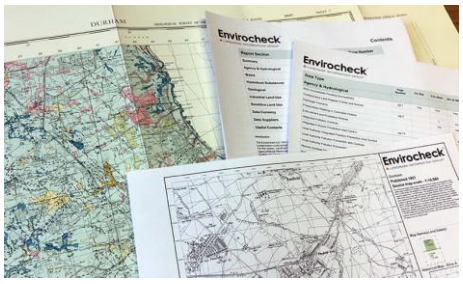



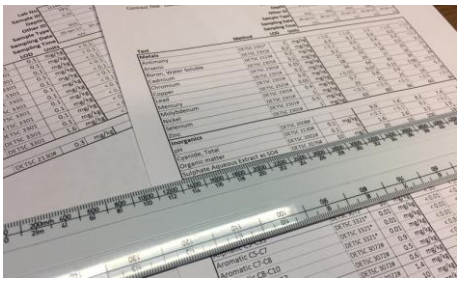

Phase 1: Desk Study

Astley High School, Seaton Delaval

Billinghurst George & Partners

S191056

Solmek Ltd

12 Yarm Road
Stockton-on-Tees
TS18 3NA
Tel: 01642 607083

www.solmek.com

info@solmek.com

PHASE 1 DESK STUDY

ASTLEY HIGH SCHOOL, SEATON DELAVAL

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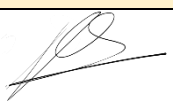
APPENDICES

Revision	Date	Prepared By	Signed
Final	November 2019	L Richards *Engineering Geologist*	
		Checked By	
		R Woods *Principal Geotechnical Engineer*	
		Approved By	
		R Woods *Principal Geotechnical Engineer*	

1 EXECUTIVE SUMMARY

Site Address	Astley High School, Eldson Avenue, Seaton Delaval, NE25 0BP.
Site Description	The desk study area is located on a parcel of land south of Eldson Avenue. The site is irregularly shaped and has a mostly flat and even topography. The site is currently an active high school and its associated buildings and playing fields. The site comprises multiple school buildings and a sports hall with areas of hardstanding currently used as car parking areas in the eastern portion of the site and playing fields across the western part. No obvious signs of contamination were noted during the walkover. An electrical substation was noted towards the south eastern site boundary. The site perimeter is secure with gated access to the north via Eldson Street.
Site History *On Site* *Offsite*	 The earliest maps (1858) show that the site was undeveloped agricultural land. From the earliest mapping the area around the site was predominantly agricultural fields. An unnamed road was present to the immediate west of the site. Residential properties along Wheatridge Row were present approximately 250m north west of the site. Seaton Delaval Colliery was present approximately 900m north west of the site.
Proposed End Use	The proposed development is outlined to be a new school.
Environmental Setting *Landfill & Waste* *Regulated Industries* *Geology* *Hydrogeology* *Hydrology* *Flooding* *Radon Gas*	 There are no Landfills or any facilities handling or managing waste within 500m of the site. There are nineteen contemporary trade directory entries within 500m of the site. There are two fuel station entries within 500m of the site. The solid geology beneath the site is likely to mostly comprise Pennine Middle Coal Measures formation of interbedded sandstone, siltstone and mudstone with coal seams of varying thickness. The drift deposits on site are likely to comprise of silty, sandy and gravelly Glacial Till. Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a Secondary Aquifer – A. The overlying drift is classified as a Secondary Aquifer – Undifferentiated. The site does not lie within a source protection zone. There are no Ground Water Abstractions located within 1km of the site. The nearest surface water feature is an unnamed river located 80m south east of the site. The Envirocheck Report states the site is not at risk of Flooding from Rivers and the Seas without defences, and there are no flood defences, flood water storage areas or areas benefiting from flood defences and flood storage present within 250m of the site. The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. No radon protection measures are necessary for new buildings or extensions on the site.
Preliminary Geotechnical Assessment	Given the expected ground conditions noted in the sections above, the use of strip or pad foundations for the new development is anticipated at present. For the proposed new access roads and carparking the foundations will consist of suitably compacted and graded fill to be used to form a sub-base, base and binding course beneath the road surface course. The road design and choice of materials should be undertaken in line with the guidance "Specification for Highway Works".
Preliminary Mining Assessment	The mining report highlights that the site is situated in an area where four seams have been worked within the likely zone of physical influence on the surface. The shallowest seam is the Main seam last worked pre 1935 at a depth of 115m with a section thickness of 2.03m. Given the absence of shallow coal seams within influencing distance to the surface, and the sites location outside of a Development High Risk Area, no further investigation into historical coal mining is considered necessary.
Preliminary Contamination Assessment	The desk study has shown that the site may have been exposed to some contamination, with construction/demolition waste and possibly oils or fuel from vehicle spills the most likely source local to the structures. Asbestos may also be present on the site from previous/existing building materials used on-site.
Potential Sources of Ground Gas	Made ground is expected on site, therefore ground gas assessment is recommended due to the nature of the development.
Phase Two Recommendations	• A series of small percussive boreholes with insitu testing and samples. • Gas monitoring comprising four visits over one month. • A series of machine dug trial pits for sampling, insitu soakaways and CBRs. • Provisional: A series of Cable Percussive boreholes with insitu testing and samples. • Geotechnical testing. • Chemical testing.

2 INTRODUCTION AND SCOPE OF INVESTIGATION

Solmek were instructed by Billinghurst George & Partners to undertake a desk study on a parcel of land at Astley High School, Seaton Delaval, NE25 0BP. The proposed development is outlined to be a new school.

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

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

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

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

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

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

The objectives of the investigation are as follows:

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

3 SITE WALKOVER AND DESCRIPTION

3.1 General

The centre of the site is located at OS Grid Ref 430370, 575100 and covers an area of approximately 5.66Ha. The area is located at Astley High School, Eldson Avenue, Seaton Delaval, NE25 0BP.

The preliminary site inspection was undertaken on the 7th November 2019 and site photographs are presented in Appendix A.

3.2 Site Description

The desk study area is located on a parcel of land south of Eldson Avenue.

The site is irregularly shaped and has a mostly flat and even topography. The site is currently an active high school and its associated buildings and playing fields.

The site comprises multiple school buildings and a sports hall with areas of hardstanding currently used as car parking areas in the eastern portion of the site and playing fields across the western part.

No obvious signs of contamination were noted during the walkover. An electrical substation was noted towards the south eastern site boundary.
The site perimeter is secure with gated access to the north via Eldson Street.

3.3 Off Site Features

Residential properties are present to the immediate east and west of the site. Industrial warehouse buildings were noted to the immediate south of the site. The land to the north of the site comprises both residential properties and small commercial businesses.

4 SITE HISTORY

4.1 Map Descriptions

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

Table 1 presents a summary of the history of the area which includes plots from 1858 to 2019. The summary focuses on the historical land uses and changes relevant to the site and the proposed end use. Measurements are taken from the nearest boundary of the site and all distances quoted are approximate.

TABLE 1: SUMMARY OF SITE HISTORY

OS Map Edition	On-site Features	Off-site Features
1858-1876 1:2,500 1865 1:2,500	The site is undeveloped agricultural land.	Immediately surrounding the site are agricultural fields. An unnamed road is present to the immediate west of the site. Residential properties along Wheatridge Row are present approximately 250m north west of the site. Seaton Delaval Colliery is present approximately 900m north west of the site.
1896 1:2,500 1897-1898 1:10,560	No significant change.	Construction of residential and industrial buildings approximately 120m north east of the site. Old Clay Pit is now marked approximately 90m west of the site. Construction of East Holywell Colliery approximately 500m east of the site.
1919 1:2,500 & 1920-1924 1:10,560	No significant change.	Construction of residential properties approximately 100m north of the site.
1938 1:2,500	No significant change.	Further development of residential properties approximately 100m to the north and north west of the site. Astley Park and associated Tennis Courts and Bowling Green is now marked approximately 110m north east of the site. Construction of Allotment Gardens approximately 100m west of the site.
1950-1951 1:10,000	No significant change.	No significant change.
1961 1:2,500	No significant change.	Construction of residential properties to the immediate north west of the site.
1966 1:2,500 & 1966-1967 1:10,000	Construction of Astley County Secondary School in the eastern portion of the site. A tennis court is marked in the southern portion of the site.	Construction of Surgery to the immediate north of the site. Residential development to the immediate east of the site. Construction of Cosmetics Factory to the immediate south of the site.
1970 1:2,500	No significant change.	Electrical substation now marked to the immediate east of the site.
1977-1985 1:2,500 & 1982-1985 1:10,000	No significant change.	No significant change.
1989-1990 1:2,500 & 1993 1:2,500	No significant change.	Cosmetics Factory to the immediate south of the site is now marked as Factory and has been extended.
2000 1:10,000	No significant change.	No significant change.

2019 1:10,000	No significant change.	No significant change.

4.2 Potential Contamination Sources Identified via Historical Plans

Contamination from historical land uses within a 250m radius of the site have been identified:

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

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

Electrical substation may have produced contaminants including Polychlorinated Biphenyls (PCBs)

5 ENVIRONMENTAL SETTING

5.1 Information Sources

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

- Envirocheck Report (including historical map extracts)
- British Geological Survey (BGS): 1:63 360 geological map series sheet 15 Tynemouth Drift Edition (1968)
- British Geological Survey (BGS): 1:50 000 geological map series sheet 15 Tynemouth Solid Edition (1975)
- BRE Publication BR211 Radon: Guidance on Protective Measures for New Dwellings

5.2 Landfill and Waste

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

5.3 Regulated Industries

The Envirocheck Report indicates that there are nineteen Contemporary Trade Directory Entries located within 500m of the site. The nearest of which is located an estimated 15m north of the site and Classified as Control Panels. Its status is reported as Inactive.

The Envirocheck Report indicates that there are two Recorded Fuel Sites located within 500m of the site. The nearest of which is located an estimated 476m north west of the site. There is no reported Premises Type and the Fuel Station is reported as Obsolete.

The Envirocheck Report indicates that there is one Local Authority Pollution Prevention and Control site or enforcement located within 500m of the site. It is located an estimated 476m north west of the site and its reported is process type is Local Authority Air Pollution Control. The Description s reported as Petrol Filling Station.

The Envirocheck Report indicates that there are no records of any other Pollution controls located within 500m of the site.

The Envirocheck Report indicates that there are no records of Registered Radioactive Substances located within 500m of the site.

The Envirocheck Report indicates that there are three records of Planning Hazardous Substance Consents and Enforcements located within 500m of the site. The nearest of which is located an estimated 115m south west of the site. The Hazardous Substance is Unknown at time of report. The application is Dated December 1992 and the Consent was Granted.

The Envirocheck Report indicates that there is one record of a Control of Major Accident Hazard (COMAH) site located within 500m of the site. It is located an estimated 87m south of the site and its Status is reported as Active. The Type is reported as Lower Tier.

The Envirocheck Report indicates that there are no records of Notification of Installations Handling Hazardous Substances (NIHHS) located within 500m of the site.

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

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

5.4 Geology

The site is shown to be underlain by solid geology of Pennine Middle Coal Measures Formation most likely comprising of cyclic beds of mudstone, siltstone and sandstone with coal seams of varying thicknesses.

The drift deposits on site are likely to comprise of silty, sandy and gravelly Glacial Till with occasional sandy and gravelly lenses.

There are no faults on the site or within 500m.

5.5 Mining & Quarrying

The site is within a Coal Mining Affected Area as defined by the Coal Authority, as a result a coal mining search report was required to assess the risks posed by historic and possible future coal mining to any current or future developments on the site.

The coal mining search report conducted by David Bellis Consulting Surveyors dated 7th November 2019 is presented in Appendix D.

The mining report highlights that the site is situated in an area where four seams have been worked within the likely zone of physical influence on the surface. The shallowest seam is the Main seam last worked pre 1935 at a depth of 115m with a section thickness of 2.03m.

The report highlights that the site is not situated within the boundary of a former opencast coal mining site. Neither is the site located within 200m of a currently operating opencast coal mine or 800m of a future opencast coal mine.

The report follows on to state that they have no knowledge of any shafts or adits within 20m of the site or the boundary of the site. Also there are no tips or lagoons in the vicinity of the site.

The report concludes by stating that old workings are present but all settlement is likely to have completed long ago. In their opinion it is unlikely that coal will be worked in the foreseeable future.

The Envirocheck Report indicates that there are five BGS recorded Mineral Sites located within 1km of the site. The nearest of which is located approximately 271m west of the site with the commodity listed as Common Clay and Shale. The type is reported as Opencast and the status is reported as Ceased.

The site is not within 1km of a Non-Coal mining area of Great Britain, a Man-Made Mining Cavity, a Natural Cavity or a Brine Compensation area.

5.6 Geological Hazards and Instability

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

- Negligible hazard is posed by Ground Dissolution Stability Hazards and Compressible Ground Stability Hazards
- Very low hazard is posed by Landslides, Running sand and Collapsible Ground Stability Hazards

- Low hazard is posed by Shrinking or Swelling Clay Stability Hazards

5.7 Hydrogeology

Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a Secondary Aquifer – A. The overlying drift is classified as Secondary Undifferentiated.

The groundwater vulnerability is categorised as Low, due to soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment.

The site does not lie within a Source Protection Zone.

The Envirocheck Report indicates that there are no Water Abstractions located within 1km of the site.

5.8 Hydrology

The nearest surface water feature is an unnamed river located 80m south east of the site.

The Envirocheck Report states there are no Licensed Discharge Consents entries within 500m of the site.

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

5.9 Flooding

The Envirocheck Report states the site is not at risk of Flooding or Extreme Flooding from Rivers and the Seas without defences.

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

5.10 Sensitive Land Use

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

5.11 Radon Gas

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

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

6 CONCEPTUAL SITE MODEL

6.1 General

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

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

6.2 Likely Ground Conditions

It is expected that, based on available information, ground conditions are likely to be made ground comprising areas of both topsoil and hardstanding underlain by possible made ground and construction/demolition

waste. The drift deposits on site are likely to comprise of glacial till deposits overlying a sandstone, siltstone and mudstone bedrock.

6.3 Potential Buried Obstructions

Based on the site history, buried obstructions are possible. Relic foundations, cobbles, bricks and stone blocks are the most likely obstructions.

6.4 Mining Assessment

The site is within a Coal Mining Reporting Area as defined by the Coal Authority.

The general guidance and good practice for assessing if a seam is within influencing distance to the surface is if rock cover (not including made ground and drift) is greater than 10x the worked thickness of the coal seam, then generally no void migration will reach the interface of the rock and drift deposits/made ground and thus no instability via a crown hole tyre collapse will occur.

From the Coal Mining Report, the shallowest known worked coal seam is the Main seam at 115m depth with a section thickness of 2.03m. In this situation the Main seam is at a sufficient depth to give a ratio well in excess of 10x the seam thickness.

Given the absence of shallow coal seams within influencing distance to the surface, and the sites location outside of a Development High Risk Area, no further investigation into historical coal mining is considered necessary.

6.5 Preliminary Geotechnical Assessment

Given the expected ground conditions noted in the sections above, the use of strip or pad foundations for the new development is anticipated at present. Where loose made ground or soft/loose natural deposits are encountered, foundations will need to be taken through the made ground/disturbed ground into underlying natural strata of adequate bearing capacity. If structures are expected to be heavily loaded, then piled foundations may be required.

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

For the proposed new access roads and carparking the foundations will consist of suitably compacted and graded fill to be used to form a sub-base, base and binding course beneath the road surface course. The road design and choice of materials should be undertaken in line with the guidance “Specification for Highway Works”.

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

6.6 Preliminary Contamination Assessment

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

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

TABLE 2: POTENTIAL PRIORITY CONTAMINANTS

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

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

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

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

6.7 Potential Sources of Ground Gas

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

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

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

TABLE 3: POTENTIAL GROUND GAS POLLUTION LINKAGES

Potential Sources	**Potential Pathway**	**Receptor**
Made ground (CO_2, CO and CH_4). Coal measures (CO_2, CO and CH_4) and stythe gas or oxygen depletion.	Ingress and Accumulation into buildings from vertical and horizontal migration	Future users of site are likely to include adults and children. Construction workers (in particular utility workers).
Preliminary Comparison of Consequence verses Probability		
	Classification	**Justification**
Probability *(Based on Table 8.1, CIRIA C665, 2007)*	UNLIKELY	Ground gas from made ground.
		No landfills located within 1km radius of the site.
		Coal mining in area.
Consequence *(Based on Table 8.2, CIRIA C665, 2007)*	MILD	Development of School
	Risk	**Details**
Consequence vs. Probability *(Based on Table 8.3, CIRIA C665, 2007)*	LOW RISK	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild. *(Based on Table 8.4, CIRIA C665, 2007).*

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

6.8 Risk Assessment for Contaminated Land

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

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

6.9 Conceptual Site Model

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

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

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

TABLE 4 : PRELIMINARY CONCEPTUAL MODEL

Source	Pathway	Receptor	Risk Rating	Comments
Asphyxiating or explosive ground gases • Made ground • No landfills within 250m • Not in Radon Affected Area	**Ground gas migration** • Migration through permeable soils • Inhalation	**Future site users** • Adult workers and junior students	Moderate /Low	Gas monitoring recommended. Six visits over three months proposed.
		Users during development • Construction workers	Low	
Areas of contamination • Potential contaminants in made ground • Potential demolition/construction waste	• Inhalation	**Future site users** • Adult workers and junior students	Low	Playing fields proposed.
		Users during development • Construction workers	Moderate /Low	Contamination testing required to determine risks posed during construction
	• Inhalation • Dust ingestion	**Users of surrounding sites** • Local residents	Low	Potential low risk during construction from dust generation. Contamination testing required to quantify the risks.
	• Leaching of mobilised contaminants	**Solid geology** • Secondary Aquifer – A	Low	Medium sensitivity aquifer located beneath low permeability drift deposits
		Drift geology • Secondary Aquifer – Undifferentiated	Very Low	Low sensitivity aquifer unlikely to contain significant groundwater
	• Drainage • Lateral migration • Accumulation of contaminated sediment	**Surface water features** • River 80m southeast	Very Low	Very limited potential for contamination from site to reach surface water, either via surface run-off or groundwater movement.
	• Uptake via roots and leaf surfaces	**Vegetation** • Playing fields proposed	Moderate /Low	Contamination results to be assessed against phytotoxic thresholds.
Areas of contamination above service fabric or BRE Special Digest 1 thresholds	• Direct contact	**Construction Materials** • Concrete	Moderate /Low	pH and sulphates to be assessed during Site Investigation
	• Direct contact	**Construction Materials** • Service Fabric	Moderate /Low	Consideration to be given to Pipe Material Table (Appendix E) during Site Investigation

7 PROPOSED PHASE TWO INTRUSIVE WORKS

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

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

7.1 Site Investigation Rationale

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

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

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

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

7.2 Site Specific Sampling Rationale

The analysis of the historical maps and the Conceptual Model has highlighted that specific point sources of contamination may be present, or may historically have been present, on the site. It is recommended that a targeted approach it utilised in order to prove and delineate the extent of these hotspots. The hotspots outlined for targeted analysis are detailed below.

