Land off Preston Street, Whitehaven

Phase I Geo-Environmental Assessment

For

Aldi Stores Ltd

Report Ref	Issue	Prepared by	Date	Reviewed by	Date
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CONTENTS

EXECUTIVE SUMMARY ii

1 INTRODUCTION 1

2 THE SITE 2

3 SITE HISTORY 3

4 ENVIRONMENTAL SETTING 5

5 CONCEPTUAL SITE MODEL 10

6 ENVIRONMENTAL RISK ASSESSMENT 13

7 GEOTECHNICAL CONSIDERATIONS 16

8 FURTHER INVESTIGATIONS 18

Drawings

G001 Site Location Plan

Appendices

Appendix A Proposed Site Layout Plan

Appendix B Historical Maps

Appendix C Envirocheck Report

Appendix D Coal Authority Consultants Mining Report & Mine Abandonment Plan

EXECUTIVE SUMMARY

Land Use	The site, centred on National Grid Reference 297290, 517540, is located to the immediate east of Preston Street, Whitehaven, Cumbria, CA28 9DL. A number of developments including a pottery, colliery school, auction mart, public house and mortuary once occupied this site. However, many of these features have since been demolished with remnants of former structures seen across the site area.
Site History	The earliest OS plans (dated 1867) shows the site as already being partially developed with several uses including a stone yard, pottery and colliery school noted across the site. By 1956, several phases of redevelopment have occurred, adapting the site to other commercial uses such as an Auction Market and Mortuary, Mission Hall and public house, with many of the buildings demolished by 2018. Recent aerial imagery suggests the northern portion of the site is used as a car park, whilst the southern portion of the site has been allowed to become overgrown and derelict.
Environmental Setting	• Geological plans record the majority of the site as being underlain by Alluvial deposits, with exception to the extreme south eastern boundaries were Glacial Till encroaches beneath the site. Site investigation works completed by DTS Raeburn on the northern portion of the site identified made ground to depths between 1.00m and 3.20m overlying organic clays with peat pockets/lenses underlain in turn by terrace gravel deposits at between 2.00m and 4.5m with stiff clay to depths of between 9.30m and 11.10m. • Bedrock deposits of the Pennine Middle Coal Measures underlie the site, with sandstone recorded at 'rock-head' level. DTS Raeburn investigations record coal between the depths of 24.80m and 29.10m, to thicknesses of between 1.90m and 2.20m. • From BGS and Coal Authority data, the Bannock coal seam is recorded as a shallow worked seam beneath the site. • The bedrock deposits are classed as a Secondary A Aquifer with superficial soils classed as a Secondary Undifferentiated Aquifer (Glacial Till) and Secondary A Aquifer (Alluvium). • There are no licensed groundwater abstractions within 500m. • The site is located within a designated Zone 1 Flood Zone and as such is at low risk from flooding. However, the site is located within an area considered to be at potential risk of groundwater flooding of property situated below ground level. • There are no licensed discharge consents within 500m.
Contamination	Based on the site history and contamination screening completed by DTS Raeburn (northern part only) it is considered that the site presents a low-moderate environmental risk with respect to contamination for a commercial end-use. When assessing the chemical screening results within the DTS Raeburn report against current assessment criteria for commercial land, elevated concentrations have been recorded within for metals and PAH analytes.
Mining Risk Assessment	Following a review of Coal Authority (CA) and available BGS data, this site is considered to be located within a high risk setting with regards potential shallow recorded and unrecorded workings within the Bannock coal seam. As such, further investigation works are considered necessary. A detailed Coal Mining Risk Assessment is contained within Section 4.

Ground Gas	The potential risk to this site from ground gas migration and/or production is considered to be moderate. As plausible sources have been identified and historical gas monitoring previously completed by DTS Raeburn reveal Carbon Dioxide concentrations in excess of 5%, it is recommended that gas monitoring be completed as part of any future ground investigation works to confirm the level of potential risk. Radon protection measures are not required for this site.
Foundations and Floor Slabs	Due to the nature of the anticipated ground conditions, shallow conventional foundations (i.e. strip or pad) are not considered to represent a viable foundation solution. Furthermore, ground improvement techniques are unlikely to be suitable due the likely presence of peat deposits beneath the proposed store footprint. When taking into account the anticipated ground conditions beneath the site, a piled foundation solution and suspended floor slab should be allowed for, at this stage. However, further ground investigation works will be required to more definitively confirm potential foundation solution and provide suitable information for foundation design.
Further Investigations	A ground investigation will be required to confirm the site conditions. This should include as a minimum: mini-percussive boreholes and trial pits (if significant disturbance can be tolerated) to determine shallow ground conditions, deep rotary borehole investigations to determine the presence and condition of the Bannock coal seam beneath the proposed development, gas and groundwater monitoring, geotechnical and chemical laboratory analysis. Based upon the findings of the mini percussive drilling works, it is likely that low strength superficial deposits will be identified below the site and deeper cable percussive boreholes with rotary follow on may also be required to determine ground conditions at depth and aid in foundation design.

1 INTRODUCTION

1.1 3e Consulting Engineers Ltd (3e) were commissioned by Aldi Stores Ltd to carry out a Phase I Geo-Environmental Assessment for land at Preston Street, Whitehaven, Cumbria. This report highlights ground related environmental and geotechnical considerations in relation to the proposed development, which includes the construction of a new Aldi retail store, with associated parking and soft landscaping. The overall indicative site layout plan included as **Appendix A**

1.2 The objectives of this assessment were:

- To establish the historical development of the site and surrounding area.
- To establish the environmental setting of the site.
- To provide a preliminary assessment of the potential impact of subsurface mining.
- To determine if historical or current activities could give rise to significant ground or groundwater contamination.
- To assess the potential for hazardous ground gas.
- To determine the potential risks posed by contamination arising from historical or current activities on or in the vicinity of the site.

1.3 To this end the study has included an inspection of historical maps, a review of environmental data held on publicly available registers and other sources as indicated within the report. This report presents the factual information available during this appraisal, interpretation of the data obtained and recommendations relevant to the scope of works outlined above. It has been assumed in the production of this report that the site is to be redeveloped for a Commercial end use.

1.4 The comments and opinions presented in this report are based on the findings of the available desk study investigation carried out by 3e. Responsibility cannot be accepted for any conditions not revealed by this desk study and which have not been taken into account by this report. This report has been prepared for the sole use of Aldi Stores Ltd. No other third party may rely upon or reproduce the contents of this report without the written approval of 3e. If any unauthorised third party comes into possession of this report, they rely on it entirely at their own risk and 3e do not owe them any Duty of Care or Skill.

2 THE SITE

Location and Description

2.2 The site, centred on National Grid Reference 297290, 517540, is located to the immediate east of Preston Street, Whitehaven, Cumbria. A site location plan is included as **Drawing G001**.

2.3 The site is currently unoccupied following the removal of the majority of the above ground structure with some remnant building walls still visible and scrub vegetation present across the southern portions of the site. The northern section of the site is currently used as a public car park.

2.4 The immediate land uses are as follows:

- North: Public footpath, Home Bargains Discount store and other similar commercial properties.
- South: Light industrial units and residential properties.
- East: Whitehaven sports centre and playing fields with commercial units and residential properties beyond.
- West: Asda Supermarket and associated parking.

3 SITE HISTORY

3.1 In order to establish the site history an inspection was made of historical maps and town plans, dating between 1867 and 2018. A summary of the information is provided below and a copy of the maps is included as **Appendix B**. It is not the intention of this report to describe in detail all of the changes that have occurred on or within the immediate vicinity to the site, only those pertinent to the proposed development.

Map Dates	On-Site Features	Relevant Off-Site Features
1867 - 1899	The site is recorded as mixed use with a Stone Yard occupying the northern portion of site, a Pottery to the centre and a Colliery School and associated playground on the southern portion.	A railway line bounds the east of the site with largely undeveloped land recorded beyond. An old chemical works is recorded to the south west, noted as 'ruins' with a larger active works recorded approximately 100m south of the site. An old quarry is also recorded 209m north west of the site.
1899 - 1925	All previous developments on the site are now recorded as demolished or adapted to accommodate an Auction Market. There is also a public house with the potential for a basement called the "Foxhound Inn" recorded to the central western portion of site.	The chemical works recorded to the south and south east are no longer shown. In addition, a clay pit is noted 216m south of the site.
1925 - 1938	Some demolition and redevelopment to the building identified as Mission Hall in the south of the site	No significant change.
1938 – 1957	A Mortuary is recorded as being present on the central portion of site.	The surface extraction features (sandstone quarry and clay pit) have been infilled.
1957 – 1975	The Mission Hall has been redeveloped and the central portion of the site is recorded as a Corporation Yard.	Generally, as above, however, the terraced housing located west of site has been demolished and a large cut and fill exercise has taken place to accommodate a large factory. Numerous other minor buildings have also been demolished primarily south and west of the site. The corporation extends south of the site boundary and has a builder's yard
1975 – 1993	No significant change.	Major reduction to the railway has occurred east of the site.
1994 - 2007	The Auction Market and Mortuary have been demolished, however, the ground slabs and boundary walls still remain in place.	The factory to the west has been demolished and rebuilt closer to the road, at current the development remains as unspecified commercial. Other than this minor demolition in the surrounding area has occurred. Later in 1994 the railway is shown as being dismantled and the associated railway buildings demolished with a store building taking its place.

Map Dates	On-Site Features	Relevant Off-Site Features
2008 – present	All buildings on the site appear to have been demolished, though some remnants of old foundations may remain within the southern areas of the site where dense vegetation is now recorded. The north of the site has been re-purposed as a public car park.	No significant change.

3.2 In summary, there is no history of previous significant contaminative use on the site. However, made ground/fill is anticipated below the site associated with construction, redevelopment and demolition of the former buildings previously present on site. However, is should be noted that the site uses bounding to the site the site to the south and east, namely chemical works and railways by have led to the deposition of potentially contaminated materials during the site history.

4 ENVIRONMENTAL SETTING

4.1 This section summarises the publicly available information collated within an Envirocheck search, included as **Appendix C**.

Geology

4.2 A summary of the site geology, based on available published information along with site specific data obtained from the Coal Authority (CA), is provided below.

Sources of Information	British Geological Survey (BGS) Sheet 028 Whitehaven, 1:50,000 scale, Solid and Drift Editions. BGS Geological Map 101SW, 1:63 360 scale. Coal Authority (CA) Consultants Mining Report - **Appendix D**. Mine Abandonment Plan NW1359 (plan of the workings in the Bannock band seam of coal) - **Appendix D**. DTS Raeburn Report – Reference E12964/1B Dated November 2016 (northern portion of the site).
Made Ground	Significant thicknesses of made ground are not recorded beneath the site based on the available BGS mapping data. However, an initial thickness of made ground/fill should be anticipated, linked to former construction and redevelopment activities. A site investigation report completed by DTS Raeburn (northern section of the site only) records made ground comprising clay sand and gravel with anthropogenic debris (i.e. brick, ash, concrete, clinker etc) to depths of between 1.20m and 3.20m. In accordance with the Envirocheck data, the potential for deep made ground extends along the eastern boundary of the site, associated with the installation of a historical brick lined culvert. Furthermore, when considering the age of former properties, and presence of a former public house occupying part of the site, the presence of infilled former basements cannot be discounted either.
Superficial Geology	Based on the published BGS data, the majority of the site is recorded as being underlain by alluvial deposits, with south eastern portions underlain by glacial till. Borehole records presented in the DTS Raeburn ground investigation report records soft organic clays, sand, gravel with occasional pockets / lens of peat underlain in turn by terrace gravel deposits at between 2.00m and 4.5m, at which point firm and stiff clay is encountered, extending to bedrock at depths between 9.30m and 11.10m.
Bedrock Geology	Geological plans record the site as having bedrock geology of Pennine Middle Coal Measures comprising cyclical alternations of mudstone, sandstone, siltstone with productive coal seams. Borehole data contained within the DTS Raeburn report suggests sandstone as the initial bedrock deposits, with sequence of sandstone, mudstone and coal to the based of their boreholes at 35m.

Quarrying & Mineral Extraction	Several features have been identified within 250m of the site. Surface extractions include a sandstone quarry and clay pit recorded 209m north west and 216m south of the site respectively. An additional 8 no pits exploiting shallow and deep coal are also recorded between 48m and 222m of the site.

Coal Mining Assessment

4.3 Based on the information presented by Coal Authority (CA) on their Interactive Map Viewer, the site is recorded within a Coal Mining Report area, 'development high risk area' and area of known shallow coal workings. To aid with this coal mining risk assessment a CA Consultants Mining Report (reference 51001900035001) was procured, a summary of which is provided below and included as **Appendix D**. In addition to the CA report, all available BGS mapping data has been reviewed.

4.4 The CA Consultants Mining Report records workings beneath the site within two coal seams. Workings are recorded within the Brick (Bannock) and Main coal seams, at depths of 17.00m and 65.00m with recorded extraction thicknesses of between 1.82m and 1.80m respectively. Based on the anticipated rock-head depth beneath the site, workings within the Bannock seam are considered to pose a potential risk to the site in regards to issues that arise from shallow coal mining activities.

4.5 Based on the available BGS mapping data, the Bannock coal seam sub crops beneath the site, and locally dips to the south west. Furthermore, the Main coal seam outcrops to the North West and also dips south west, beneath the site area. To further aid in this coal mining risk assessment, mine abandonment plan NW1395 (Plan of the workings in the Bannock band seam of coal) was obtained from the Coal authority, a copy of which is include in **Appendix D**. An examination of this plan reveals shallow workings beneath the whole of the site within the Bannock Seam.

4.6 There is one mine entry; reference 297517-004, located south west of the site at grid reference 297220 517443. The entry is recorded as a shaft and the primary extraction was coal and has been treated and capped in 1977. No significant risk is anticipated to the development associated with this nearby mine entry, which is located out-with influencing distance to the site. In addition, the Envirocheck report records eight pits between 48m and 222m from the site exploiting shallow and deep coal.

4.7 Three rotary boreholes to a depth of 35m were completed beneath the northern portion of the site by DTS Raeburn. The findings revealed the presence of intact coal, encountered at depths of between 24.80m to 29.10m, ranging in thickness of between 1.90m to 2.20m. When assessing mine abandonment plan NW1395, large coal pillars are recorded beneath the site within the Bannock seam, it is possible coal recorded by DTS Raeburn may reflect coal pillars rather than evidence to support an absence of coal mining activities.

4.8 When taking into consideration the DTS Raeburn data and CIRIA Special Publication 32 – 'Construction Over Abandoned Mine Workings' the minimum rock cover to extraction ratio requirement of 1:10 has not been achieved. Therefore, the site is considered to be at risk from instability issues that arise from shallow coal mining activities.

4.9 When considering the above, this site located within a high risk setting with regards potential shallow unrecorded workings, therefore, further investigations are deemed necessary, utilising rotary (open hole) methods to assess the condition and presence (or absence) of shallow coal beneath the site.

4.10 The CA report also refers of mine gas remedial works at number of properties to the south of the site and the potential for ground gases relating to mining cannot be discounted for the site.

Hydrology and Hydrogeology

4.11 A summary of available information pertaining to hydrology, hydrogeology, flood risk potential, water abstractions, discharge consents and pollution incidents to controlled waters is provided below.

Watercourses	A watercourse is recorded beneath the eastern portion of the site, flowing south to north, noted as Pow Beck. There are also two unnamed watercourses however from inspection of the site sensitivity data they appear likely to be a continuation of Pow Beck.
Flood Risk	The site is located within Zone 1 area considered to be at 'Low Risk' from fluvial flooding (i.e. is not within a flood plain). However, the site is located within an area considered to be at potential risk of groundwater flooding of property situated below ground level and at surface.

Groundwater Classification	Superficial Geology: The majority of the site is underlain by Alluvium, recorded as a Secondary A Aquifer. Superficial Geology: Glacial till deposits encroach on the south west of the site, recorded as a Secondary (Undifferentiated) Aquifer. Bedrock Geology: Secondary A Aquifer
Source Protection Zones	NR within 500m.
Springs and Wells	NR within 500m.
Licensed Surface Water Abstractions	NR within 500m.
Licensed Groundwater Abstractions	NR within 500m.
Discharge Consents	NR within 500m.
Pollution Incidents	2 pollution incidents are recorded within 250m. Each are classified as Category 3 - Minor Incident occurring over 20 years and are not attributed to the site.

NR – None Recorded

Landfill Sites and Waste Management

4.12 A summary of information regarding landfill sites (historical or current) and waste management facilities is provided below.

Local Authority Recorded Landfills	NR within 250m.
BGS / EA and Historical Landfills	NR within 250m.
Other Waste Management Facilities	Partco Autoparts Limited is recorded 104m south east of the site, noted as a storage yard with transfer. This site had no known restriction on source of waste, with authorised wastes including alcohols, hydrocarbons, ethers etc. Records indicate this establishment no longer operates and has since surrendered its licence.

NR – None Recorded

Pollution Controls and Industrial Land Use

4.13 A summary of Pollution Control records and potentially polluting activities (fuel stations) is provided below.

Integrated Pollution Controls (IPC)	1 located 173m away from site recorded as Rhodia Consumer Specialties Ltd, described as 4.2 A (J) Manufacture and use of Organic Chemicals within the Chemical Industry.
Integrated Pollution Prevention and Control (IPPC)	1 located 204m away from site recorded as Npower Cogen Ltd, described as 4.1 A(1) (A) (II) Organic Chemicals; Oxygen Containing Compounds e.g. Alcohols.
Pollution Prevention and Controls (PPC)	NR within 250m.
Petrol Filling Stations	NR within 250m.

NR – None Recorded

Radon

4.14 Inspection of the BRE publication BR211 (2015), 'Radon: Guidance on protective measures for new buildings' indicates that the site lies in 1km grid area where an elevated radon potential is predicted the potential for 1-3%. However, the Envirocheck report data, which is calculated on a site specific basis shows the site is within a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). As such radon protection measures are not considered to be required for new development at this site.

5 CONCEPTUAL SITE MODEL

5.1 Based on the available desk study information, a conceptual site model (CSM) has been developed for the proposed future land use (residential). This summarises the understanding of the existing site and its historical development, the site geology, the potential contaminant sources, transport pathways and receptors in order to assess potential pollutant linkages. In assessing the potential contaminants present at the site, reference has also been made to the relevant sections of CLR 8, the Department of the Environment Industry Profile reports and any other relevant supporting documentation.

5.2 The proposed development includes the construction of a new Aldi Retail Store, with associated parking and soft landscaping, as shown on the indicative site layout plan included as **Appendix A**. Based on the available information, a summary of the potential contamination sources, pathways and receptors is provided below.

Sources of Contamination

- Contamination associated with current and historic site usage – Made ground is anticipated beneath the site associated with historical construction, demolition and redevelopment activities.
- Potential for hazardous ground gas migration and/or production – Associated with made ground, shallow and deep coal mining activities and potential ground gas production attributable to the biodegradation of organic matter within organic alluvial and deposits.

Potential Pollution Pathways

- Humans – direct contact, soil ingestion and dust inhalation.
- Secondary A Aquifer and Secondary Aquifer (Undifferentiated) – leaching and vertical migration of contamination.
- Lateral migration into nearby watercourses
- Vertical and lateral migration, ingress and accumulation of ground gases into buildings and service entries (manholes).
- Direct contact of aggressive soils with building foundations and floor slabs.

Receptors

- Human Health - Site end users.
- Human Health - Construction workers.
- Controlled Waters – Superficial and Bedrock Aquifer deposits (Secondary A and Secondary Aquifer Undifferentiated).
- Building foundations and floor slabs.

Pollutant Linkage Assessment

5.3 A qualitative risk assessment has been made of the likelihood of any pollutant linkage operating and its potential significance, as summarised in the table below and:

Contamination Source	Pathway	Hazard	Potential Receptors	Linkage Complete
Made Ground	Direct contact, ingestion, dust inhalation	Human health risk	Construction workers	Yes, can be removed by the use of appropriate PPE and limited exposure.
	Direct contact, ingestion, dust inhalation	Human health risk	Site end users	Yes, although exposure pathways will limited to areas of future soft landscaping.
	Lateral and vertical migration	Pollution of controlled waters	Secondary A Aquifer & Secondary (Undifferentiated) Aquifer	Yes, although migration pathways will be prohibited due to the anticipated thickness of low permeability glacial clay deposits.
	Lateral and vertical migration	Pollution of controlled waters	Nearby watercourse	Yes, although no significant risk is anticipated at this stage due to the closest watercourse being culverted.
Contaminants associated with off-site sources	Lateral migration	Human health risk	Site end users	Yes, although no significant risk is anticipated at this stage due to the location of no major contaminants within migration distance to site.
Ground Gas originating from Made Ground Mineworkings	Vertical migration into buildings or confined spaces	Human health risk. Fire risk	Human health and property	Yes, primarily associated with made ground identified beneath the site which has been recorded up to thicknesses of 3.20m.

Contamination Source	Pathway	Hazard	Potential Receptors	Linkage Complete
Ground Gas originating from Mine workings	Vertical migration into buildings or confined spaces	Human health risk. Fire risk	Human health and property	Yes, shallow coal mining activities are recorded beneath the site and remedial measure recorded by Coal Authority in vicinity of site.
Ground Gas originating from alluvial and peat deposits	Vertical migration into buildings or confined spaces	Human health risk. Fire risk	Human health and property	Yes, the majority of the site is underlain by alluvial deposits. Previous investigations completed by DTS Raeburn record pockets of fibrous peat beneath the site.

6 ENVIRONMENTAL RISK ASSESSMENT

6.1 The potential environmental risk has been assessed based on the 'source-pathway-target' pollutant linkages identified in the Conceptual Site Model, which requires that for a liability to arise each stage of the pollutant linkage must be present. References to risk classifications are made according to the following definitions:

- **Low risk** – it is unlikely that an issue will arise with respect to causing significant harm to human health or controlled waters.
- **Medium risk** – it is possible that an issue could arise with respect to causing significant harm to human health or controlled waters.
- **High risk** – it is likely that an issue will arise with respect to causing significant harm to human health or controlled waters.

6.2 Having evaluated the information gathered during this study and described in the previous sections the following risk assessment has been produced.

ENVIRONMENTAL RISK ASSESSMENT		
Contamination potential for:	**Risk rating**	**Reason**
On-site contamination	Low to Medium	Made ground is anticipated beneath the site associated with historical construction, demolition and redevelopment, based activities. Some evidence of elevated concentration of contaminants based of Raeburn investigation
Contaminants migrating off site	Low	Limited risk anticipated at this stage due to absence of significant sources recorded on this site.
Contaminants migrating onto site	Low	Deep made ground may be present to the west of site associated with an area of raised ground located to the south first recorded 1899.
Other environmental issues giving rise to concern	Low	None identified.
OVERALL RISK	**Low to Medium**	

Ground Gas Risk Assessment

6.3 Based on the above information gained through the Envirocheck Report and other sources referenced in the previous sections, the following summarises the gas risk for the site. In accordance with current guidance (CIRIA C665), the gas generation potential for each source has been individually assessed, with references to potential gassing risk made according to the following definitions: Negligible, Very Low, Low, Moderate, High and Very High.

Potential Gas Source	Hazard	Risk Rating	Justification
Made ground (CH_4, CO_2)	Humans: health risk Buildings: explosion	Low	Made ground is has been proven beneath the northern portion of the site and likely extends beneath the southern parts associated with historical development. In general, the recorded composition of this material is largely inorganic in nature, therefore, the risk of ground gas production is considered low. However, this risk cannot be fully dismissed at this stage.
Alluvium deposits (CH_4, CO_2)	Humans: health risk Buildings: explosion	Moderate	Borehole information suggests alluvial deposits beneath the site have a high organic content with pockets / lens of peat recorded.
Nearby Landfill (CH_4, CO_2)	Humans: health risk Buildings: explosion	Negligible	No landfill sites are recorded within plausible migration distance to this site.
Coal and historical mining	Humans: health risk Buildings: explosion	Moderate-High	Coal workings are anticipated below the site, which could represent a potential source of ground gas migration. In accordance with the Coal Authority data, several mine gas remediation sites are recorded within 300m of the site.
Radon	Humans: health risk	N/A	No precautions required.
Overall Risk		**Moderate**	

6.4 As part of the DTS Raeburn investigations, ground gas monitoring was completed within three positions, comprising 4 no. visits over a 3 week period. The results of the ground gas monitoring revealed a single Carbon Dioxide concentration in excess of 5%. Each visit was conducted during a period of steady atmospheric pressure. However, it is recommended monitoring visits are completed during falling pressure trends in order to identify a 'worst case' scenario.

6.5 In summary, the risk of ground gas emissions is considered to be moderate, and as such it is recommended that gas monitoring in accordance with CIRIA C665 will need to be completed as part of any future ground investigation works to confirm the level of potential risk.

7 GEOTECHNICAL CONSIDERATIONS

7.1 The following geotechnical considerations are given as preliminary guidelines only based on the available data on the ground conditions. Consequently, the following should not be taken as design criteria without further geotechnical data obtained from a suitably designed ground investigation.

Coal Mining Assessment

7.2 Following a review of CA and BGS data, this site is considered to be located within a high risk setting with regards potential shallow unrecorded workings. This is confirmed by the CA consultants mining report which notes this site as being underlain by the worked Bannock Coal seam at a depth of 17m and extraction thickness of 1.82m. Further evidence to substantiate the presence of workings beneath the site is recorded within mine abandonment plan NW1395 (Plan of the workings in the Bannock band seam of coal) where workings have been recorded beneath the whole of the site.

7.3 Site investigation works completed by DTS Raeburn on the northern portion of the site (at the location of the proposed car park) identified intact coal at 24.80m to 29.10m, ranging in thickness of between 1.90m to 2.20m. Based on the information available, it is likely these investigations encountered coal pillars, which support the surrounding coal mining activities within the Bannock Seam.

7.4 Based on the information above, the site is considered to be at risk from shallow coal mining activities within the bannock coal seam. Therefore, deep rotary boreholes will be required to assess the potential mine workings beneath the proposed store.

Foundations and Floor Slab

7.5 Due to the nature of the anticipated ground conditions, shallow conventional foundations (i.e. strip or pad) are unlikely to represent a viable foundation solution. In addition, based on the information contained within the DTS Raeburn Ground Investigation Report, ground improvement techniques are unlikely to be suitable due the likely presence of peat deposits beneath the proposed store footprint. However, the DTS Raeburn report concentrates on areas local to the northern portion of the site where structural development

is not proposed. Further ground investigations will be required to more definitively confirm potential foundation options.

