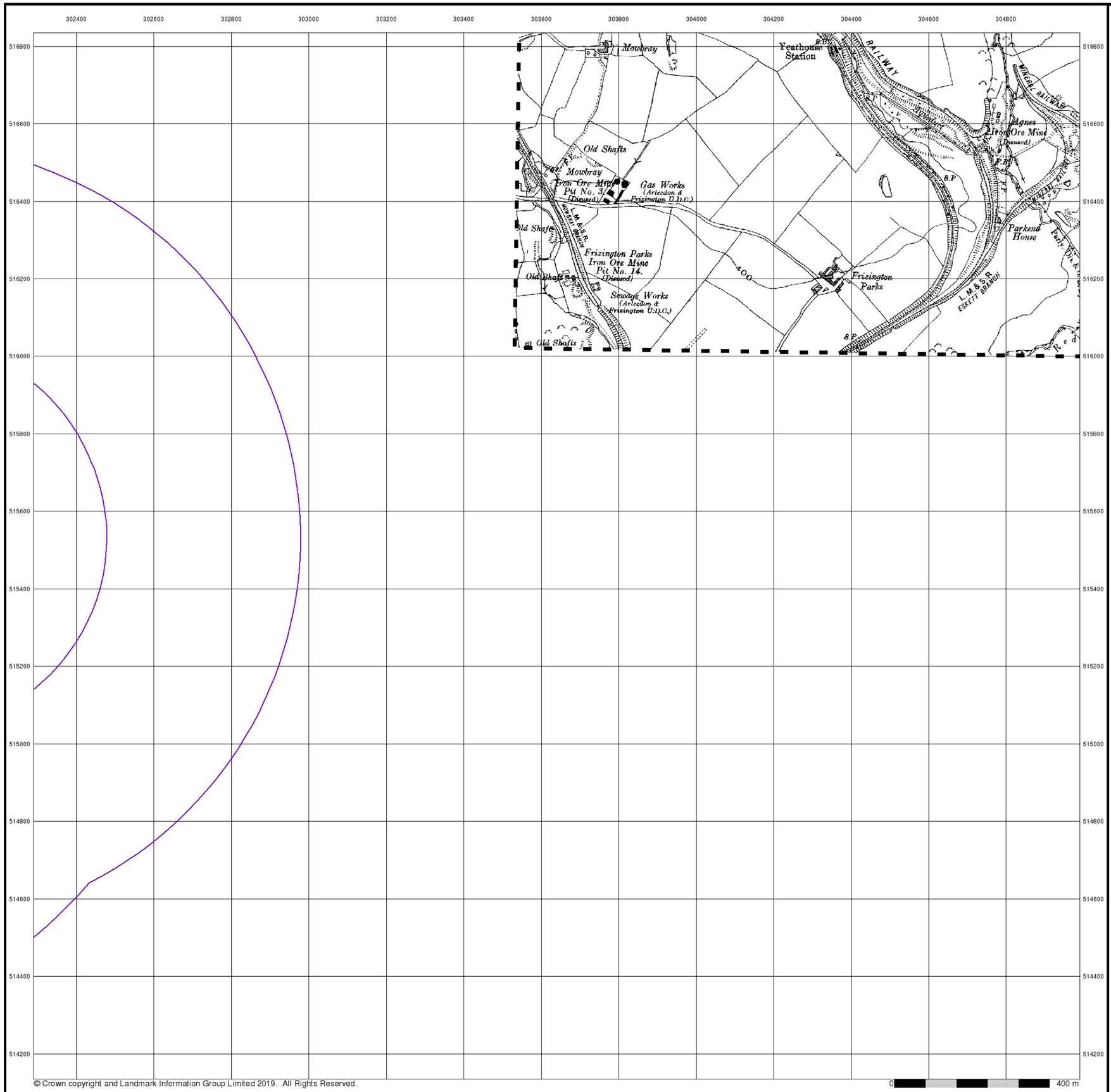

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0 400 m

Cumberland

Published 1926

Source map scale - 1:10,560

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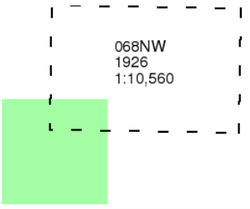
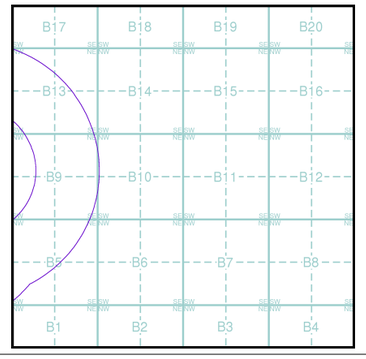


Historical Map - Slice B



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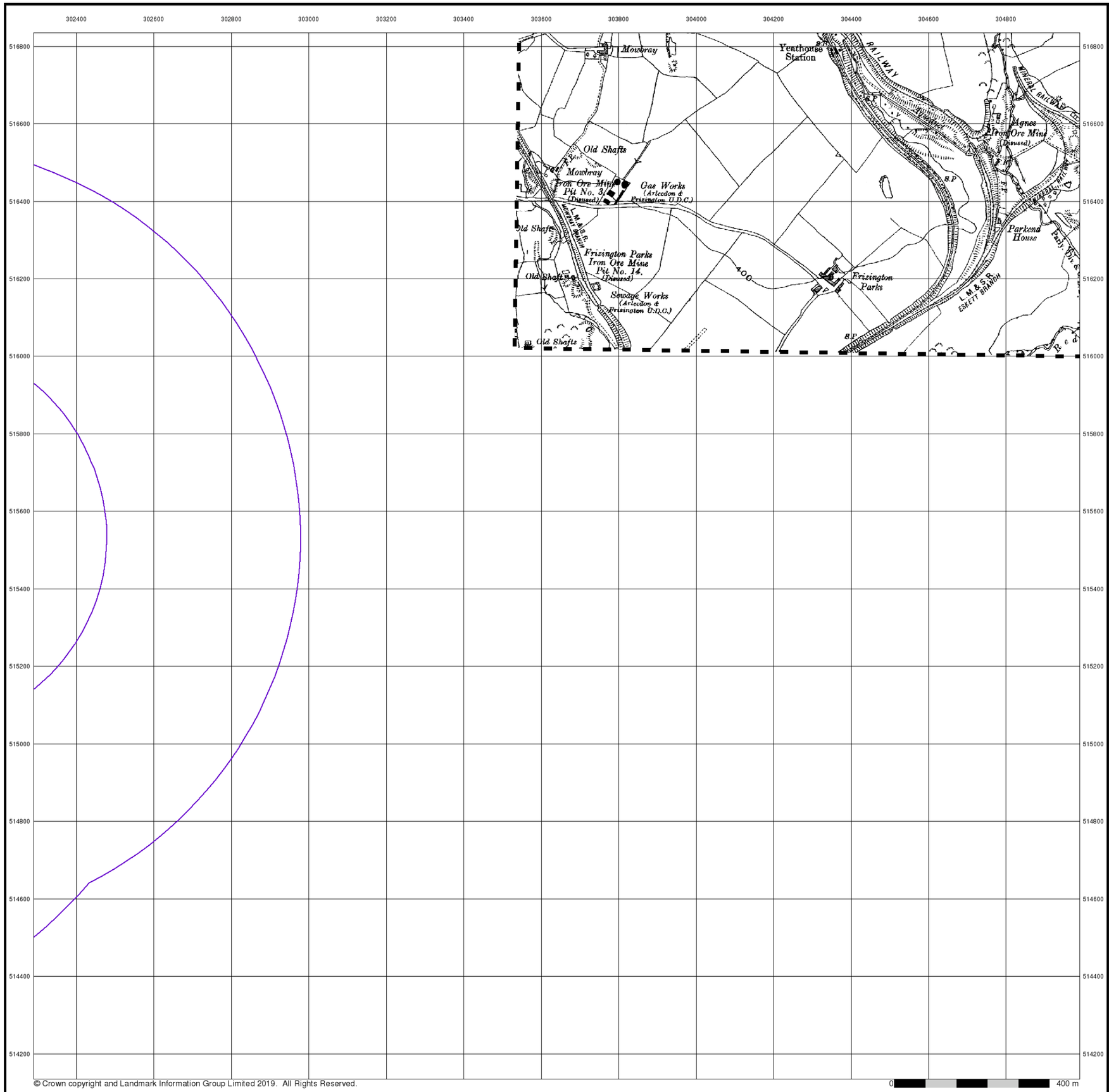