TABLE 5: HOTSPOT INVESTIGATION LOCATIONS

Proposed Exploratory Method	Possible Hotspot
Trial Pits (ca.3.00mbgl)	Electrical substation in south eastern corner of the site

In addition to the proposed targeted approach, it is recommended that the remainder of the site away from the hotspots is investigated using a non-targeted approach.

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

7.3 Proposed Methods of Investigation

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

TABLE 6: SITE INVESTIGATION RECOMMENDATIONS

Proposed method of investigation	Purpose	Comments
Hand dug trial pits	Hand dug trial pits to 1.20mbgl to ensure positions are clear of underground services.	To be undertaken prior to the drilling of all boreholes and following CAT scanning an service plan inspection.

A series of small percussive boreholes to ca. 6.00mbgl	• To determine shallow ground conditions. • To collect soil samples for geotechnical and chemical testing. • To observe soils profile, localised variations in materials and presence of groundwater.	• Ensure positions are CAT scanned and service plans inspected prior to any excavation. • Hand vanes to be taken in cohesive deposits. • SPT samples in granular strata and rock head. • Disturbed and jar samples to be undertaken for chemical testing.
Trial pitting to ca. 3.00mbgl	• To assess the shallow ground conditions and obtain samples for chemical testing. • To undertake insitu hand shear vanes. • To undertake soakaway tests and insitu CBR testing.	• Ensure positions are CAT scanned and service plans inspected prior to investigation. Trial pits required to accompany the boreholes.
Provisional: A series of cable percussive boreholes to ca. 15/20.00mbgl prove rockhead depth.	• To determine shallow ground conditions. • To provide information for pile design. • To collect soil samples for geotechnical and chemical testing. • To observe soils profile, localised variations in materials and presence of groundwater.	• Ensure positions are CAT scanned and service plans inspected prior to any excavation. • Hand vanes to be taken in cohesive deposits. • SPT samples in granular strata and rock head. • Disturbed and jar samples to be undertaken for chemical testing.
Gas/groundwater monitoring wells	To observe standing groundwater levels and to allow measurements to be made of hazardous gases and/or contamination levels in groundwater.	Monitoring to be undertaken following site works on a minimum of four occasions.
Chemical testing	To allow the potential risks identified within the conceptual model to be addressed.	Chemical soils testing to cover potential priority contaminants from Table 2.
Geotechnical testing	To confirm material properties and to provide concrete classification of materials.	Tests may include sulphate analysis, pH, moisture content, Atterberg limit determination, particle size distribution tests and triaxial testing. Further tests may be required depending on the materials encountered.

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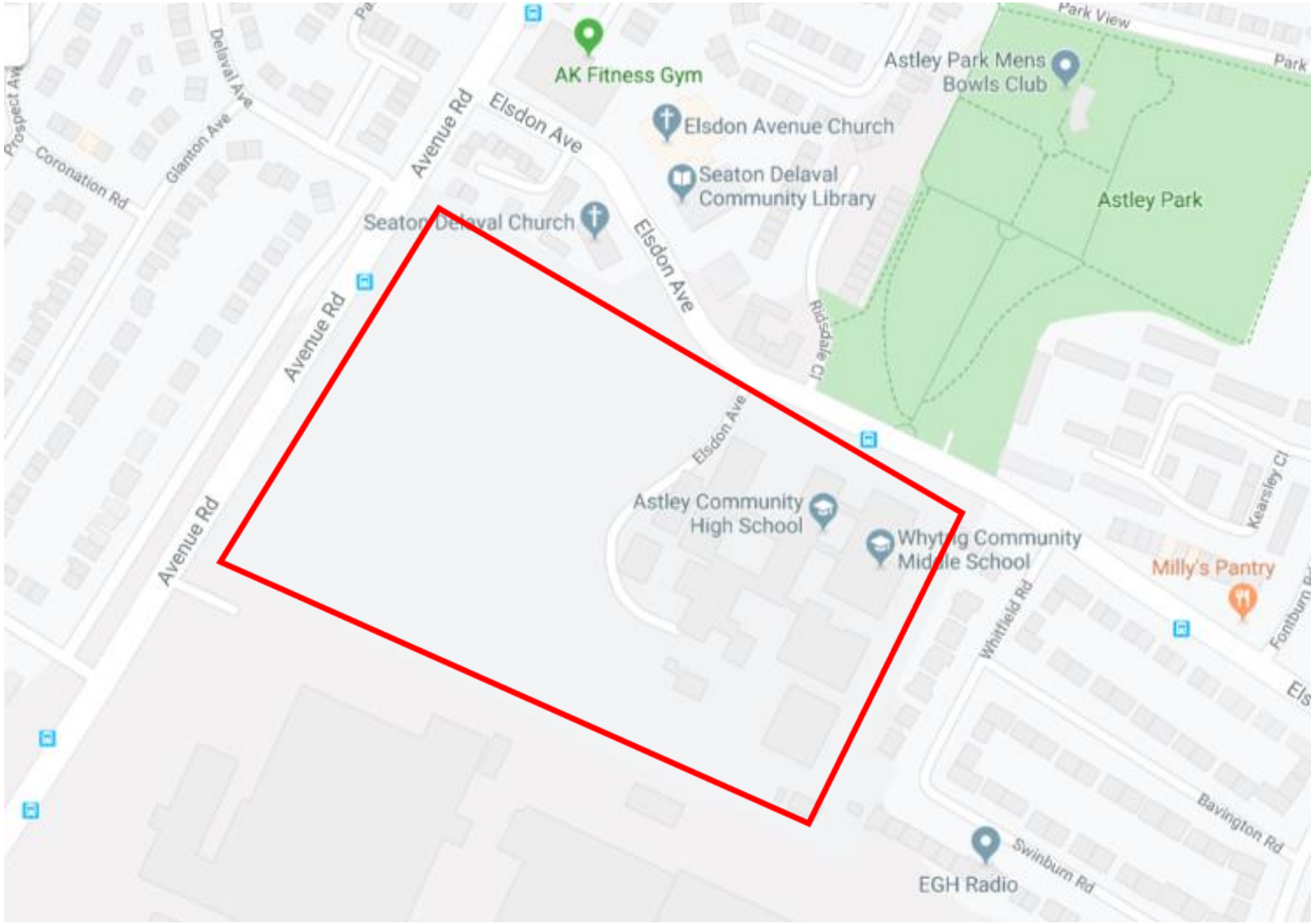
Appendix A
Maps and Photographs



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Title
Site Location Map

Project
Astley High School, Seaton Delaval

Client
Billinghurst George & Partners

Date
October 2019

Fig No.
Figure 1

Scale
Scale on map

Key

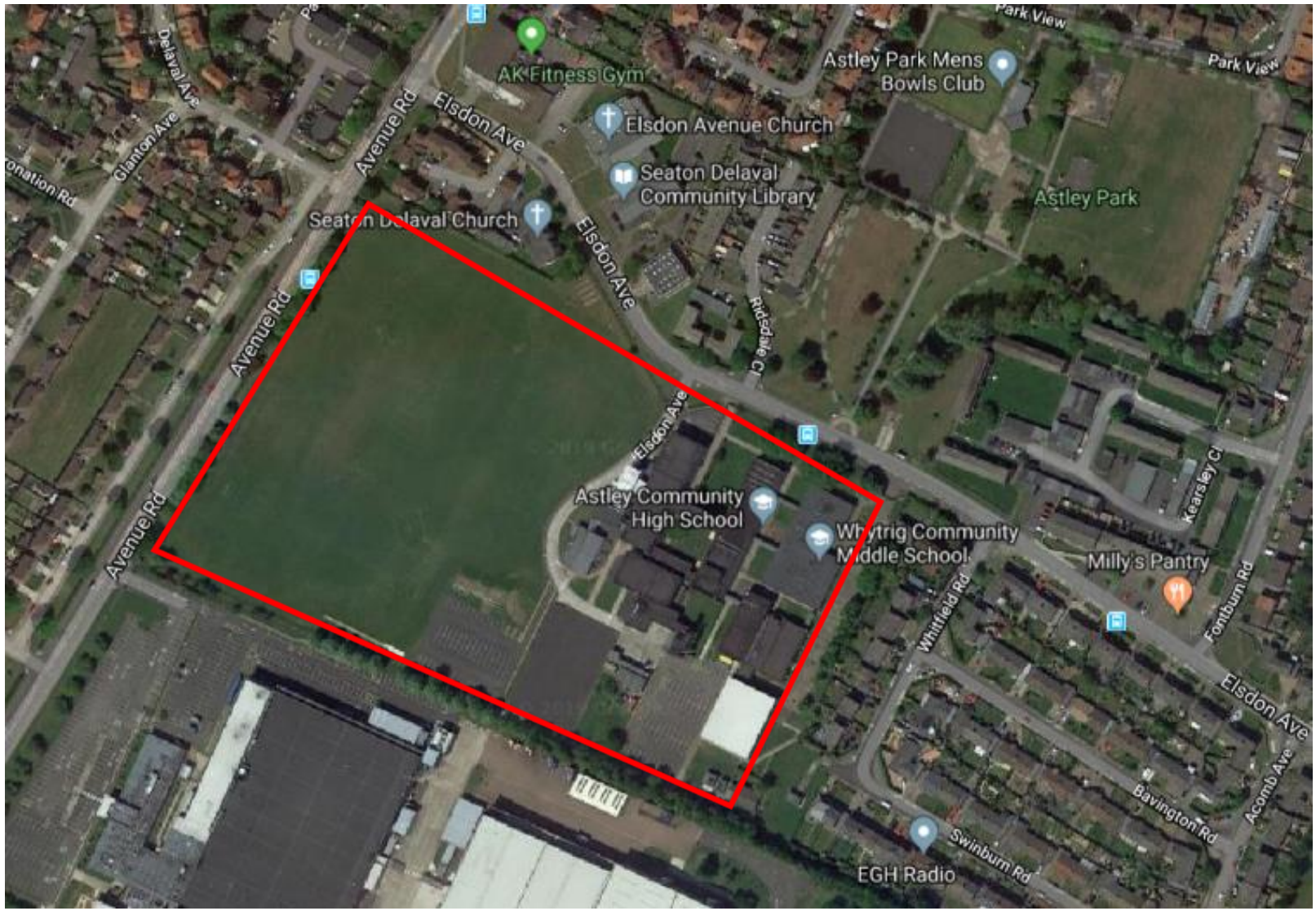
Site Boundary

N

Solmek Ltd.
12 Yarm Road
Stockton-on-Tees
TS18 3NA

Tel: +44 (0) 1642 607083
Fax: +44 (0) 1642 612355
e-mail: south@solmek.com
www.solmek.com

SOLMEK



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Title
Site Location Plan

Project
Astley High School, Seaton Delaval

Client
Billinghurst George and Partners

Date
November 2019

Fig No.
Figure 2

Scale
Scale on map

Key

Site Boundary

N

Solmek Ltd.
12 Yarm Road
Stockton-on-Tees
TS18 3NA

Tel: +44 (0) 1642 607083
Fax: +44 (0) 1642 612355
e-mail: south@solmek.com
www.solmek.com

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Title
Solid Geology Map

Project
Astley High School, Seaton Delaval

Client
Billinghurst George and Partners

Date
November 2019

Fig No.
Figure 3

Scale
Scale on map

Key

- Site Boundary
- Pennine Middle Coal Measures
- Mull Dyke Swarm

N

Solmek Ltd.
12 Yarm Road
Stockton-on-Tees
TS18 3NA

Tel: +44 (0) 1642 607083
Fax: +44 (0) 1642 612355
e-mail: south@solmek.com
www.solmek.com

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Title
Drift Geology Map

Project
Astley High School, Seaton Delaval

Client
Billinghurst George & Partners

Date
November 2019

Fig No.
Figure 4

Scale
Scale on map

Key

Site Boundary

Glacial Till

N

Solmek Ltd.
12 Yarm Road
Stockton-on-Tees
TS18 3NA

Tel: +44 (0) 1642 607083
Fax: +44 (0) 1642 612355
e-mail: south@solmek.com
www.solmek.com

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Photo 1: View looking west across playing fields.

Photo 2: View looking east towards school buildings.

Title	**Date**
Site Walkover Photos	November 2019
Project	
Astley High School, Seaton Delaval	
Client	
Billinghurst George & Partners	

Solmek Ltd.
12 Yarm Road
Stockton-on-Tees
TS18 3NA

Tel: +44 (0) 1642 607083
Fax: +44 (0) 1642 612355
e-mail: south@solmek.com
www.solmek.com

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Photo 3: View showing carparking area in the south of the site.

Photo 4: Showing the electrical substation present in the south eastern corner of the site.

Title	**Date**
Site Walkover Photos	November 2019
Project	
Astley High School, Seaton Delaval	
Client	
Billinghurst George & Partners	

Solmek Ltd.
12 Yarm Road
Stockton-on-Tees
TS18 3NA

Tel: +44 (0) 1642 607083
Fax: +44 (0) 1642 612355
e-mail: south@solmek.com
www.solmek.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
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

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

1:10,000 Raster Mapping

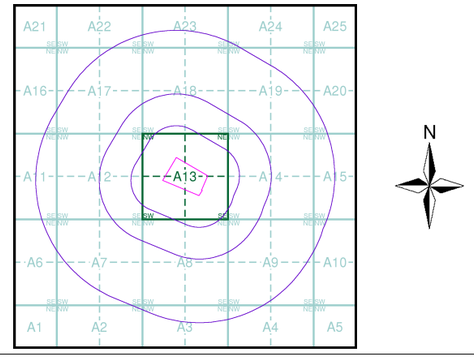
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or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

SOLMEK

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Northumberland	1:10,560	1865	2
Northumberland	1:10,560	1897 - 1898	3
Northumberland	1:10,560	1920 - 1924	4
Northumberland	1:10,560	1921	5
Northumberland	1:10,560	1938	6
Ordnance Survey Plan	1:10,000	1950 - 1951	7
Ordnance Survey Plan	1:10,000	1957	8
Ordnance Survey Plan	1:10,000	1966 - 1967	9
Ordnance Survey Plan	1:10,000	1970 - 1972	10
Ordnance Survey Plan	1:10,000	1976	11
Ordnance Survey Plan	1:10,000	1982 - 1985	12
Ordnance Survey Plan	1:10,000	1991 - 1992	13
10K Raster Mapping	1:10,000	2000	14
Street View	Variable		15

Historical Map - Slice A



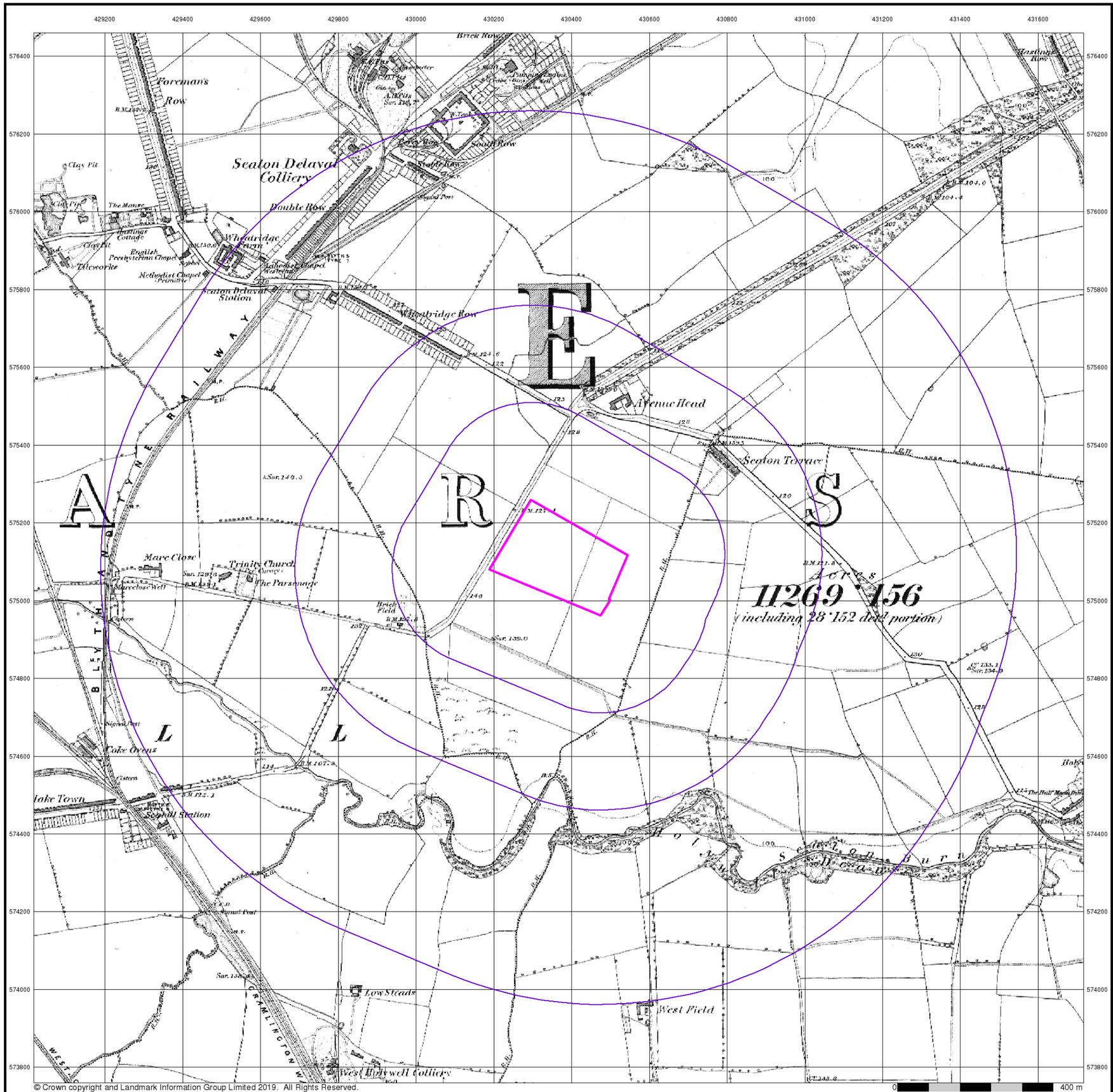
Order Details

Order Number: 223718908_1_1
Customer Ref: S191056
National Grid Reference: 430370, 575100
Slice: A
Site Area (Ha): 5.66
Search Buffer (m): 1000