7.6 In the event similar ground conditions are encountered beneath the footprint of the proposed development, piled foundations and a suspended floor slab are recommended. Advice should be sought from a specialist piling contractor with respect to pile type and design depth if required.

Gas Protection Measures

7.7 In view of the preliminary assessment, the potential risk to this site from ground gas migration and/or production is considered to be moderate, and as such it is recommended that gas monitoring be completed as part of any future ground investigation works to confirm the level of potential risk.

7.8 Radon protection measures are not required for this site.

8 FURTHER INVESTIGATIONS

8.1 An intrusive investigation will be required for the proposed development to address the ground related issues discussed above. A summary of the likely scope of works, which should not be taken as an exhaustive list, is provided below.

- Mini percussive drilling and trial pits (if significant disturbance can be tolerated) targeting the locations of the proposed buildings, to allow the recovery of samples for laboratory testing and establish the shallow geological profile.
- Based upon the findings of the mini percussive drilling works, it is likely that low strength superficial deposits will be identified below the site and deeper cable percussive boreholes with rotary follow on may also be required to determine ground conditions at depth and aid in foundation design.
- Deep rotary boreholes will be required to determine the condition of the Bannock coal seam, which is recorded as extracted through shallow coal mining activities.
- Ground gas and water monitoring to confirm the level of potential risk to the proposed development, with monitoring on a minimum of 6 occasions over a 3 month period (in accordance with CIRIA C665).

Drawings

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Date	Revision	Checked	Rev.

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Project	Land off Preston Street, Whitehaven for Aldi Stores Ltd		
Title	Site Location Plan		
Scale 1:25,000 at A4	Drawn AM	Checked ~	Date 03.10.18
Job No. P18-351	Drawing No. G001		Rev 0

Appendix A

Proposed Development Plan

Store Type: Blade Roof

- Sales Area = 1,254m² / 13,498ft²
- Storage = 348m²
- Amenity = 114m² / 1,227ft²
- Auction Mart = 3,379m² / 0.84 Acres
- Vehicular Site Access
- Vehicular Site Egress
- Cumbria Council = 4,879m² / 1.20 Acres

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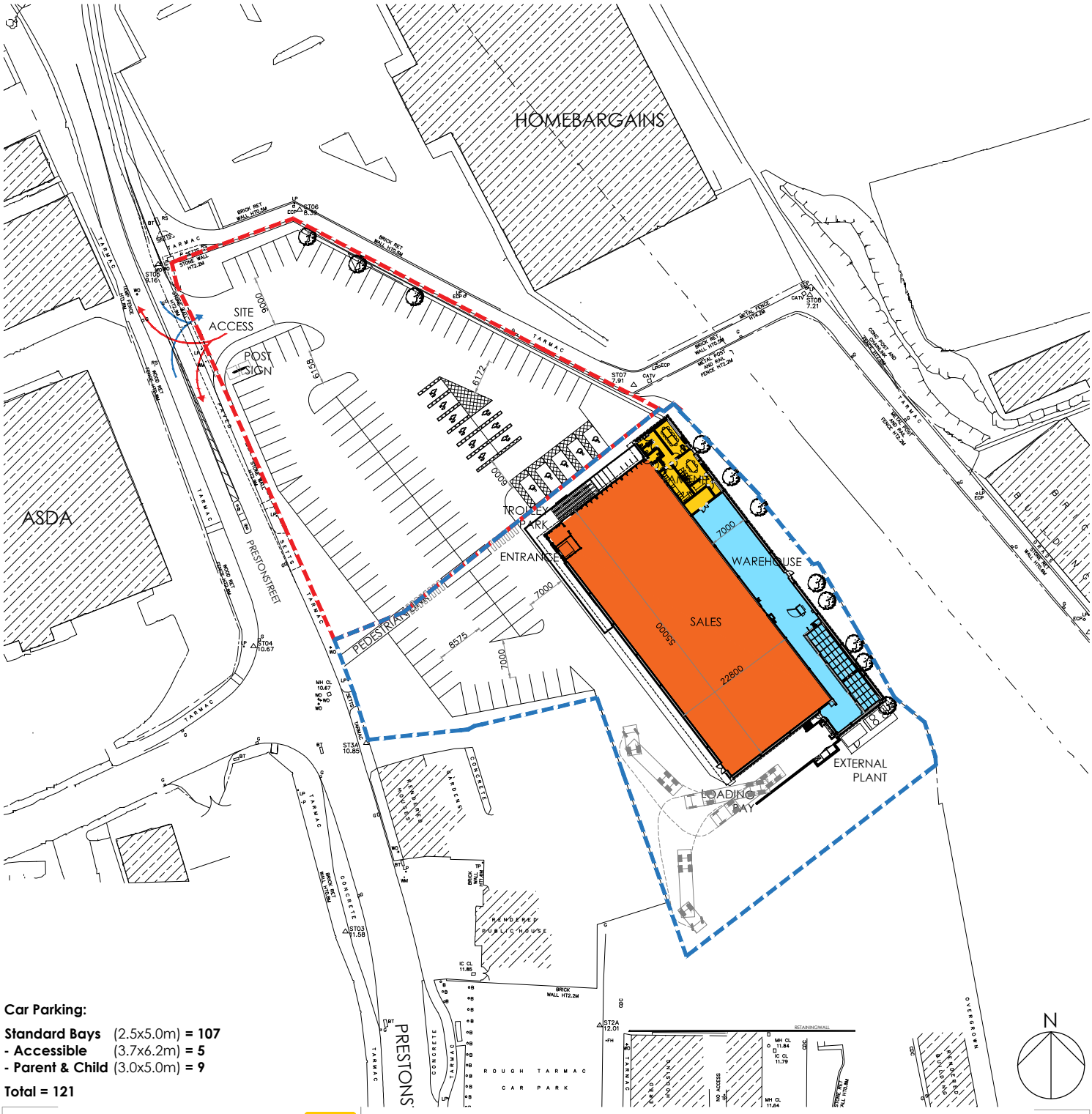
Rev	Date	Description	Rev By	Chk'd By



Car Parking:

Standard Bays (2.5x5.0m) **= 107**
- Accessible (3.7x6.2m) **= 5**
- Parent & Child (3.0x5.0m) **= 9**

Total = 121

Client
Aldi Stores Ltd

Project Address
Preston Street
Whitehaven

Drawing Number
0470-SK04

Drawn	Checked	Date	Scale	Size
JWC		19.03.18	1:1000	A4

Project Title
Aldi - Whitehaven

Drawing Title
Site Feasibility

Revision

Status

Media Exchange 2
Coquet Street
Newcastle Upon Tyne
NE1 2QB

Forsyth House
93 George Street
Edinburgh
EH2 3ES

t : 0191 260 5551
e : admin@projektarchitects.com
w : www.projektarchitects.com

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Appendix B

Historical Maps

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Sloping Masonry
Pylon
Pole
Electricity Transmission Line
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

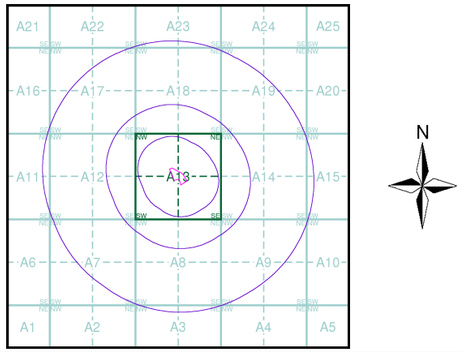
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community 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

consulting engineers

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	1957	6
Ordnance Survey Plan	1:10,000	1979	7
10K Raster Mapping	1:10,000	2000	8
Street View	Variable		9

Historical Map - Slice A



Order Details

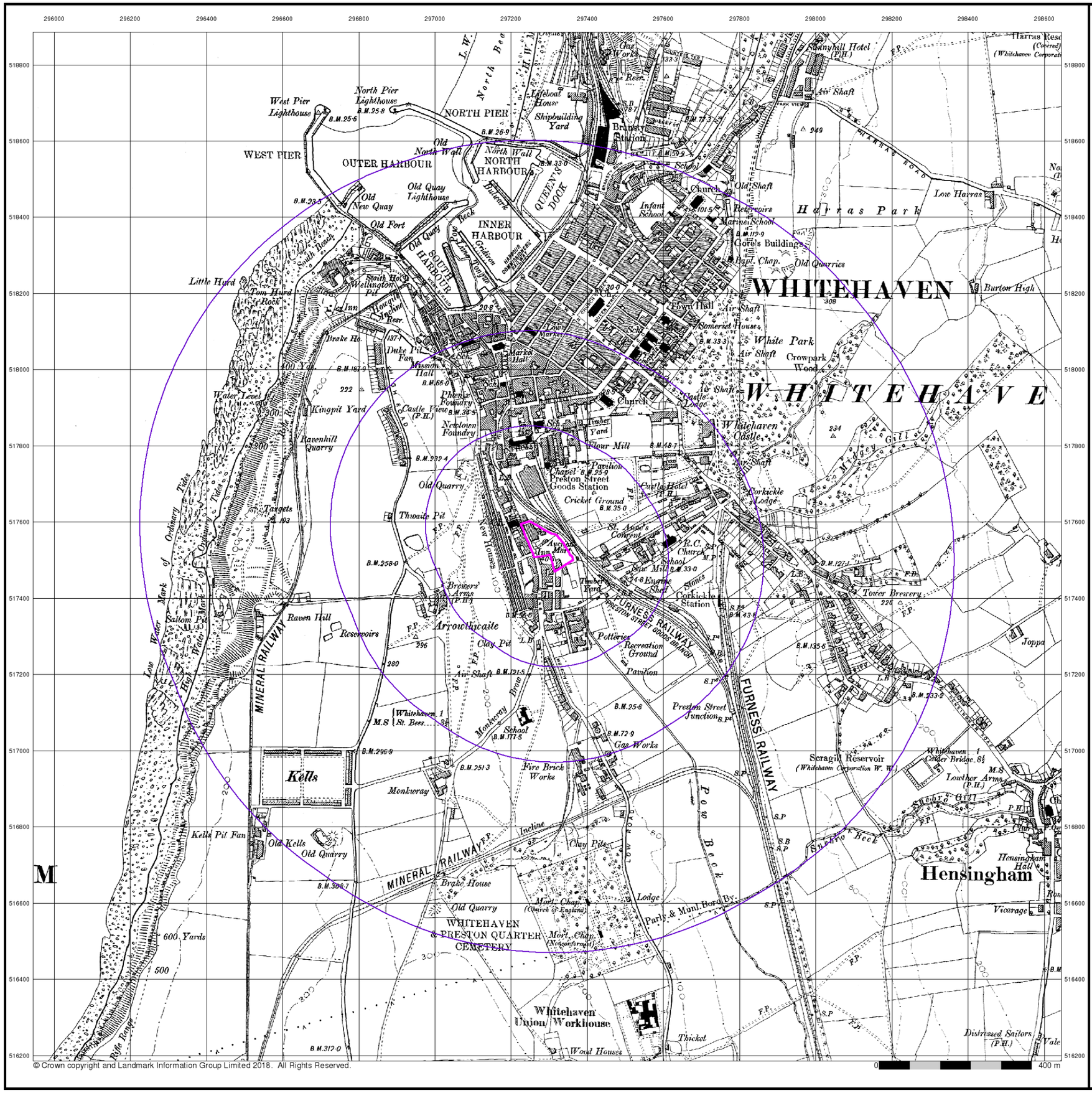
Order Number: 177541866_1_1
Customer Ref: P18-351
National Grid Reference: 297290, 517540
Slice: A
Site Area (Ha): 0.83
Search Buffer (m): 1000

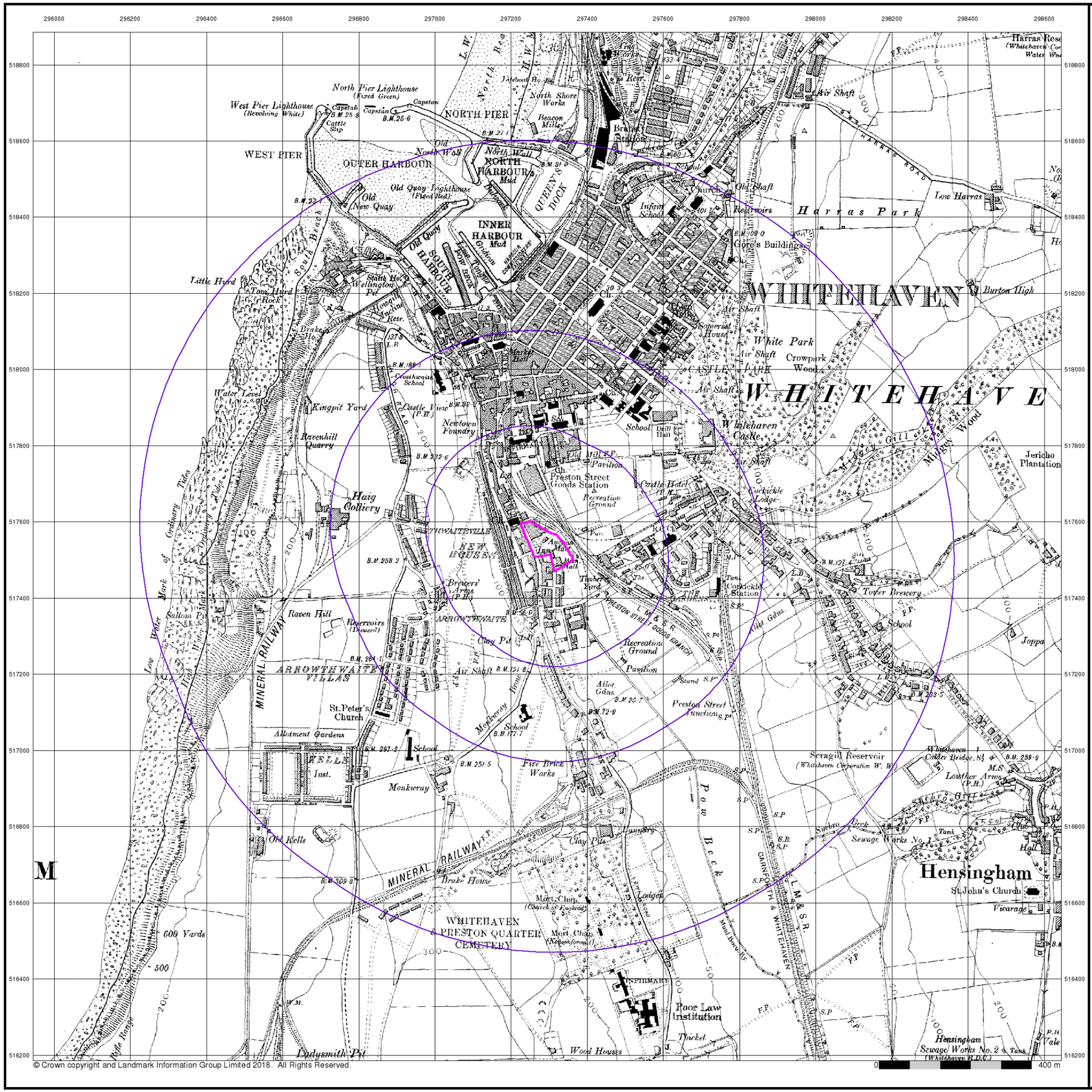
Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

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

WHITEHAVEN
OUTER HARBOUR
INNER HARBOUR
NORTH HARBOUR
SOUTH HARBOUR
Harras Park
White Park
CASTLE MEADOWS
Whitehaven Castle
Albert Terrace
Low Harras
Burton High
Raven Hill
Monkwray
Bear Mouth
Brick Barns
Whitehaven & Preston Quaker Cemetery
Whitehaven Union Workhouse
Wood House
Hall
Soppa
Parliamentary Boundary
Check T.P.
Rifle Range
Burial House
Signal Post
Thicket
Brick Field
Fort Brick Works
Gas Works
Waterworks Reservoir
Meadow House
Kingston Place
Waterloo Terrace
Hamilton Terrace
Carlisle Villa
Carlisle Brewery
Arroathwaite
New Houses
Chemical Works
Pottery
Brewers Inn
Kingpit Yard
Nelson Terrace
Windmill
Barker's Building
Machine Ho.
Tom Hard Brow
Little Hare
Outer Light
Lookout
Gipsies
Shipbuilding Yard
Timber Yard
Ivansky Beck
Old Quay
Bolt 27.5
Bolt 28.0
Flag Pole
Wellington Pier
Wellington Row
Wellington School
Albert Pit (Coal)
Sewerage Works
Bone Manure Works
Windsor Hill
Gas Works
Public Baths
Gridiron
Tidal Harbour
Old Harbour
Sur. 221.5
Sur. 229.9
Sur. 203.9
Sur. 225.7
Sur. 247.5
Sur. 248.7
Sur. 307.0
Sur. 30.1
Sur. 20.1
Sur. 223.6
Sur. 30.2
Air Shaft
Kelt's Pit (Old Coal Pit)
Throckle Pit
Sellom Pit
Well
Pump
Fountain
Cricket Ground
Playstaff
Bowling Green
Church
Tennis Court
Tennis Square
Grammar School
Free Church
Methodist Chapel
Roman Catholic Church
Cemetery
Lighthouse
Pole Houses
Ship Yard
Sailors Home
Coastguard Station
Ladyed Pottery
Bone Manure Works
Sewerage Works
Gas Works
Fever Hospital
Workhouse
Infirmary
Lunatic Asylum
Cottage Hospital
Sewerage Works
Pumping Station
Reservoir
Water Works
Sewerage Works
Sewerage Works
Sewerage


WHITEHAVEN
WEST PIER
OUTER HARBOUR
NORTH PIER
NORTH HARBOUR
INNER HARBOUR
SOUTH HARBOUR
QUEEN'S DOCK
West Pier Lighthouse
North Pier Lighthouse
Old New Quay
Old Quay Lighthouse
Old Fort
Harras Park
Low Harras
Burton High
White Park
Crowpark Wood
Whitehaven Castle
Preston Street Goods Station
Cricket Ground
Corkickle Station
FURNESS RAILWAY
MINERAL RAILWAY
Kells
Ravenhill Quarry
Kingpit Yard
Arrowthwaite
Pottheries
Recreation Ground
Pavilion
Preston Street Junction
Gas Works
Fire Brick Works
Scragill Reservoir
Hensingham
Hensingham Hall
Vicarage
Tower Brewery
Joppa
Distressed Sailors (P.H.)
WHITEHAVEN & PRESTON QUARTER CEMETERY
Whitehaven Union Workhouse
Wood Houses
Thicket
Clay Pits
Brake House
Old Quarry
Monkway
Raven Hill
Reservoirs
Salton Pit
Thwaite Pit
Targets
Little Hurd
Tom Hurd Rock
Water Level
600 Yards
500
Low Water Mark of Ordinary Tides
High Water Mark of Ordinary Tides
Tide Range
Sandy Gill
Sneckyard Beck
Pow Beck
Monkwray Brow
Lodge
Parly. & Muni. Bord. By.
Mort. Chap. (Church of England)
Mort. Chap. (Nonconformist)
Brewers' Arms (P.H.)
Castle View (P.H.)
Castle Hotel (P.H.)
Loutber Arms (P.H.)
Sunnyhill Hotel (P.H.)
Harras Road
Monkwray Road
Preston Street
Queen Street
Duke Pit Fan
Phoenix Foundry
Newtown Foundry
Flour Mill
Timber Yard
Parishon Chapel
St. Anne's Convent
R.C. Church
Infant School
Marine School
Town Hall
Somerset House
Market Hall
Mission Hall
Gorell's Buildings
Bapt. Chap.
Old Quarries
Air Shaft
Reservoirs
Church
Brancy Station
Shipbuilding Yard
Lifeboat House
Old Works
Old North Wall
North Wall
Old Quay
Balcarde
Beck
Gradiron
Lower Quay
Lower Market
Cutler Street
Harras Road
Park View
Cutler Street
Cutter Bridge St.
Whitehaven 1
Whitehaven 1
St. Bees
Kells Pit Fan
Old Kells
Old Quarry
Incline
Clay Pits
Engine Shed
Stores
Corkickle Station
Corkickle Lodge
Tower Brewery
Sandy Gill
Sneckyard Beck
Hensingham Hall
Vicarage
Distressed Sailors (P.H.)
Vale
Thicket
Wood Houses
Whitehaven Union Workhouse
Monkwray
Kells Pit Fan
Salton Pit
Raven Hill
Reservoirs
Arrowthwaite
Clay Pit
Air Shaft
Monkwray Brow
School
Fire Brick Works
Gas Works
Preston Street Junction
Pavilion
Recreation Ground
Potteries
Preston Street Goods Branch
Furness Railway
Mineral Railway
Brake House
Old Quarry
Mort. Chap. (Church of England)
Mort. Chap. (Nonconformist)
Lodge
Parly. & Muni. Bord. By.
Pow Beck
Sandy Gill
Sneckyard Beck
Hensingham Hall
Vicarage
Tower Brewery
Joppa
Distressed Sailors (P.H.)
Vale
Thicket
Wood Houses
Whitehaven Union Workhouse
Scragill Reservoir
Whitehaven 1
Cutter Bridge St.
Loutber Arms (P.H.)
Sandy Gill
Sneckyard Beck
Hensingham Hall
Vicarage
Tower Brewery
Joppa



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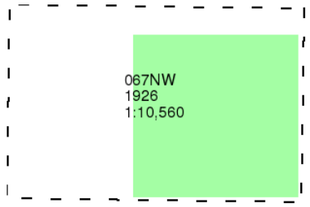
Cumberland

Published 1926

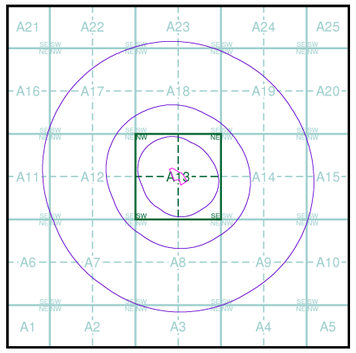
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



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Order Details

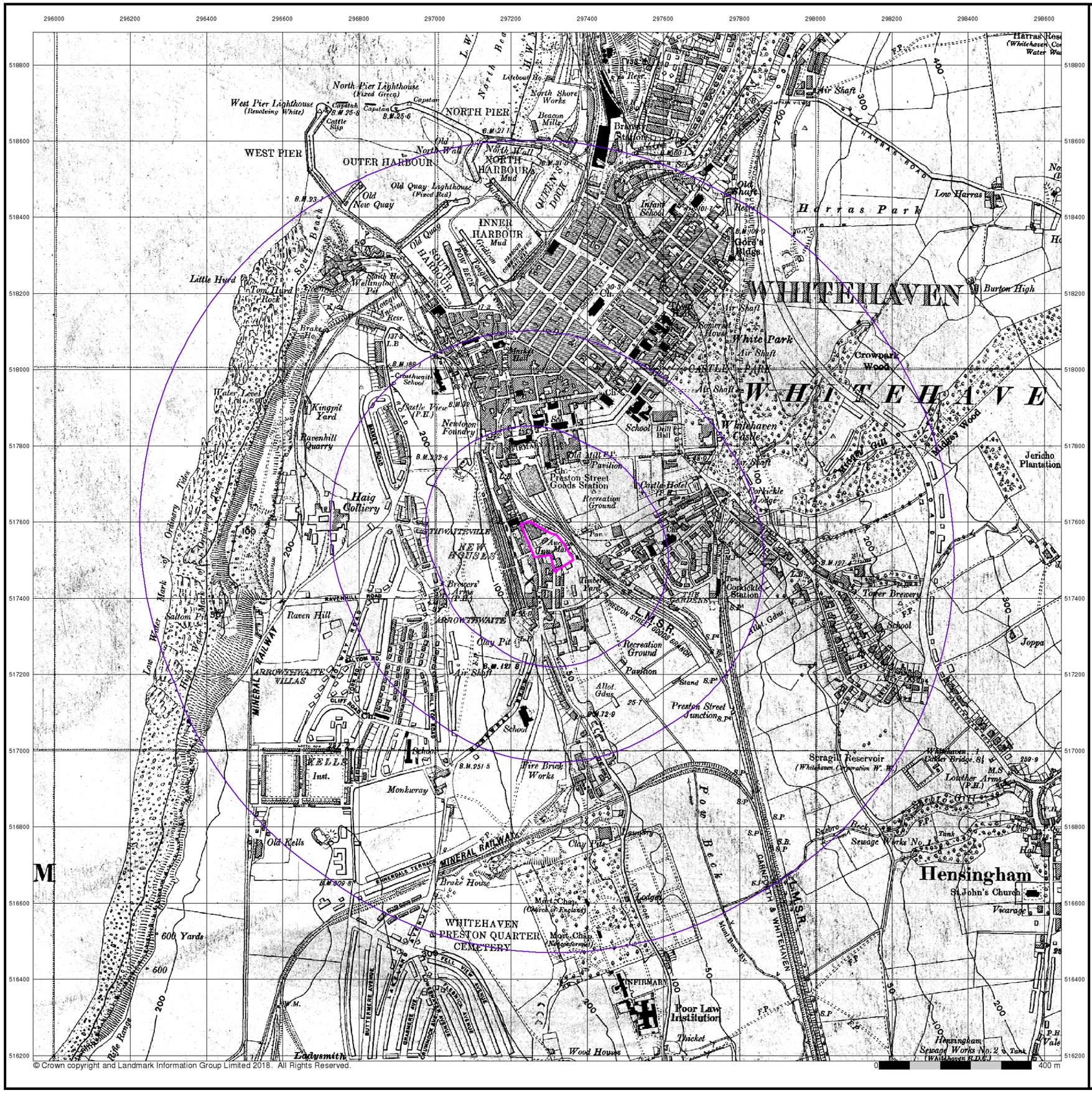
Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	1000

Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

Landmark INFORMATION GROUP

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


WHITEHAVEN
Harras Park
Low Harras
Burton High
Crowpark Wood
Midsey Wood
Jericho Plantation
Joppa
Hensingham
St.John's Church
Vicarage
Spragill Reservoir
Lowther Arms (P.H.)
Sewage Works No. 1
Sewage Works No. 2
Poor Law Institution
INFIRMARY
WHITEHAVEN & PRESTON QUARTER CEMETERY
Preston Street Junction
Preston Street Goods Station
Recreation Ground
Pavilion
Haig Colliery
Newtown Foundry
Kingpit Yard
Ravenhill Quarry
Ravenhill Road
Raven Hill
Saltom Pit
Clay Pit
Brick Works
Clay Yds
Brake House
Monkwray
Old Kells
KELLS Inst.
ARROWTHWAITE VILLAS
ARROWTHWAITE
NEW HOUSES
Brewers' Arms (P.H.)
Timber Yard
Corkickle Station
Corkickle Lodge
Tower Brewery
Castle Park
White Park
Whitehaven Castle
Gore's Bldgs.
Infant School
Old Shaft
Air Shaft
Harras Road
Harras Hospital
Harras Estate
Harras Reservoir
Harras Farm
Harras Wood
Harras Road
Harras Road
Harras Road