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Cumberland

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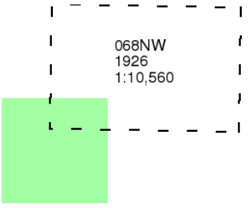
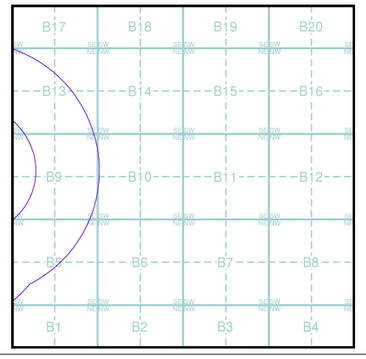


Historical Map - Slice B



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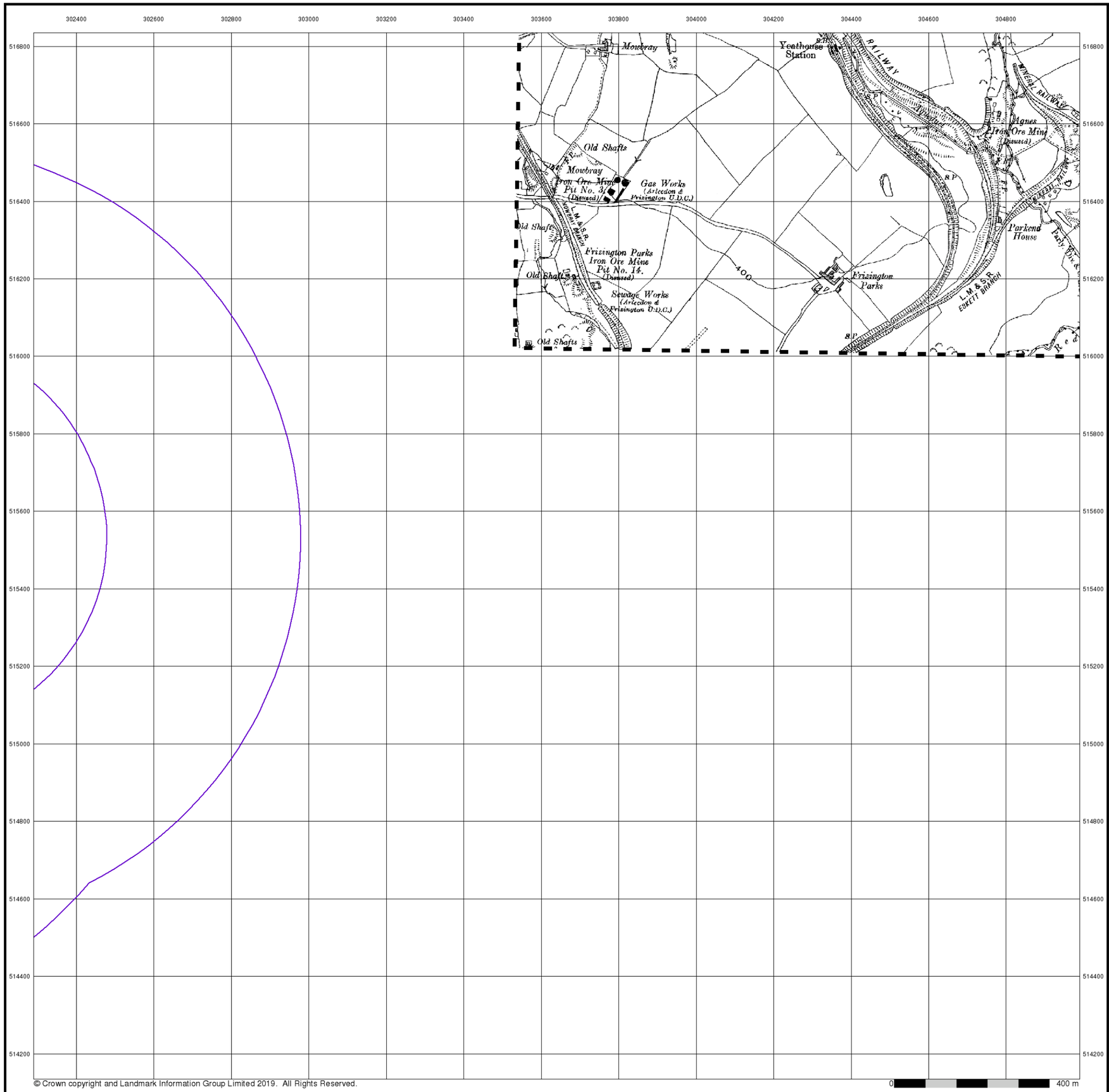

Cumberland

Published 1926

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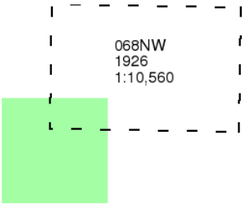

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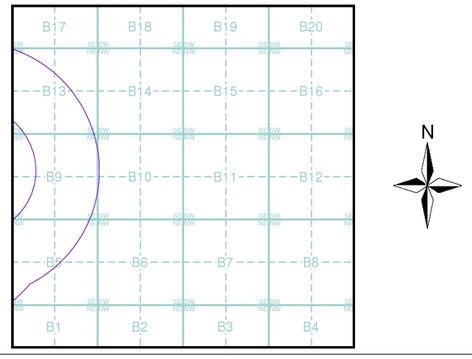

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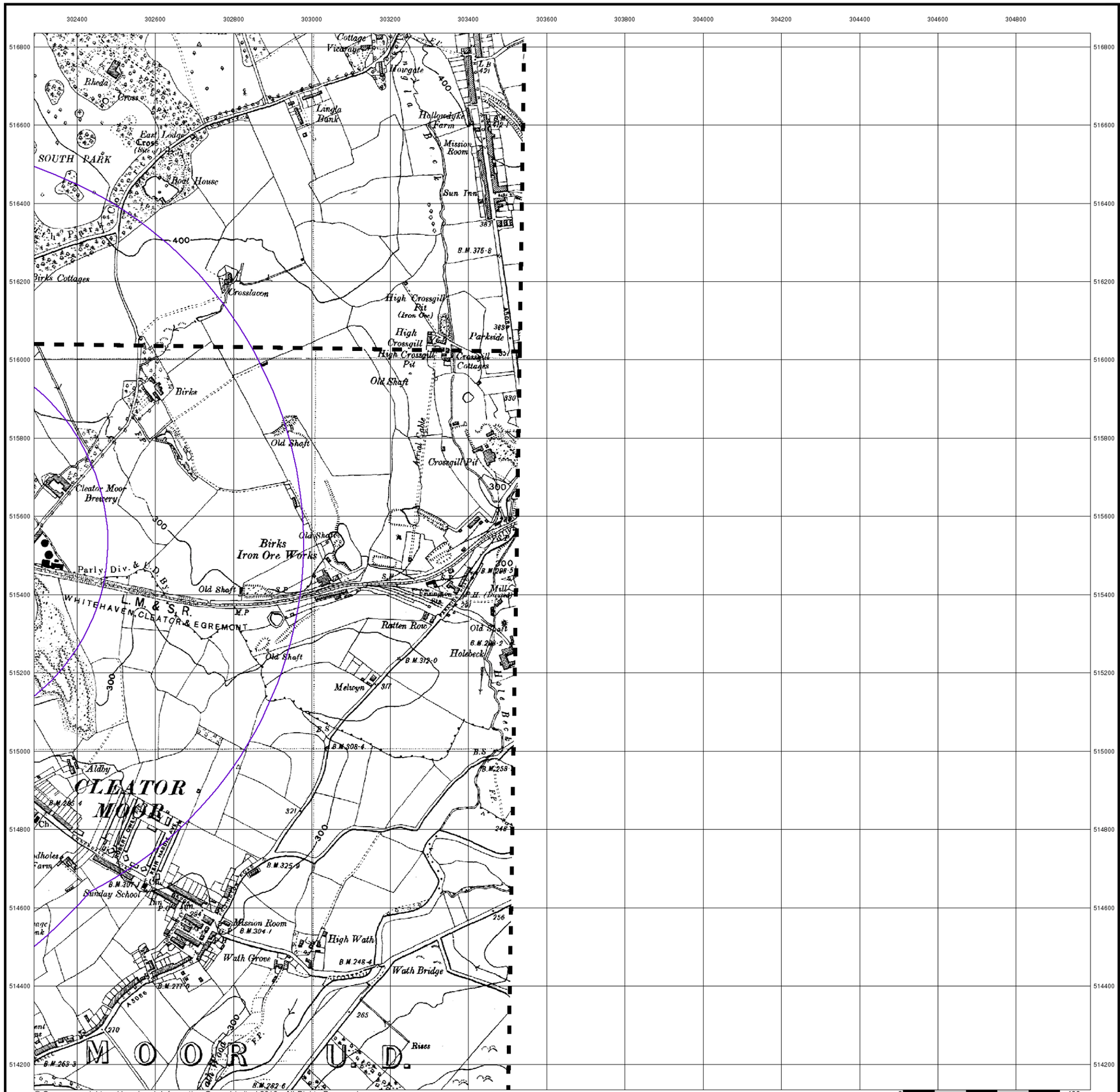
National Grid Reference:	302570, 515530
Slice:	B
Site Area (Ha):	15.46
Search Buffer (m):	1000