Site Details

Astley High School, Elsdon Avenue, Seaton Delaval, NE25 0BP

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



SOLMEK

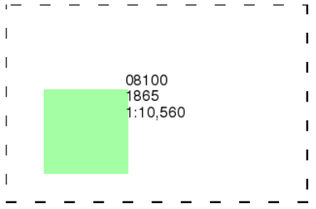
Northumberland

Published 1865

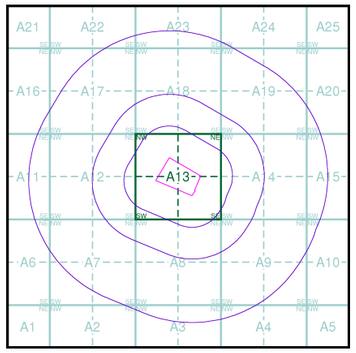
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Site Area (Ha):	5.66
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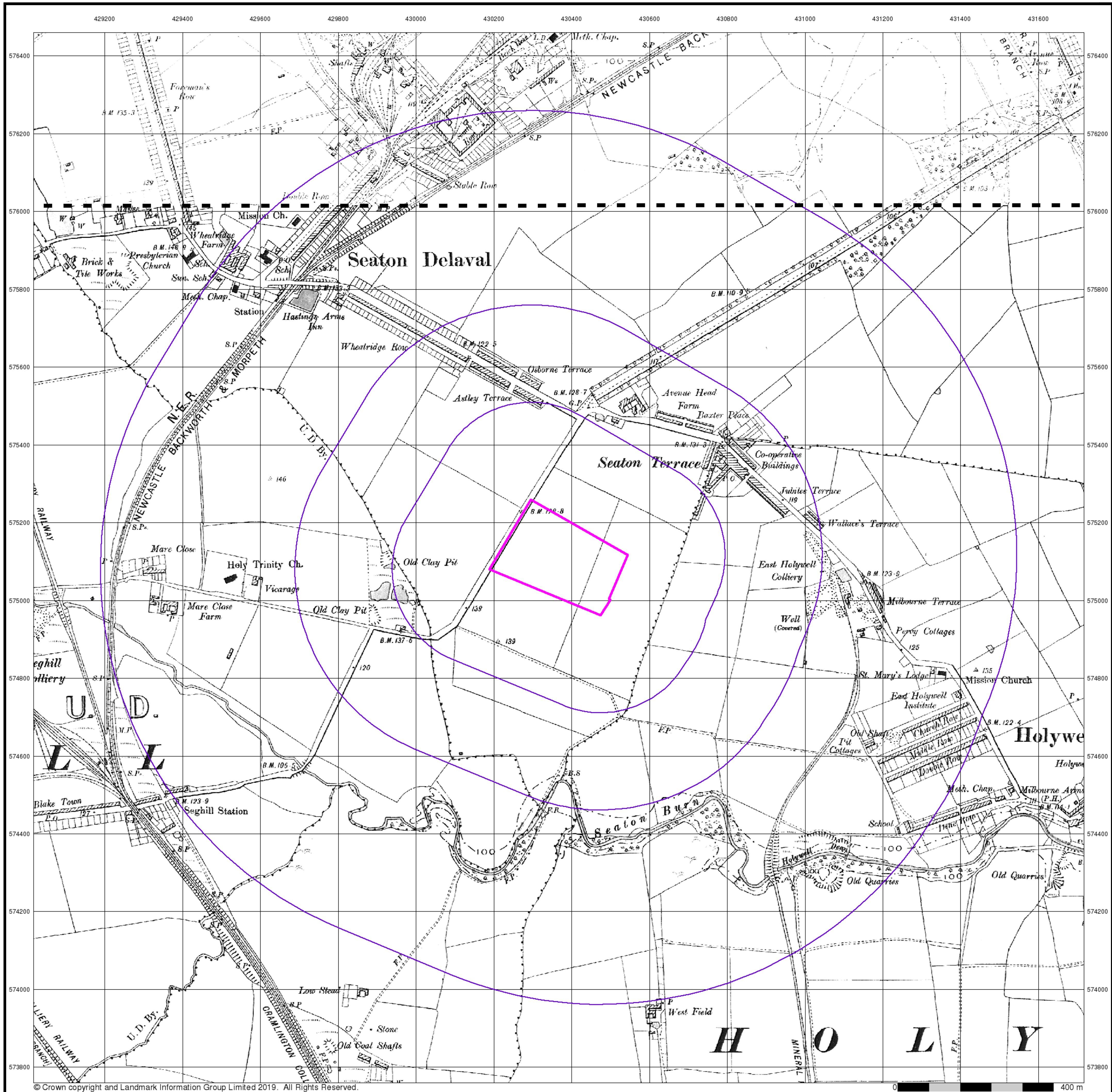


SOLMEK

Northumberland

Published 1897 - 1898

Source map scale - 1:10,560

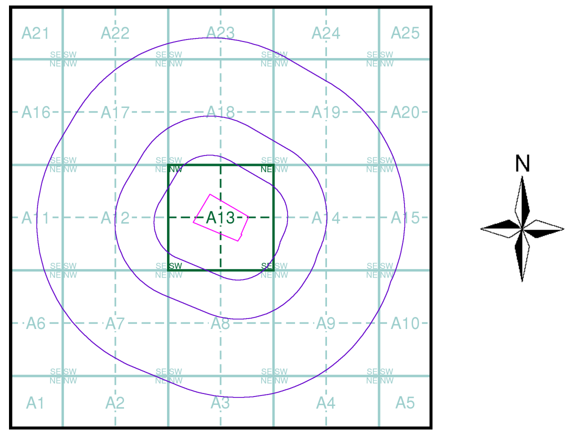
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

081NW
1898
1:10,560

081SW
1897
1:10,560

Historical Map - Slice A



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National Grid Reference:	430370, 575100
Slice:	A
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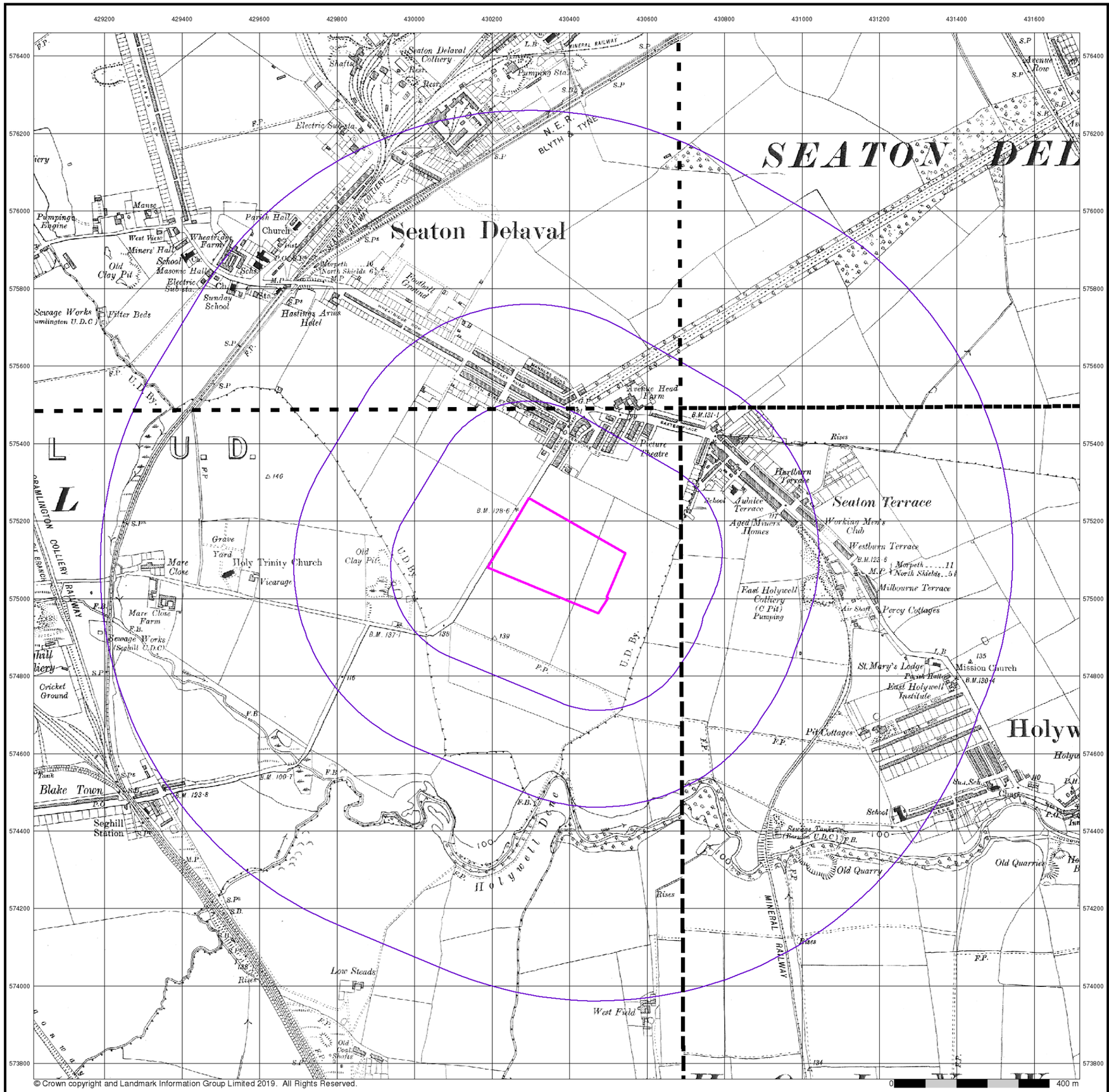


SOLMEK

Northumberland

Published 1920 - 1924

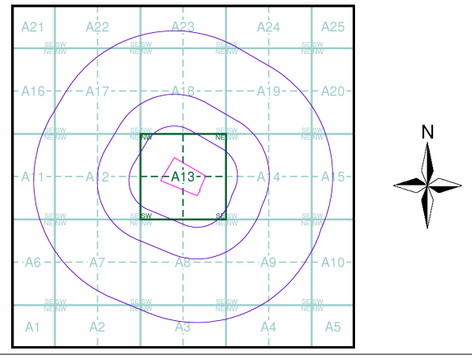
Source map scale - 1:10,560

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)

078SW 1924 1:10,560	078SE 1924 1:10,560
086NW 1920 1:10,560	086NE 1921 1:10,560

Historical Map - Slice A



Order Details

Order Number:	223718908_1_1
Customer Ref:	S191056
National Grid Reference:	430370, 575100
Slice:	A
Site Area (Ha):	5.66
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Site Details

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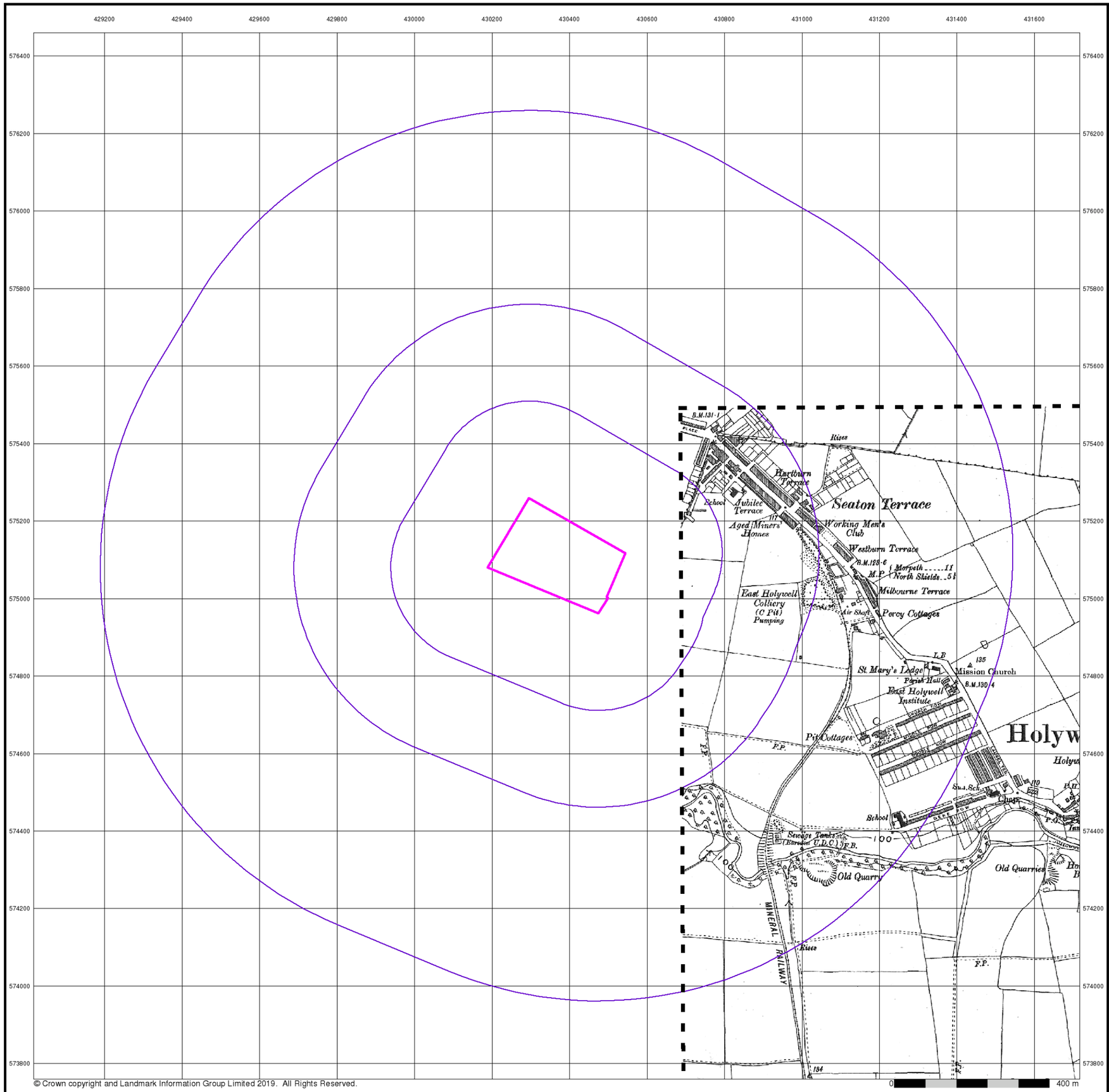