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Ordnance Survey Plan

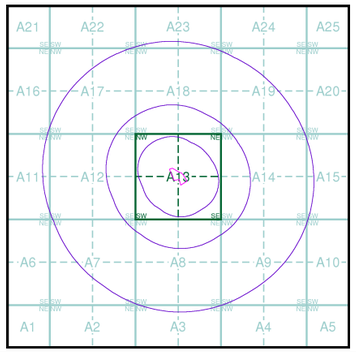
Published 1957

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)

Historical Map - Slice A



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	1000

Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

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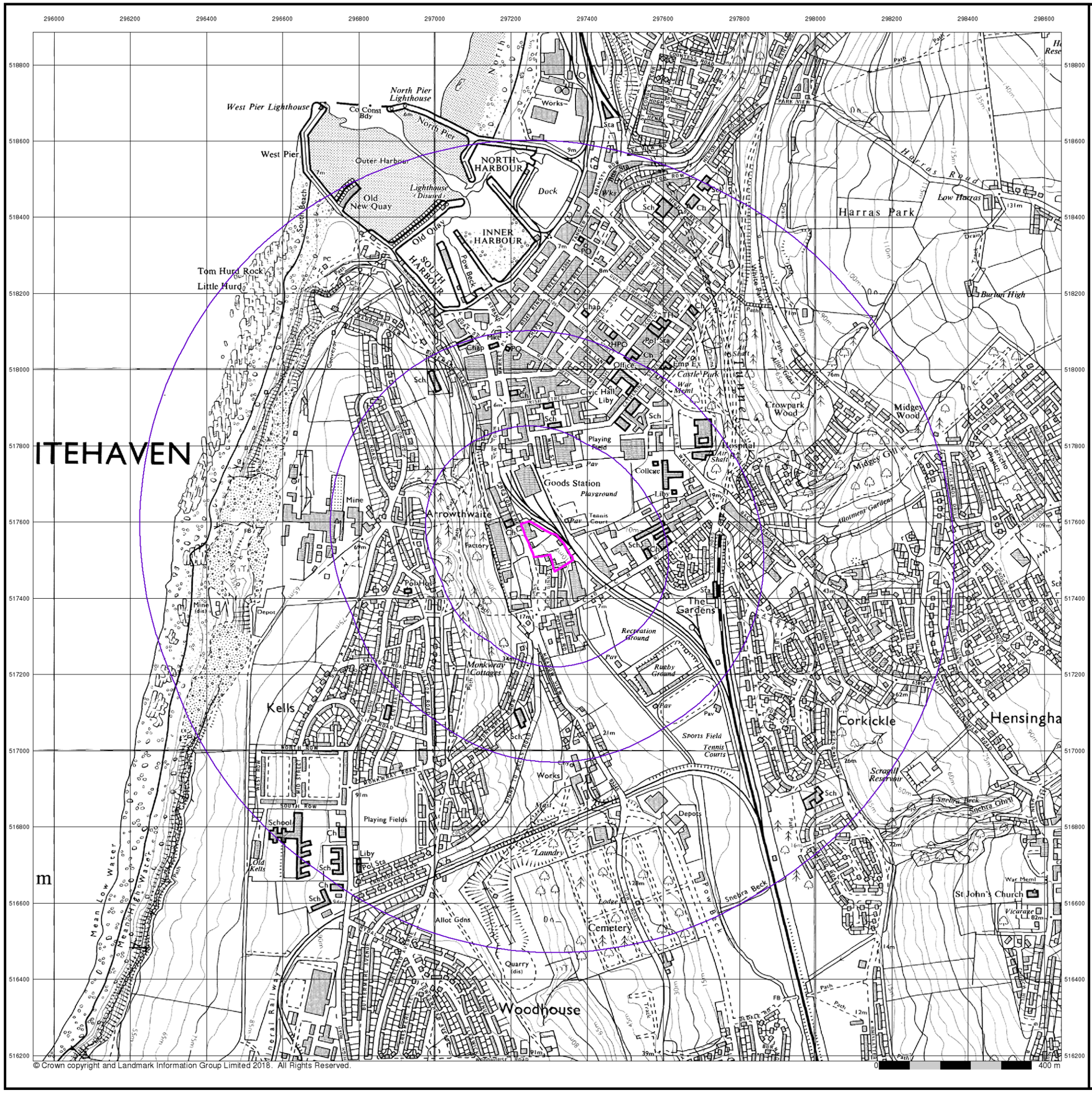

ITEHAVEN
West Pier Lighthouse
North Pier Lighthouse
West Pier
Outer Harbour
Old New Quay
NORTH HARBOUR
Dock
INNER HARBOUR
SOUTH HARBOUR
Tom Hurd Rock
Little Hurd
Harras Park
Harras Road
Low Harras
Burton High
Civic Hall
Liby
Playing Field
Goods Station
Playground
Arrowthwaite
Crowpark Wood
Midgey Wood
Allotment Gardens
The Gardens
Recreation Ground
Rugby Ground
Sports Field
Tennis Courts
Kells
Corkickle
Hensingha
Scragill Reservoir
Playing Fields
School
Old Kells
Allot Gdns
Cemetery
Quarry
Woodhouse
St John's Church
Vicarage
Snebra Beck
Mean Low Water
Mean High Water
Depot
Works
Factory
Laundry
Lodge
Monkway Cottages
Office
Hospital
Mine
Sch
Ch
Pol Sta
Tennis Court
Path
Track
Drain
Footbridge
War Meml
Air Shaft
Emp Ex
Chap
HPO
PO
Pow Beck
Castle Park
Sta
Wks
Pav
FB
PC
Mkt
Coll
Cons
Bdy
Const
Lighthouse Disused
Old Quay
Tram
Railway
Mineral Railway
Jericho
Park View
Hillcrest Avenue
Kells Lane
Bowness Road
Preston Street
Lowther Street
Tangier Street
Scotch Street
Duke Street
Queen Street
Catherine Street
Strand
Harbour
Convoys Wharf
South Beach
North Beach
Pow Beck
Snebra Beck
Snebra Ghyll
Scotch Street
Kells Lane
Bowness Road
Preston Street
Lowther Street
Tangier Street
Catherine Street
Duke Street
Queen

ITEHAVEN
Harras Park
Harras Moor
Harras Park
Castle Park
Crowpark Wood
Midgey Wood
Arrowthwaite
Playground
Bridges Retail Park
The Gardens
Recreation Ground
Rugby Ground
Sports Field
Kells
Corkickle
Playing Fields
Old Kells
Woodhouse
Cemetery
Quarry (disused)
Monkwray Cottages
Allot Gdns
Snebra Ghyll
Tunnel
Dock
Offices
Superstore
Factory
Lighthouse
West Pier
North Pier
Outer Harbour
North Harbour
Inner Harbour
South Harbour
Old New Quay
Tom Hurd Rock
Little Hurd
Haig Enterprise Park
Mean Low Water
Mean Highwater
Low Harras
Circle Path
Snebra Beck
Dismtd Rlw
Lodge
Depots
Works
Sch
Liby
PW
PO
PH
FB
War Meml
Play Area
Pav
Mon
Mast
WT
Sta
Subway
Slipway
Sand
Mud
Path
Issues
Sinks
Drain
Track
Pipe
Pipeline
Cross
Office
Offices
Multi Car Pk
Car Park
Playing Field
Mine (dis)
Kiln (dis)
Lighthouse (disused)
Pow Beck
Midgey Gill
Jericho
Pomeroy
Harras Road
Loop Road South
Ribton Moor Side
Monkwray Road
Salton Road
Solway Road
Kells Road
Bransty Row
Duke Street
Lowther Street
Preston Street
Catherine Street
Irish Street
Tangier Street
Queen Street
Church Street
Corkickle
Bransty Arch
Tunnel
Path
Issues
Sinks
Drain
Track
Pipe
Pipeline
Cross
Office
Offices

consulting engineers

Street View

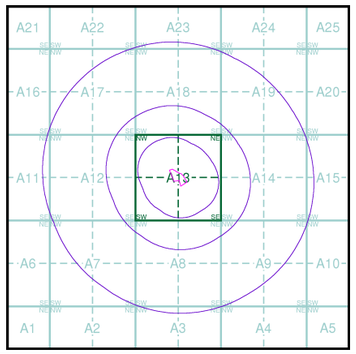
Published 2018

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

Street View Map - Slice A



Order Details

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Site Details

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Tel: 0844 844 9952
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Historical Mapping Legends

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

Quarry
Gravel Pit
Sand Pit
Clay Pit
Shingle
Refuse Heap
Sloping Masonry
Flat Rock
Marsh
Reeds
Osiers
Rough Pasture
Furze
Wood
Mixed Wood
Brushwood
Orchard
Fir
Ford
Stepping Stones
Ferry
Waterfall
Lock

Trig. Station
507 Altitude at Trig. Station
B.M.325·9 Bench Mark
342 Surface Level
Arrow denotes flow of water
Antiquities (site of)

Cutting
Embankment
Railway crossing Road
Level Crossing
Road crossing Railway
Railway crossing River or Canal
Road over single stream
Road over River or Canal

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

Inactive Quarry, Chalk Pit or Clay Pit
Active Quarry, Chalk Pit or Clay Pit
Rock
Boulders
Cliff
Slopes
Top
Roofed Building
Glazed Roof Building
Sloping Masonry
Archway
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Bench Mark
Antiquity (site of)
Cave Entrance
Triangulation Station
Electricity Pylon
Electricity Transmission Line

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

Cliff
Slopes
Top
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Positioned Boulder
Scree
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Triangulation Station
Antiquity (site of)
Electricity Transmission Line
Electricity Pylon
BM 291.60m Bench Mark
Buildings with Building Seed
Roofed Building
Glazed Roof Building

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

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

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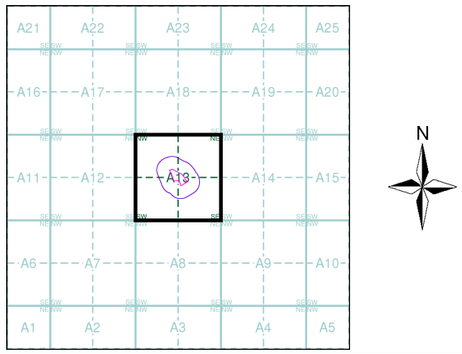
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:2,500	1874 - 1879	2
Cumberland	1:2,500	1899	3
Cumberland	1:2,500	1925	4
Cumberland	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1962	6
Ordnance Survey Plan	1:1,250	1962	7
Ordnance Survey Plan	1:1,250	1975 - 1984	8
Additional SIMs	1:1,250	1990 - 1993	9
Large-Scale National Grid Data	1:1,250	1994	10
Large-Scale National Grid Data	1:1,250	1994	11
Large-Scale National Grid Data	1:1,250	1996	12

Historical Map - Segment A13



Order Details

Order Number: 177541866_1_1
Customer Ref: P18-351
National Grid Reference: 297290, 517540
Slice: A
Site Area (Ha): 0.83
Search Buffer (m): 100

Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

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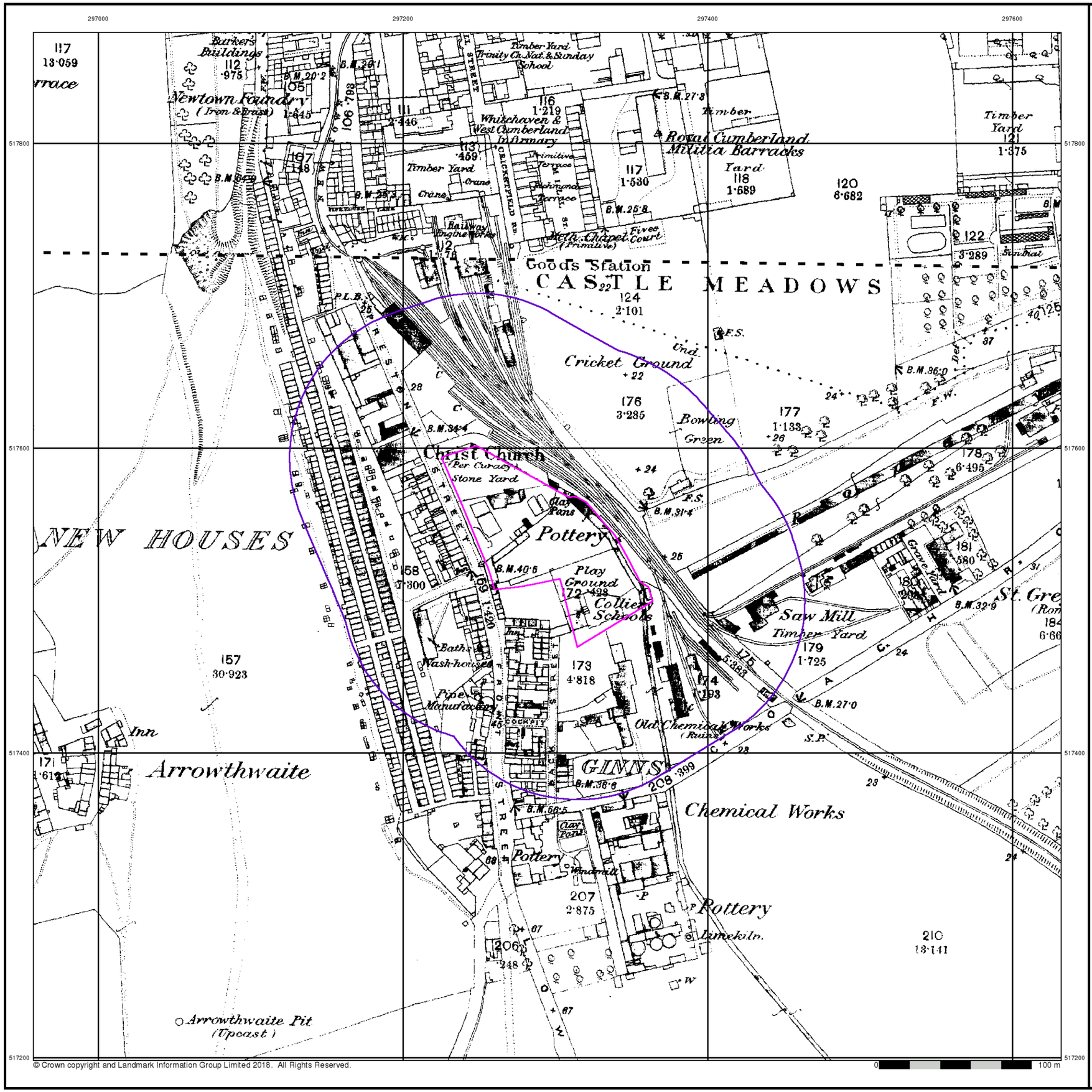
Web: www.envirocheck.co.uk



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Cumberland

Published 1874 - 1879

Source map scale - 1:2,500

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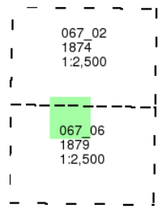
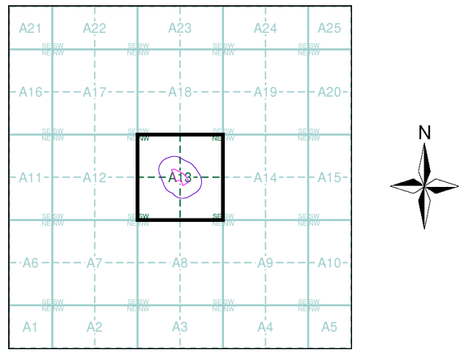
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
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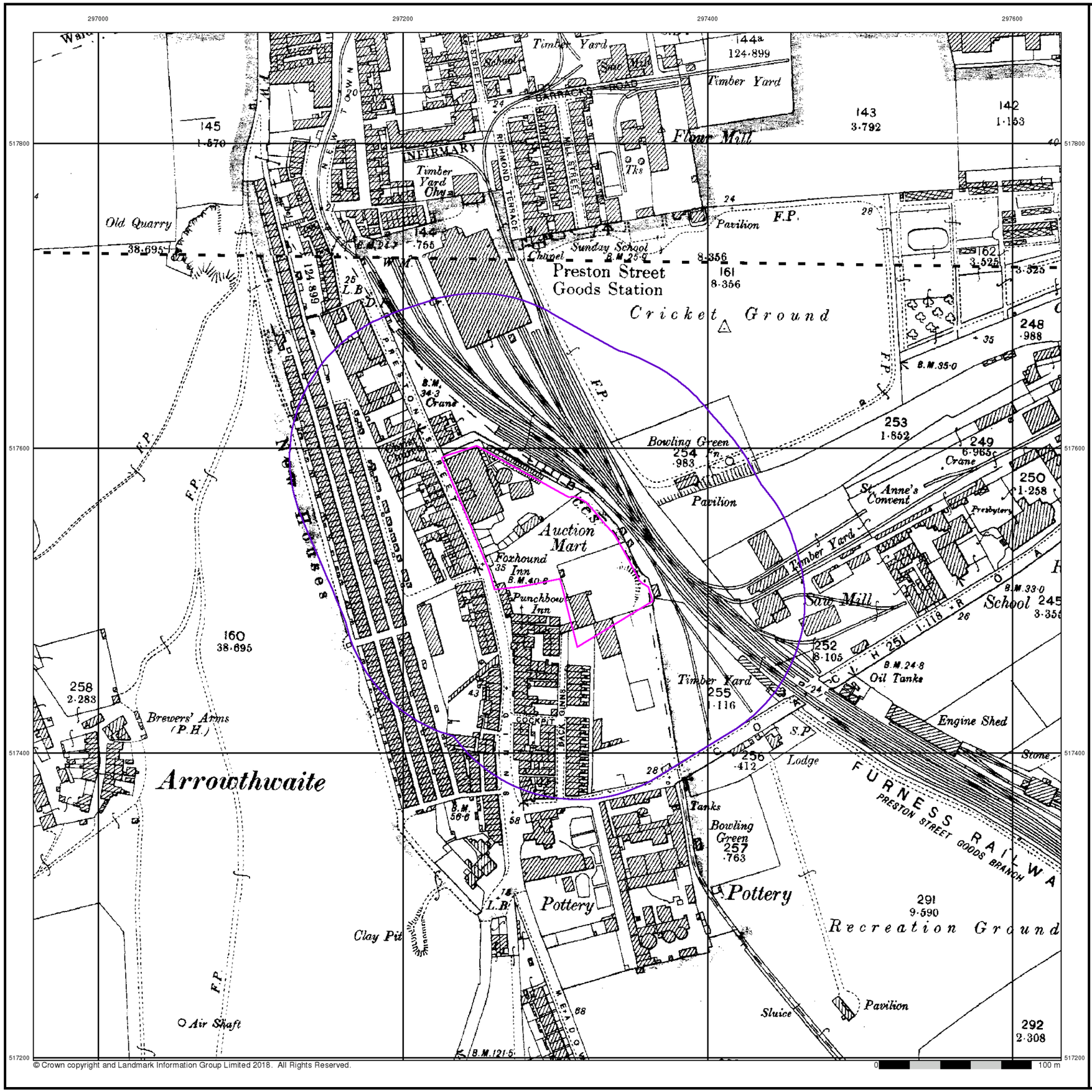

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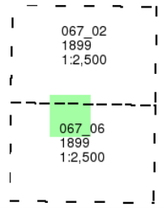
Cumberland

Published 1899

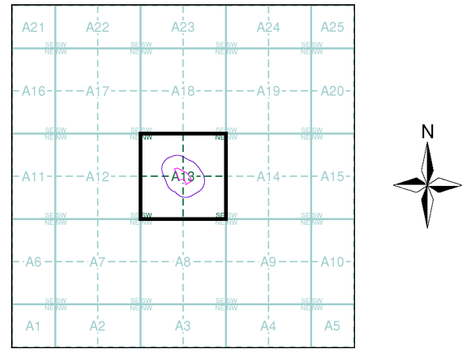
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	100

Site Details

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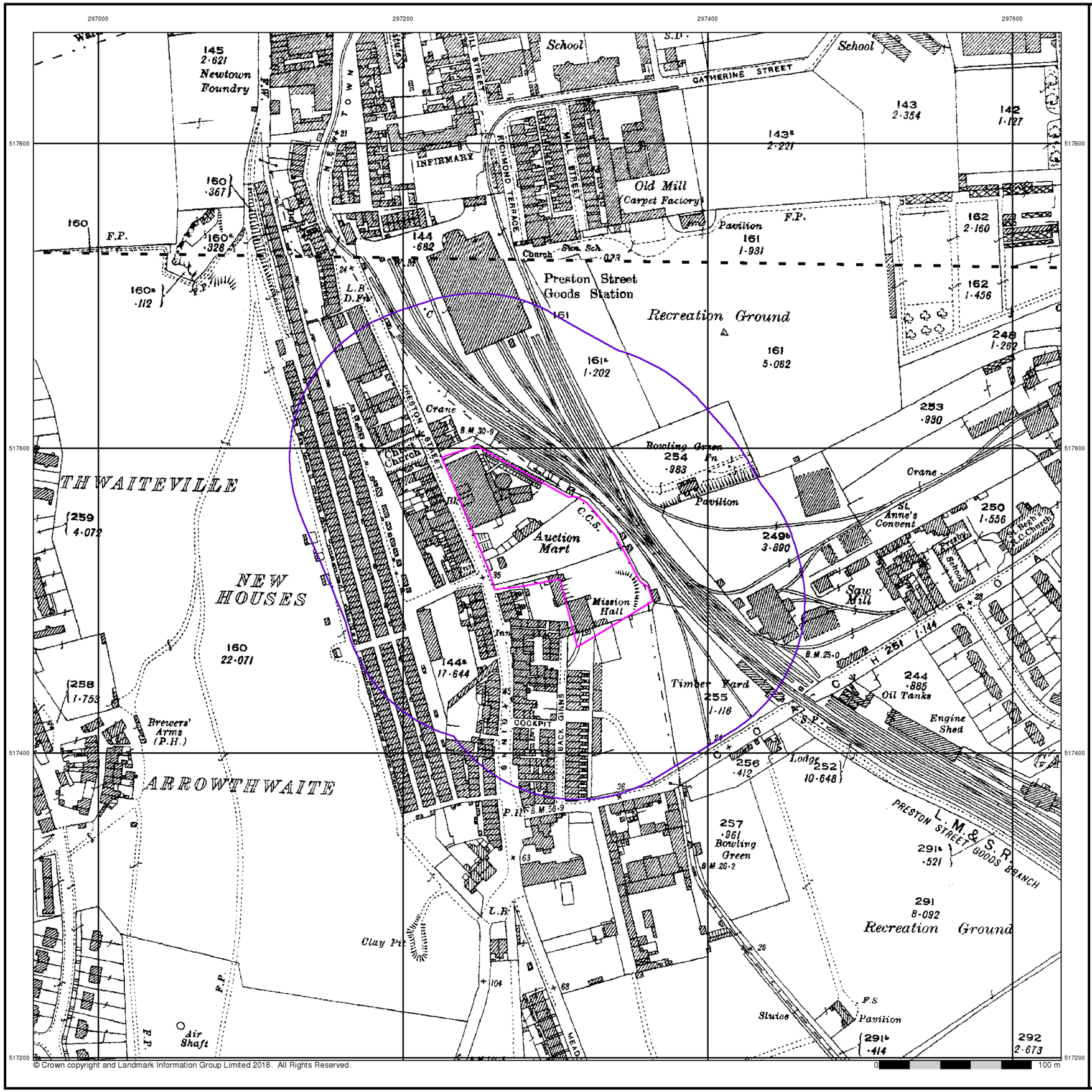

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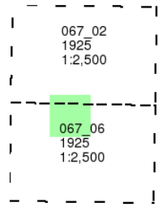
Cumberland

Published 1925

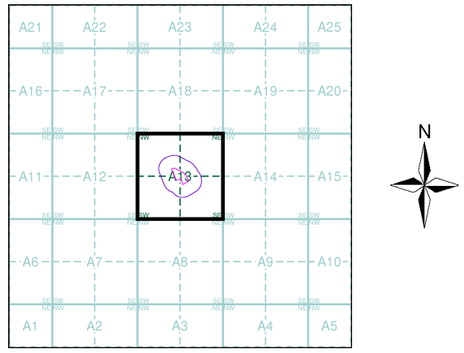
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
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Site Details

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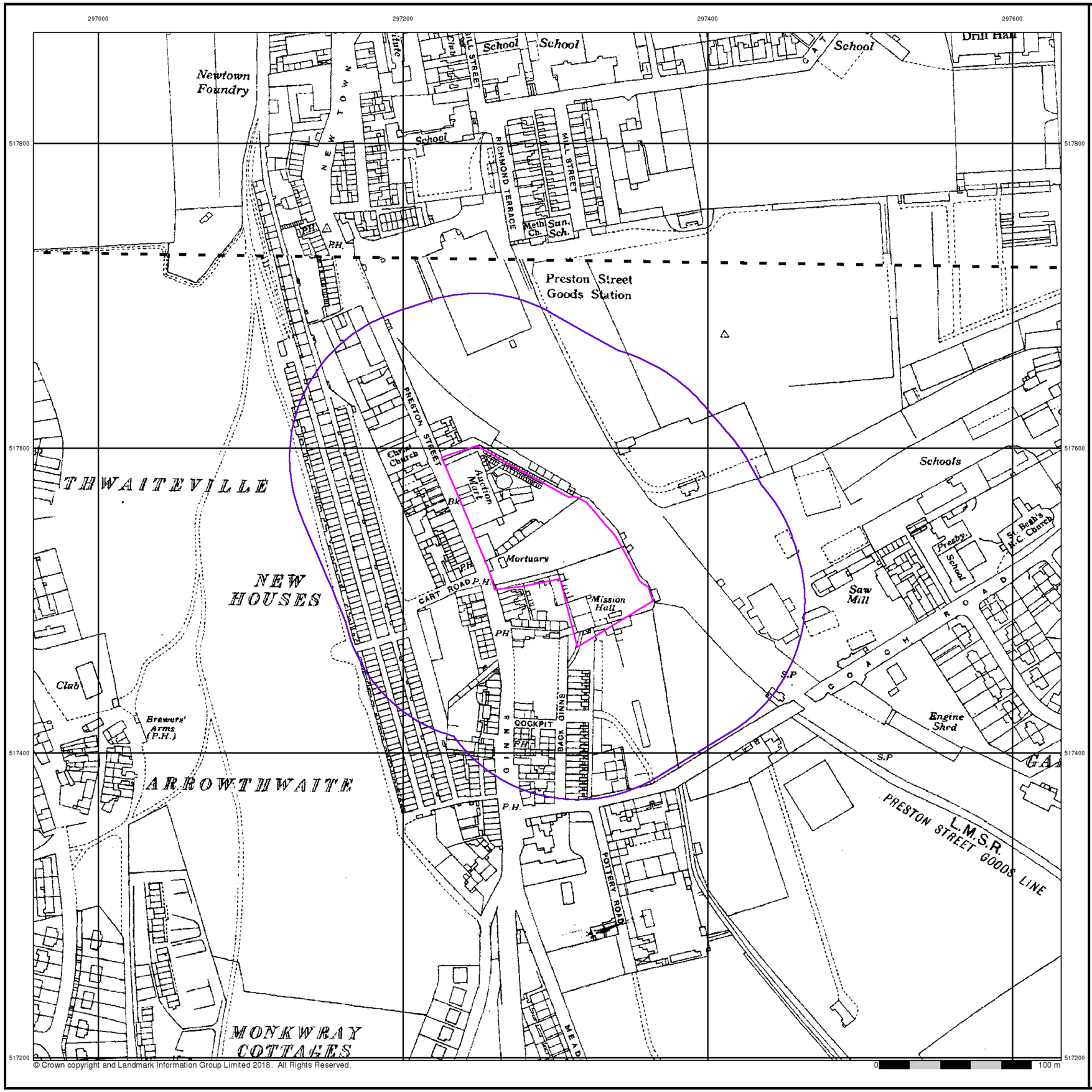