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



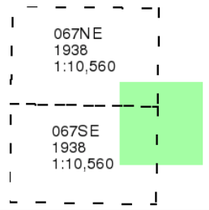
Cumberland

Published 1938

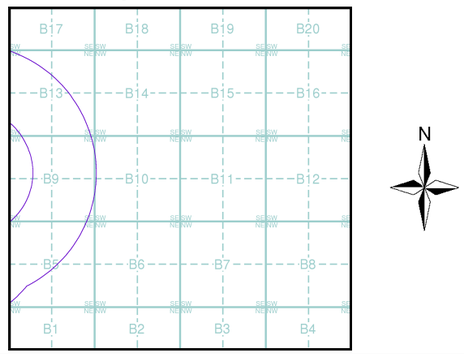
Source map scale - 1:10,560

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 B



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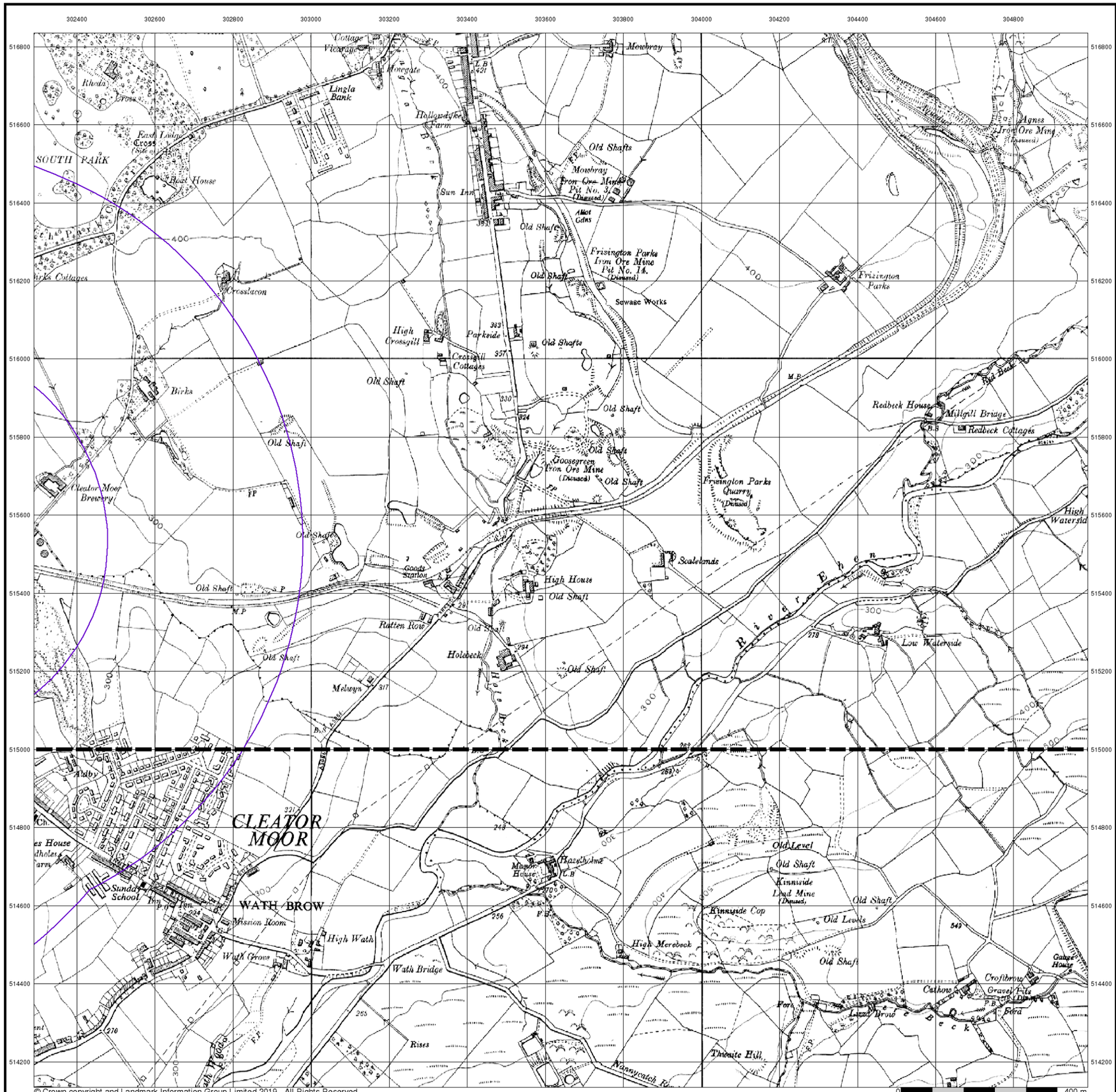

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Ordnance Survey Plan

Published 1956 - 1957

Source map scale - 1:10,000

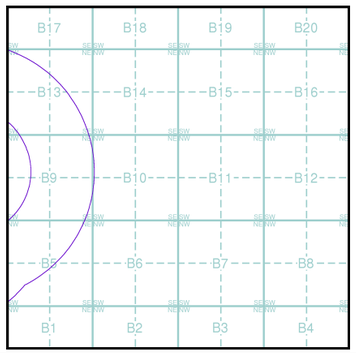
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