SOLMEK

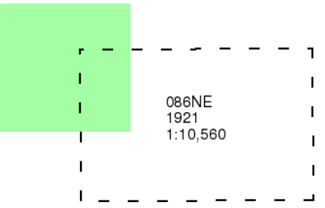
Northumberland

Published 1921

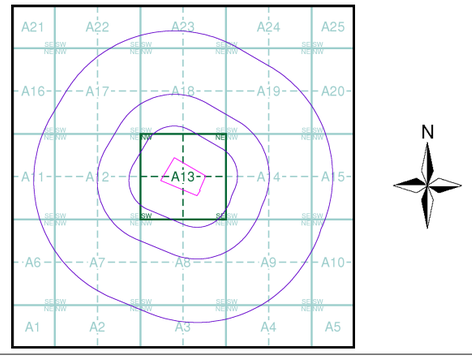
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Customer Ref:	S191056
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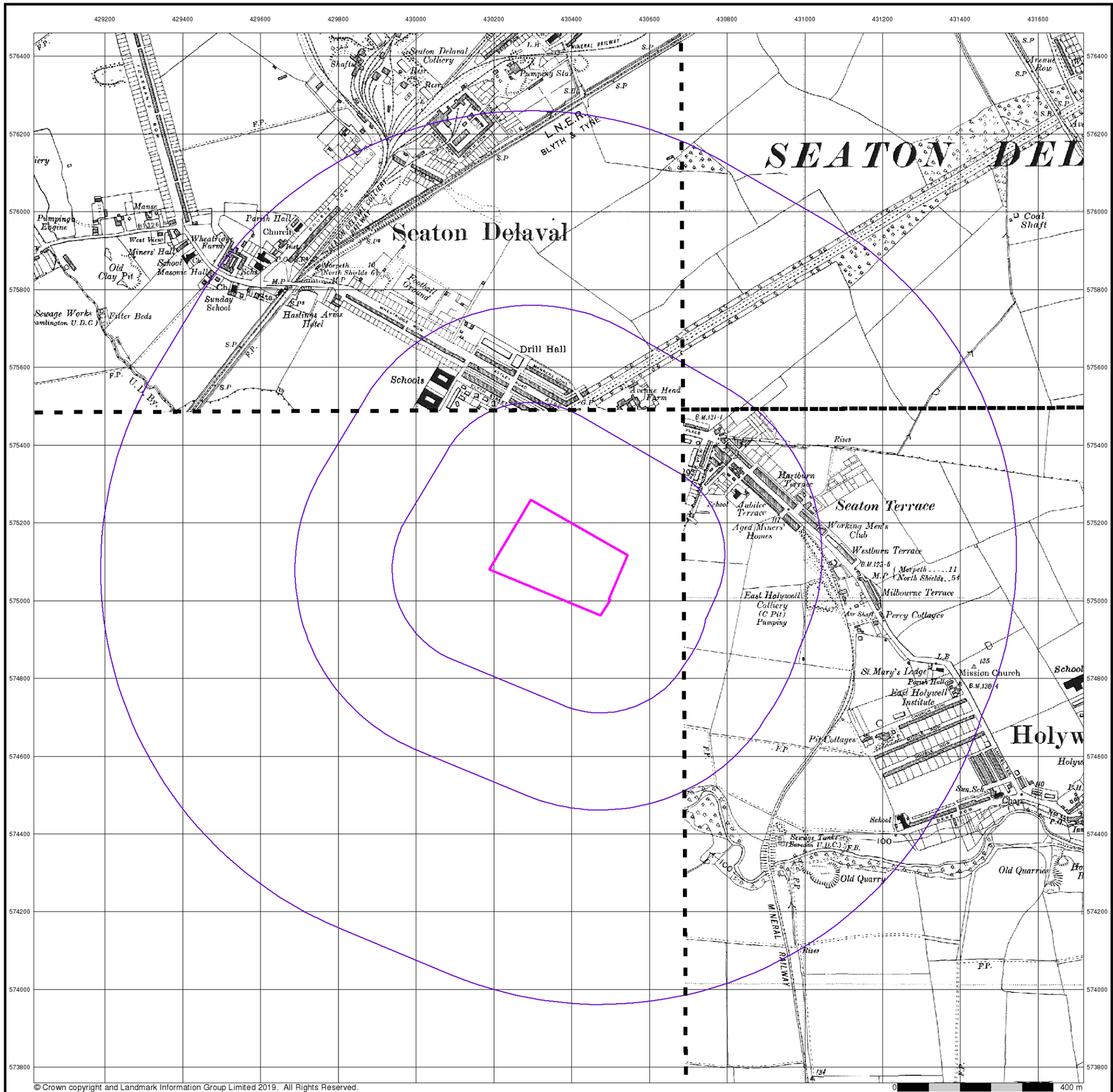


SOLMEK

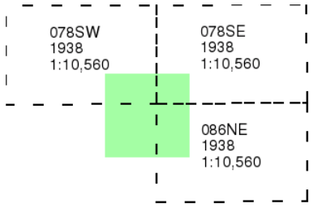
Northumberland

Published 1938

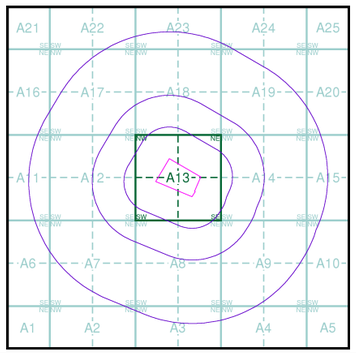
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	223718908_1_1
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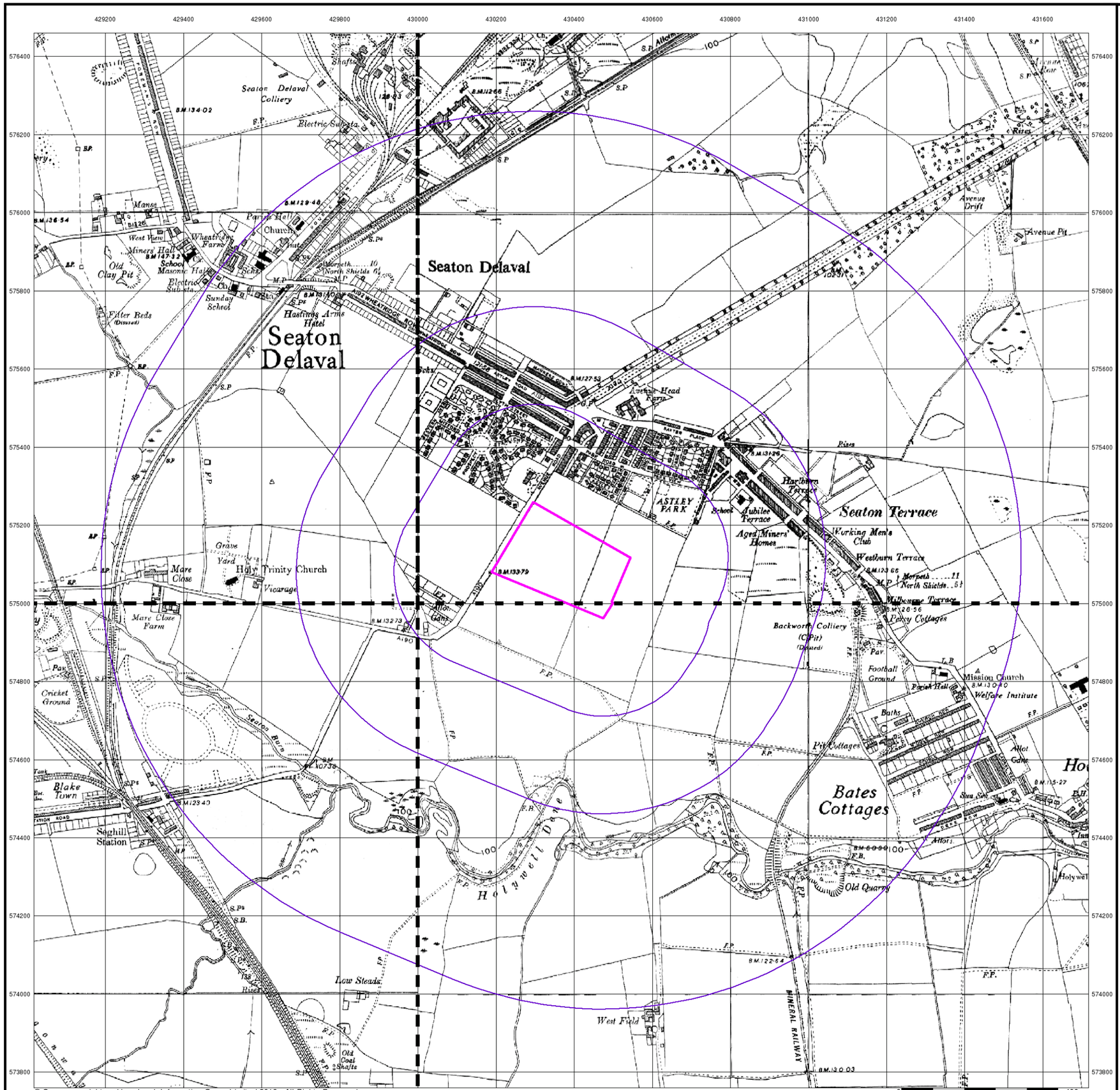


SOLMEK

Ordnance Survey Plan

Published 1950 - 1951

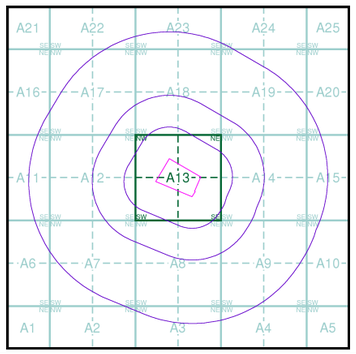
Source map scale - 1:10,000

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)

NZ27NE 1950 1:10,560	NZ37NW 1951 1:10,560
NZ27SE 1951 1:10,560	NZ37SW 1950 1:10,560

Historical Map - Slice A



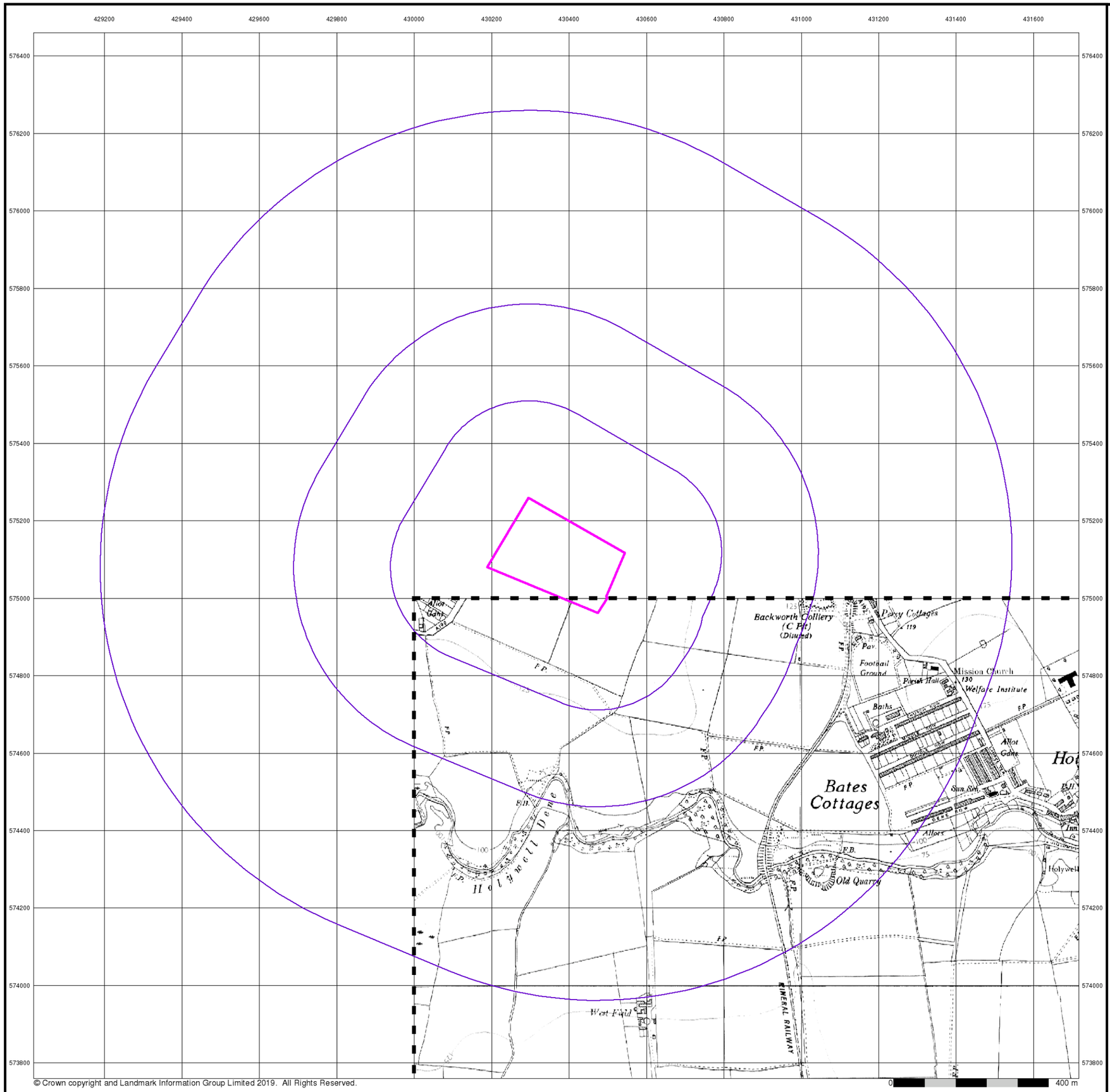
Order Details

Order Number:	223718908_1_1
Customer Ref:	S191056
National Grid Reference:	430370, 575100
Slice:	A
Site Area (Ha):	5.66
Search Buffer (m):	1000

Site Details

Astley High School, Elsdon Avenue, Seaton Delaval, NE25 0BP

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



SOLMEK

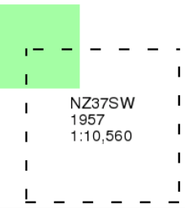
Ordnance Survey Plan

Published 1957

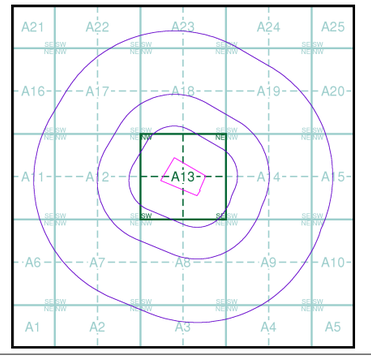
Source map scale - 1:10,000

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:	223718908_1_1
Customer Ref:	S191056
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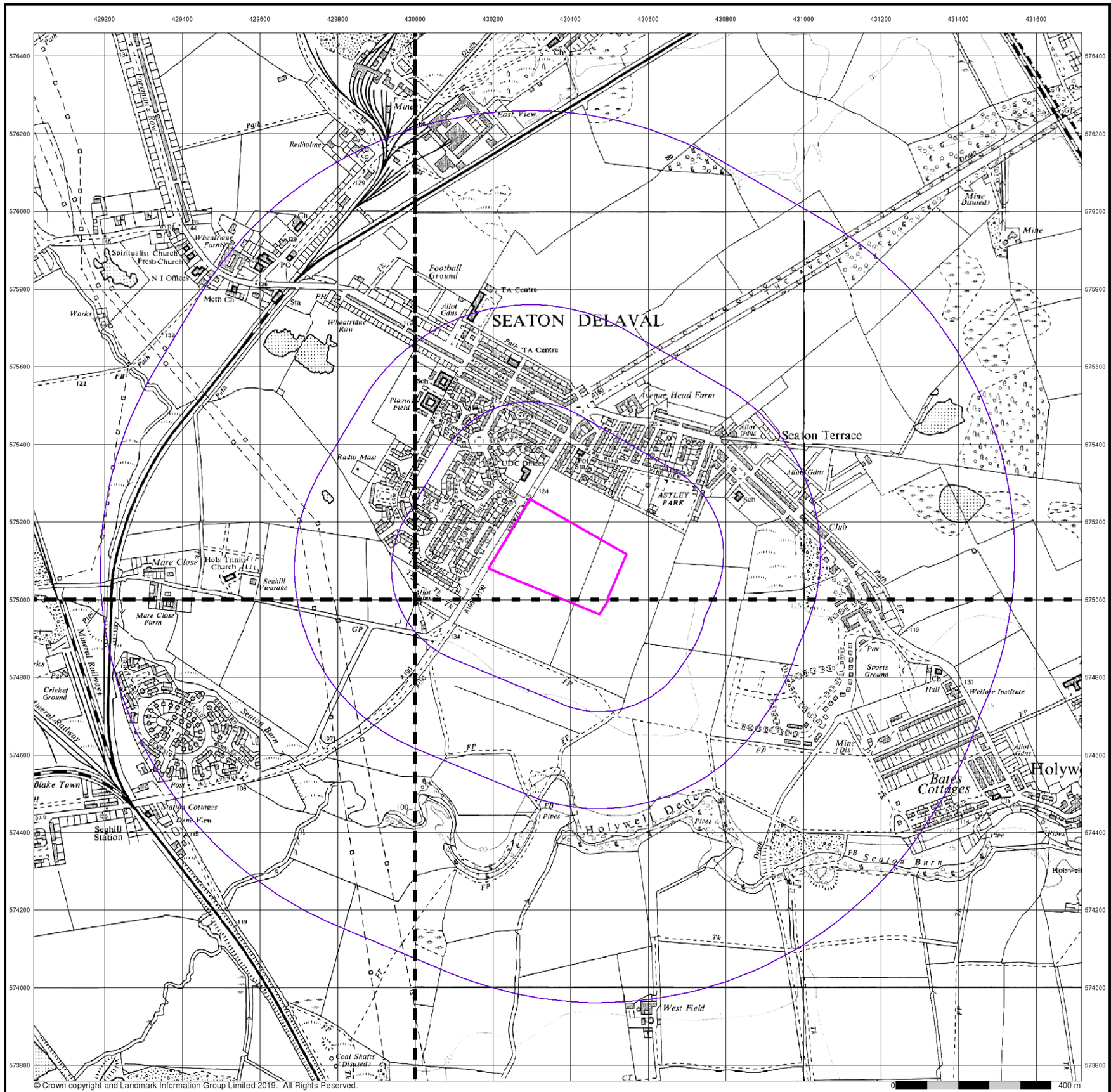
Slice:	A
Site Area (Ha):	5.66
Search Buffer (m):	1000

Site Details

Astley High School, Elsdon Avenue, Seaton Delaval, NE25 0BP

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



SOLMEK

Ordnance Survey Plan

Published 1966 - 1967

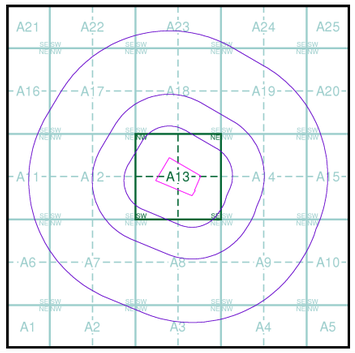
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

NZ27NE 1967 1:10,560	NZ37NW 1967 1:10,560
NZ27SE 1966 1:10,560	NZ37SW 1966 1:10,560

Historical Map - Slice A



Order Details

Order Number:	223718908_1_1
Customer Ref:	S191056
National Grid Reference:	430370, 575100
Slice:	A
Site Area (Ha):	5.66
Search Buffer (m):	1000