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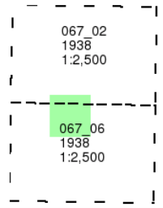
Cumberland

Published 1938

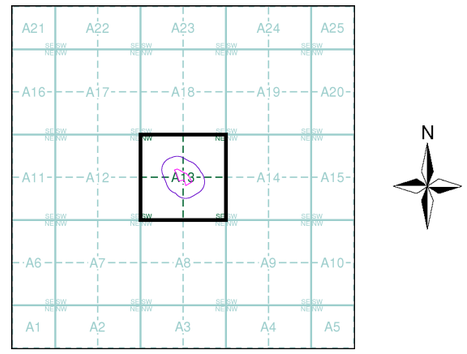
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	100

Site Details

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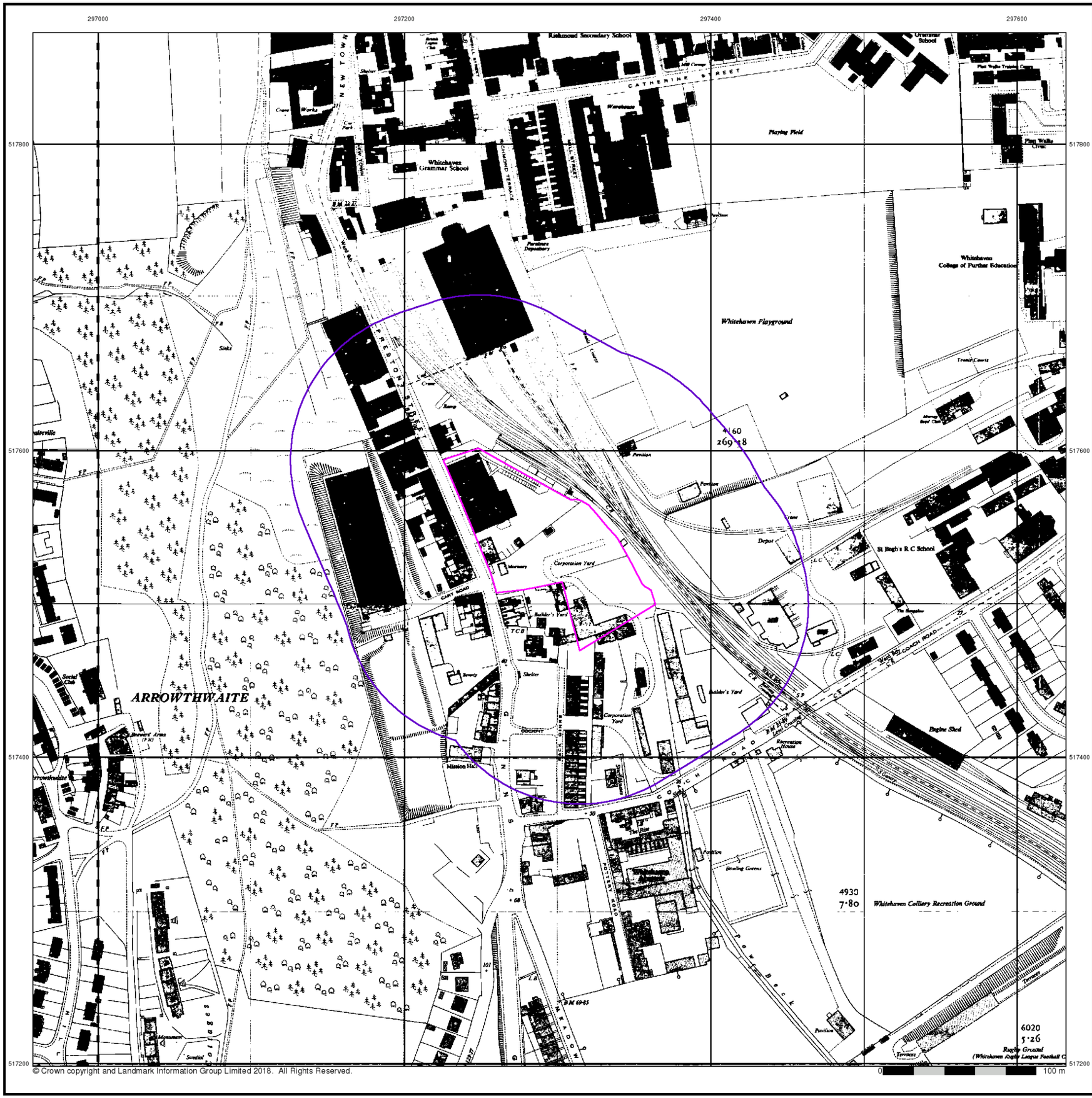

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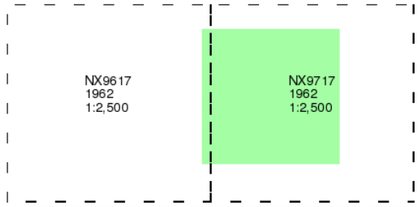
Ordnance Survey Plan

Published 1962

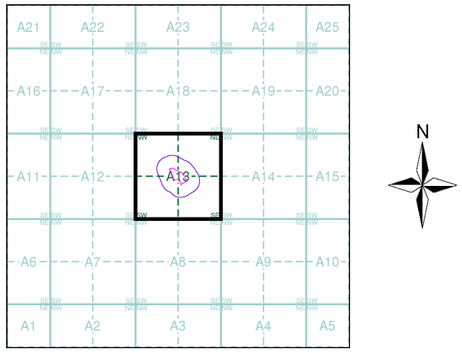
Source map scale - 1:2,500

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 A13



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	100

Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

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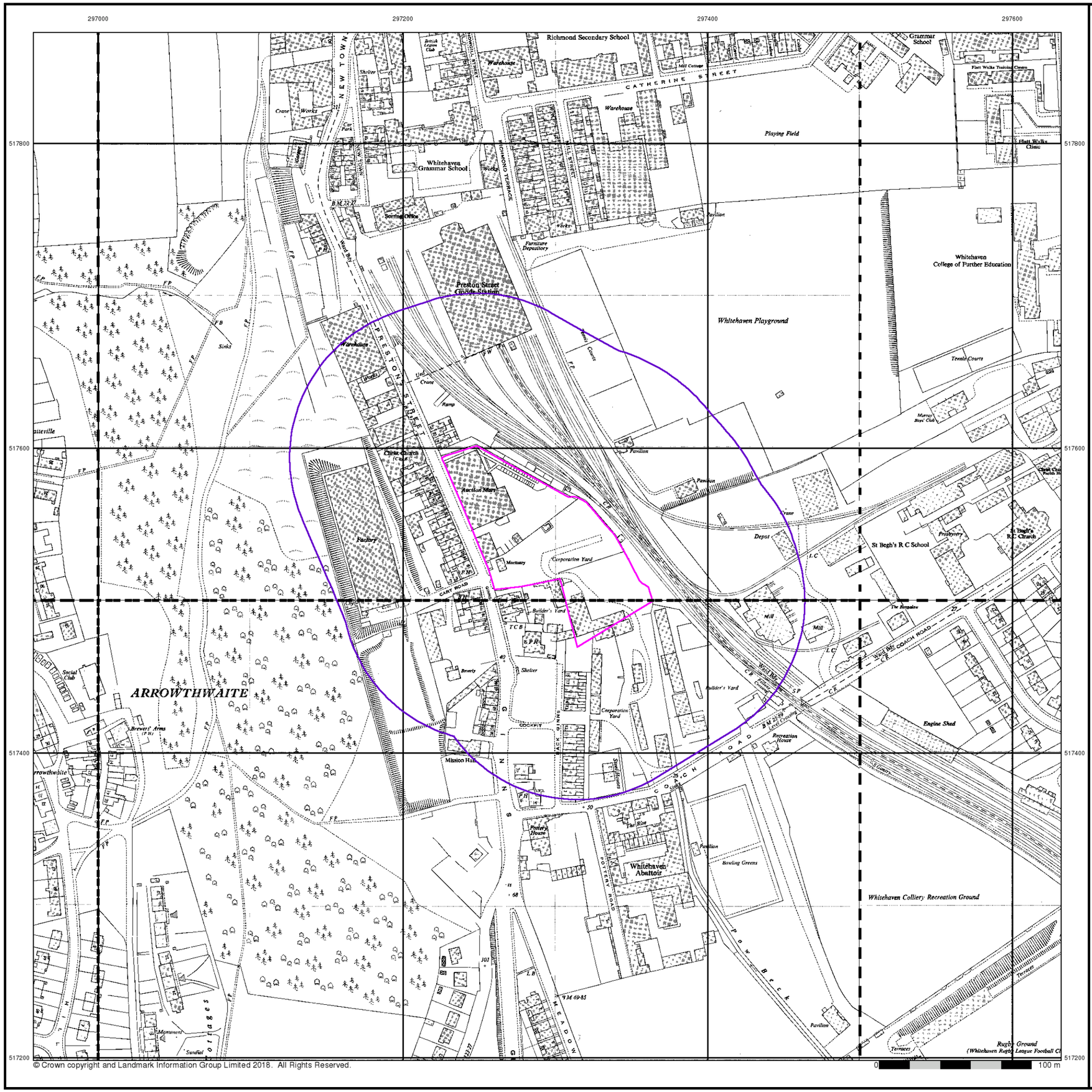

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Ordnance Survey Plan

Published 1962

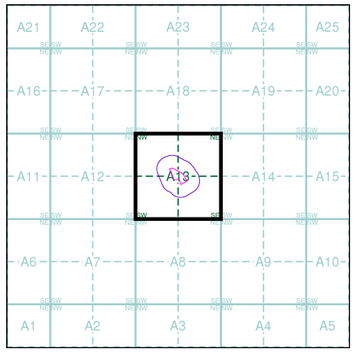
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

NX9617NE 1962 1:1,250	NX9717NW 1962 1:1,250	NX9717NE 1962 1:1,250
NX9617SE 1962 1:1,250	NX9717SW 1962 1:1,250	NX9717SE 1962 1:1,250

Historical Map - Segment A13



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	100

Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

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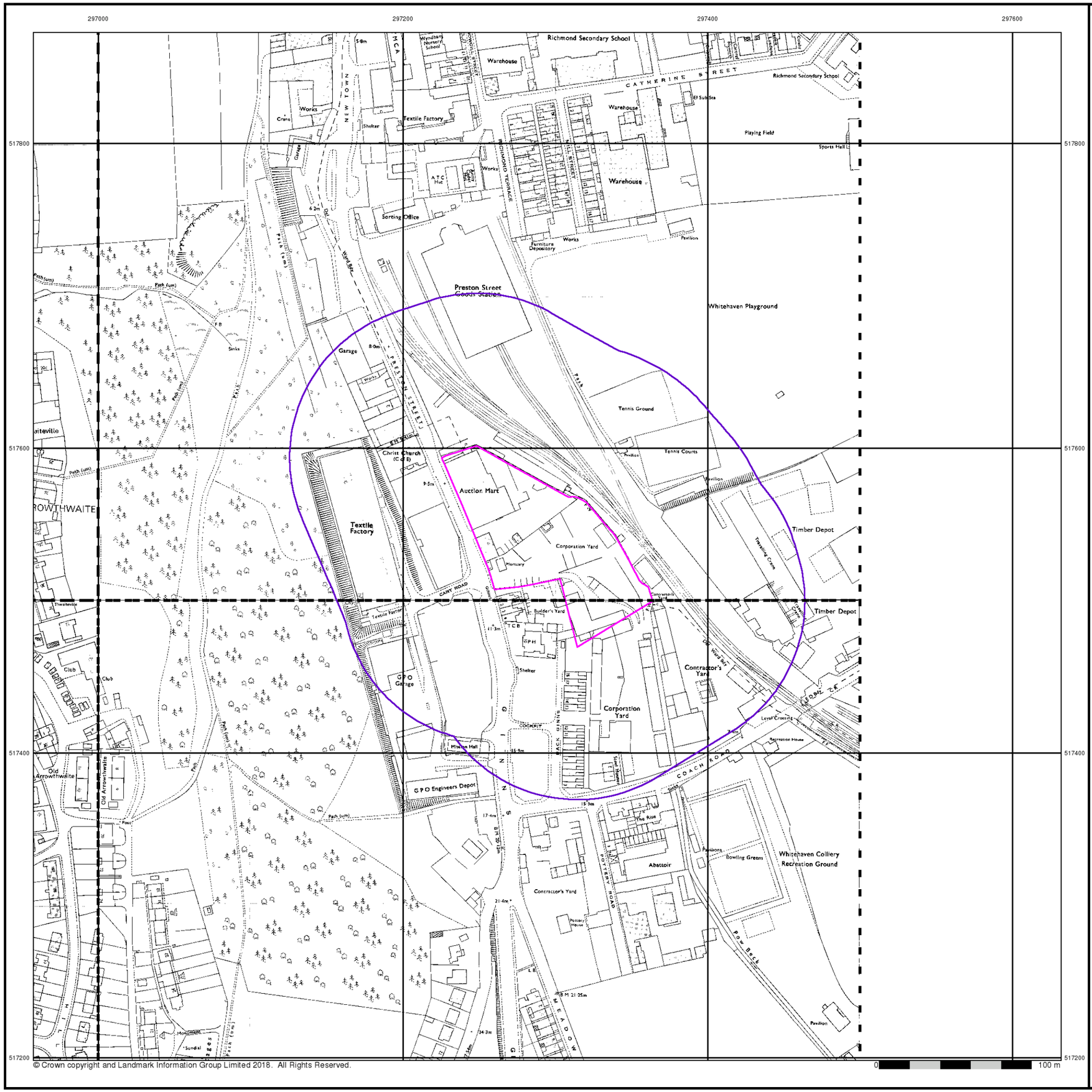

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Ordnance Survey Plan

Published 1975 - 1984

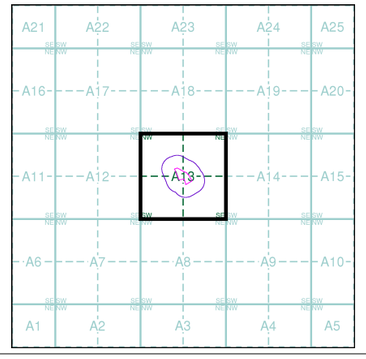
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

NX9617NE 1984 1:1,250	NX9717NW 1975 1:1,250
NX9617SE 1984 1:1,250	NX9717SW 1975 1:1,250

Historical Map - Segment A13



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Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	100

Site Details

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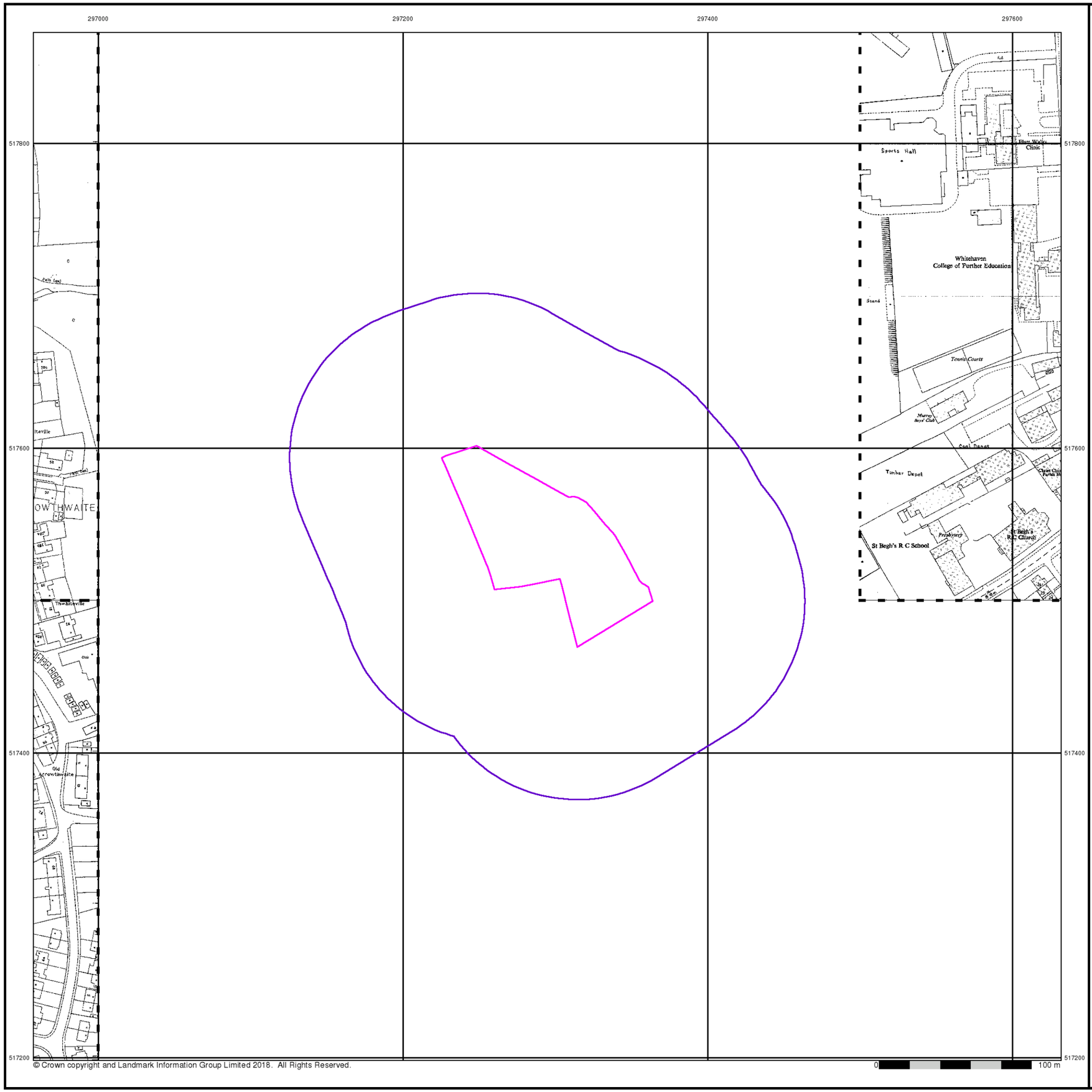

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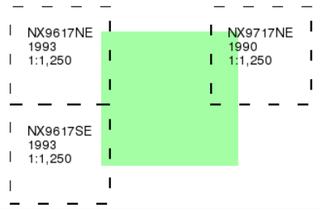
Additional SIMs

Published 1990 - 1993

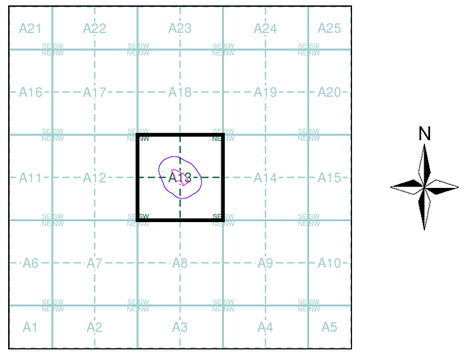
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
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Site Details

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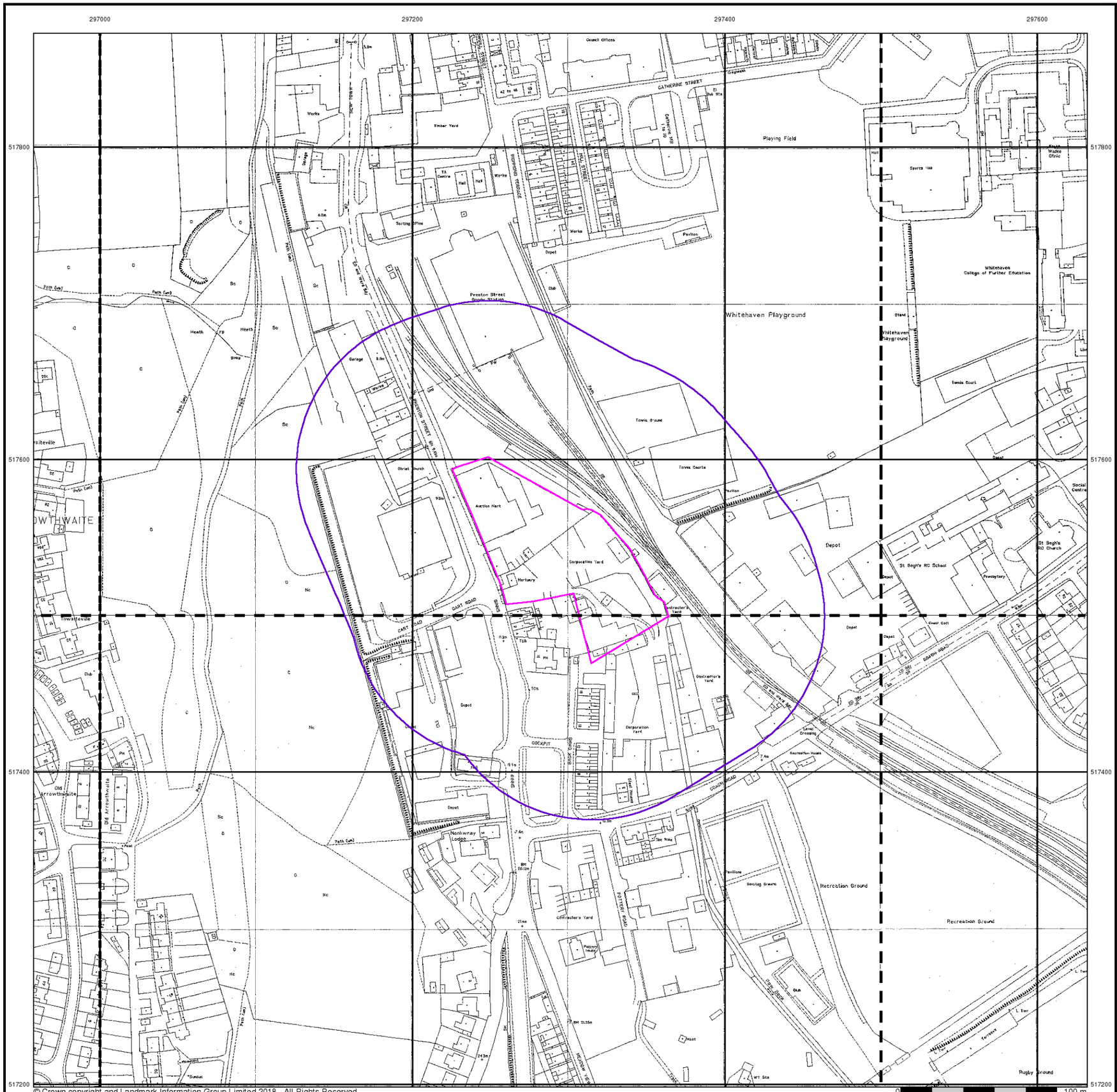
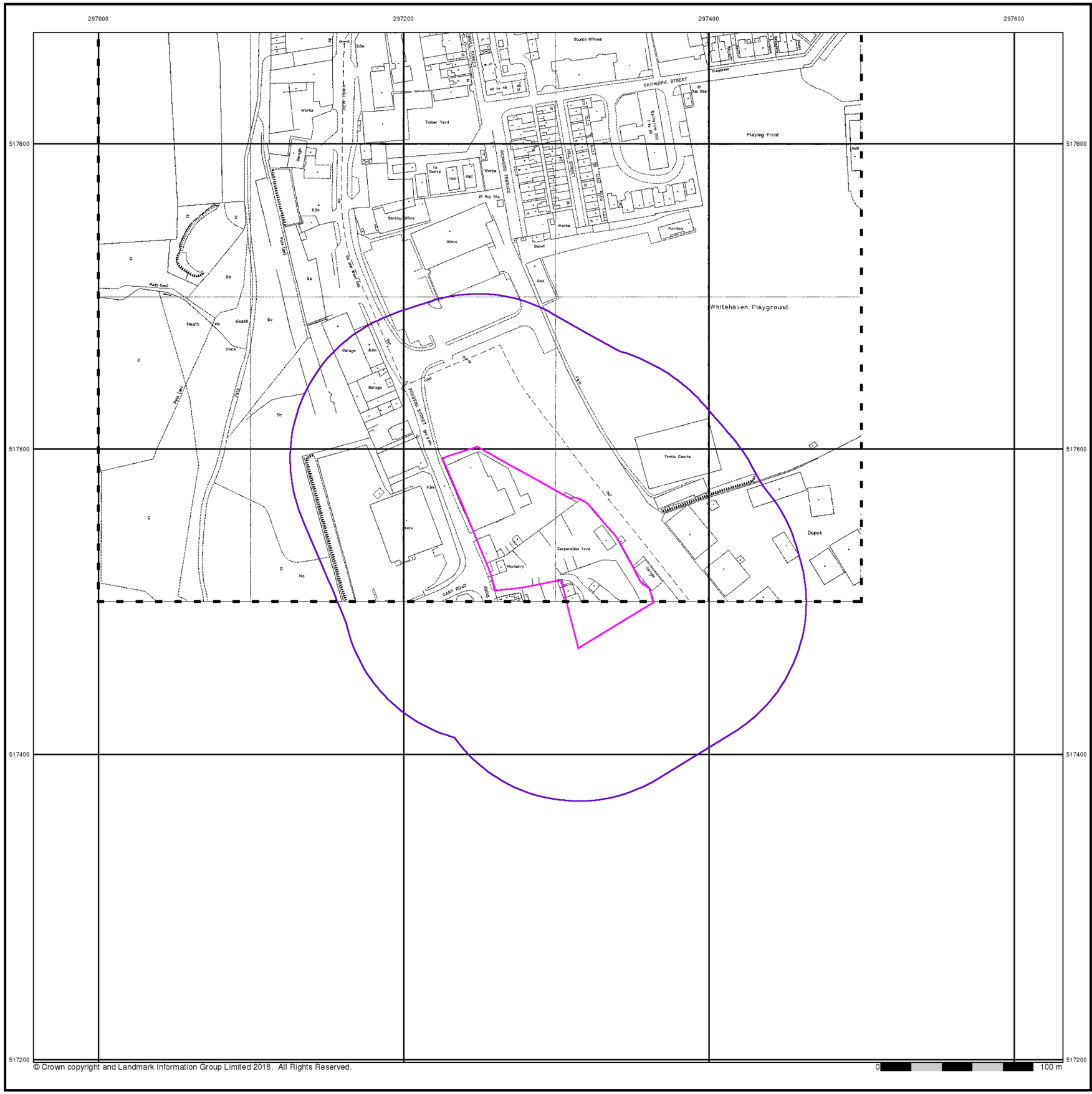