NY01NW
1957
1:10,560

NY01SW
1956
1:10,560

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
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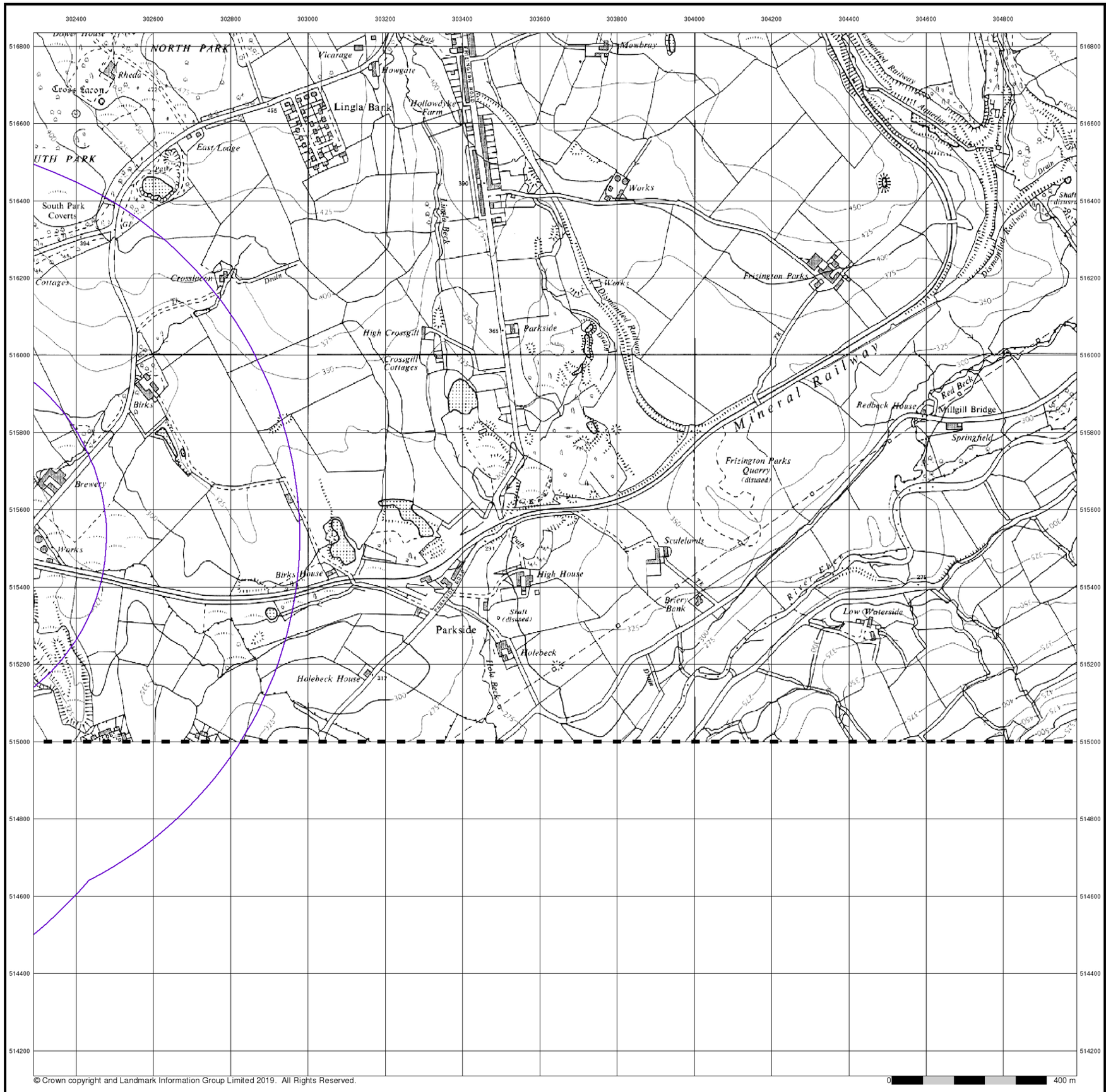

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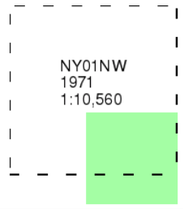
Ordnance Survey Plan

Published 1971

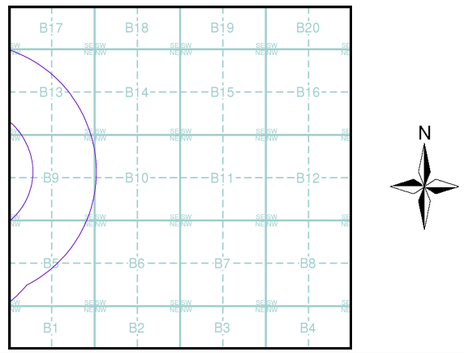
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

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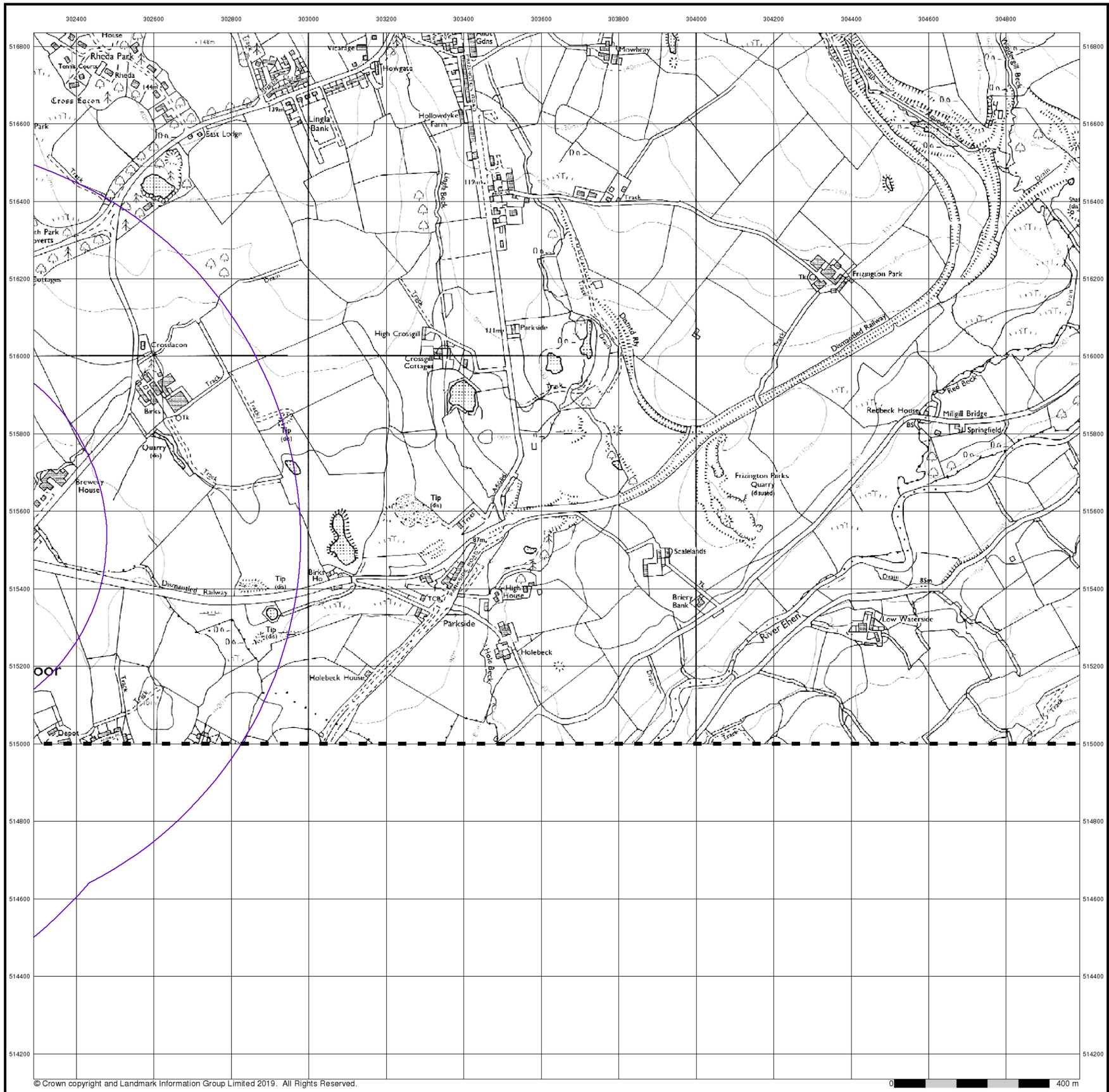


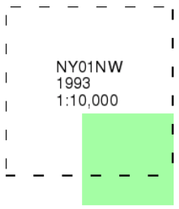
Ordnance Survey Plan

Published 1993

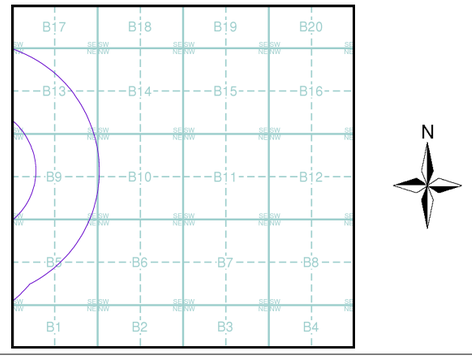
Source map scale - 1:10,000

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 B



Order Details

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Customer Ref:	A114312
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Slice:	B
Site Area (Ha):	15.46
Search Buffer (m):	1000