Site Details

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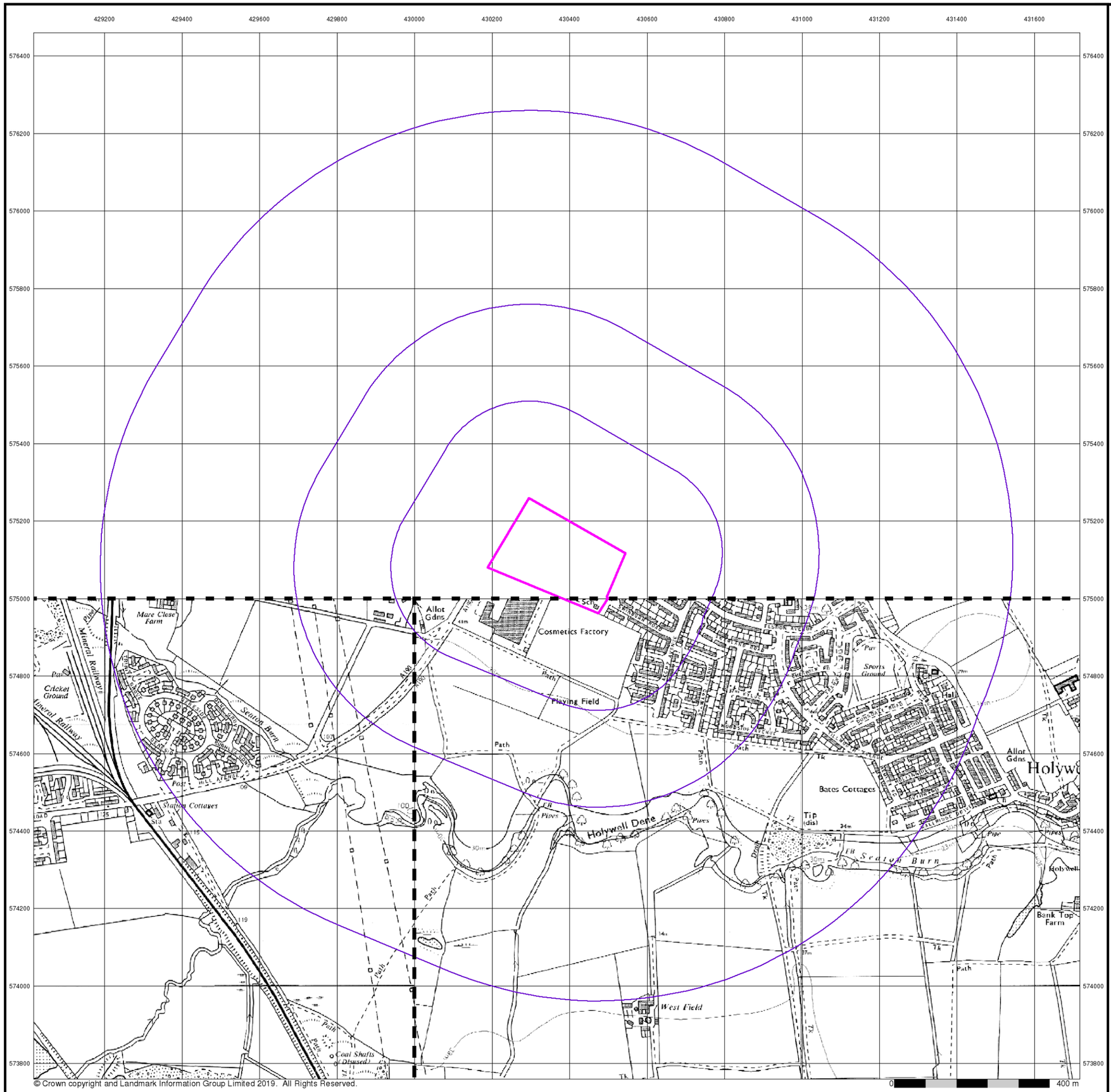


SOLMEK

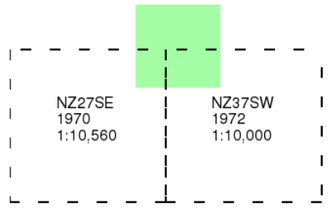
Ordnance Survey Plan

Published 1970 - 1972

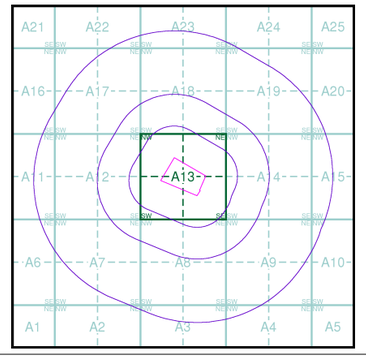
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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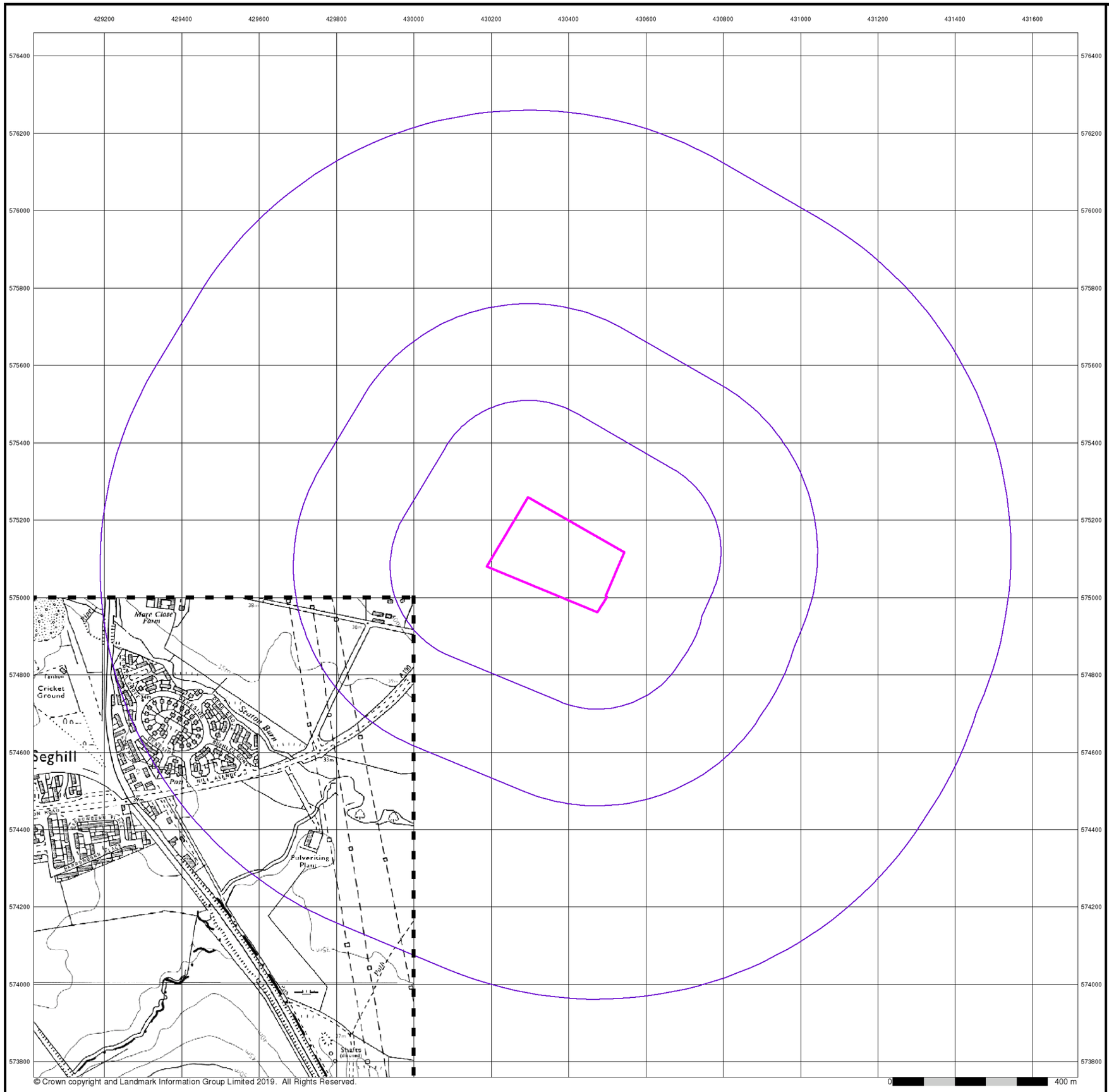


SOLMEK

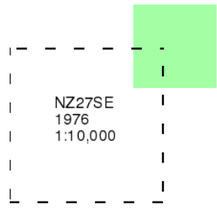
Ordnance Survey Plan

Published 1976

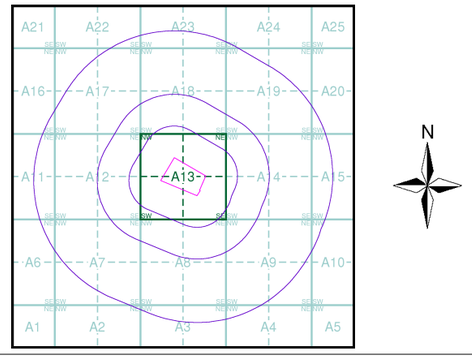
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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National Grid Reference:	430370, 575100
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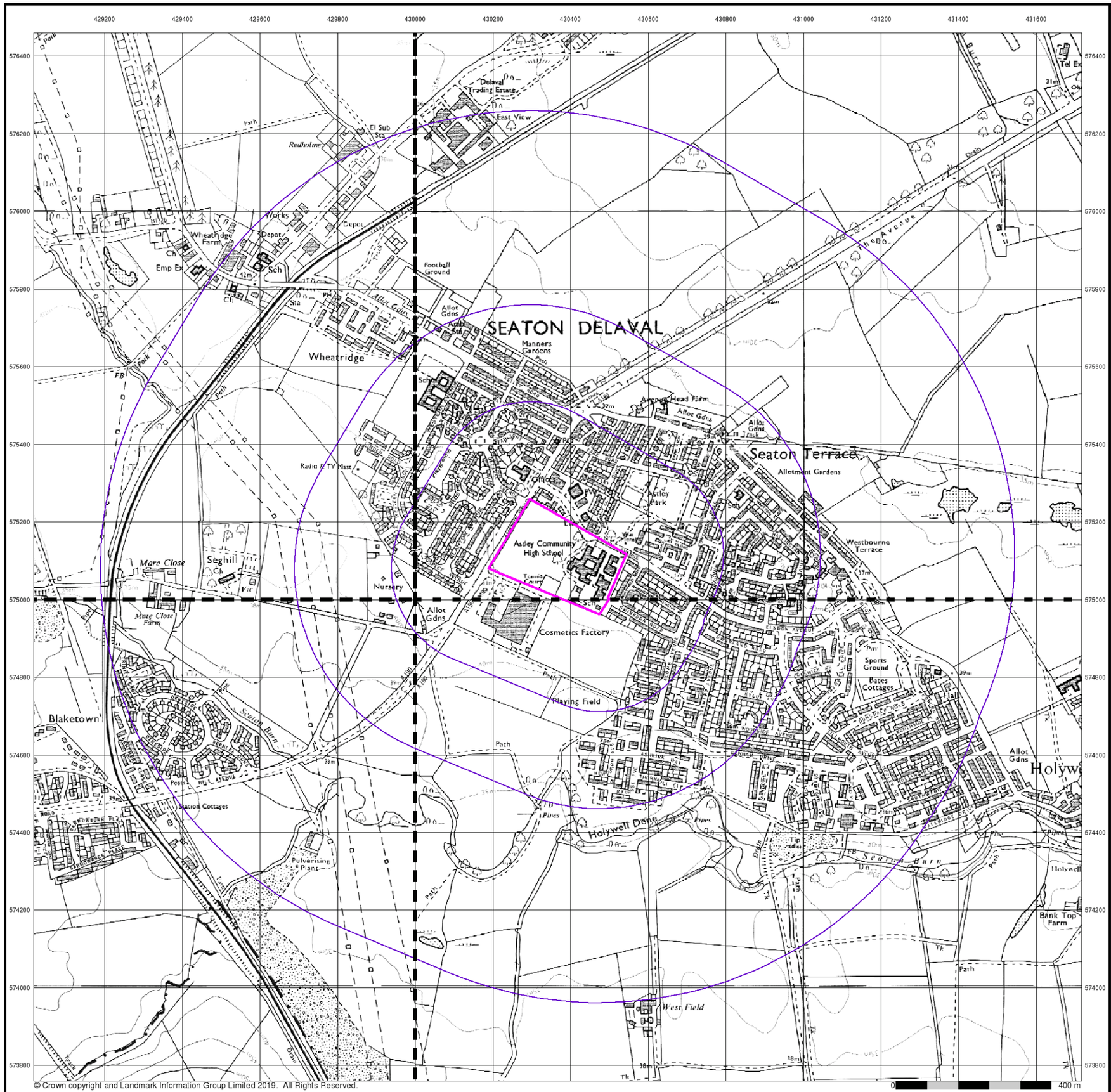


SOLMEK

Ordnance Survey Plan

Published 1982 - 1985

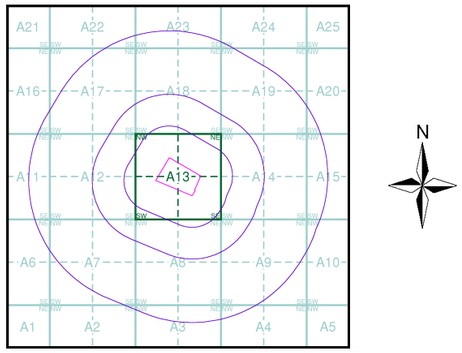
Source map scale - 1:10,000

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)

NZ27NE 1982 1:10,000	NZ37NW 1983 1:10,000
NZ27SE 1985 1:10,000	NZ37SW 1982 1:10,000

Historical Map - Slice A



Order Details

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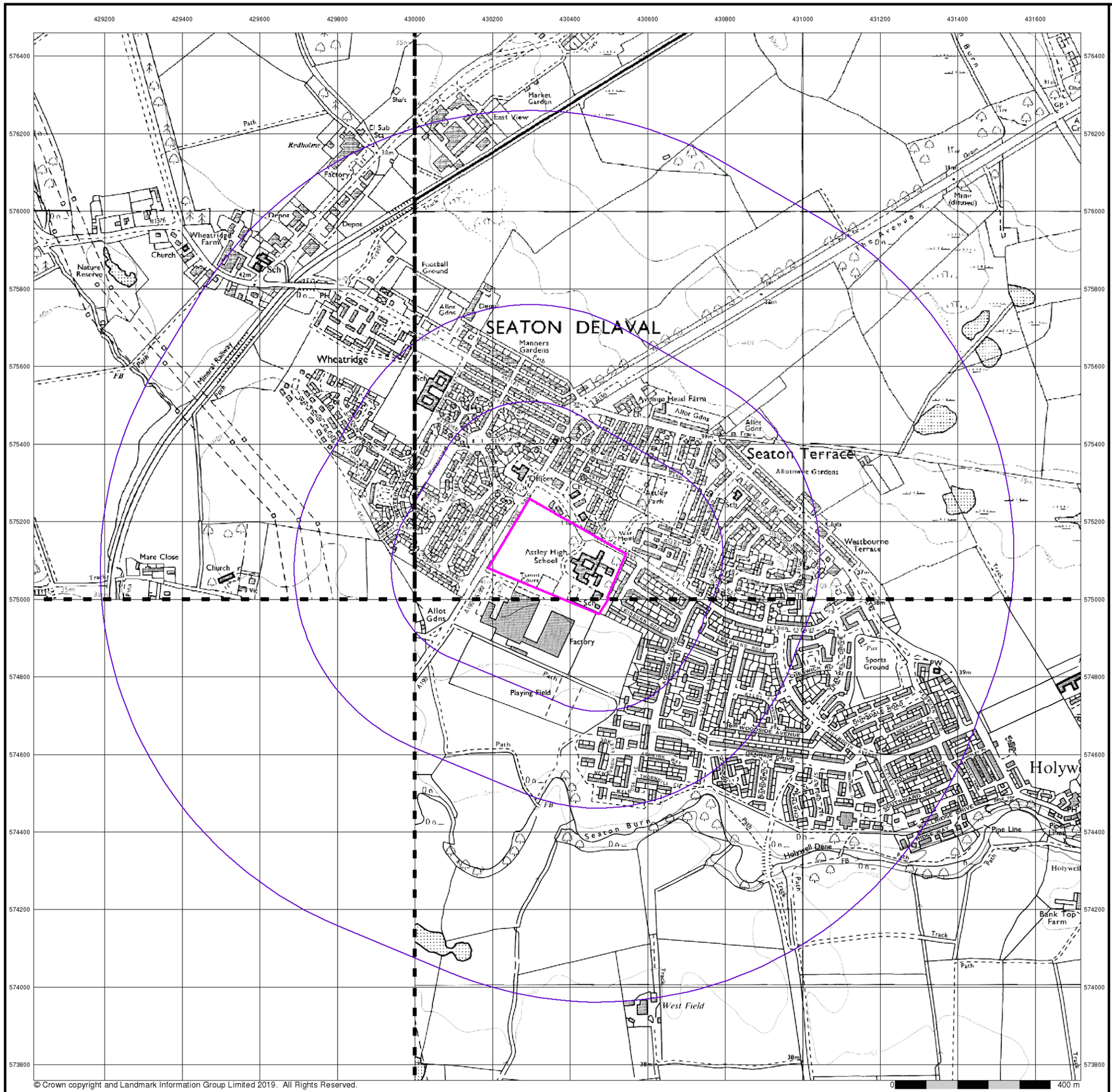