297000
297200
297400
297600
517800
517600
517400
517200
Playing Field
Whitehaven Playground
Whitehaven College of Further Education
Preston Street Goods Station
Tennis Courts
Recreation Ground
Rugby Ground
Depot
Corporation Yard
Contractor's Yard
Auction Mart
Mortuary
Sports Hall
Tennis Court
Pavilion
Club
Garage
Works
Timber Yard
Council Offices
Sorting Office
Heath
Path (um)
Path (um)
Path (um)



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0 100 m

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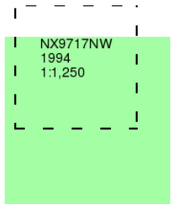
Large-Scale National Grid Data

Published 1994

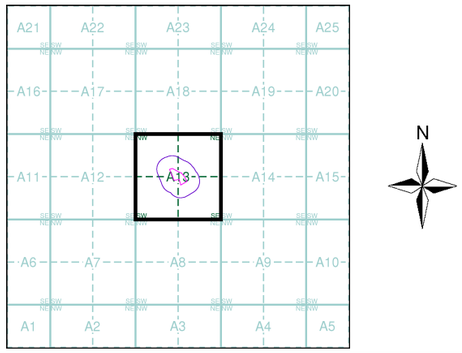
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	100

Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

Landmark INFORMATION GROUP

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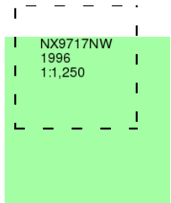
Large-Scale National Grid Data

Published 1996

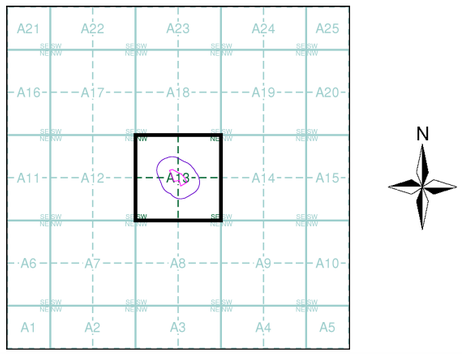
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	100

Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

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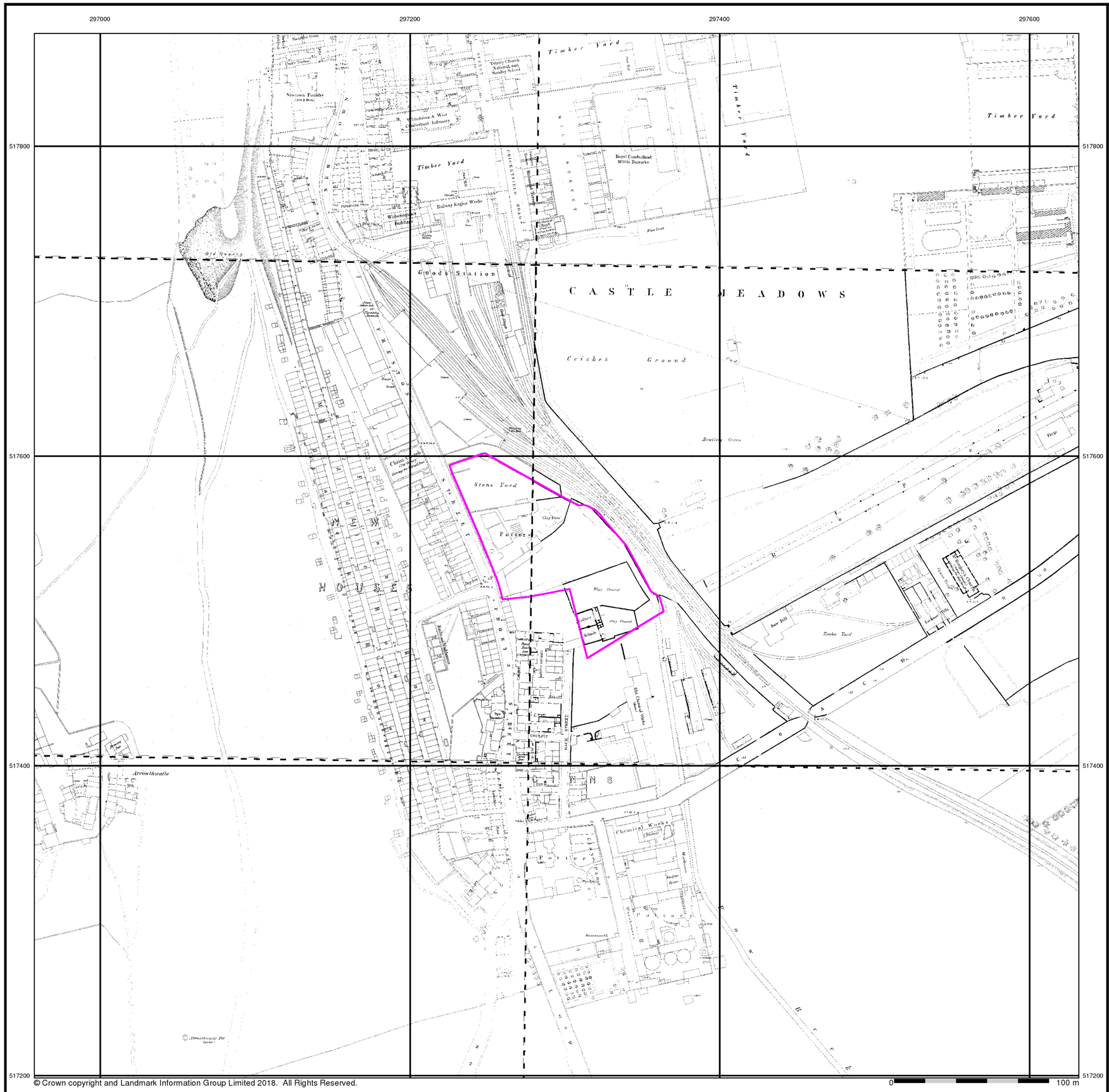

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consulting engineers

Cumberland

Published 1840 - 1879

Source map scale - 1:500

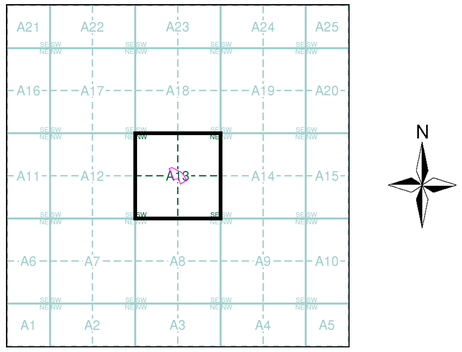
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)

067_02_022 1866 1:500	067_02_023 1866 1:500
067_06_002 1879 1:500	067_06_003 1863 1:500
067_06_007 1840 1:500	067_06_008 1866 1:500

Historical Town Plan - Segment A13



Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	0

Site Details

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Appendix C

Envirocheck Report

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
177541866_1_1

Customer Reference:
P18-351

National Grid Reference:
297290, 517540

Slice:
A

Site Area (Ha):
0.83

Search Buffer (m):
1000

Site Details:

Aldi Stores Ltd
Preston Street
Whitehaven
CA28 9DL

Client Details:

Mrs N Watson
3e Consulting Engineers Ltd
2 Esh Plaza
Sir Bobby Robson Way
Great Park
Newcastle upon Tyne
NE13 9BA

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	21
Hazardous Substances	24
Geological	25
Industrial Land Use	34
Sensitive Land Use	41
Data Currency	42
Data Suppliers	46
Useful Contacts	47

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

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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 1				5
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 2		1		
Integrated Pollution Prevention And Control	pg 3		1		
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3			2	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 3		2	4	10
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 6				3
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 7				2
Water Abstractions	pg 7				1
Water Industry Act Referrals					
Groundwater Vulnerability	pg 7	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 7		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 10		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 10	1	4	13	69

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)	pg 21				1
Licensed Waste Management Facilities (Locations)	pg 21			1	2
Local Authority Landfill Coverage	pg 21	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 21			2	1
Registered Landfill Sites	pg 22				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 23		1	1	
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 24				1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 25	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 25		10	6	23
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 31	Yes	n/a	n/a	n/a
Mining Instability	pg 31	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 31				1
Natural Cavities	pg 32				1
Non Coal Mining Areas of Great Britain	pg 32	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 32	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 32	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 32	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 32	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 32	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 34		21	17	39
Fuel Station Entries	pg 40		1	2	1
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 41				2
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	pg 41				1
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 41				1
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	0	1	297291 517600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NE)	0	1	297291 517537
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	0	1	297291 517550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	153	1	297100 517500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	199	1	297050 517500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	220	1	297291 517250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	226	1	297000 517600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	270	1	297291 517200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	489	1	297050 518050
1	**Discharge Consents** Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Esk Avenue Mirehouse Cso 51-52 Esk Avenue, Copeland, Whitehaven, Cumbria, Ca28 8an Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 017480429 Permit Version: 2 Effective Date: 1st April 2018 Issued Date: 12th March 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib Of Pow Beck **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	529	2	297830 517250
1	**Discharge Consents** Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Esk Avenue Mirehouse Cso 51-52 Esk Avenue, Copeland, Whitehaven, Cumbria, Ca28 8an Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 017480429 Permit Version: 1 Effective Date: 7th March 2005 Issued Date: 7th March 2005 Revocation Date: 31st March 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib Of Pow Beck **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	529	2	297830 517250

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: Esk Avenue Mirehouse Cso 51-52 Esk Avenue, Copeland, Whitehaven, Cumbria, Ca28 8an Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 01COP0041 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 6th March 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Pow Beck **Status: Consent revoked or revised: New Consent issued (Section 37(1))** Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	608	2	297880 517180
3	**Discharge Consents** Operator: North West Water Ltd Property Type: Not Given Location: North West W A , West Strand Outfall Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: COP0094 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 1st April 1991 Revocation Date: Not Supplied Discharge Type: Storm Sewage Discharge Environment: Coastal Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	802	2	296500 517935
4	**Discharge Consents** Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Kells Outfall, Whitehaven, Copeland, Cumbria Authority: Environment Agency, North West Region Catchment Area: Duddon Reference: 017470156 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 1st September 1996 Discharge Type: Sewage Discharges - Unspecified - Water Company Discharge Environment: Unknown Receiving Water: Unknown Outlet; Licence Status: Revoked **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	835	2	296520 518040
5	**Integrated Pollution Controls** Name: Rhodia Consumer Specialties Ltd Location: Po Box 15, Whitehaven, Cumbria, Ca28 9qq Authority: Environment Agency, North West Region Permit Reference: Bt1134 Dated: Not Supplied Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (J) Manufacture and use of Organic Chemicals within the Chemical Industry **Status: Application has met the requirements for authorisation (but not yet authorised)** Positional Accuracy: Manually positioned within the geographical locality	A13SW (S)	173	2	297268 517303

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Integrated Pollution Prevention And Control** Name: Npower Cogen Ltd Location: Whitehaven Works, Po Box 15, Whitehaven, Cumbria, CA28 9QQ Authority: Environment Agency, North West Region Permit Reference: Bu3680id Original Permit Ref: Bu3680id Effective Date: 25th March 2004 **Status: Superseded By Variation** Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned within the geographical locality Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 4.1 A(1) (A) (II) Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols Primary Activity: Y	A13NW (N)	204	2	297200 517800
7	**Local Authority Pollution Prevention and Controls** Name: Wm Morrison Plc Petrol Filling Station Location: Flatt Walks, WHITEHAVEN, Cumbria, CA28 Authority: Copeland Borough Council, Environmental Health Department Permit Reference: CBC/LAPPC/B/24 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	353	3	297600 517780
8	**Local Authority Pollution Prevention and Controls** Name: Corkickle Service Station Location: Back Corkickle, Whitehaven, Cumbria, CA28 7TS Authority: Copeland Borough Council, Environmental Health Department Permit Reference: CBC/LAPPC/B/5 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	441	3	297783 517634
9	**Local Authority Pollution Prevention and Controls** Name: Lakeland Dry Cleaners Location: 18 Church Street, Whitehaven, Ca28 7eb Authority: Copeland Borough Council, Environmental Health Department Permit Reference: CBC/LAPPC/B27 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A18SE (N)	566	3	297362 518156
10	**Local Authority Pollution Prevention and Controls** Name: Tesco Petrol Filling Station Location: Bransty Row, North Shore, Whitehaven, Cumbria, CA28 7XY Authority: Copeland Borough Council, Environmental Health Department Permit Reference: CBC/LAPPC/B/25 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A23SE (N)	990	3	297482 518563
	Nearest Surface Water Feature	A13SE (SE)	114	-	297381 517378
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Pow Beck Incident Date: 27th November 1994 Incident Reference: 94120149 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	104	2	297400 517400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Pollution Incidents to Controlled Waters** Property Type: Ships/Boats Location: Whitehaven Dock, Irish Sea Authority: Environment Agency, North West Region Pollutant: Oils - Other Fuel Oil Note: Oil Incident Date: 8th October 1997 Incident Reference: 97120092 Catchment Area: Irish Sea Coastal Receiving Water: Coastal Water Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Unknown	A13SE (S)	171	2	297300 517300
13	**Pollution Incidents to Controlled Waters** Property Type: Chemical industry Location: Albright & Wilson Authority: Environment Agency, North West Region Pollutant: Chemicals - Detergents/Surfactant Note: Foam On Sea Incident Date: 7th November 1998 Incident Reference: NO980472 Catchment Area: Irish Sea Coastal Receiving Water: Coastal Water Cause of Incident: High Flow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	297	2	297500 517800
14	**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: Pow Beck Incident Date: 17th June 1994 Incident Reference: 94120065 Catchment Area: Irish Sea Coastal 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	A13SE (SE)	327	2	297500 517200
15	**Pollution Incidents to Controlled Waters** Property Type: Spillage; Accident In Transit Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Acid Note: Irish Sea; Phosphoric Acid Incident Date: 10th February 1993 Incident Reference: 93120014 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	465	2	297000 518000
16	**Pollution Incidents to Controlled Waters** Property Type: Spillage; Accident In Transit Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Acid Note: Phosphoric Acid Incident Date: 3rd November 1992 Incident Reference: 92120116 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	478	2	297400 517000
17	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Whitehaven A F C Authority: Environment Agency, North West Region Pollutant: Sewage - Storm Overflow Note: Sewage Incident Date: 18th December 1998 Incident Reference: NO980529 Catchment Area: Irish Sea Coastal Receiving Water: Freshwater Stream/River Cause of Incident: CSO Normal Operation Incident Severity: Category 3 - Minor Incident Positional Accuracy: Unknown	A14NW (NE)	527	2	297800 517800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**Pollution Incidents to Controlled Waters** Property Type: Spillage; Accident In Transit Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Foam Note: Whitehaven Harbour Incident Date: 5th December 1991 Incident Reference: 91120126 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	601	2	297200 518200
19	**Pollution Incidents to Controlled Waters** Property Type: Spillage; Accident In Transit Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Irish Sea Tributary Incident Date: 30th April 1991 Incident Reference: 91120034 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	700	2	297200 518300
20	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Petrol Note: Pow Beck Incident Date: 1st February 1995 Incident Reference: 95120013 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	715	2	297400 518300
21	**Pollution Incidents to Controlled Waters** Property Type: No Premises Identified Location: Whitehaven Harbour / Pow Beck, WHITEHAVEN HARBOUR, Cumbria Authority: Environment Agency, North West Region Pollutant: No Pollutant Note: Not Supplied Incident Date: 5th August 1999 Incident Reference: 31015 Catchment Area: Not Given Receiving Water: Coastal Water Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	800	2	297200 518400
22	**Pollution Incidents to Controlled Waters** Property Type: Ships/Boats Location: Whitehaven Harbour, WHITEHAVEN Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Oil Incident Date: 30th January 1998 Incident Reference: NO980033 Catchment Area: Irish Sea Coastal Receiving Water: Coastal Water Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	813	2	297400 518400
23	**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: Pow Beck Incident Date: 7th February 1995 Incident Reference: 95120035 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Leaking Underground Pipe Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	821	2	297600 516700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Industrial Effluent Note: Not Supplied Incident Date: 5th August 1993 Incident Reference: 93120081 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	844	2	296800 516800
25	**Pollution Incidents to Controlled Waters** Property Type: Connection To Surface Drains Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Sewage Debris/Litter Note: Un Named Stream; Domestic Sewage Incident Date: 20th June 1996 Incident Reference: 96120066 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	937	2	298300 517500
26	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Detergents/Surfactant Note: Not Supplied Incident Date: 12th October 1994 Incident Reference: 94120122 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	972	2	296300 517300
27	**Registered Radioactive Substances** Name: Centre For Environment Fisheries And Aquaculture Location: Fisheries Radiobiological Laboratory, West Strand, WHITEHAVEN, Cumbria, CA28 7LY Authority: Environment Agency, North West Region Permit Reference: AV1858 Dated: 25th July 1996 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	834	2	296845 518336
27	**Registered Radioactive Substances** Name: Centre For Environment Fisheries And Aquaculture Location: Fisheries Radiobiological Laboratory, West Strand, WHITEHAVEN, Cumbria, CA28 7LY Authority: Environment Agency, North West Region Permit Reference: AK0936 Dated: 6th October 1993 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of multiple open sources which are also the subject of authorisations **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	839	2	296845 518341
27	**Registered Radioactive Substances** Name: Centre For Environment Fisheries And Aquaculture Location: The Cefas Whitehaven Laboratory, West Strand, WHITEHAVEN, Cumbria, CA28 7LY Authority: Environment Agency, North West Region Permit Reference: BB0698 Dated: 7th May 1998 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation either revoked or cancelled** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	846	2	296840 518346

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, North Area Incident Date: 30th October 2006 Incident Reference: 446969 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Oils And Fuel: Mixed/Waste Oils	A18NW (N)	850	2	297105 518439
29	**Substantiated Pollution Incident Register** Authority: Environment Agency - North West Region, North Area Incident Date: 23rd October 2006 Incident Reference: 445208 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Oils - Diesel (Including Agricultural)	A18NE (N)	918	2	297375 518511
30	**Water Abstractions** Operator: Whitehaven Brick & Tile Co Ltd Licence Number: 2774002003 Permit Version: Not Supplied Location: Inland Water At Fire Brick Works, WHITEHAVEN, Cumbria Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 1 Yearly Rate (m3): 455 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SE (S)	770	2	297300 516700
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 6 South West Cumbria Scale: 1:100,000	A13NW (NE)	0	2	297291 517537
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (NE)	0	1	297291 517537
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (NE)	0	1	297291 517537
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SW (SW)	0	1	297279 517523
	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	A13NE (NE)	1	2	297310 517570
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	73	2	297353 517408
	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 / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	74	2	297370 517417
	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	A13SE (SE)	74	2	297370 517417
	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 / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	76	2	297380 517421

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 Boundary Accuracy: As Supplied	A13SE (E)	107	2	297468 517477
	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	A13SE (SE)	119	2	297473 517452
	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	A13SE (SE)	119	2	297471 517450
	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	A13SE (SE)	124	2	297479 517455
	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	A13SE (E)	128	2	297484 517459
	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	A13SE (E)	131	2	297488 517461
	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	A13SE (SE)	134	2	297481 517435
	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	A13SE (E)	134	2	297492 517463
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13NW (N)	136	2	297218 517734
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	138	2	297468 517410
	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	A13SE (SE)	139	2	297469 517409
	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	A13SE (E)	142	2	297503 517472
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	144	2	297473 517407
	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	A13SE (SE)	150	2	297502 517442
	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	A13SE (SE)	155	2	297506 517439
	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	A13SE (SE)	162	2	297516 517444

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 Boundary Accuracy: As Supplied	A13SE (E)	165	2	297523 517457
	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	A13SE (SE)	166	2	297491 517394
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (N)	189	2	297240 517790
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	191	2	297513 517381
	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	A13SE (SE)	194	2	297515 517379
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	201	2	297522 517376
	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	A13SE (SE)	202	2	297523 517375
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	206	2	297526 517374
	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	A13SE (SE)	207	2	297527 517373
	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	A13NW (NW)	221	2	297166 517806
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	224	2	297165 517810
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	224	2	297165 517810
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	225	2	297162 517810
	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	A13NW (NW)	225	2	297168 517812
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models and Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13NW (NW)	226	2	297175 517815
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	227	2	297545 517364

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: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	227	2	297171 517815
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	233	2	297550 517361
	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	A13SE (S)	241	2	297408 517248
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (S)	242	2	297408 517246
	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	A13SE (SE)	242	2	297558 517357
	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	A13SE (S)	246	2	297410 517243
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (SE)	247	2	297563 517355
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial / Tidal Events Boundary Accuracy: As Supplied	A13SE (S)	249	2	297410 517240
	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	A13SE (SE)	250	2	297566 517353
	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	A13SE (SE)	74	2	297370 517417
	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	A13SE (SE)	88	2	297420 517433
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 386.6 Watercourse Level: Underground Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A13NE (NE)	0	4	297315 517553
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 115.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	112	4	297198 517703

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 523.5 Watercourse Level: Underground Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	112	4	297198 517703
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 318.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A13SE (SE)	114	4	297380 517377
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 131.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	156	4	297088 517668
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	276	4	296972 517702
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	276	4	296972 517702
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Midgey Gill Catchment Name: Ehen-Calder Primacy: 1	A14NW (NE)	409	4	297715 517714
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Midgey Gill Catchment Name: Ehen-Calder Primacy: 1	A14NW (E)	414	4	297725 517705
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NW (E)	414	4	297725 517705
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 398.8 Watercourse Level: Underground Permanent: True Watercourse Name: Midgey Gill Catchment Name: Ehen-Calder Primacy: 1	A14NW (NE)	416	4	297715 517727

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.4 Watercourse Level: Underground Permanent: True Watercourse Name: Midgey Gill Catchment Name: Ehen-Calder Primacy: 1	A14NW (E)	421	4	297735 517701
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 184.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8NE (SE)	424	4	297553 517117
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 196.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A8NE (SE)	426	4	297553 517117
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 129.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NW (E)	431	4	297741 517712
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 459.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SW (SE)	443	4	297707 517220
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 150.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NW (E)	475	4	297816 517644
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 175.6 Watercourse Level: Underground Permanent: True Watercourse Name: Midgey Gill Catchment Name: Ehen-Calder Primacy: 1	A14NW (E)	475	4	297816 517644
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NW (E)	559	4	297921 517536
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 240.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NW (NE)	561	4	297852 517778

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	593	4	297721 518001
52	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 214.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A18SW (N)	595	4	297118 518182
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NW (E)	596	4	297958 517539
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 346.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8NE (SE)	618	4	297630 516938
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.3 Watercourse Level: Underground Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	620	4	297675 516963
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	623	4	297710 518051
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	632	4	297706 518065
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	632	4	297706 518065
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 168.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Midgey Gill Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	638	4	297983 517653

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	639	4	297704 518074
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	639	4	297704 518074
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 467.4 Watercourse Level: Underground Permanent: True Watercourse Name: Midgey Gill Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	640	4	297669 518101
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	640	4	297669 518101
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	644	4	297677 516937
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	644	4	298005 517547
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	645	4	297738 518056
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 138.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17SE (NW)	656	4	296675 517949
68	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 297.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A18NW (N)	657	4	297183 518255

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 343.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	663	4	297678 516915
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 215.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	663	4	297678 516915
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 105.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	663	4	298023 517559
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	663	4	298023 517559
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SE (S)	671	4	297349 516800
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	674	4	297692 518126
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SE (S)	678	4	297371 516794
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17SE (NW)	685	4	296735 518071
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17SE (NW)	688	4	296736 518076

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	700	4	297713 518144
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	700	4	297713 518144
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SE (E)	755	4	298115 517431
81	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	756	4	298116 517575
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	760	4	298120 517577
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SE (E)	766	4	298126 517434
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 149.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SE (E)	766	4	298126 517434
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SE (NE)	778	4	298004 517947
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 102.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	781	4	298101 517759

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 100.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	781	4	298101 517759
88	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 75.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A18NW (N)	799	4	297021 518368
89	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 153.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A18NW (N)	816	4	297088 518402
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SE (NE)	827	4	298037 517986
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 216.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	843	4	298134 517845
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	846	4	298201 517618
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 305.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SE (NE)	848	4	298053 517999
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	850	4	297746 516738
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	869	4	297752 516719

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	869	4	297752 516719
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	873	4	297767 516723
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	873	4	298186 517793
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	904	4	298255 517648
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SE (E)	911	4	298272 517438
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SE (E)	911	4	298272 517438
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SE (E)	914	4	298275 517438
103	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 583.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A18NW (N)	919	4	297060 518500
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	934	4	298244 517812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	956	4	298266 517816
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	956	4	298266 517816
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (E)	957	4	298320 517490
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	959	4	297781 516632
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 311.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Snebra Beck Catchment Name: Ehen-Calder Primacy: 1	A9SE (SE)	963	4	297975 516757
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (E)	982	4	298345 517523
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 412.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	988	4	297740 516578
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 153.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	988	4	297749 516583
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Snebra Beck Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	988	4	297749 516583