Site Details

Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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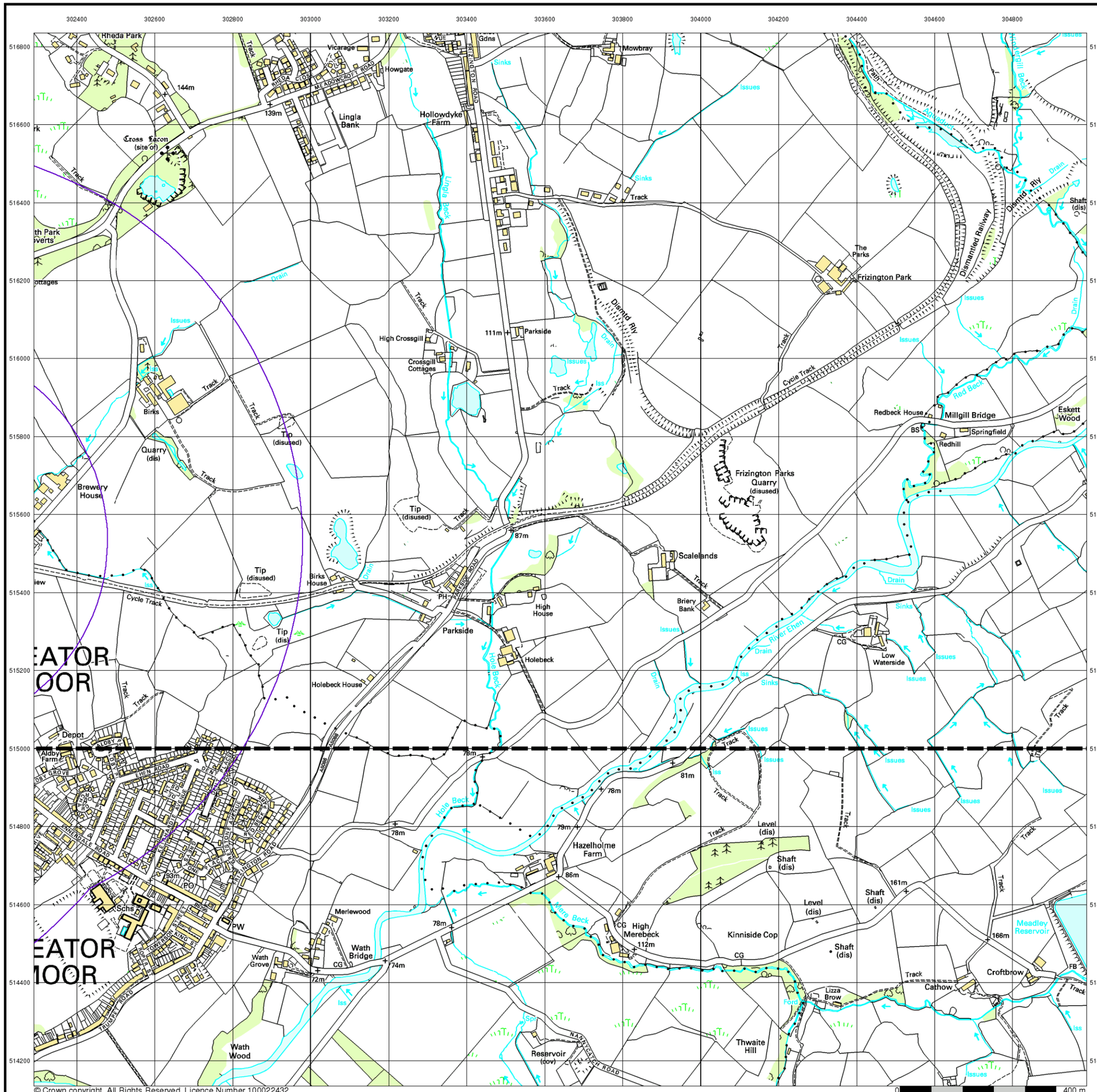


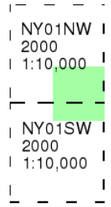
10k Raster Mapping

Published 2000

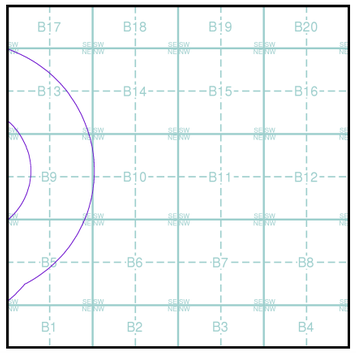
Source map scale - 1:10,000

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



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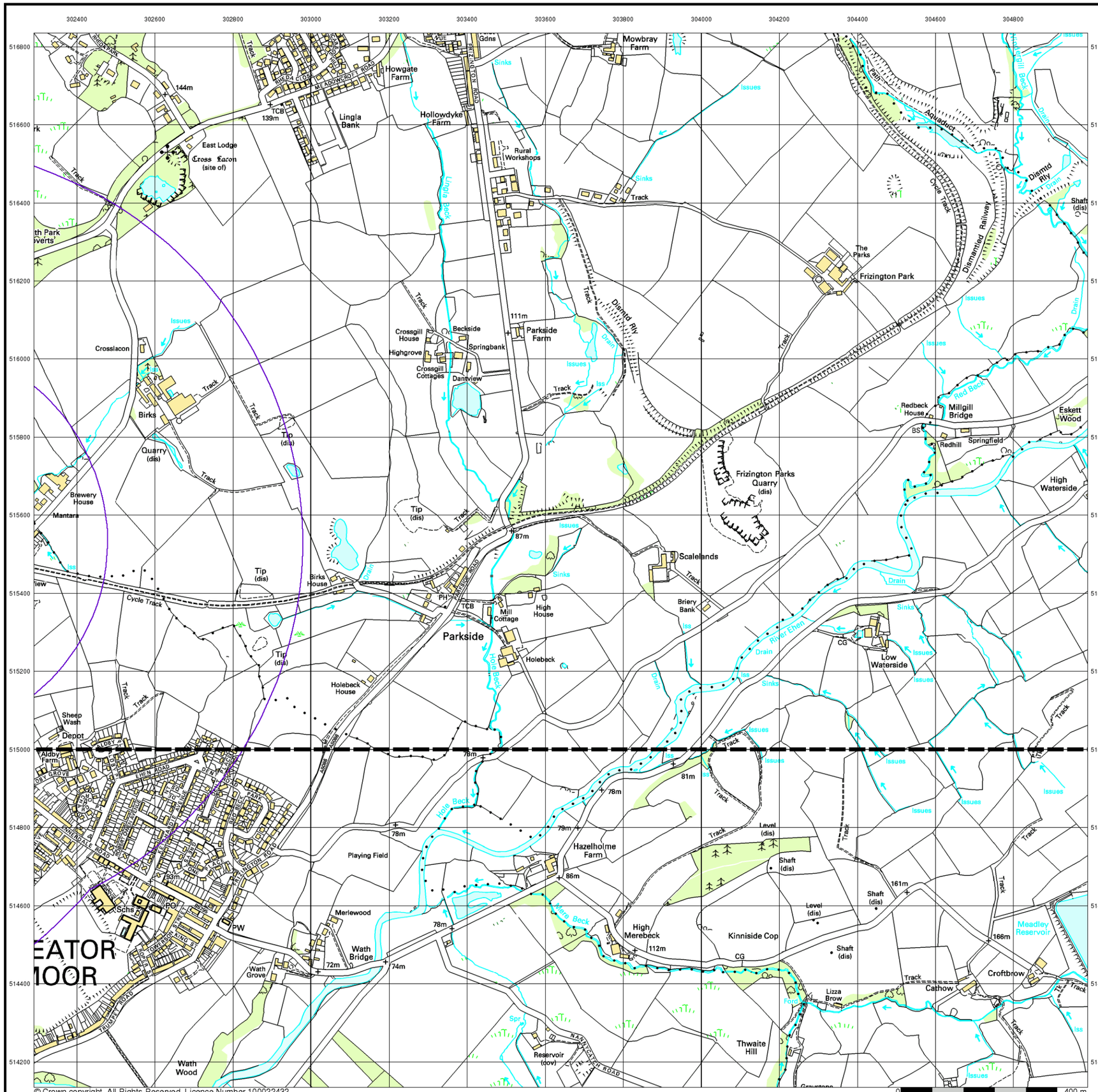

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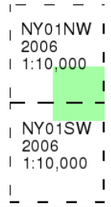
10k Raster Mapping

Published 2006

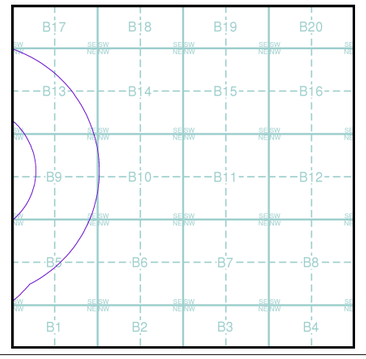
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice 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

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Leconfield Industrial Estate, CLEATOR MOOR, CA25 5QQ