SOLMEK

Ordnance Survey Plan

Published 1991 - 1992

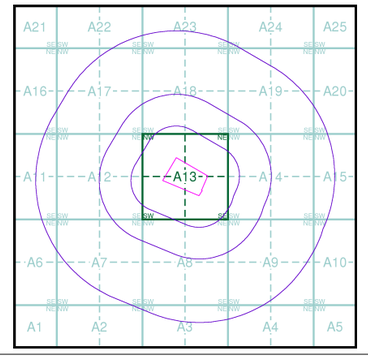
Source map scale - 1:10,000

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)

NZ27NE 1991 1:10,000
NZ37NW 1992 1:10,000
NZ37SW 1992 1:10,000

Historical Map - Slice A



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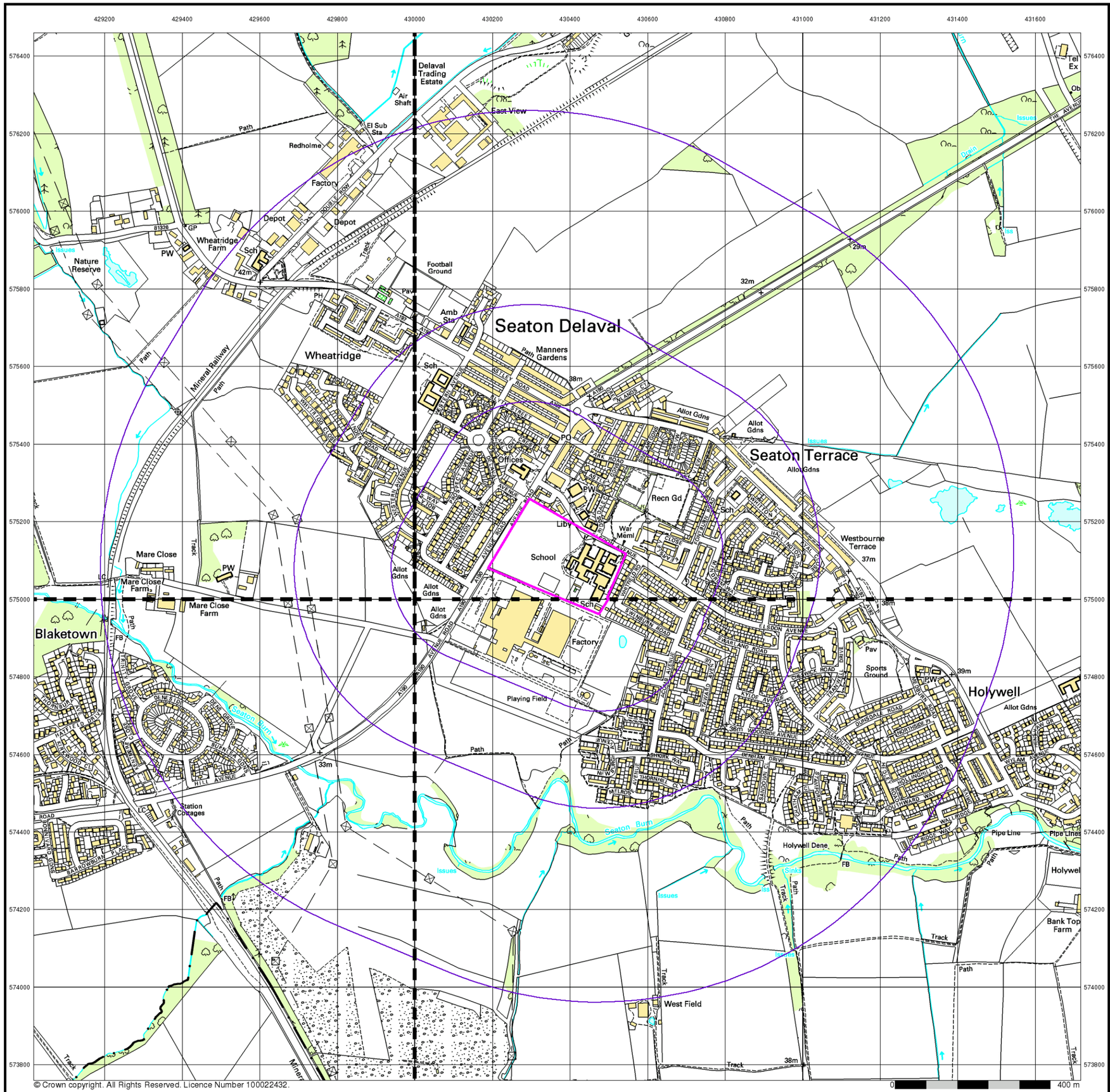


SOLMEK

10k Raster Mapping

Published 2000

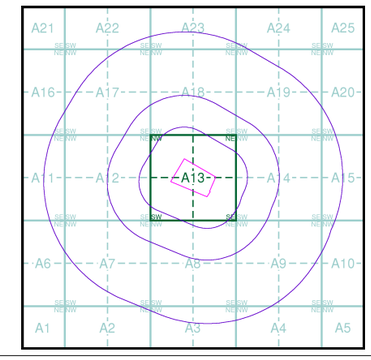
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

NZ27NE 2000 1:10,000	NZ37NW 2000 1:10,000
NZ27SE 2000 1:10,000	NZ37SW 2000 1:10,000

Historical Map - Slice A



Order Details

Order Number:	223718908_1_1
Customer Ref:	S191056
National Grid Reference:	430370, 575100
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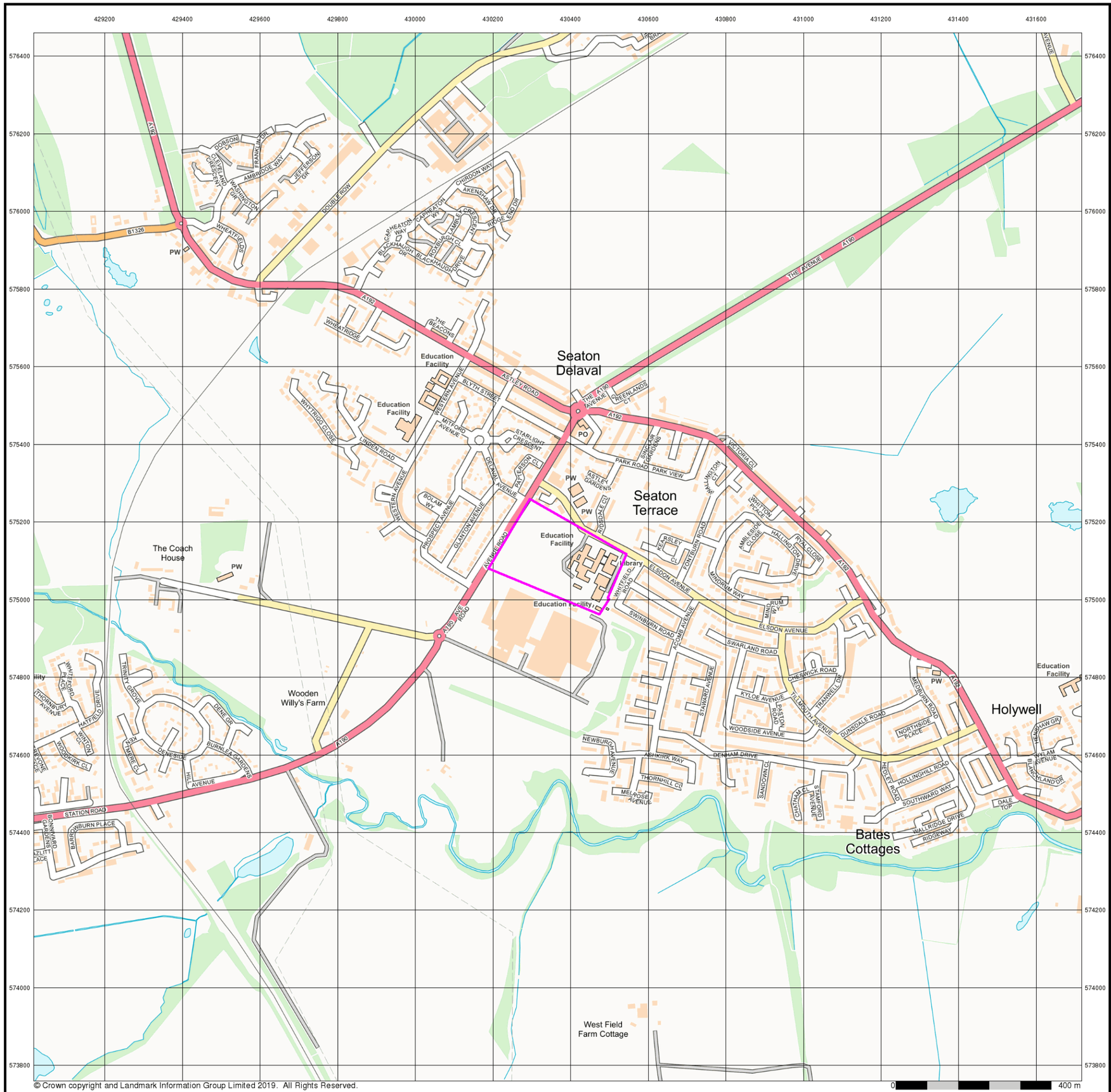


SOLMEK

Street View

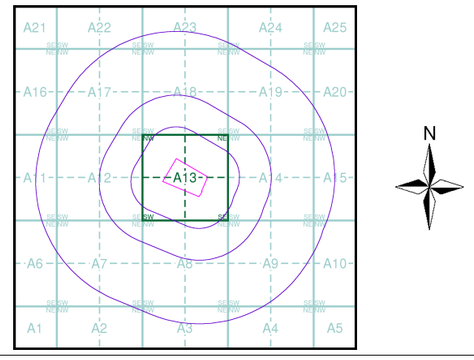
Published 2019

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

Street View Map - Slice A



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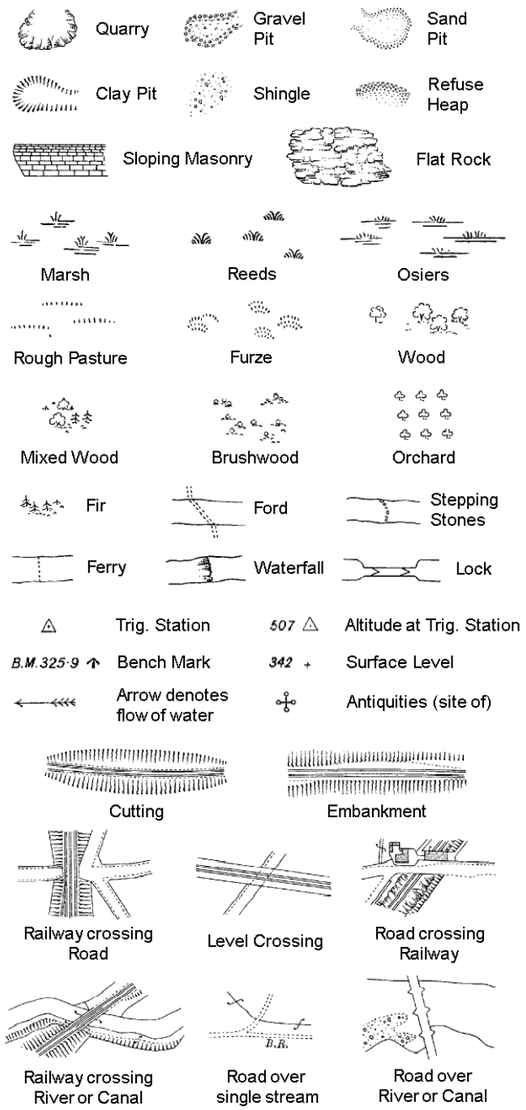
Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

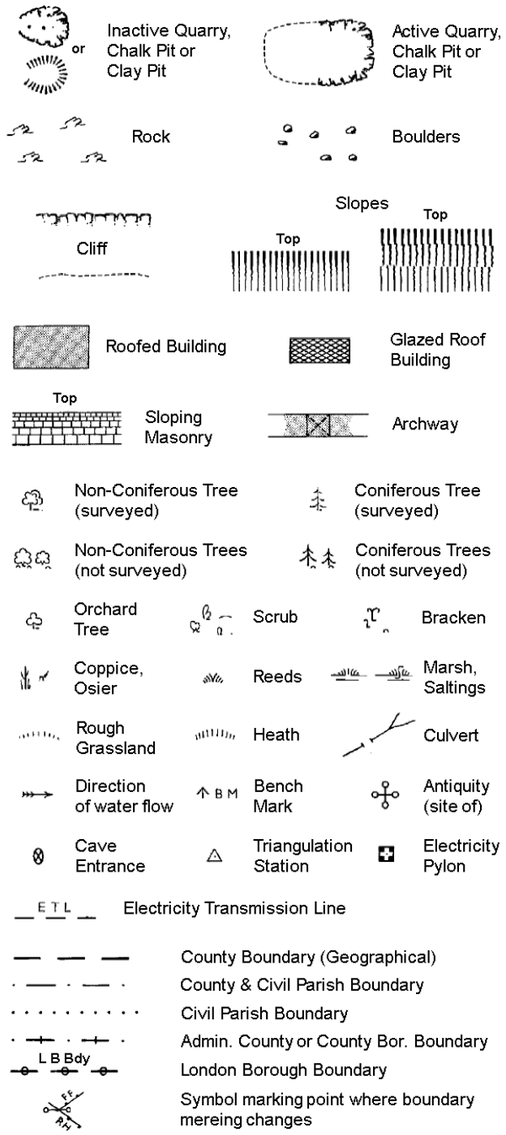
Administrative County & Civil Parish Boundary

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

Co. Burgh Bdy. County Burgh Boundary (Scotland)

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

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

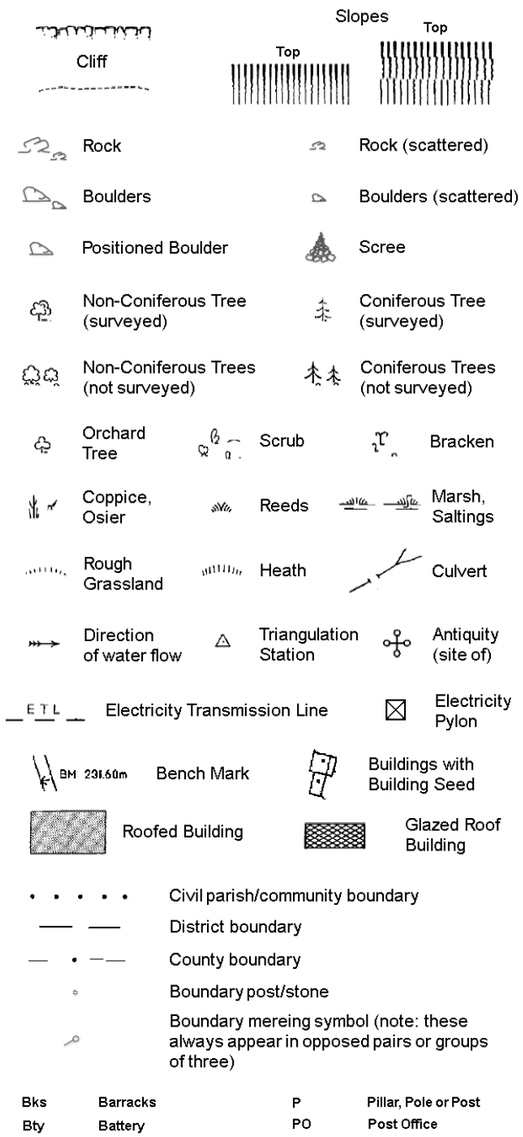
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

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

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

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

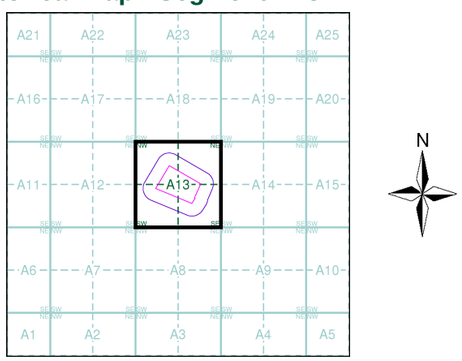
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity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

SOLMEK

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Northumberland	1:2,500	1858 - 1876	2
Northumberland	1:2,500	1896	3
Northumberland	1:2,500	1919	4
Northumberland	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1961	6
Ordnance Survey Plan	1:2,500	1966	7
Ordnance Survey Plan	1:2,500	1970	8
Additional SIMs	1:2,500	1977 - 1985	9
Ordnance Survey Plan	1:2,500	1982	10
Additional SIMs	1:2,500	1989 - 1990	11
Large-Scale National Grid Data	1:2,500	1993	12
Large-Scale National Grid Data	1:2,500	1996	13