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 137.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Snebra Beck Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	991	4	297768 516590
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	995	4	297885 516653
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Snebra Beck Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	997	4	297885 516651
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.4 Watercourse Level: Underground Permanent: True Watercourse Name: Snebra Beck Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	997	4	297886 516651

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Woodhouse Quarry Licence Number: 57167 Location: Woodhouse Quarry, Low Road, Whitehaven, Cumbria, CA28 9HS Licence Holder: Eotl2 Ltd Authority: Environment Agency - North West Region, North Area Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) Max Input Rate: Not Supplied **Licence Status: Expired** Issued: 13th January 1992 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8SE (S)	682	2	297325 516788
119	**Licensed Waste Management Facilities (Locations)** Licence Number: 57263 Location: 12/14 Albion Street , Whitehaven, Cumbria, CA28 9AD Operator Name: Hanratty Peter Operator Location: Not Supplied Authority: Environment Agency - North West Region, North Area Site Category: Metal Recycling Sites (Mixed) **Licence Status: Revoked** Issued: 1st June 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: 14th October 2014 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18SW (N)	303	2	297200 517900
120	**Licensed Waste Management Facilities (Locations)** Licence Number: 57167 Location: Woodhouse Quarry, Low Road, Whitehaven, Cumbria, CA28 9HS Operator Name: Eotl2 Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, North Area Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) **Licence Status: Expired** Issued: 13th January 1992 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 100m	A8SW (S)	877	2	297200 516600
121	**Licensed Waste Management Facilities (Locations)** Licence Number: 57570 Location: Unit 25, Meadow Road, Whitehaven, Cumbria, CA28 9HX Operator Name: Auto Spares And Repairs Limited Operator Location: Not Supplied Authority: Environment Agency - North West Region, North Area Site Category: End of Life Vehicles **Licence Status: Revoked** Issued: 2nd April 2007 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: 13th January 2009 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	906	2	297700 516650
	Local Authority Landfill Coverage Name: Copeland Borough Council - Has supplied landfill data		0	3	297291 517537
	Local Authority Landfill Coverage Name: Cumbria County Council - Had landfill data but passed it to the relevant environment agency		0	5	297291 517537
122	**Local Authority Recorded Landfill Sites** Location: Albion Street, Whitehaven Reference: 263 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	A18SW (NW)	298	3	297124 517874

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	**Local Authority Recorded Landfill Sites** Location: Albion Street, Whitehaven Reference: 263 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	A18SW (NW)	342	3	297125 517922
124	**Local Authority Recorded Landfill Sites** Location: Woodhouse Quarry, Whitehaven Reference: 167 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	A8SW (S)	812	3	297145 516676
125	**Registered Landfill Sites** Licence Holder: Newdale Construction Ltd Licence Reference: 167/M4 Site Location: Woodhouse Quarry, Low Road, Whitehaven, Cumbria, Ca28 9hs Licence Easting: 297150 Licence Northing: 516600 Operator Location: 4 King Street, Aspatria, Cumbria, Ca6 3et Authority: Environment Agency - North West Region, North Area Site Category: Landfill 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: Site not yet started Dated: 13th January 1992 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: H'Core,Concrete,Brick,Slate,Glass,Cera Inert Mat'L Consisting Of Max.Waste Permitted By Licence Soil,Sand,Clay,Stone Prohibited Waste: Animal Flesh Clinical - As In Coll/Disp.Regs Of '88 Difficult Wastes As In Doe Wmp No.26 Foodstuffs Hard Bonded Asbestos From Constr/Demol Leachate Forming Mat'Ls Incl. Liquid Wastes Metal Objects Paper/Cardboard Waste Plasterboard/Plaster Plastic Objects Sawdust Spec.Waste (Epa'90:S62/1996 Regs) Textiles Vegetable Matter Waste In Demountable Containers Wood/Timber	A8SW (S)	885	2	297150 516600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	**Registered Waste Treatment or Disposal Sites** Licence Holder: Partco Autoparts Ltd Licence Reference: 203/M1 Site Location: Border Yard, Coach Road, WHITEHAVEN, Cumbria, CA28 9DF Operator Location: Lea Francis House, Station Road, Balsall Common, COVENTRY, West Midlands, CV7 7FD Authority: Environment Agency - North West Region, North Area Site Category: Storage - with transfer Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st September 1992 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Alcohols Aldehydes And Ketones Aliphatic Hydrocarbons Aromatic Hydrocarbons Ethers Liq.Waste Cellulose Paint/Thinner Cont Max.Storage	A13SE (SE)	104	2	297400 517400
127	**Registered Waste Treatment or Disposal Sites** Licence Holder: P Hanratty Licence Reference: 263/M1 Site Location: Albion Street, WHITEHAVEN, Cumbria, CA28 9AD Operator Location: As Site Address Authority: Environment Agency - North West Region, North Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 1st June 1994 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Domestic Appliances Ferrous Metal Scrap Industrial Scrap Metal/Machinery Max.Waste Permitted By Licence Non-Ferrous Metal Scrap Scrap Vehicles Prohibited Waste: Clinical - As In Coll/Disp.Regs Of '88 Commercial Waste Construction And Demolition Wastes Difficult Wastes (As In Wmp.26) Drums/Cont'Rs Which Contain Waste Household Waste Industrial Wastes Liquid Wastes Non-Metal Waste Percussive/Explosive/Similar Waste Spec.Waste (Epa'90:S62/1996 Regs)N.O.S Waste N.O.S.	A18SW (N)	334	2	297150 517920

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	**Control of Major Accident Hazards Sites (COMAH)** Name: Rhodia Consumer Specialties Limited Location: Whitehaven Works, P O Box 15, High Street, WHITEHAVEN, Cumbria, CA28 9QQ Reference: Not Supplied Type: Upper Tier **Status: Record Ceased To Be Supplied Under COMAH Regulations** Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	910	6	297656 518415

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13NW (NE)	0	1	297291 517537
129	**BGS Recorded Mineral Sites** Site Name: Harris Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225752 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	48	1	297229 517472
130	**BGS Recorded Mineral Sites** Site Name: New Ginn Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225763 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bannock Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (S)	83	1	297265 517403
131	**BGS Recorded Mineral Sites** Site Name: Stowe Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225762 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bannock Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SE (S)	120	1	297306 517350
132	**BGS Recorded Mineral Sites** Site Name: Pedler Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225725 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	127	1	297135 517682
133	**BGS Recorded Mineral Sites** Site Name: Engine Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225753 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (S)	159	1	297247 517326

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	**BGS Recorded Mineral Sites** Site Name: Ginns Drift Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225754 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SE (S)	188	1	297326 517282
135	**BGS Recorded Mineral Sites** Site Name: Parker Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225759 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NW (W)	190	1	297044 517538
136	**BGS Recorded Mineral Sites** Site Name: Whitehaven Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 140707 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	209	1	297073 517736
136	**BGS Recorded Mineral Sites** Site Name: Newtown Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225724 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	222	1	297100 517777
137	**BGS Recorded Mineral Sites** Site Name: Clay Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225755 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SW (S)	216	1	297192 517292
138	**BGS Recorded Mineral Sites** Site Name: Burnt Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225757 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	302	1	297284 517169

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	**BGS Recorded Mineral Sites** Site Name: Radcliffe Band Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225764 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bannock Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	342	1	297116 517192
139	**BGS Recorded Mineral Sites** Site Name: Swinburn Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225765 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bannock Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	380	1	297100 517156
140	**BGS Recorded Mineral Sites** Site Name: Arrowthwaite Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225756 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	360	1	297053 517214
141	**BGS Recorded Mineral Sites** Site Name: Double Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225758 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	403	1	297127 517113
142	**BGS Recorded Mineral Sites** Site Name: Thwaite Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225720 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (W)	416	1	296813 517542
143	**BGS Recorded Mineral Sites** Site Name: Duke Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225723 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	539	1	296971 518068

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	**BGS Recorded Mineral Sites** Site Name: Haig Colliery Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 11792 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (W)	542	1	296684 517616
144	**BGS Recorded Mineral Sites** Site Name: Haig Colliery Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225721 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (W)	546	1	296681 517568
145	**BGS Recorded Mineral Sites** Site Name: Kell Bearmouth Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225770 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (S)	581	1	297465 516909
146	**BGS Recorded Mineral Sites** Site Name: Fox Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225771 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (S)	590	1	297349 516881
147	**BGS Recorded Mineral Sites** Site Name: Howgill Head Clay Pits Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 16706 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8SE (S)	625	1	297310 516845
148	**BGS Recorded Mineral Sites** Site Name: King Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225722 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	632	1	296667 517889

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	**BGS Recorded Mineral Sites** Site Name: Ravenhill Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 8556 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Whitehaven Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	675	1	296620 517890
149	**BGS Recorded Mineral Sites** Site Name: Howgill Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225772 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	663	1	297381 516810
150	**BGS Recorded Mineral Sites** Site Name: Howgill Head Clay Pits Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 16705 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8SE (S)	690	1	297333 516780
151	**BGS Recorded Mineral Sites** Site Name: Raven Hill Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225750 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (W)	730	1	296533 517366
152	**BGS Recorded Mineral Sites** Site Name: Wood Houses Brick Field Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225760 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8SE (S)	733	1	297438 516747
153	**BGS Recorded Mineral Sites** Site Name: Howgill Head Clay Pits Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225773 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8SW (S)	741	1	297271 516730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
154	**BGS Recorded Mineral Sites** Site Name: Howgill Head Clay Pits Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225774 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8SW (S)	781	1	297168 516703
155	**BGS Recorded Mineral Sites** Site Name: Rise Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225769 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	786	1	297388 516687
156	**BGS Recorded Mineral Sites** Site Name: Senhouse Rise Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225766 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bannock Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SW (S)	806	1	297289 516664
156	**BGS Recorded Mineral Sites** Site Name: Bell Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225767 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bannock Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	833	1	297319 516637
157	**BGS Recorded Mineral Sites** Site Name: Saltom Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 11793 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (W)	821	1	296434 517377
158	**BGS Recorded Mineral Sites** Site Name: Wellington Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 224563 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	855	1	296725 518287

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	**BGS Recorded Mineral Sites** Site Name: Howgill Head Clay Pits Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 225775 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8SW (S)	901	1	297168 516581
160	**BGS Recorded Mineral Sites** Site Name: Kells Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 140708 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Whitehaven Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	920	1	296692 516784
161	**BGS Recorded Mineral Sites** Site Name: Harras Park Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 140705 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Whitehaven Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	924	1	297928 518260
162	**BGS Recorded Mineral Sites** Site Name: Brake House Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 140709 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Whitehaven Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SW (S)	943	1	296999 516581
	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.	A13NW (NE)	0	7	297291 517537
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (NE)	0	-	297291 517537
	Man-Made Mining Cavities Easting: 296700 Northing: 517600 Distance: 526 Quadrant Reference: A12 Quadrant Reference: NE Bearing Ref: W Cavity Type: Unknown Commodity: Unknown Solid Geology Detail: No Details Superficial Geology Detail: No Details	A12NE (W)	526	8	296700 517600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 296500 Northing: 518000 Distance: 832 Quadrant Reference: A17 Quadrant Reference: SW Bearing Ref: NW Cavity Type: Gulls/Fissures due to Cambering Solid Geology Detail: Whitehaven Sandstone Formation Superficial Geology Detail: No Details	A17SW (NW)	832	8	296500 518000
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	1	297291 517537
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	1	297291 517537
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	297279 517523
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	156	1	297510 517556
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	297279 517523
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	1	297291 517537
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	1	297291 517537
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	297246 517535
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	1	297291 517537
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	49	1	297178 517504
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	164	1	297078 517485
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	189	1	297057 517482
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	297247 517534
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	1	297291 517537
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	297279 517523
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	156	1	297510 517556
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	231	1	297032 517454
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	1	297291 517537

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	71	1	297258 517428
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	156	1	297510 517556
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	164	1	297078 517485
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	220	1	297005 517580
	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	A13NW (NE)	0	1	297291 517537
	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	A13NW (NE)	0	1	297291 517537

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
163	**Contemporary Trade Directory Entries** Name: Kwik-Fit Location: Preston St, Whitehaven, Cumbria, CA28 9DL Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (W)	7	-	297244 517532
164	**Contemporary Trade Directory Entries** Name: Kwik Fit Location: Preston Street, Whitehaven, Cumbria, CA28 9DL Classification: Tyre Dealers **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	40	-	297210 517630
164	**Contemporary Trade Directory Entries** Name: J Mossop Location: 2a Preston St, Whitehaven, Cumbria, CA28 9DL Classification: Blacksmiths & Forgemasters **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	41	-	297208 517630
164	**Contemporary Trade Directory Entries** Name: Preston Street Garage Location: Preston Street, Whitehaven, Cumbria, CA28 9DL Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	65	-	297183 517642
165	**Contemporary Trade Directory Entries** Name: Topz Pets Location: Coach Road, Whitehaven, Cumbria, CA28 9DB Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A13SE (SE)	67	-	297368 517424
165	**Contemporary Trade Directory Entries** Name: Neil Vaughan Location: Border Yard,Coach Rd, Whitehaven, Cumbria, CA28 9DF Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	85	-	297388 517415
166	**Contemporary Trade Directory Entries** Name: Jacksons Marine Location: Border House, Coach Road, Whitehaven, Cumbria, CA28 9DF Classification: Boatbuilders & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	79	-	297422 517447
166	**Contemporary Trade Directory Entries** Name: Coachroad Garage Location: Coach Rd, Whitehaven, Cumbria, CA28 9DF Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	110	-	297420 517406
167	**Contemporary Trade Directory Entries** Name: Coach Road Motorworks Location: The Rise, Coach Rd/, Whitehaven, Cumbria, CA28 9BX Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	104	-	297366 517380
167	**Contemporary Trade Directory Entries** Name: Camskill Location: Unit 2, Pottery Road, Whitehaven, CA28 9BZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	142	-	297377 517342
167	**Contemporary Trade Directory Entries** Name: Camskill Location: Unit 2, Pottery Road, Whitehaven, CA28 9BZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	142	-	297377 517342
167	**Contemporary Trade Directory Entries** Name: Camskill Tyres Location: Unit 1, Pottery Road, Whitehaven, Cumbria, CA28 9BZ Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	150	-	297377 517334

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	**Contemporary Trade Directory Entries** Name: Camskilltyres.Co.Uk Location: Unit 1, Pottery Road, Whitehaven, Cumbria, CA28 9BZ Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	150	-	297377 517334
167	**Contemporary Trade Directory Entries** Name: Camskill Tyres Location: Unit 1, Pottery Road, Whitehaven, Cumbria, CA28 9BZ Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	150	-	297377 517334
167	**Contemporary Trade Directory Entries** Name: Camskill Tyres Location: Unit 1, Pottery Road, Whitehaven, Cumbria, CA28 9BZ Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	150	-	297377 517334
167	**Contemporary Trade Directory Entries** Name: Camskilltyres.Co.Uk Location: Unit 1, Pottery Road, Whitehaven, Cumbria, CA28 9BZ Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	150	-	297377 517334
167	**Contemporary Trade Directory Entries** Name: Sel Wholesale Location: Pottery Mews, The Rise, Whitehaven, CA28 9BX Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	152	-	297361 517325
167	**Contemporary Trade Directory Entries** Name: Cumbria Car Parts Location: Unit 1, Whitehaven, Cumbria, ca28 9jx Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SE (S)	156	-	297336 517315
167	**Contemporary Trade Directory Entries** Name: Pottery Bodyworks Location: Unit 3, Pottery Road, Whitehaven, Cumbria, CA28 9BZ Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	178	-	297373 517302
168	**Contemporary Trade Directory Entries** Name: Exhaust Craft Location: 1, Monkwray Lodge, Low Monkwray, Whitehaven, Cumbria, CA28 9DS Classification: Exhaust System Manufacturers & Wholesalers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A13SW (S)	140	-	297239 517352
169	**Contemporary Trade Directory Entries** Name: Top Yard Building Supplies Ltd Location: Pottery Yard, The Ginns, Whitehaven, Cumbria, CA28 9DA Classification: Builders' Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (S)	157	-	297280 517317
170	**Contemporary Trade Directory Entries** Name: G J Autos Ltd Location: Atlas Engineering Works, Newtown, Whitehaven, Cumbria, CA28 7HX Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	300	-	297146 517883
171	**Contemporary Trade Directory Entries** Name: T Lewthwaite Location: Lewthwaite, Flatt Walks, Whitehaven, Cumbria, CA28 7RW Classification: Engine Rebuilding & Reconditioning **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (E)	300	-	297623 517655
171	**Contemporary Trade Directory Entries** Name: Stephenson Auto Body Repairs Location: Unit 1, Rope Walk, Coach Road, Whitehaven, Cumbria, CA28 7TE Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	333	-	297665 517643

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	**Contemporary Trade Directory Entries** Name: Studholme Dickson & Co Ltd Location: Castle Garage,Irish St, Whitehaven, Cumbria, CA28 7BU Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A18SW (N)	318	-	297292 517916
173	**Contemporary Trade Directory Entries** Name: Norman Strickland Location: Flatt Walks, Whitehaven, Cumbria, CA28 7RW Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A14NW (E)	366	-	297679 517689
174	**Contemporary Trade Directory Entries** Name: West-Ways Services Location: Westways, Low Road, Whitehaven, Cumbria, CA28 9HS Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	374	-	297388 517103
174	**Contemporary Trade Directory Entries** Name: West-Ways Location: Low Road, Whitehaven, CA28 9HS Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (S)	410	-	297410 517071
175	**Contemporary Trade Directory Entries** Name: Morrisons Petrol Station Location: Petrol Filling Station, Morrisons Supermarket, Flatt Walks, Whitehaven, CA28 7RW Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	376	-	297625 517787
176	**Contemporary Trade Directory Entries** Name: W M Morrisons Petrol Station Location: Flatt Walks, Whitehaven, Cumbria, CA28 7RW Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (NE)	416	-	297558 517905
177	**Contemporary Trade Directory Entries** Name: Apple Green Location: Back Corkickle, Hensingham, Whitehaven, Cumbria, CA28 8TS Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	430	-	297775 517623
177	**Contemporary Trade Directory Entries** Name: Corkickle Service Station Location: Back Corkickle, Whitehaven, Cumbria, CA28 7TS Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	441	-	297783 517634
178	**Contemporary Trade Directory Entries** Name: Homestyle By Fads Location: Swingpump Lane, Whitehaven, Cumbria, CA28 7LZ Classification: Wallpapers & Wall Coverings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	431	-	297123 518014
178	**Contemporary Trade Directory Entries** Name: Mountains From Molehills Location: 19, Lonsdale Centre, Swingpump Lane, WHITEHAVEN, Cumbria, CA28 7LZ Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	431	-	297123 518014
179	**Contemporary Trade Directory Entries** Name: Elegant Touch Location: 54 Roper St, Whitehaven, Cumbria, CA28 7AU Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A18SW (N)	431	-	297266 518032

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
180	**Contemporary Trade Directory Entries** Name: Kone Cranes Location: Unit A24, Haig Enterprise Park, Whitehaven, Cumbria, CA28 9AN Classification: Lifting Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	436	-	296790 517592
181	**Contemporary Trade Directory Entries** Name: West Cumbria Dental Laboratory Location: 10, Scotch Street, Whitehaven, Cumbria, CA28 7BJ Classification: Medical & Dental Laboratories **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	454	-	297450 518008
182	**Contemporary Trade Directory Entries** Name: Klick Location: 5, Market Place, Whitehaven, Cumbria, CA28 7JD Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	496	-	297207 518096
183	**Contemporary Trade Directory Entries** Name: Hillarys Blinds Ltd Location: 73, Lowther Street, Whitehaven, Cumbria, CA28 7AH Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	501	-	297487 518042
184	**Contemporary Trade Directory Entries** Name: Ink Design Print Location: Whitehaven, Cumbria, Ca28 9an Classification: Printers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A12NE (W)	503	-	296725 517549
185	**Contemporary Trade Directory Entries** Name: Printpoint (Cumbria) Ltd Location: 77, Lowther Street, Whitehaven, Cumbria, CA28 7RB Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (NE)	503	-	297538 518018
186	**Contemporary Trade Directory Entries** Name: Whitehaven Harbour Commissioners Location: 27, Lowther Street, Whitehaven, CA28 7DN Classification: Ports, Docks & Harbours **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	526	-	297314 518124
187	**Contemporary Trade Directory Entries** Name: J R Services Location: Castle Garage, Low Road, WHITEHAVEN, Cumbria, CA28 9HS Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (S)	529	-	297421 516952
188	**Contemporary Trade Directory Entries** Name: G Tyson Location: 41, Basket Road, Whitehaven, Cumbria, CA28 9AH Classification: Cladding Suppliers & Installers **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	537	-	296802 517924
189	**Contemporary Trade Directory Entries** Name: Concept Auto Sport Location: Unit E4, Haig Enterprise Park, Whitehaven, Cumbria, CA28 9AN Classification: Car Customisation & Conversion Specialists **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	540	-	296692 517519
189	**Contemporary Trade Directory Entries** Name: 24 Hour Vehicle Recovery Location: Unit E3, Haig Enterprise Park, Whitehaven, Cumbria, CA28 9AN Classification: Breakdown and Recovery **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	546	-	296685 517520
189	**Contemporary Trade Directory Entries** Name: Haven Sails & Rigging Ltd Location: Unit D1, Haig Enterprise Park, Whitehaven, Cumbria, CA28 9AN Classification: Sailmakers & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	576	-	296655 517516

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
189	**Contemporary Trade Directory Entries** Name: Mcallister Birdsall Location: Unit D1-D2, Haig Enterprise Park, Whitehaven, Cumbria, CA28 9AN Classification: Fencing Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12SE (W)	576	-	296655 517516
190	**Contemporary Trade Directory Entries** Name: Currys Digital Location: 51, King Street, Whitehaven, Cumbria, CA28 7JH Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A18SW (N)	544	-	297226 518145
191	**Contemporary Trade Directory Entries** Name: Fellside Fascia Location: Unit E4,Haig Enterprise Pk, Whitehaven, Cumbria, CA28 9AN Classification: Fascias and Soffits **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A12NE (W)	550	-	296676 517577
192	**Contemporary Trade Directory Entries** Name: Lakeland Location: 18, Church Street, Whitehaven, Cumbria, CA28 7EB Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	566	-	297362 518156
192	**Contemporary Trade Directory Entries** Name: Fotomax Location: 18, Church Street, Whitehaven, Cumbria, CA28 7EB Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	566	-	297362 518156
192	**Contemporary Trade Directory Entries** Name: Jolly Pots Location: 21, Church Street, Whitehaven, Cumbria, CA28 7EB Classification: Ceramic Manufacturers, Supplies & Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A18SE (N)	586	-	297371 518174
193	**Contemporary Trade Directory Entries** Name: Ms Flooring Location: 130, Queen Street, Whitehaven, CA28 7QF Classification: Carpet & Fabric Proofing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	573	-	297446 518139
194	**Contemporary Trade Directory Entries** Name: Pondfield Garage Ltd Location: Solway Road, WHITEHAVEN, Cumbria, CA28 9AW Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	589	-	296722 517268
195	**Contemporary Trade Directory Entries** Name: Sembcorp Simon Carves Ltd Location: 34, Lowther Street, Whitehaven, Cumbria, CA28 7JS Classification: Chemical Plant & Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	594	-	297272 518194
196	**Contemporary Trade Directory Entries** Name: Genesis Location: 5, New Street, Whitehaven, Cumbria, CA28 7DY Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	608	-	297329 518204
196	**Contemporary Trade Directory Entries** Name: Genesis Home Appliances Location: 5, New Street, Whitehaven, Cumbria, CA28 7DY Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	608	-	297329 518204
196	**Contemporary Trade Directory Entries** Name: Brighthouse Location: 66, King Street, Whitehaven, CA28 7LE Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NW (N)	621	-	297294 518221

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
196	**Contemporary Trade Directory Entries** Name: P D Hendren Location: 15, King Street, Whitehaven, Cumbria, CA28 7ED Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	637	-	297334 518233
197	**Contemporary Trade Directory Entries** Name: B C Goulding Cabinet Maker Location: Marlborough Street, Whitehaven, Cumbria, CA28 7LL Classification: Joinery Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NW (N)	616	-	297216 518217
198	**Contemporary Trade Directory Entries** Name: Emmell Cleaning Services Location: 1, Prospect Hill, Whitehaven, Cumbria, CA28 9AE Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	637	-	296849 518107
198	**Contemporary Trade Directory Entries** Name: Emmell Cleaning Services Location: 1, Prospect Hill, Whitehaven, Cumbria, CA28 9AE Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	637	-	296849 518107
199	**Contemporary Trade Directory Entries** Name: Washright Location: 15, New Street, Whitehaven, Cumbria, CA28 7DY Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	659	-	297365 518250
200	**Contemporary Trade Directory Entries** Name: G & M Supplies Ltd Location: 10, Duke Street, Whitehaven, CA28 7ER Classification: Catering Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	723	-	297397 518309
201	**Contemporary Trade Directory Entries** Name: Open World Yachts Location: 2, Duke Street, Whitehaven, CA28 7EW Classification: Boatbuilders & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	747	-	297333 518343
201	**Contemporary Trade Directory Entries** Name: Whitehaven Harbour Commissioners Location: Pears House, 1, Duke Street, Whitehaven, Cumbria, CA28 7HW Classification: Ports, Docks & Harbours **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	762	-	297330 518359
201	**Contemporary Trade Directory Entries** Name: Whitehaven Harbour Commissioners Location: Pears House, 1, Duke Street, Whitehaven, Cumbria, CA28 7HW Classification: Ports, Docks & Harbours **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	762	-	297330 518359
201	**Contemporary Trade Directory Entries** Name: Whitehaven Marina Ltd Location: Pears House, 1, Duke Street, WHITEHAVEN, Cumbria, CA28 7HW Classification: Ports, Docks & Harbours **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	762	-	297330 518359
202	**Contemporary Trade Directory Entries** Name: Beauty Box Location: 6, Tangier Street, Whitehaven, Cumbria, CA28 7UZ Classification: Perfume Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	795	-	297412 518379
203	**Contemporary Trade Directory Entries** Name: B & H Motors Location: High Street, Whitehaven, Cumbria, CA28 7PY Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	871	-	297690 518353