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Tel: 0844 844 9952
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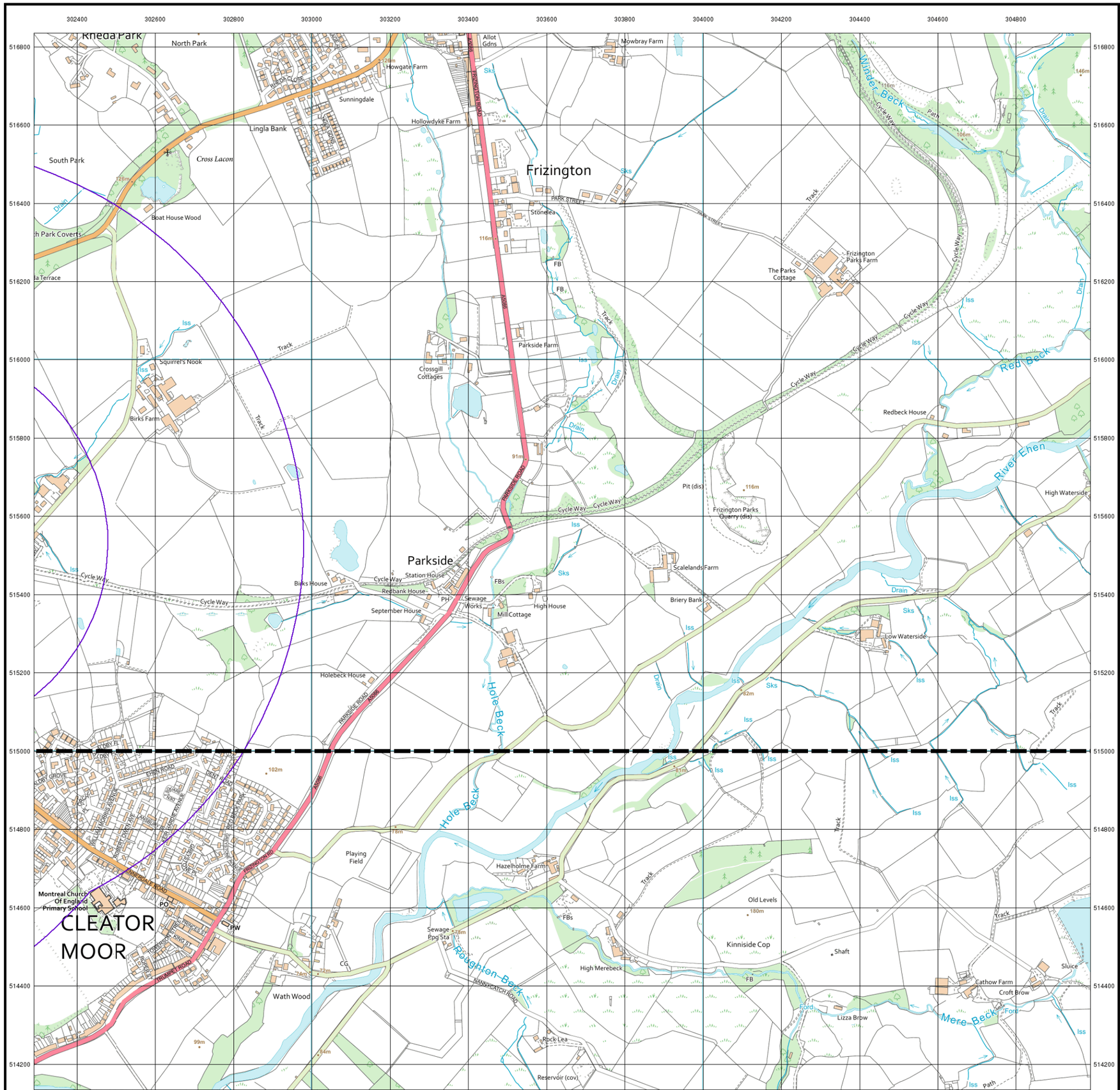


VectorMap Local

Published 2019

Source map scale - 1:10,000

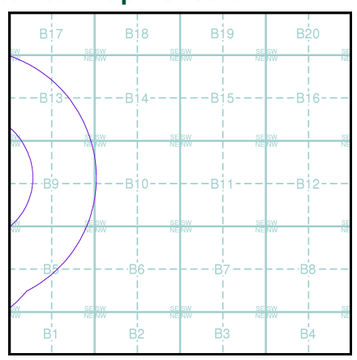
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap 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



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Site Area (Ha):	15.46
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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

Appendix D – Coal Mining Reports

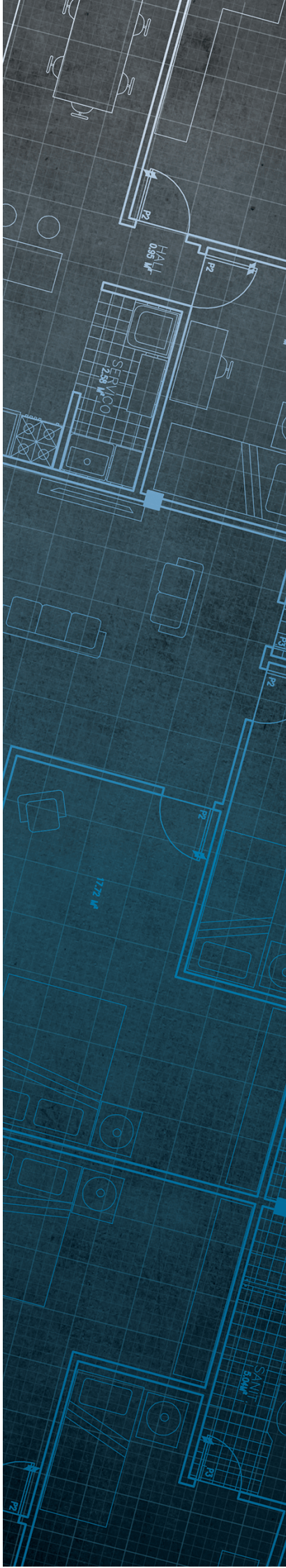
The Coal Authority

Consultants

Coal Mining Report

1a Leconfield Industrial Estate
Cleator Moor
Cumbria
CA25 5QE

Date of enquiry:	**13 November 2019**
Date enquiry received:	**13 November 2019**
Issue date:	**13 November 2019**
Our reference:	**51002189488002**
Your reference:	**Leconfireld Industrial Estate**



Consultants

Coal Mining Report

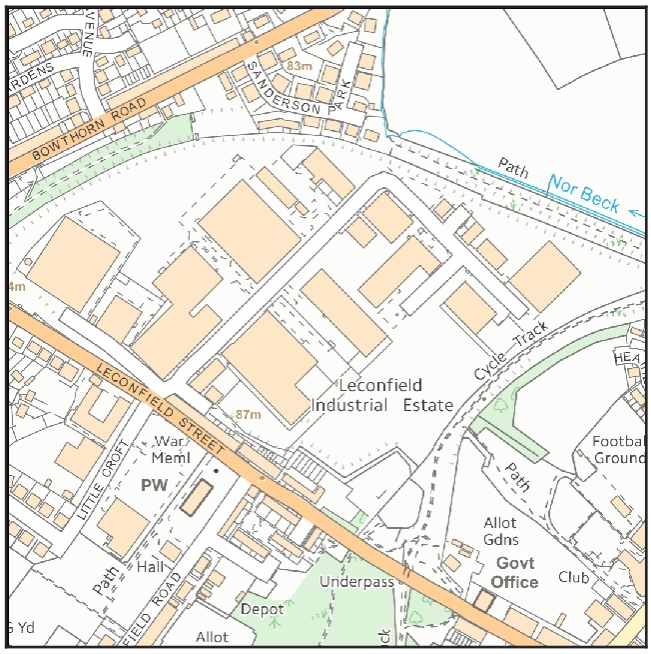
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

Martin Stronach

Enquiry address

1a Leconfield Industrial Estate
Cleator Moor
Cumbria
CA25 5QE



Approximate position of property

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How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	MAIN	Coal	00AV	9	Beneath Property	6.0	South	270	1870
unnamed	MAIN	Coal	00AU	19	Beneath Property	6.0	South	270	1870
unnamed	MAIN	Coal	00AT	19	North	6.0	South	270	1870
unnamed	MAIN	Coal	00AW	22	Beneath Property	6.0	South	270	1870
unnamed	UPPER TEN QUARTERS	Coal	00AK	33	Beneath Property	16.0	South-West	140	1890
unnamed	SIX QUARTERS	Coal	00AY	117	Beneath Property	6.0	South	100	1890
unnamed	SIX QUARTERS	Coal	00AX	140	Beneath Property	6.0	South	100	1890

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

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Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	301515-003	301306 515633		Coal	
Shaft	301515-004	301321 515613		Coal	
Shaft	301515-005	301375 515638		Coal	
Shaft	301515-006	301375 515621		Coal	
Shaft	301515-007	301493 515660		Coal	
Shaft	301515-008	301440 515606		Coal	
Shaft	301515-009	301349 515583		Coal	
Shaft	301515-010	301361 515484		Coal	
Shaft	301515-016	301743 515255		Ironstone	
Shaft	301515-017	301785 515301		Ironstone	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

17356	OM6981	OM3324
NW1348	om13116	17413
NC176	NW1390	OM15072

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

Distance to site investigation (m)	Direction
Within	N/A

See Section 4 for further information.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is not in an area where a notice to withdraw support has been given.