Historical Map - Segment A13



Order Details

Order Number:	223718908_1_1
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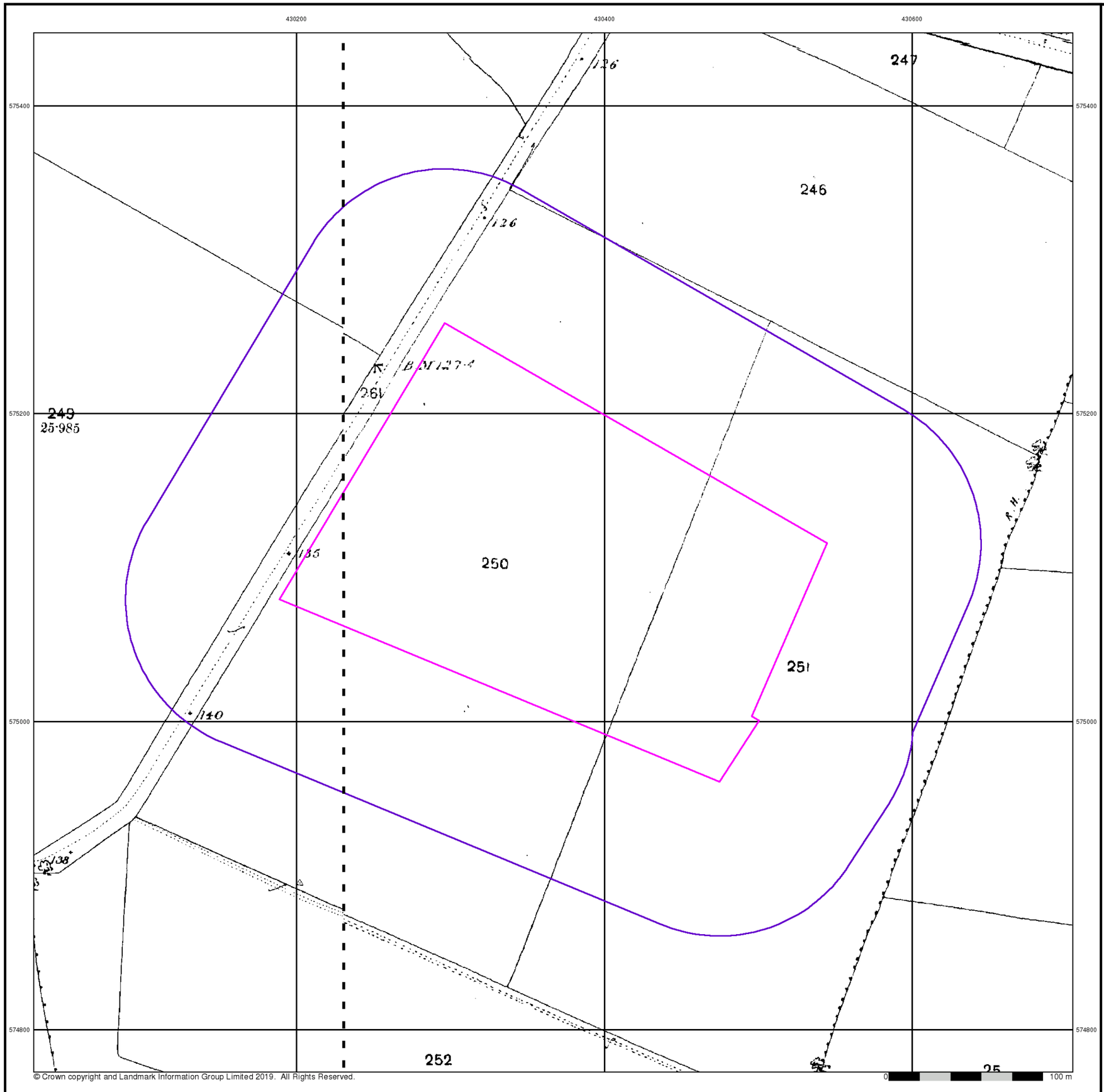


SOLMEK

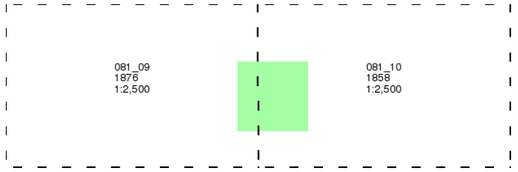
Northumberland

Published 1858 - 1876

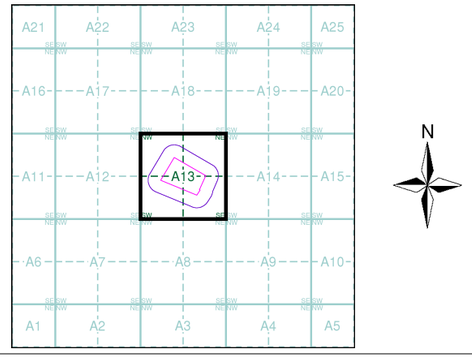
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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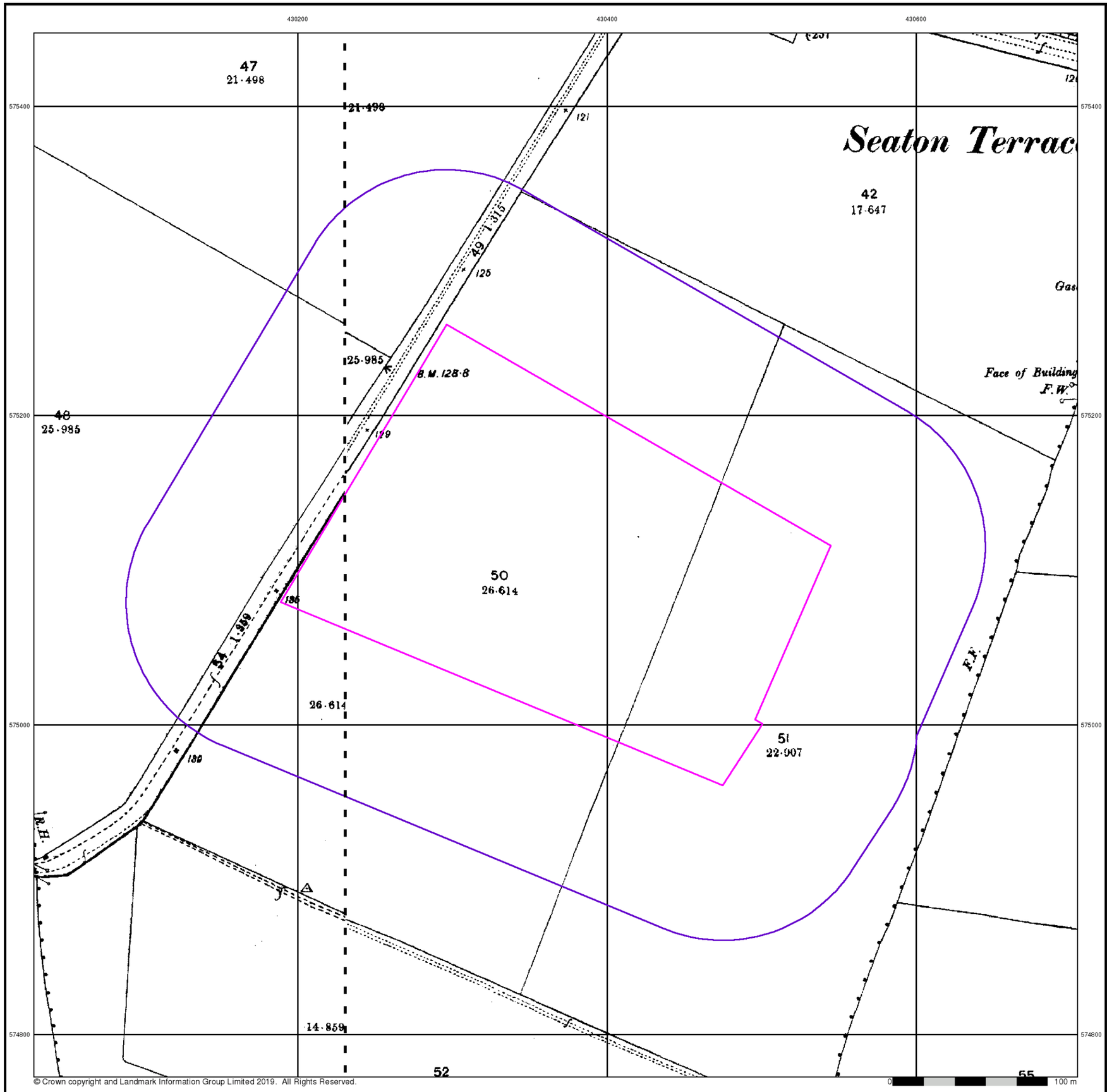


SOLMEK

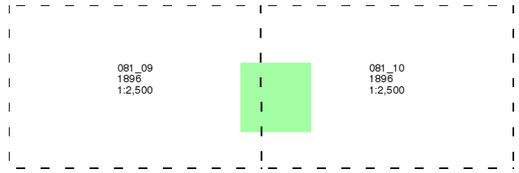
Northumberland

Published 1896

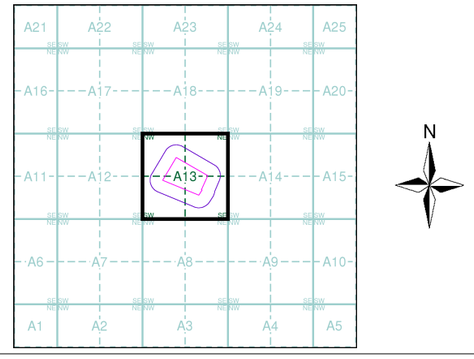
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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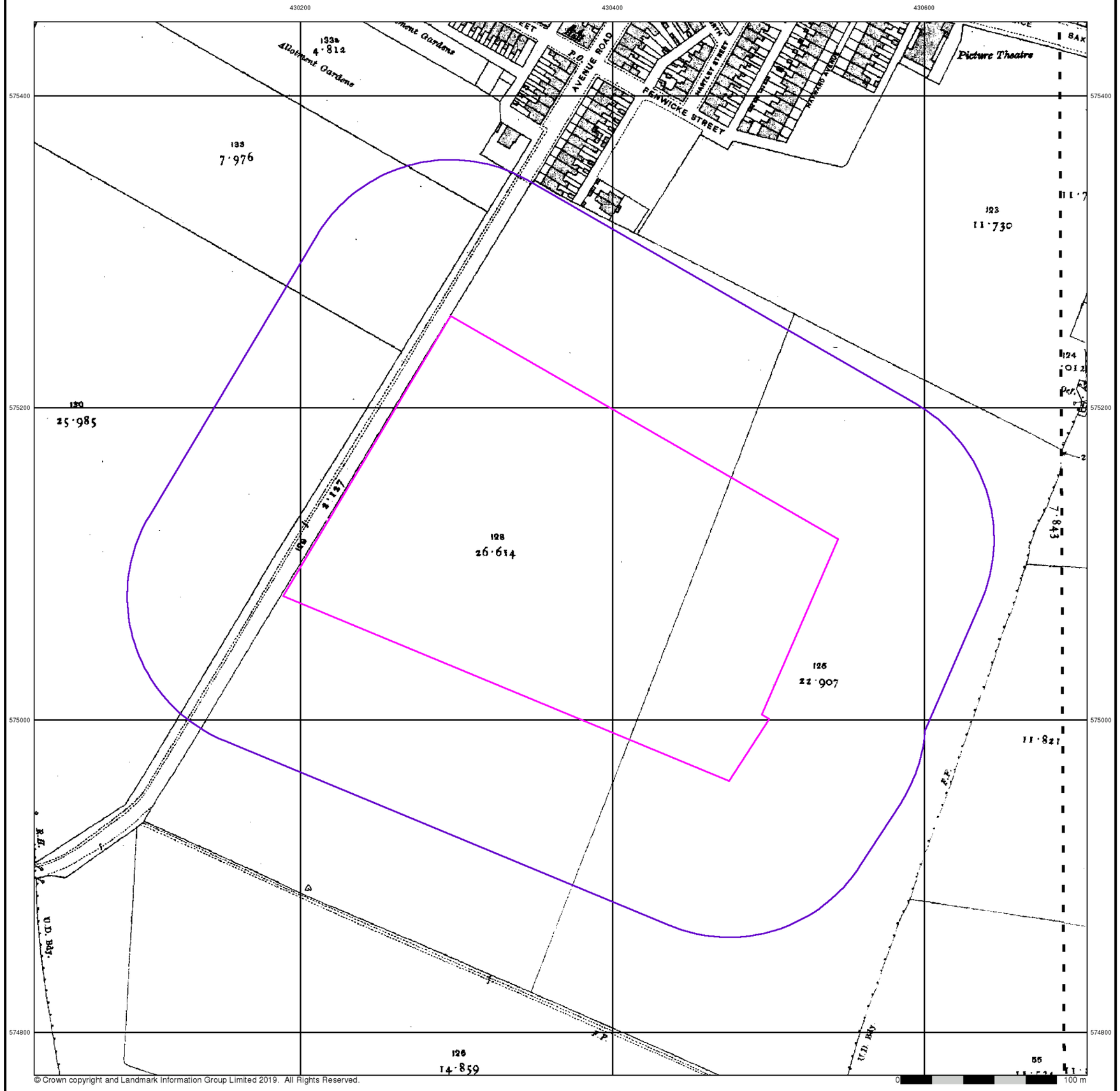

SOLMEK

Northumberland

Published 1919

Source map scale - 1:2,500

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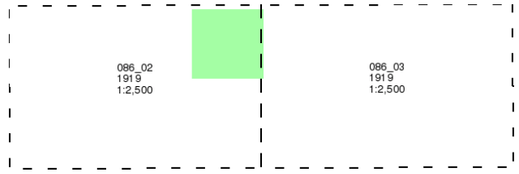
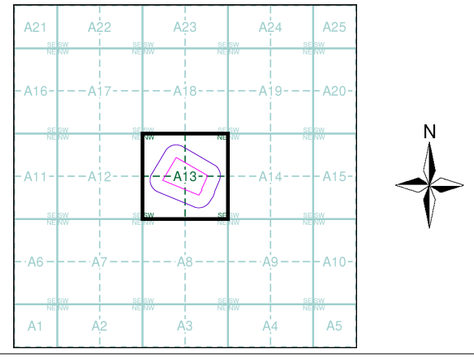


Historical Map - Segment A13



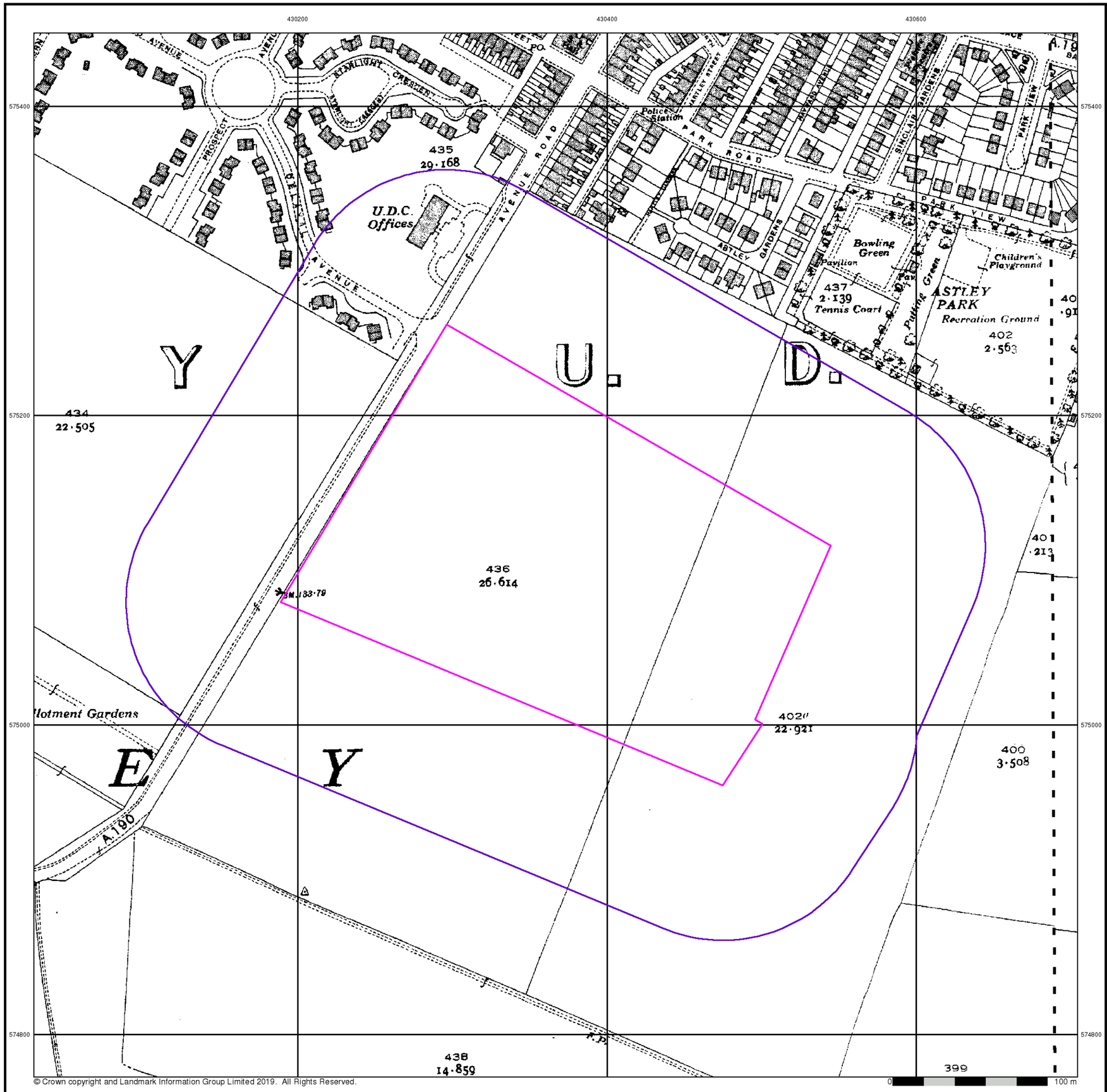
Order Details

Order Number:	223718908_1_1
Customer Ref:	S191056
National Grid Reference:	430370, 575100
Slice:	A
Site Area (Ha):	5.66
Search Buffer (m):	100

Site Details

Astley High School, Elsdon Avenue, Seaton Delaval, NE25 0BP

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



SOLMEK

Northumberland

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.