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	**Contemporary Trade Directory Entries** Name: C G Ford Location: Meadow Rd, Whitehaven, Cumbria, CA28 9HX Classification: Car Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	878	-	297668 516666
204	**Contemporary Trade Directory Entries** Name: Tony'S Servicing & Repairs Location: Unit 25,Meadow Rd, Whitehaven, Cumbria, CA28 9HX Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	917	-	297710 516642
205	**Contemporary Trade Directory Entries** Name: Whitehaven Cemetery Location: Low Road, Whitehaven, Cumbria, CA28 9HU Classification: Cemeteries & Crematoria **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	881	-	297503 516610
206	**Contemporary Trade Directory Entries** Name: Quality Cleaning & Contracting Ltd Location: Office 6 Fish Hall, Whitehaven, Cumbria, CA28 7XE Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	907	-	297465 518482
207	**Contemporary Trade Directory Entries** Name: Whitehaven M O T Centre Location: Meadow Road, Whitehaven, Cumbria, CA28 9HX Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	995	-	297731 516566
207	**Contemporary Trade Directory Entries** Name: Stephenson Auto Body Repairs Location: Meadow Rd, Whitehaven, Cumbria, CA28 9HX Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9SW (SE)	997	-	297708 516554
208	**Fuel Station Entries** Name: Former Garage Location: Preston Street , , Whitehaven, Cumbria, CA28 9DL Brand: OBSOLETE Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Approximate location provided by supplier	A13NW (NW)	190	-	297135 517760
209	**Fuel Station Entries** Name: Morrisons Whitehaven Location: Flatt Walks , , Whitehaven, Cumbria, CA28 7RJ Brand: Morrisons Premises Type: Hypermarket **Status: Open** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	376	-	297625 517786
210	**Fuel Station Entries** Name: Corkickle Service Station Location: Back Corkickle Coach Road, , Whitehaven, Cumbria, CA28 7TS Brand: ESSO Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	428	-	297773 517625
211	**Fuel Station Entries** Name: Tesco Whitehaven Location: Bransty Row , North Shore , Whitehaven, Cumbria, CA28 7XY Brand: TESCO Premises Type: Hypermarket **Status: Open** Positional Accuracy: Manually positioned to the address or location	A23SE (N)	990	-	297482 518563

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
212	**Ancient Woodland** Name: Crowpark Wood Reference: 1100224 Area(m²): 39468.99 Type: Ancient and Semi-Natural Woodland	A14NW (E)	561	9	297861 517763
213	**Ancient Woodland** Name: Midgey Wood Reference: 1100225 Area(m²): 56083 Type: Ancient and Semi-Natural Woodland	A14NW (E)	588	9	297938 517623
214	**Marine Nature Reserves** Name: Cumbria Coast Multiple Area: Y Area (m2): 18096616.3 Source: Natural England	A12SW (W)	899	9	296382 517282
215	**Sites of Special Scientific Interest** Name: St. Bees Head Multiple Areas: Y Total Area (m2): 1572402.43 Source: Natural England Reference: 1001877 Designation Details: Geological Conservation Review Designation Date: 28th November 1995 Date Type: Notified Designation Details: Heritage Coast Designation Date: 28th November 1995 Date Type: Notified Designation Details: RSPB Reserve Designation Date: 28th November 1995 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 28th November 1995 Date Type: Notified	A12SW (W)	779	9	296522 517259

Data Currency

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Allerdale Borough Council - Environmental Protection	March 2015	Annual Rolling Update
Copeland Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
Discharge Consents		
Environment Agency - North West Region	July 2018	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North West Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - North West Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - North West Region	July 2018	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Copeland Borough Council - Environmental Health Department	February 2015	Variable
Allerdale Borough Council - Environmental Protection	June 2016	Variable
Local Authority Pollution Prevention and Controls		
Copeland Borough Council - Environmental Health Department	February 2015	Annual Rolling Update
Allerdale Borough Council - Environmental Protection	June 2016	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Copeland Borough Council - Environmental Health Department	February 2015	Variable
Allerdale Borough Council - Environmental Protection	June 2016	Variable
Nearest Surface Water Feature		
Ordnance Survey	September 2017	
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	As notified
Prosecutions Relating to Controlled Waters		
Environment Agency - North West Region	March 2013	As notified
Registered Radioactive Substances		
Environment Agency - North West Region	January 2015	
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 2018	Quarterly
Water Abstractions		
Environment Agency - North West Region	July 2018	Quarterly
Water Industry Act Referrals		
Environment Agency - North West Region	October 2017	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified

Data Currency

Agency & Hydrological	Version	Update Cycle
Source Protection Zones Environment Agency - Head Office	January 2018	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2018	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2018	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	May 2018	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	May 2018	Quarterly
Flood Defences Environment Agency - Head Office	May 2018	Quarterly
OS Water Network Lines Ordnance Survey	May 2018	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	April 2018	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	April 2018	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - North Area	July 2018	Quarterly
Local Authority Landfill Coverage Allerdale Borough Council - Environmental Protection Copeland Borough Council - Environmental Health Department Cumbria County Council - Economy And Environment Department	 May 2000 May 2000 May 2000	 Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Allerdale Borough Council - Environmental Protection Copeland Borough Council - Environmental Health Department Cumbria County Council - Economy And Environment Department	 May 2000 May 2000 May 2000	 Not Applicable Not Applicable 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

Data Currency

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Copeland Borough Council - Planning Cumbria County Council - Development Control Allerdale Borough Council	 February 2016 February 2016 March 2014	 Variable Variable Variable
Planning Hazardous Substance Consents Copeland Borough Council - Planning Cumbria County Council - Development Control Allerdale Borough Council	 February 2016 February 2016 January 2016	 Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2018	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Data Currency

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

Data Suppliers

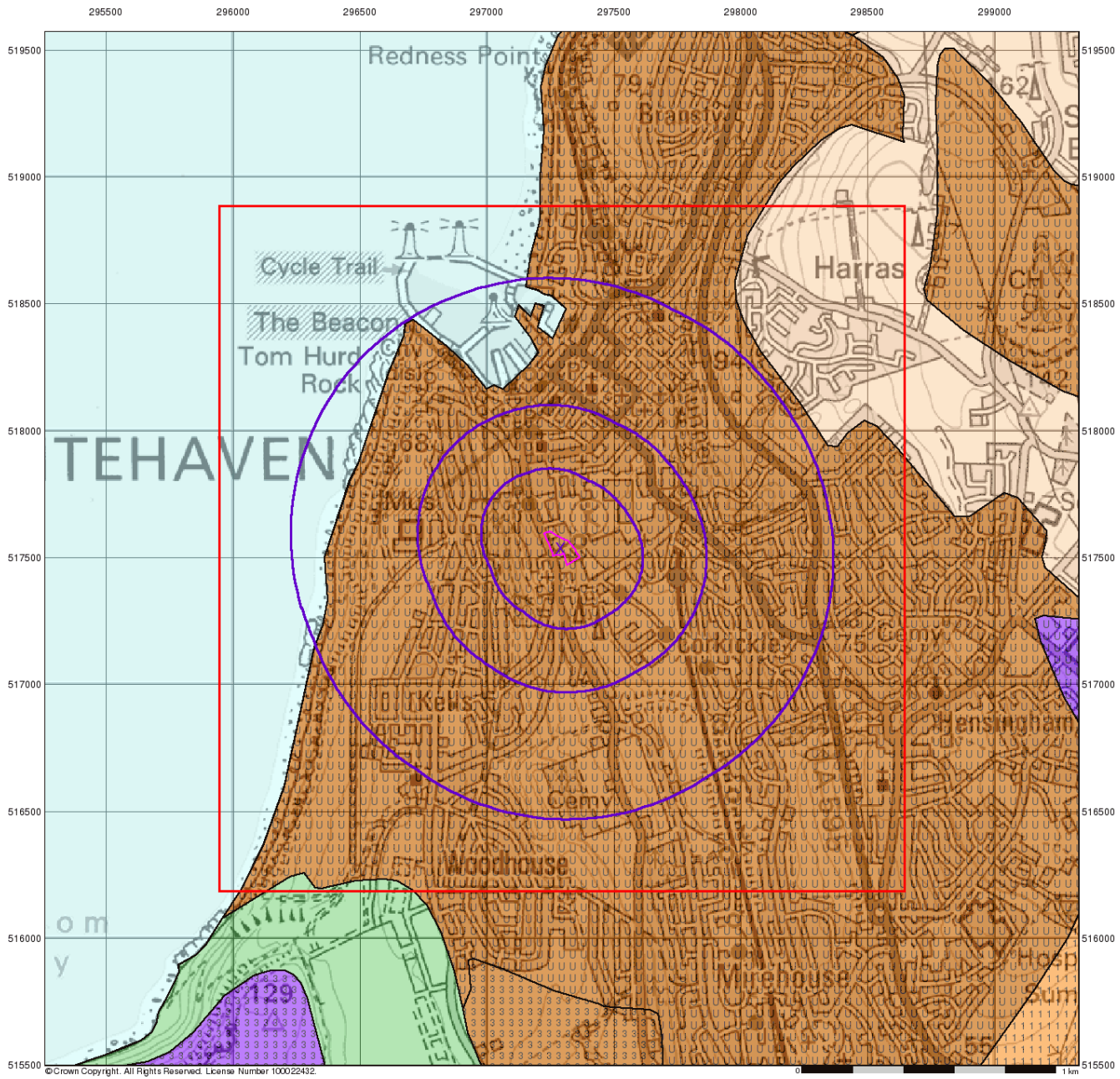
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
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	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**Cumbria County Council - Economy And Environment Department** Citadel Chambers, Citadel Row, Carlisle, Cumbria, CA3 8SG	Telephone: 01228 606718 Website: www.cumbria.gov.uk
6	**Health and Safety Executive** 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.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	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	**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.



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Groundwater Vulnerability

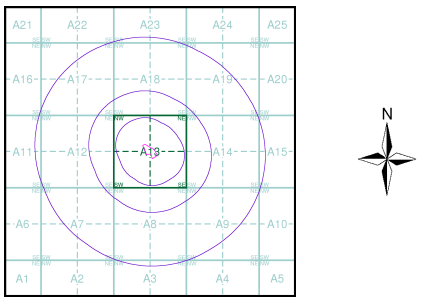
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



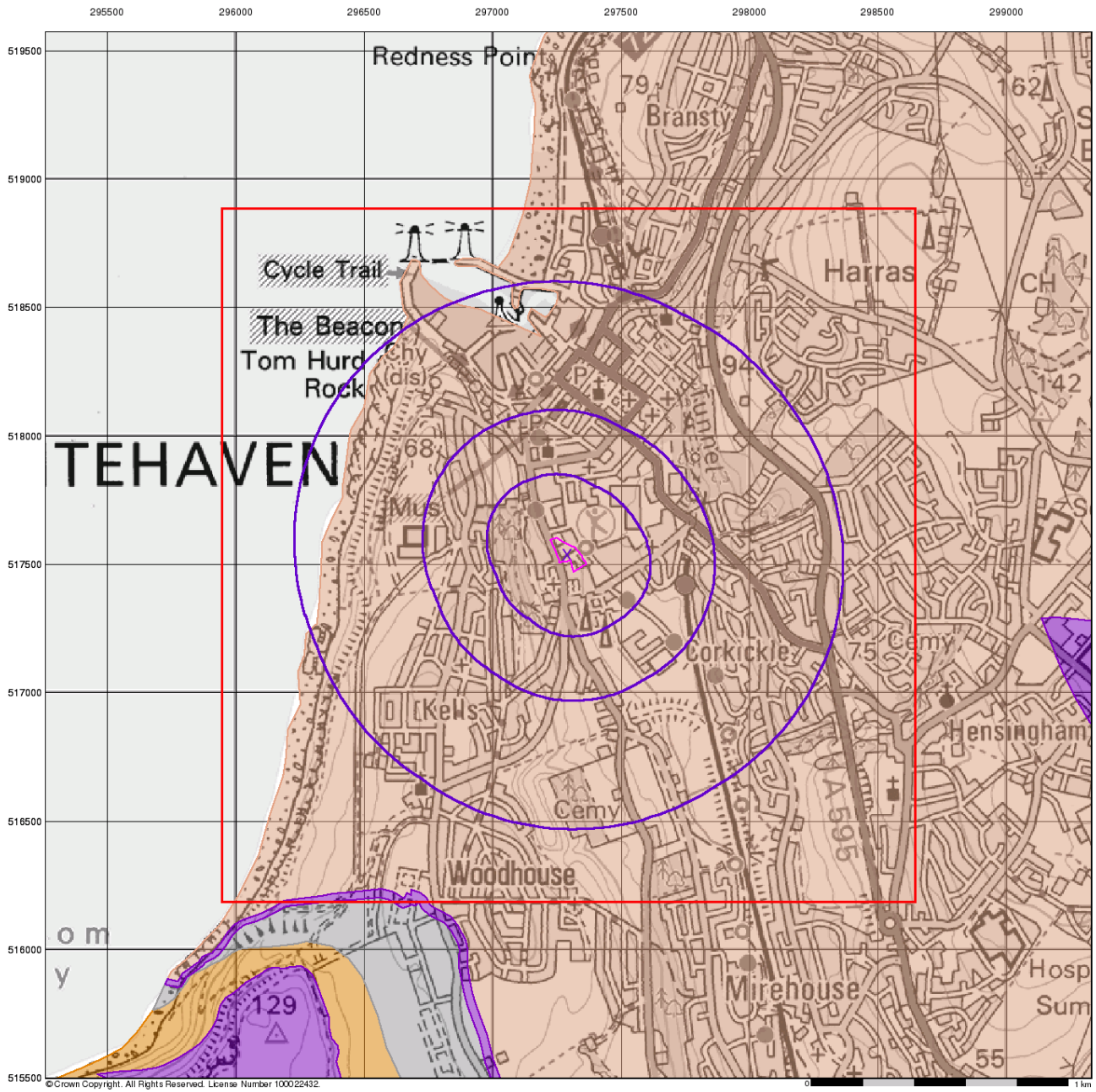
Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	1000

Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

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



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Bedrock Aquifer Designation

General

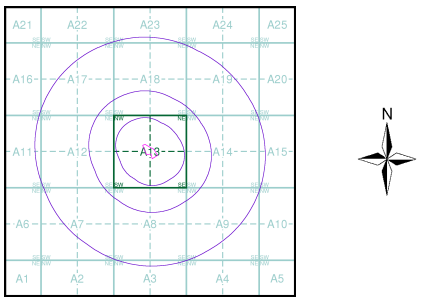
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

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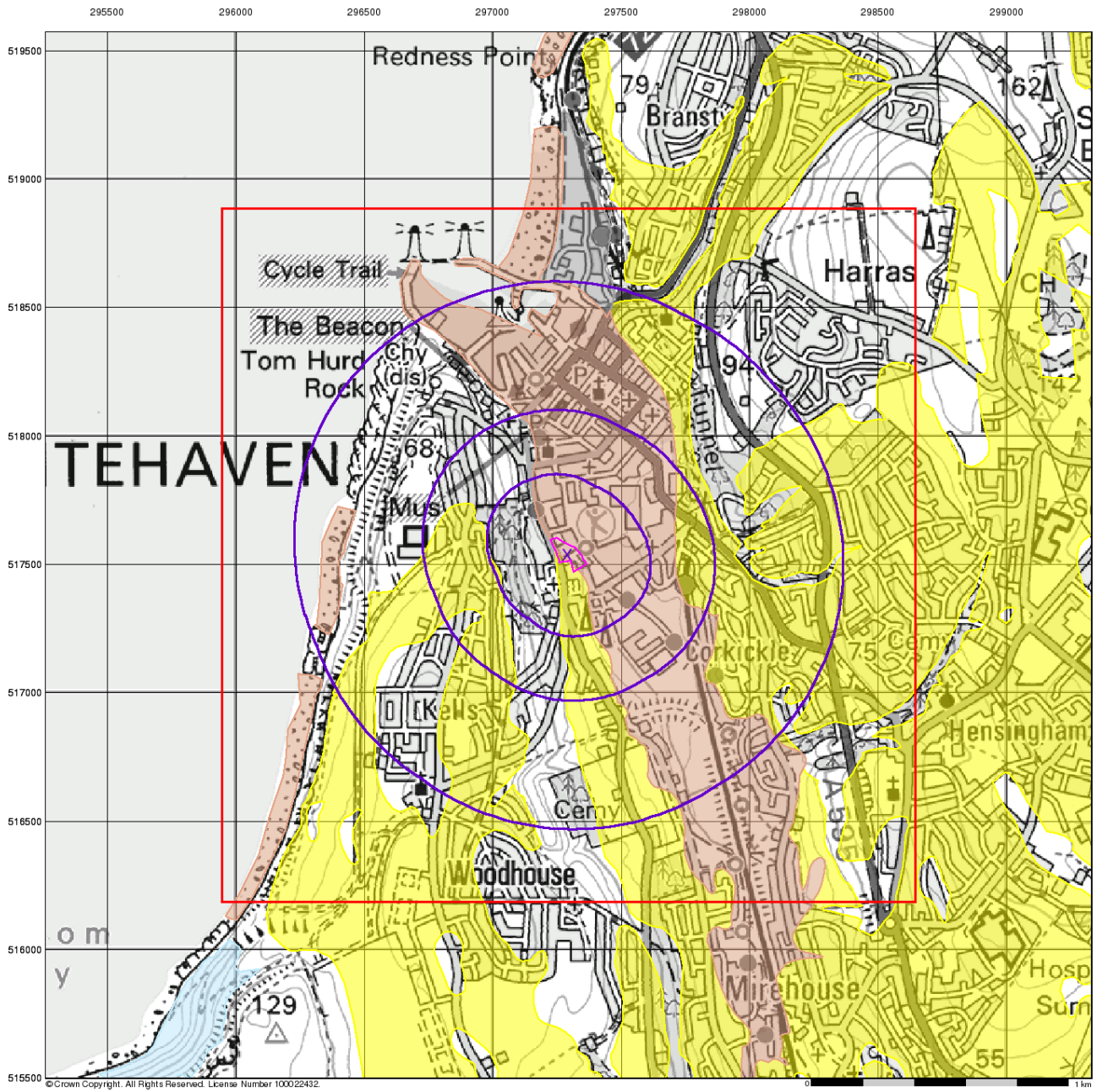

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Superficial Aquifer Designation

General

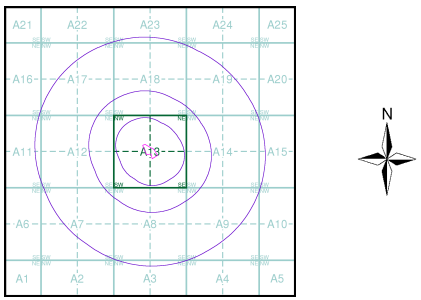
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

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Customer Ref:	P18-351
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Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	1000

Site Details

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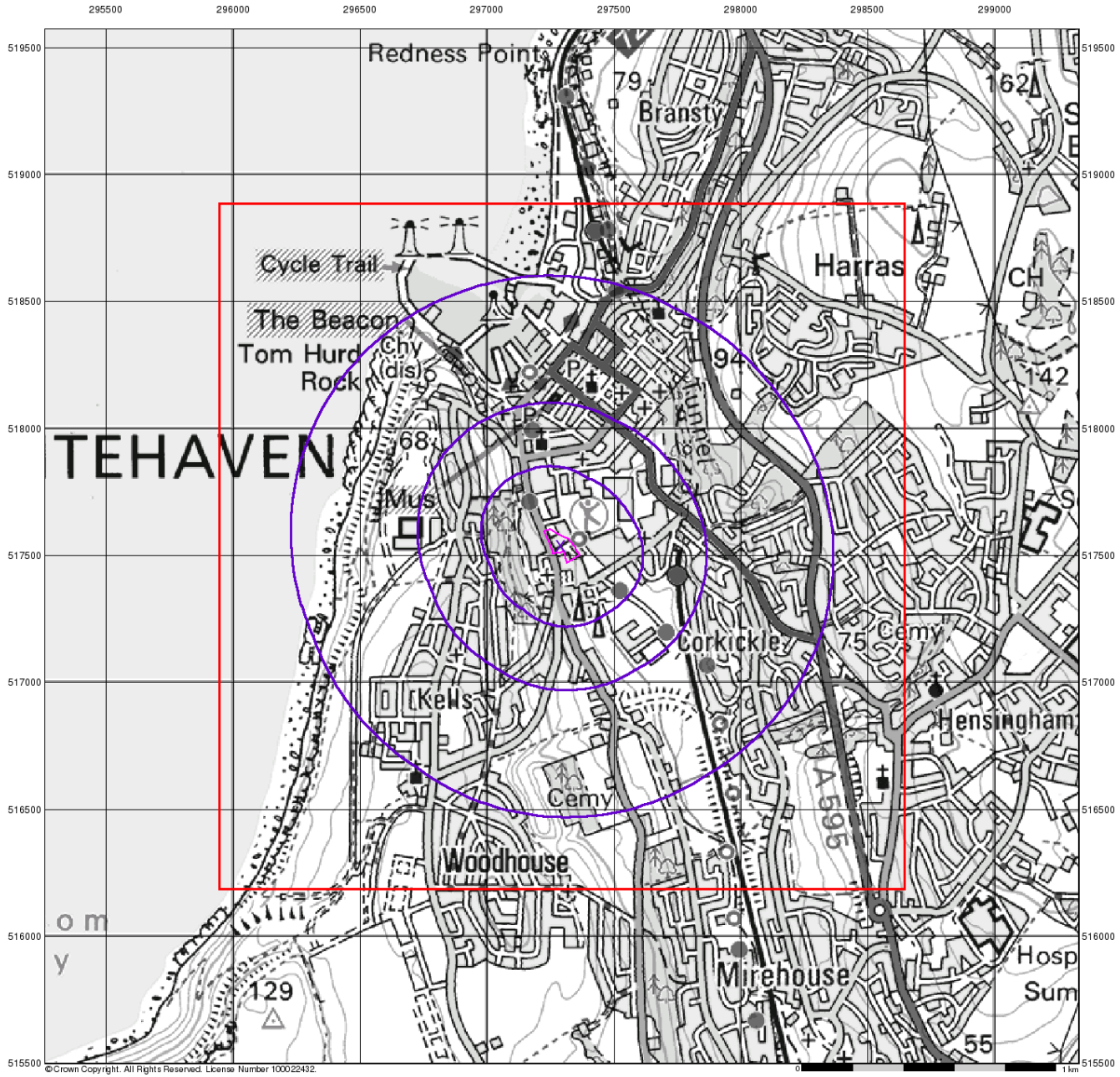

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Source Protection Zones

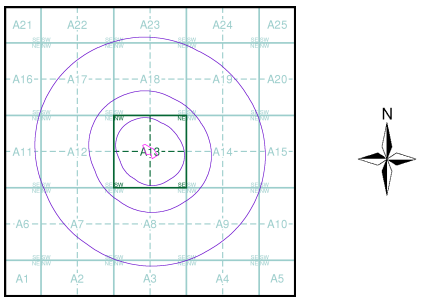
General

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



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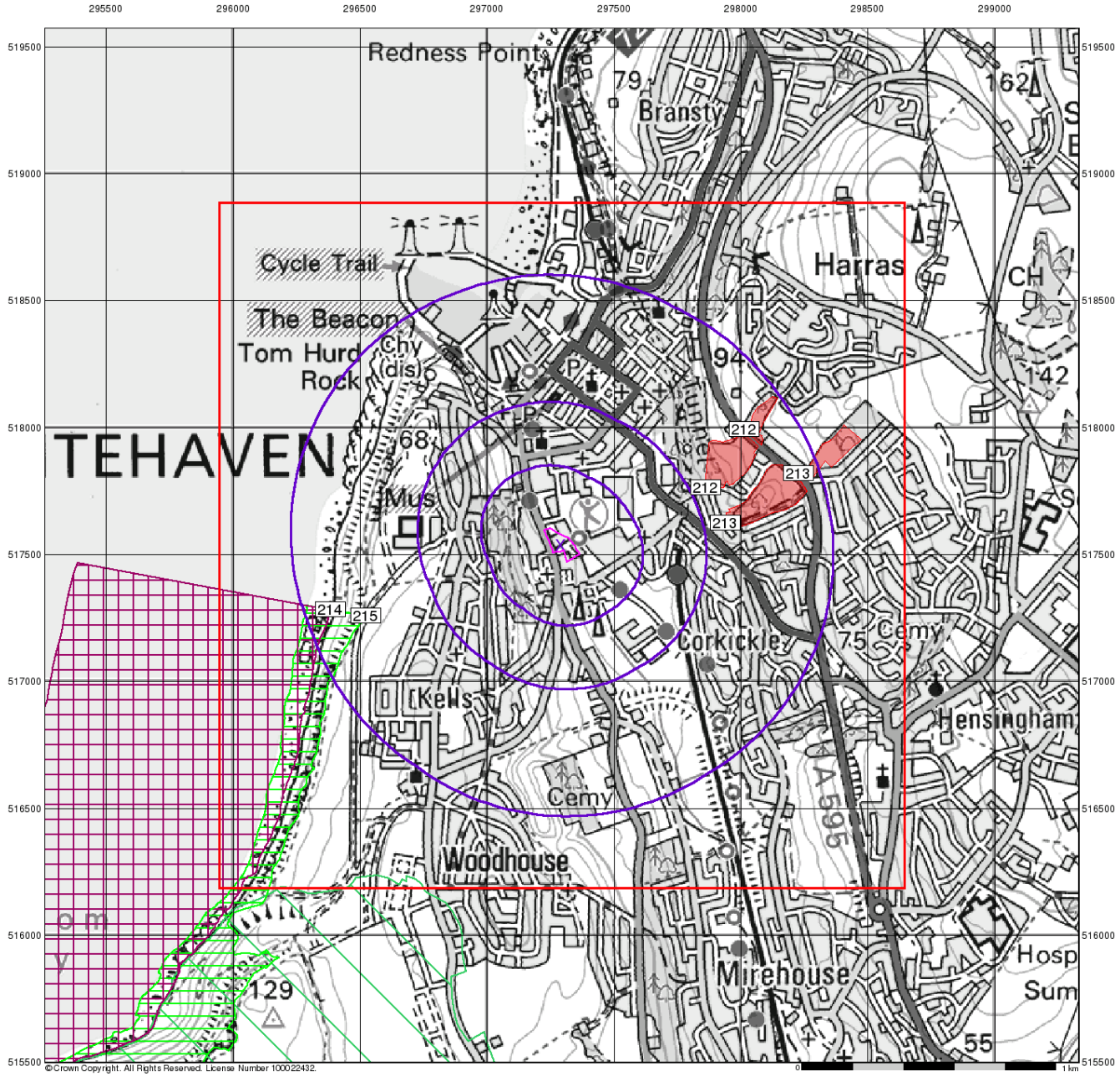
Web: www.envirocheck.co.uk