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

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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VAT receipt

Issued by	The Coal Authority 200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG
Tax point date	13 November 2019
Issued to	MARTIN STRONACH QUAY WEST TRAFFORD WHARF ROAD TRAFFORD PARK TRAFFORD M17 1HH
Property search for	1A LECONFIELD INDUSTRIAL ESTATE CLEATOR MOOR CUMBRIA CA25 5QE
Reference number	51002189488002
Date of issue	13 November 2019
Cost	£112.13
VAT @ 20%	£22.43
Total received	£134.56
VAT registration	598 5850 68

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Summary of findings

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The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Geological faults
- Site investigations

How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

The Coal Authority

CON29M
coal mining report

1A LECONFIELD INDUSTRIAL ESTATE, CLEATOR MOOR, CUMBRIA, CA25 5QE

Known or potential coal mining risks

Past underground coal mining	Page 5
Future underground coal mining	Page 5
Mine entries	Page 6

Further action

These additional reports can give further detail on the risks identified:

- Mine entry interpretive report
- Mine entry plan and data sheets

For more information please see our Further action reports on page 11

Professional opinion

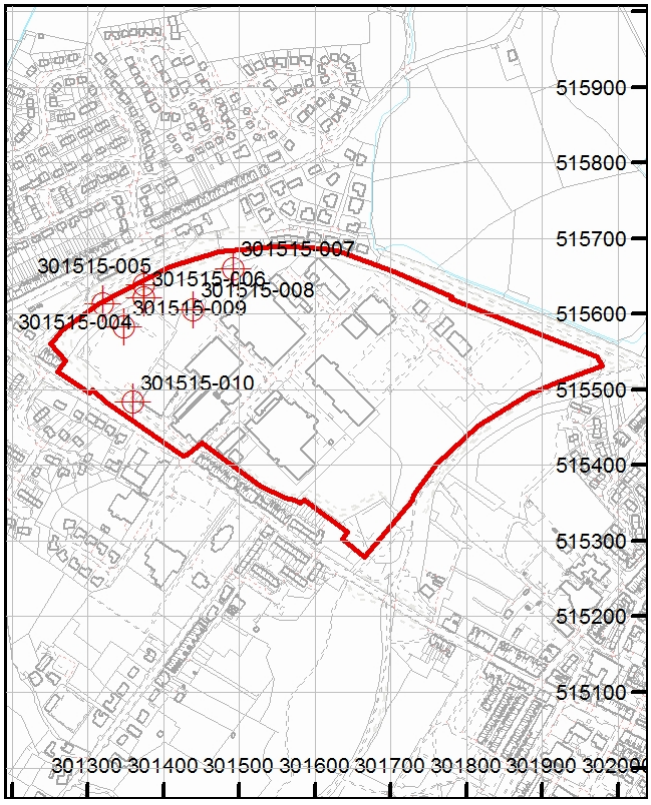
According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. In view of the coal mining circumstances we would recommend that any planned or future development should follow detailed technical advice before beginning work on site. Please see page 3 for further details on Future development.

Enquiry boundary

Key

Approximate position of enquiry boundary shown

Disused mineshaft



We can confirm that the location is **on the coalfield**

Map data

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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.

Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Professional opinion

Mine entries

The enquiry boundary shows the approximate location of the disused mine entry/entries referred to in this report. Property owners have the benefit of statutory protection (under the Coal Mining Subsidence Act 1991). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage caused by disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by visiting www.coal.gov.uk. Please note this Act is not valid where coal was worked or extracted by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you wish to discuss the relevance of any of the information contained in this report, you should seek the advice of a qualified mining engineer or surveyor. If you or your advisor wishes to examine the source plans from which the information has been taken, these are available to view, at our Coal Authority head office in Mansfield. To book an appointment please call 01623 637 225. Should you or your advisor wish to carry out a physical investigation that may enter, disturb or interfere with any disused mine entry, prior permission must be sought from the owner. For coal mine entries, the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency, 24 hour call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries). To report an emergency you can call 01623 646 333.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed.

If you are looking to develop, or undertake works, within a coal mining development high risk area your Local Authority planning department may require a Coal Mining Risk Assessment to be undertaken by a qualified mining geologist or engineer. Should you require any additional information then please contact the Coal Authority on 0345 762 6848 or email cmra@coal.gov.uk.

Site investigations

The following site investigation(s) took place in the location area:

A site investigation was carried out in July 2008 by White Young Green Environmental., Arndale Centre, Otley Road, Headingley, Leeds, LS6 2UJ.

Additional information regarding these investigations may be available from the company or companies listed above.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

The Coal Authority owns the copyright in this report and the information used to produce this report is protected by our database rights. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 3 seams of coal at shallow to 150m depth, and last worked in 1890.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

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

The property is not in an area likely to be affected from any planned future underground coal mining.

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

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4 Mine entries

Within, or within 20 metres of, the boundary of the property there are 7 mine entries, the approximate positions of which are shown on the enquiry boundary plot. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

There is no record of what steps, if any, have been taken to treat the mine entries.

This information is based on the information that the Coal Authority has at the time of this enquiry.

Based on the Coal Authority's knowledge of the mining circumstances at the time of this enquiry, there may be unrecorded mine entries in the local area that do not appear on Coal Authority records.

For an additional fee, the Coal Authority can provide a Mine Entry Interpretive Report. The report will provide a separate assessment for the mine entry/entries referred to in this report. It gives an opinion on the likelihood of mining subsidence damage caused from ground movement as a consequence of the mine entry/entries. It also gives details of the remedies available for subsidence damage where the mine entry was sunk in connection with coal mining.

Please note that it may not be possible to produce a report if the main building to the property cannot be identified from Coal Authority plans (ie for development sites and new build).

For further advice on how to order this additional information please visit www.groundstability.com.

5 Coal mining geology

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

6 Past opencast coal mining

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

7 Present opencast coal mining

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

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

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

9 Coal mining subsidence

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

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

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

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

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

12 Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

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

13 Working facilities order

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

14 Payments to owners of former copyhold land

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

Statutory cover

Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.
www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form

Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call 01623 646 333. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary

Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

Further action reports

Mine entry interpretive report - assesses the risk of ground movement from mine entries in, or within 20 metres of, the property boundary. To order this report, use the same boundary as the CON29M report, then draw the building on the additional map screen.

For more information and to order this report please visit:
https://www2.groundstability.com/interpretive-report

Mine entry plan and data sheets - give additional information on mine entries recorded on a piece of land. To order this report use the same boundary as the CON29M report and a member of our team will contact you to confirm the mine entries to include in this bespoke report.

For more information and to order this report please visit:
https://www2.groundstability.com/plan-and-data-sheets

The Coal Authority

Issued by:
The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0345 762 6848

DUNCAN FREEMAN
QUAY WEST
TRAFFORD WHARF ROAD
TRAFFORD PARK
TRAFFORD
M17 1HH

Our reference:	**51002189626001**
Your reference:	
Date of your enquiry:	**14 November 2019**
Date we received your enquiry:	**14 November 2019**
Date of issue:	**15 November 2019**

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

Shaft Plan and Data Sheets

1A LECONFIELD INDUSTRIAL ESTATE, CLEATOR MOOR, CUMBRIA, CA25 5QE

I refer to the enquiry dated 14 November 2019, received 14 November 2019, in connection with the above.

As requested I enclose the mine entry data sheet(s) held for the mine entry/entries referred to.