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Sensitive Land Uses

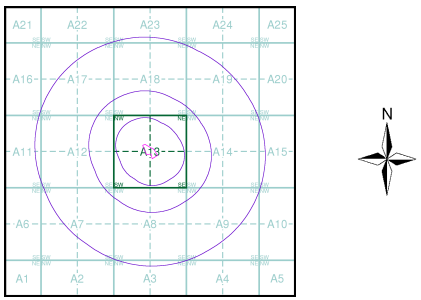
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



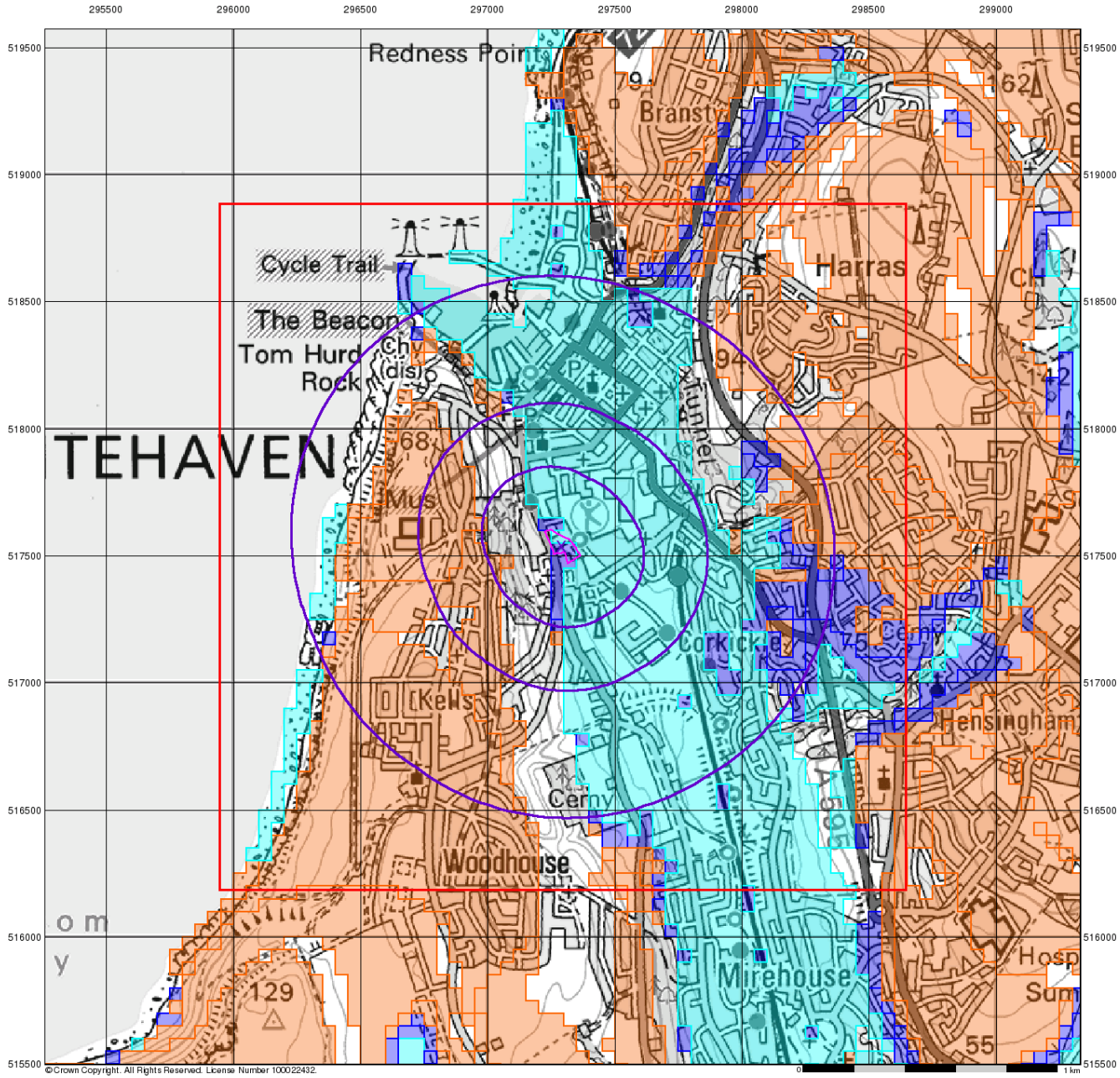
Order Details

Order Number:	177541866_1_1
Customer Ref:	P18-351
National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	1000

Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

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



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BGS Flood GFS Data

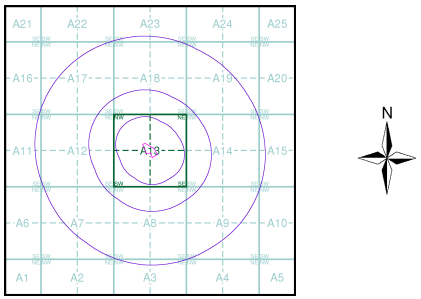
General

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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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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

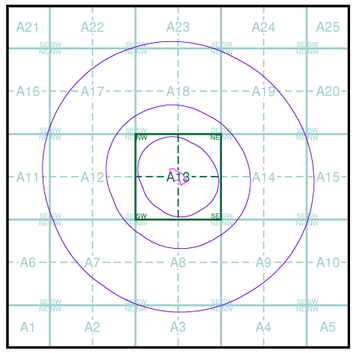
Waste

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

Hazardous Substances

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

Site Sensitivity Map - Slice A



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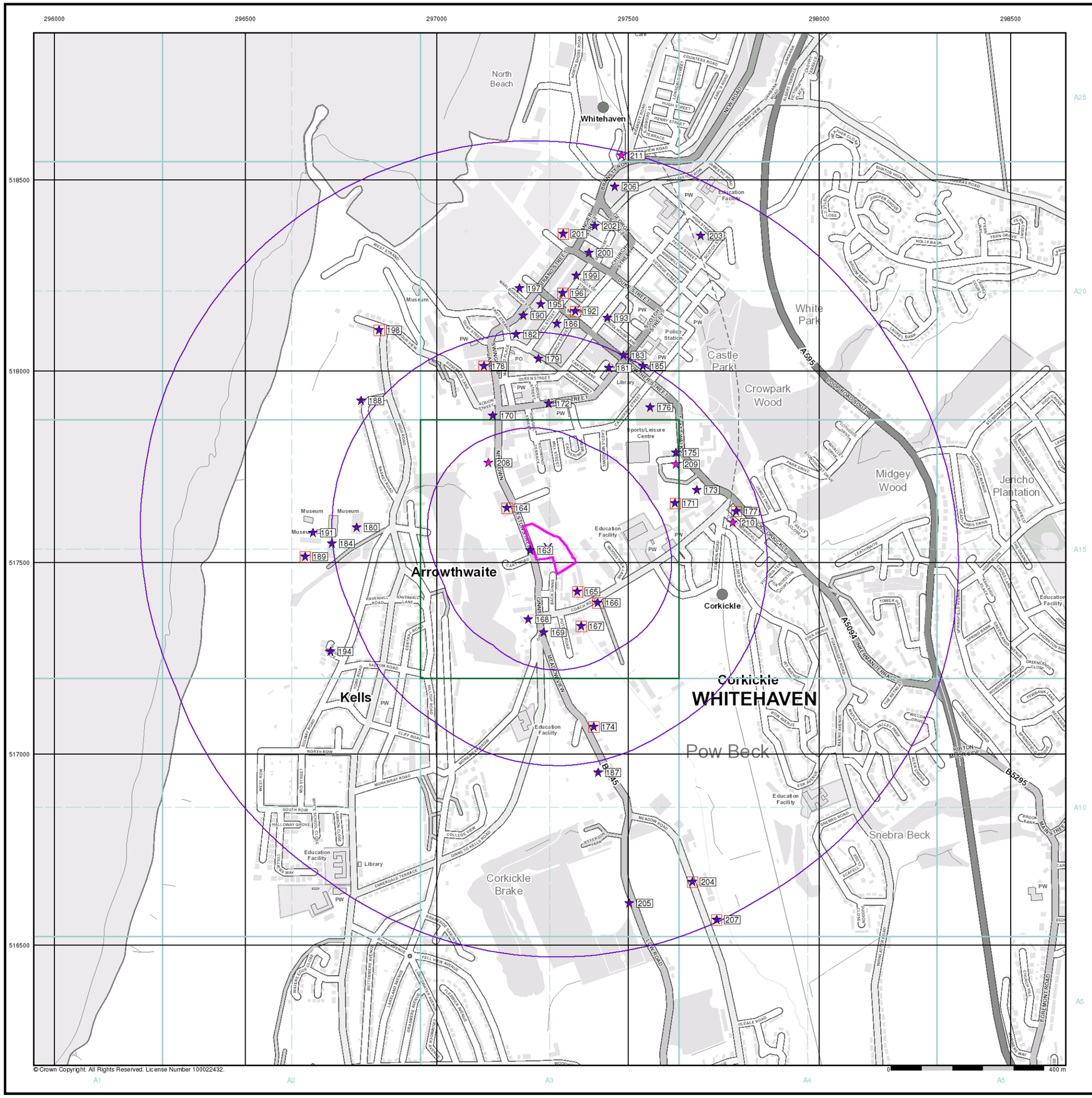

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Industrial Land Use Map

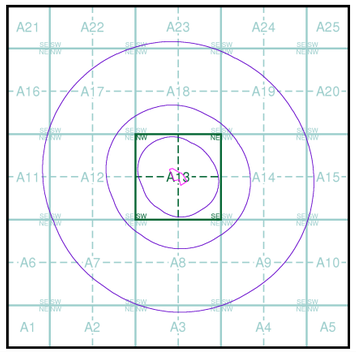
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice A



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Order Details

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National Grid Reference:	297290, 517540
Slice:	A
Site Area (Ha):	0.83
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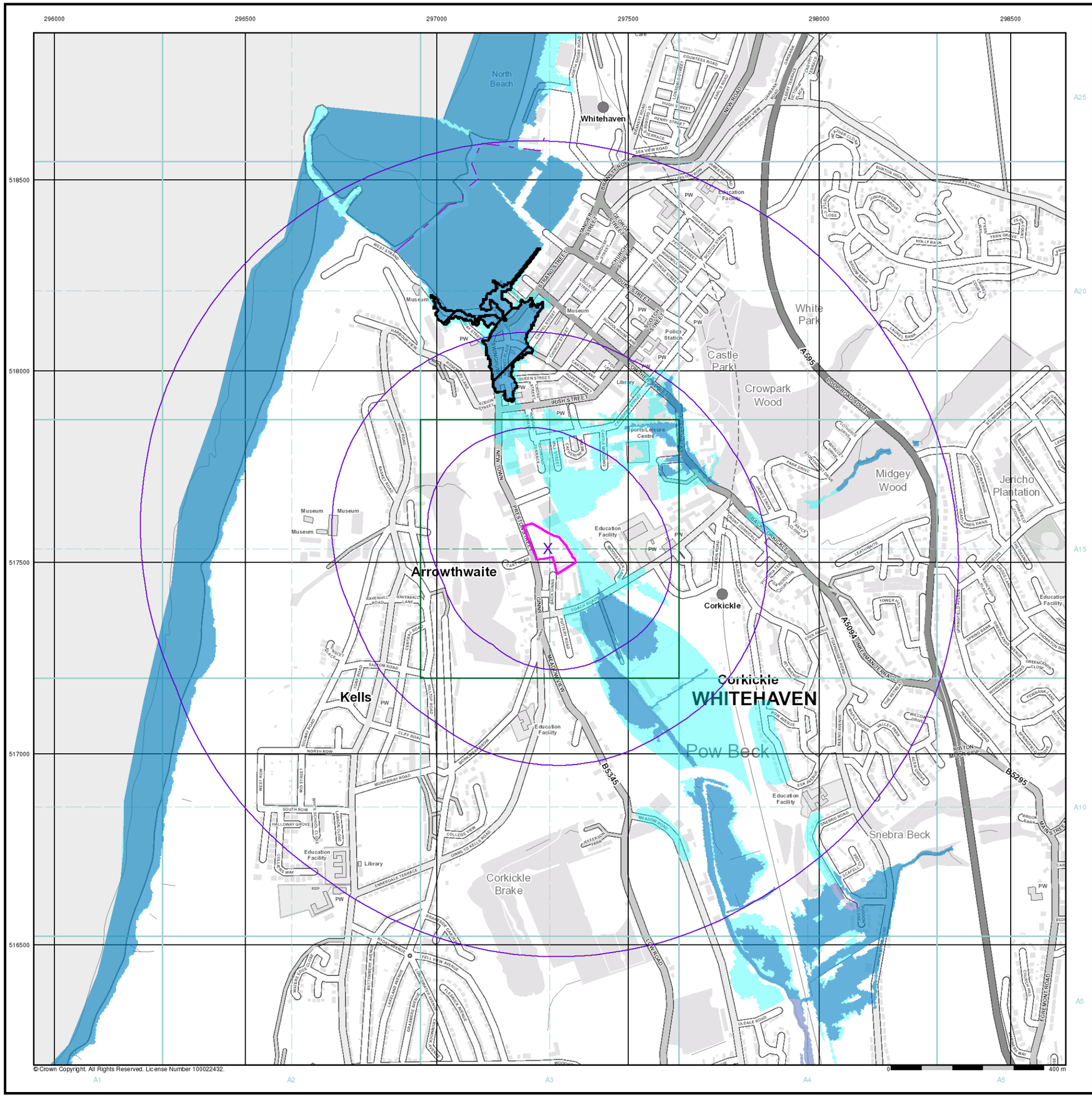

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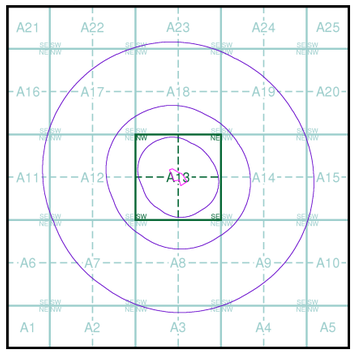
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



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Order Details

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National Grid Reference:	297290, 517540
Slice:	A
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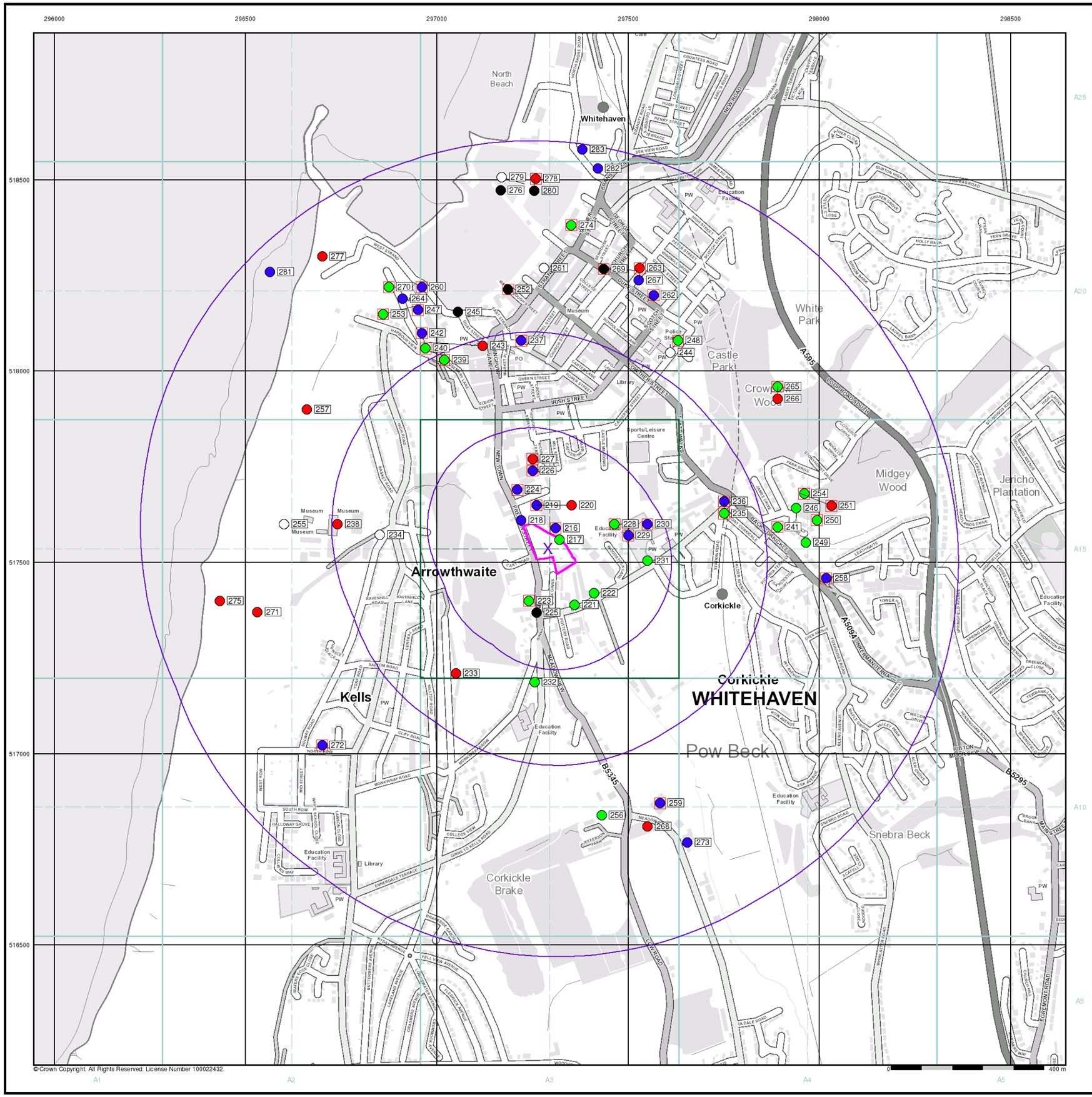

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General

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

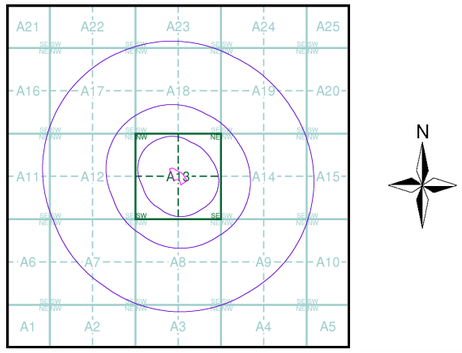
Agency and Hydrological (Boreholes)

- 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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National Grid Reference:	297290, 517540
Slice:	A
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Site Details

Aldi Stores Ltd, Preston Street, Whitehaven, CA28 9DL

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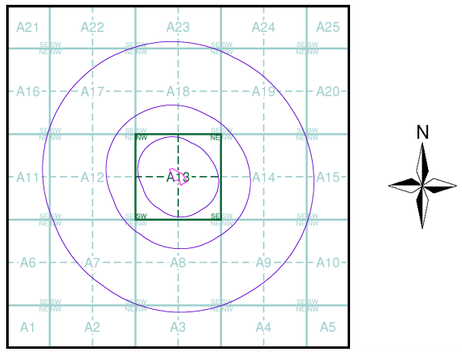
General

- 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

OS Water Network Map - Slice A



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Web: www.envirocheck.co.uk

Appendix D

Coal Authority Consultants Report
&
Mine Abandonment Plan

The Coal Authority

Consultants

Coal Mining Report

Preston Street
Whitehaven
Cumbria
CA28 9DL

Date of enquiry:	**22 August 2018**
Date enquiry received:	**22 August 2018**
Issue date:	**22 August 2018**
Our reference:	**51001900035001**
Your reference:	**P18-351**

Consultants

Coal Mining Report

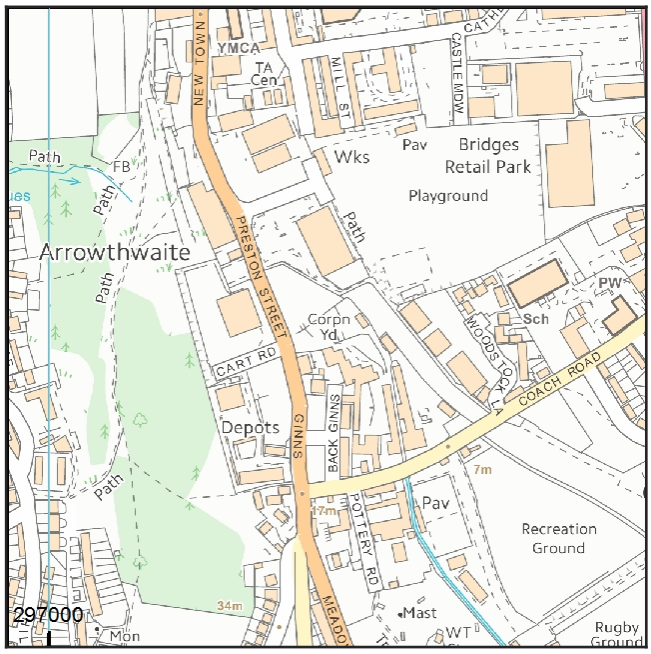
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

3E CONSULTING ENGINEERS LTD

Enquiry address

Preston Street
Whitehaven
Cumbria
CA28 9DL



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

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
SALTOM	BRICK (BANNOCK)	Coal	006F	17	Beneath Property	7.8	West	182	1967
unnamed	MAIN	Coal	00YG	65	Beneath Property	4.8	West	180	1900

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	297517-004	297220 517443	This entry was found to be loosely filled. It was drilled and pressure injected with 37 tonnes of grout to within 6m of the surface. The remainder was dug out and a 2m thick inverted truncated mass concrete cone across the shaft was set as a plug using 52m3 of concrete. The area was covered with Hardstop and the surface reinstated. These works were completed in 1977 by South Lancs Boring Co (UK) Ltd.	Coal	

Abandoned mine plan catalogue numbers

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

NW1390	NW684	NW1384
NW1391	PO0	NW1395
NW1387	NW1380	NW1393

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

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Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
BRICK (BANNOCK)	Coal	Yes	Within	N/A	190

Geological faults, fissures and breaklines

No faults, fissures or breaklines 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.

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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

None recorded within 50 metres of the enquiry boundary.

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 31st 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

Distance to gas incident/remediation (m)	Direction
241.6	South
235.6	South
294.6	South
159.3	South-West
177.6	South

See Section 4 for further information.

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.

Mine gas remedial works

The site is within an area of previous interest. It is close to where the Coal Authority has investigated and subsequently remediated the effects of mine or ground gas emissions following specific reported hazards.

The site requires further investigation and may influence your risk assessment. We recommend that you order the **Coal Authority Mine Gas Emission Report**, which will include more information about the hazard.

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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The Coal Authority

Summary of findings

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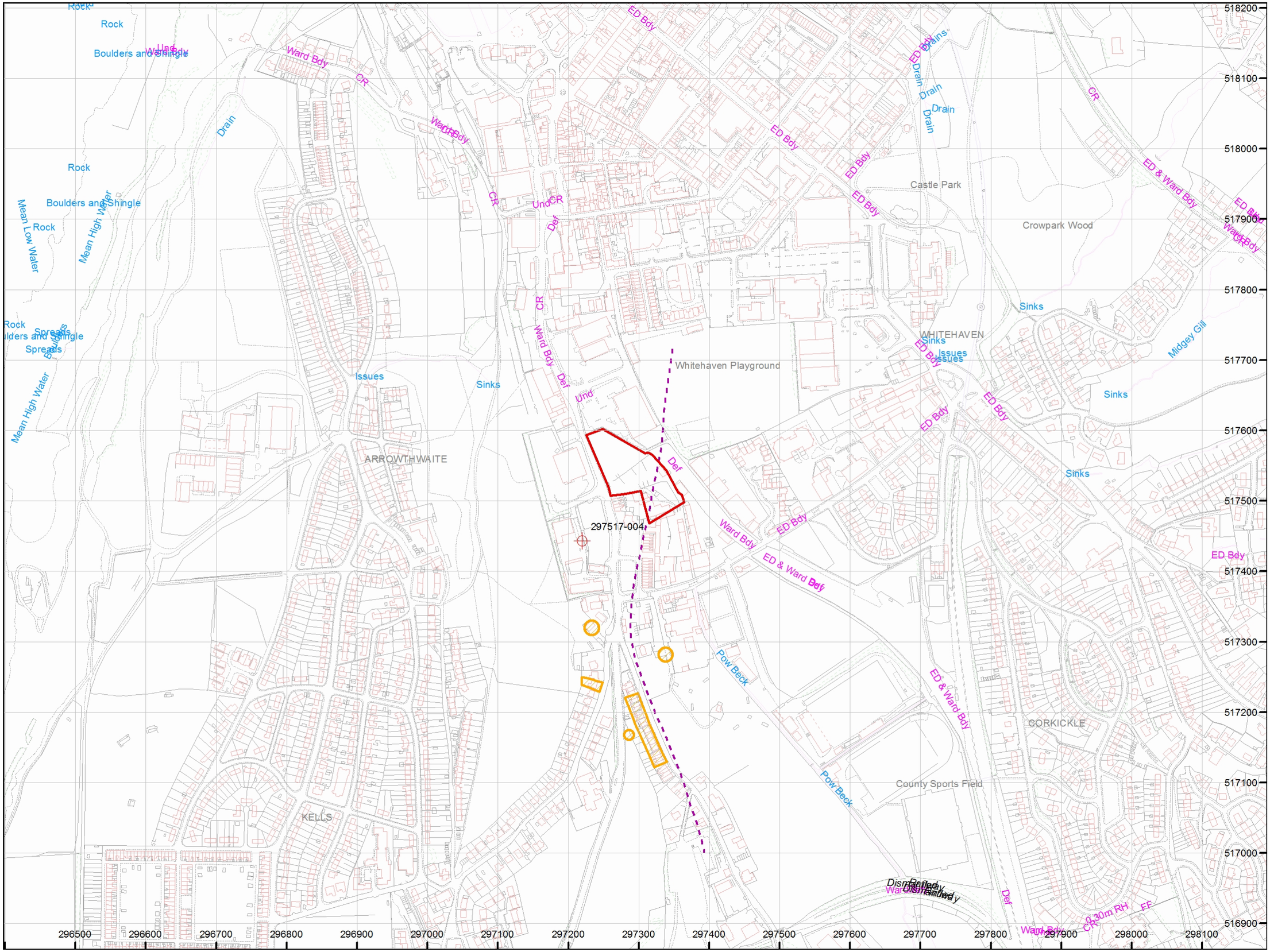
The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Outcrop (Conjectured)
- Mine gas remedial works



How to contact us

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www.groundstability.com

The Coal Authority
Cataloguing No: NW1395 Sheet Info: 1 OF 2
Date: 04/09/2018
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