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Mine Entry Data

Shaft/adit:	Shaft
Reference:	301515-007
Source:	Ab Plan: NW 1298 and NW 1348.
Colliery name:	Unknown
Entry name:	Unknown
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	301493
Northing:	515660
Other information:	Yes

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Mine Entry Data (continued)

Shaft/adit:	Shaft
Reference:	301515-003
Source:	Ab Plan: NW 1298 and NW 1348.
Colliery name:	Unknown
Entry name:	Unknown
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	33.0
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	301306
Northing:	515633
Other information:	Yes

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Mine Entry Data (continued)

Shaft/adit:	Shaft
Reference:	301515-008
Source:	Ab Plan: NW 1298 and NW 1348.
Colliery name:	Unknown
Entry name:	Unknown
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	301440
Northing:	515606
Other information:	Yes

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Mine Entry Data (continued)

Shaft/adit:	Shaft
Reference:	301515-010
Source:	Ab Plan: NC 176 and NW 1348. Geol: 1/10560 geological plan Cumb 67 SE - 1926 edition.
Colliery name:	Unknown
Entry name:	Barkers or Wyndham Pit
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	301361
Northing:	515484
Other information:	Yes

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Mine Entry Data (continued)

Shaft/adit:	Shaft
Reference:	301515-009
Source:	Ab Plan: NW 1298 and NW 1348.
Colliery name:	Unknown
Entry name:	Unknown
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	301349
Northing:	515583
Other information:	Yes

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Mine Entry Data (continued)

Shaft/adit:	Shaft
Reference:	301515-005
Source:	Ab Plan: NW 1298 and NW 1348.
Colliery name:	Unknown
Entry name:	Unknown
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	301375
Northing:	515638
Other information:	Yes

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Mine Entry Data (continued)

Shaft/adit:	Shaft
Reference:	301515-006
Source:	Ab Plan: NW 1298 and NW 1348.
Colliery name:	Unknown
Entry name:	Unknown
Date abandoned:	Unknown
Depth of superficial deposits (m):	Unknown
Depth of shaft (m):	Unknown
Diameter of shaft (m):	Unknown
Probable adit azimuth:	Not Applicable
Treatment details:	Unknown
Conveyance:	Not Applicable
Easting:	301375
Northing:	515621
Other information:	Yes

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Issued by:	The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG
Tax Point Date:	14 November 2019
Issued to:	DUNCAN FREEMAN QUAY WEST TRAFFORD WHARF ROAD TRAFFORD PARK TRAFFORD M17 1HH
Property Search for:	1A LECONFIELD INDUSTRIAL ESTATE, CLEATOR MOOR, CUMBRIA, CA25 5QE
Reference Number:	51002189626001
Date of Issue:	15 November 2019
Cost:	£134.96
VAT @ 20%:	£26.99
Total Received:	£161.95
VAT Registration	598 5850 68

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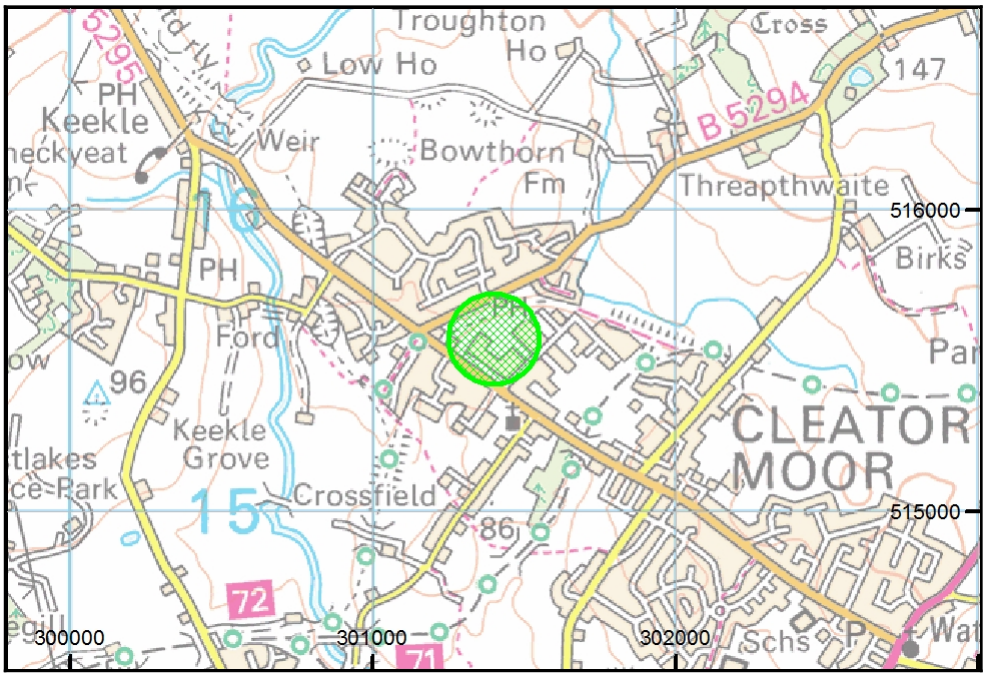
Location map

Approximate position of enquiry



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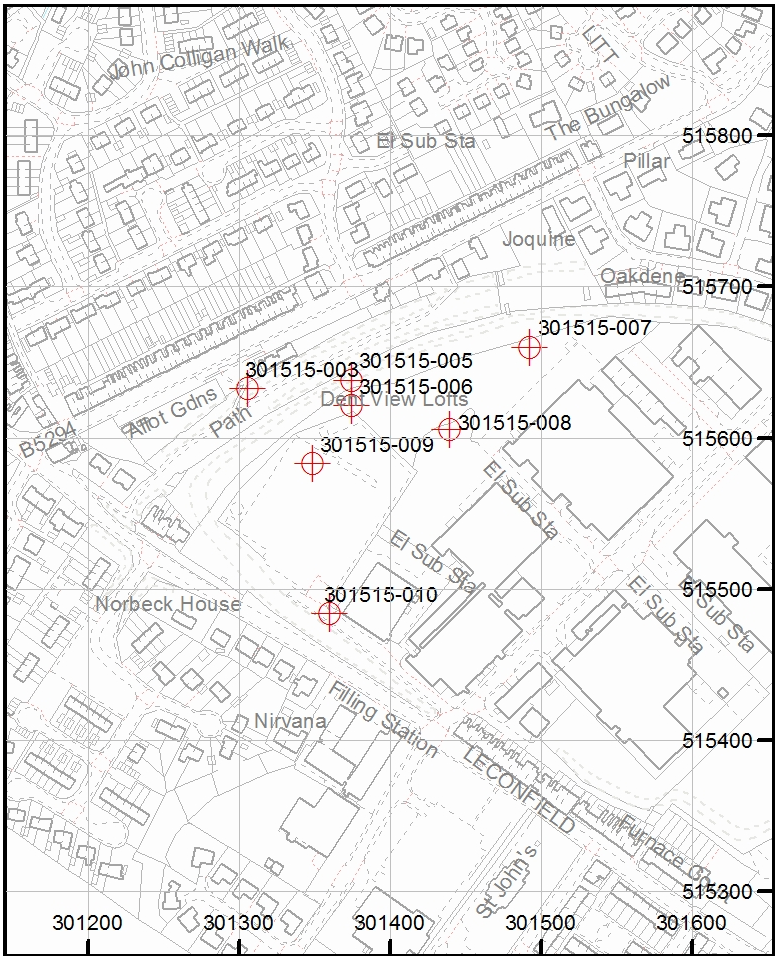

This plan shows the approximate location of the disused mine entry / entries referred to in the attached mining report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

Property owners have the benefit of statutory protection (under the Coal Mining Subsidence Act 1991). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by visiting www.groundstability.com.

If you wish to discuss the relevance of any of the information contained in this report, you should seek the advice of a qualified mining engineer or surveyor. If you or your advisor wish to examine the source plans from which the information has been taken, these are available to view, free of charge, at our Head Office in Mansfield. To book an appointment please ring 01623 637225. Should you or your advisor wish to carry out a physical investigation that may enter, disturb or interfere with any disused mine entry, prior permission of the owner must be sought. For coal mine entries, the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries).

Our emergency telephone number is 01623 646333.

Key

Disused Adit or Mineshaft

Mapping sourced from Ordnance Survey