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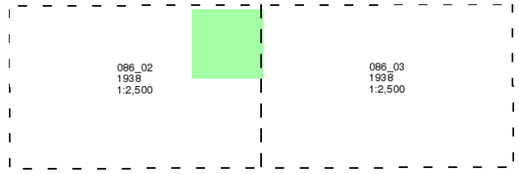
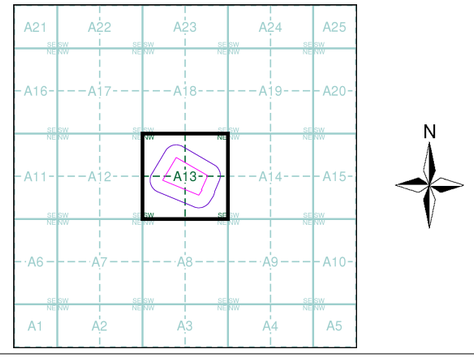


Historical Map - Segment A13



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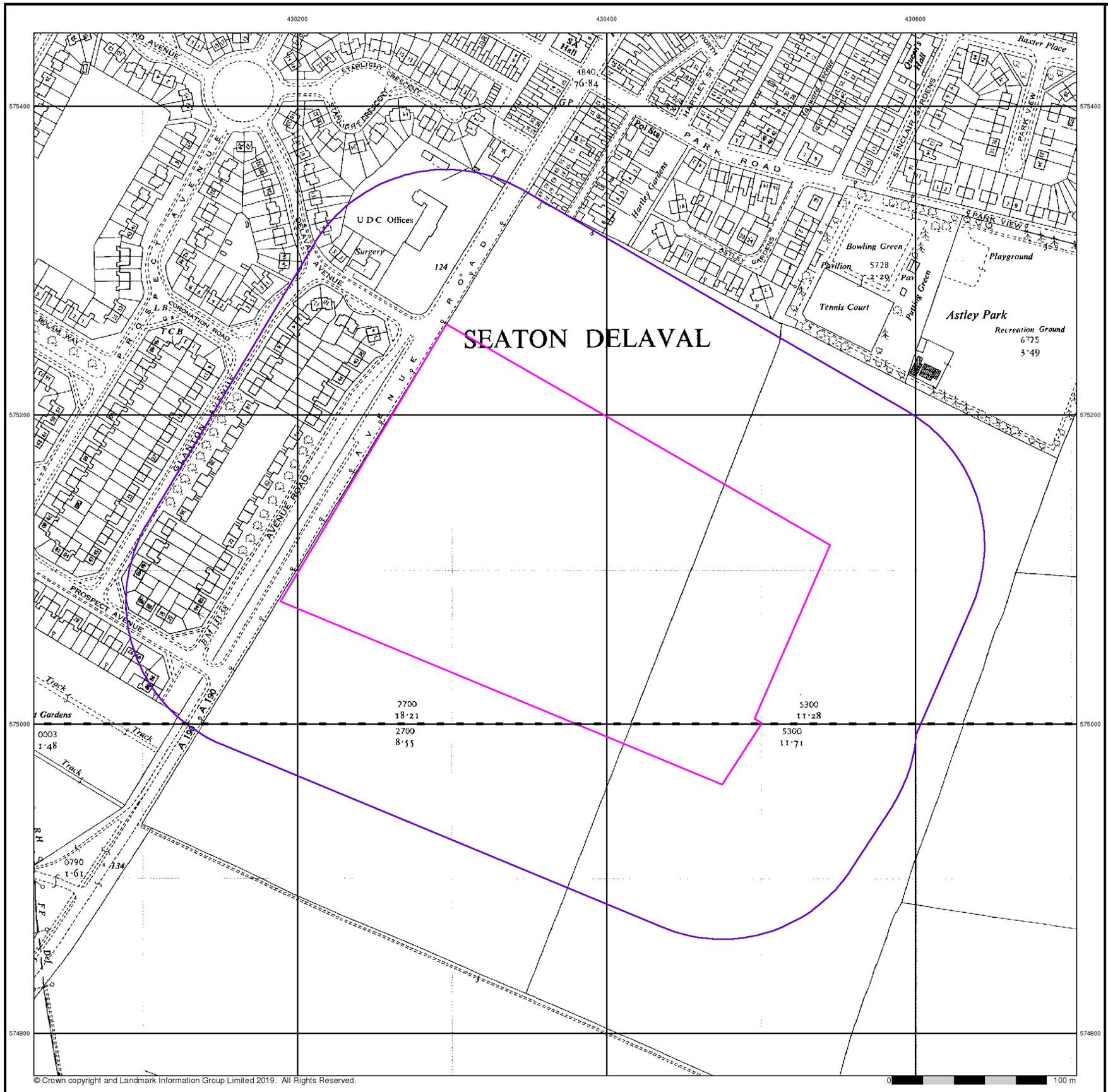

SOLMEK

Ordnance Survey Plan

Published 1961

Source map scale - 1:2,500

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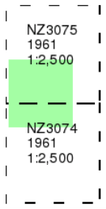
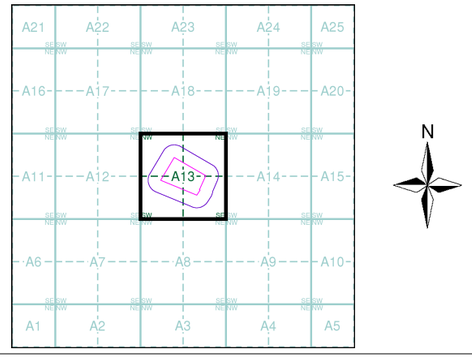


Historical Map - Segment A13



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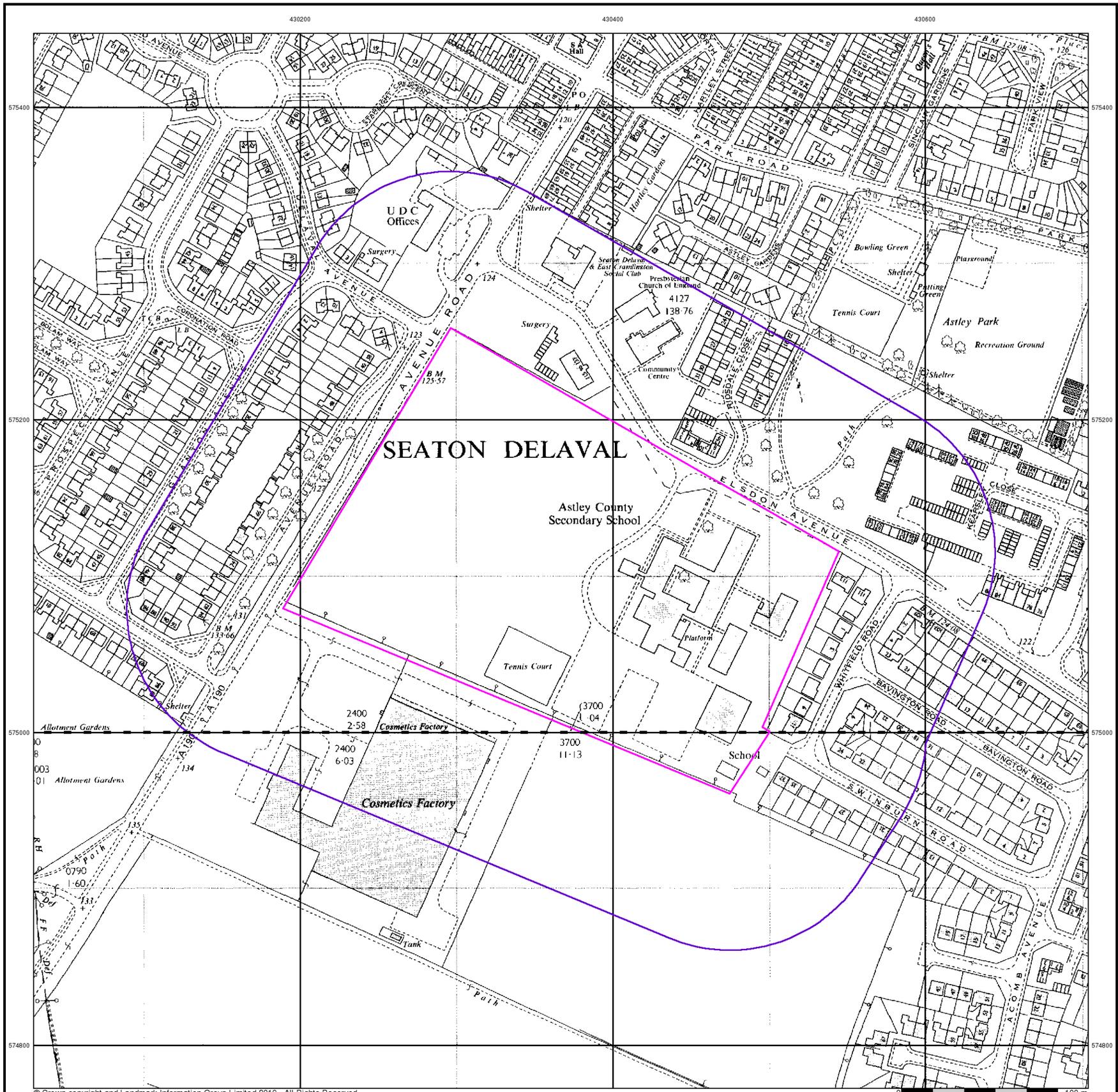

SOLMEK

Ordnance Survey Plan

Published 1966

Source map scale - 1:2,500

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

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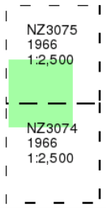
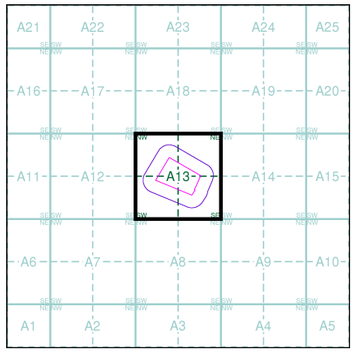


Historical Map - Segment A13



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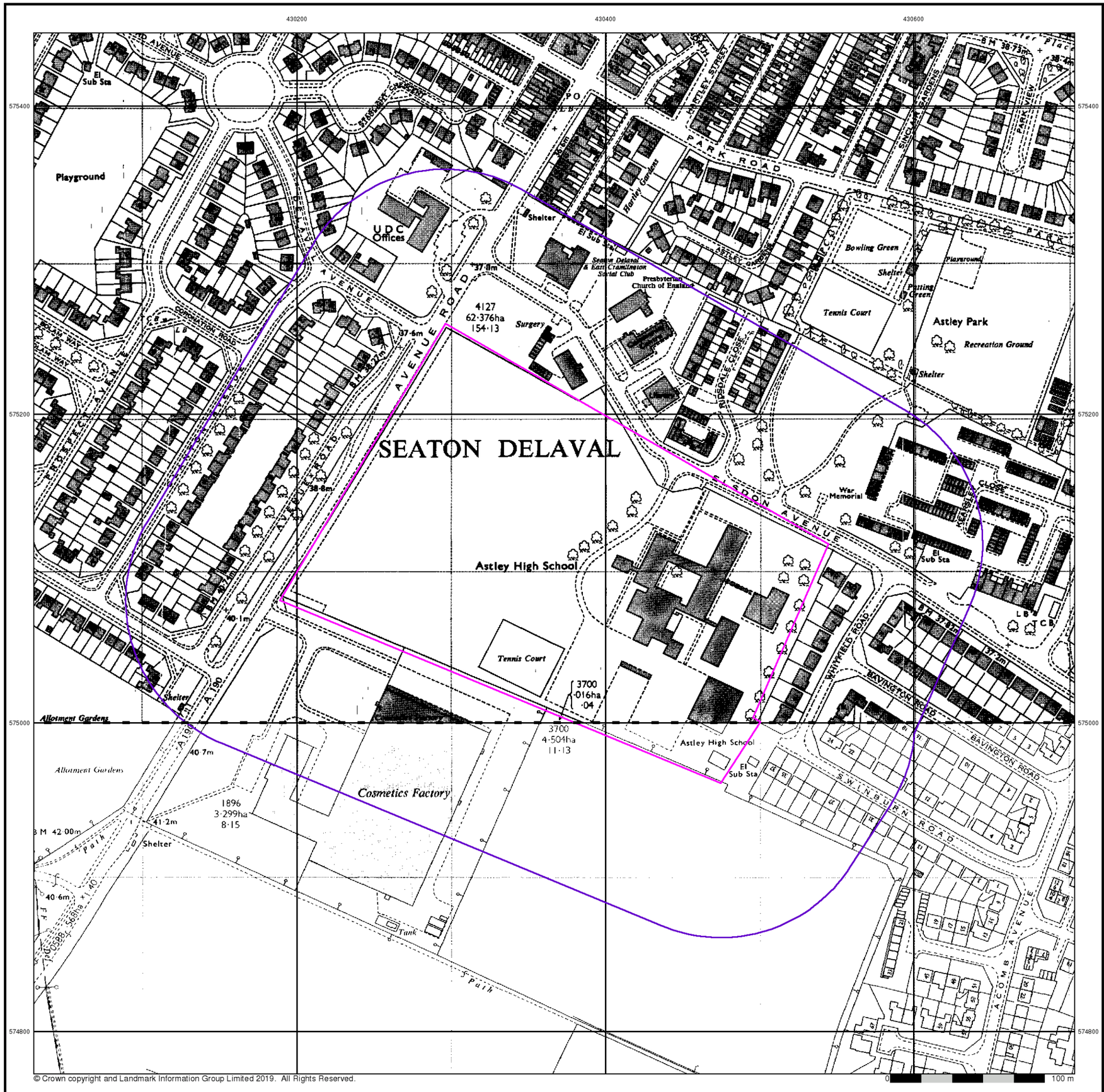

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Ordnance Survey Plan

Published 1970

Source map scale - 1:2,500

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

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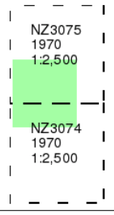
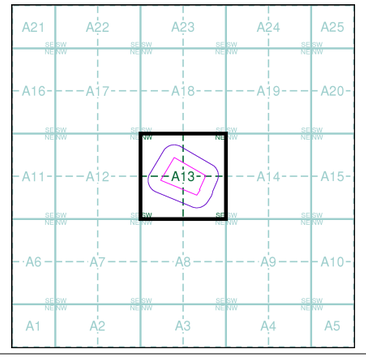


Historical Map - Segment A13



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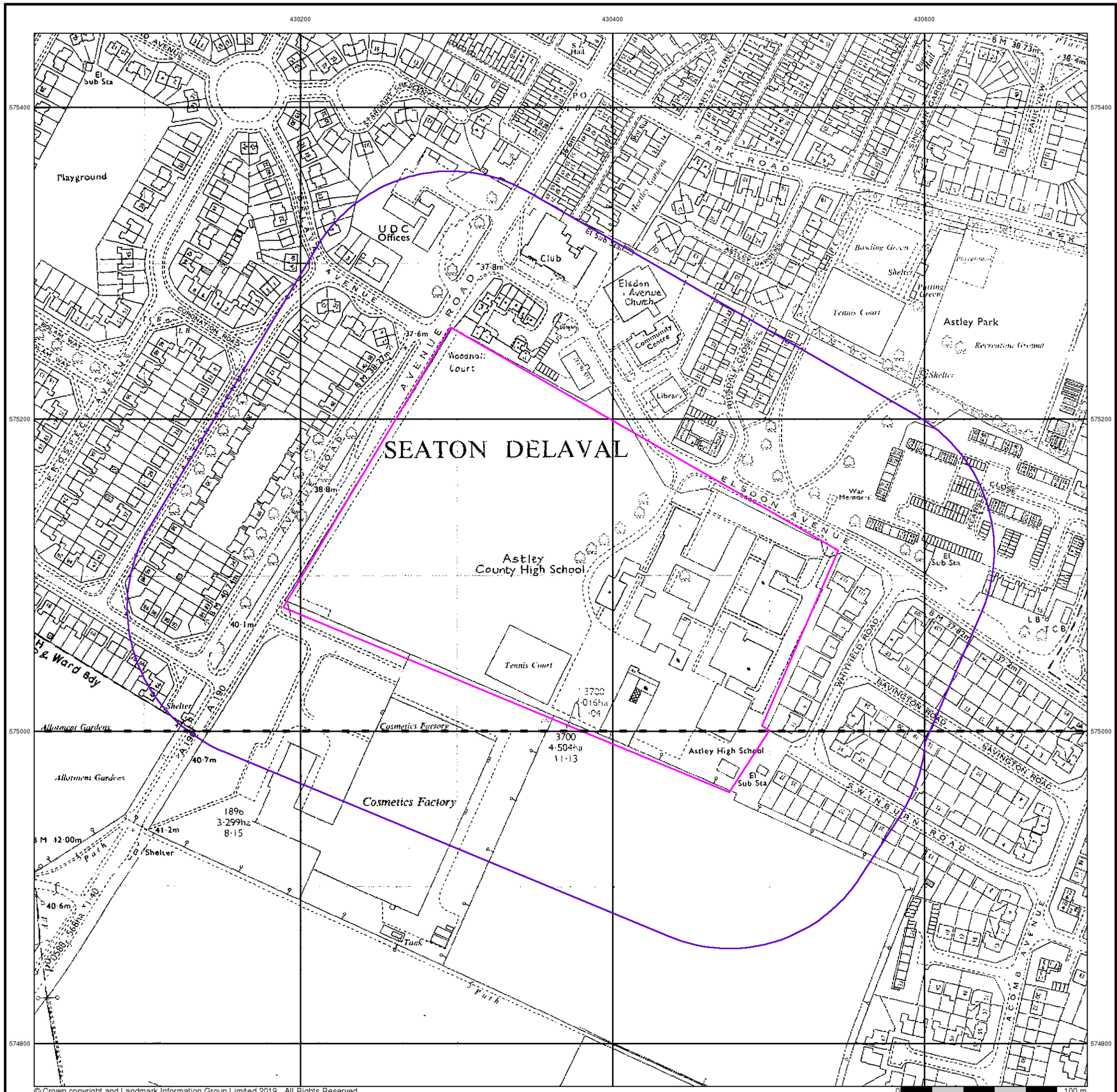

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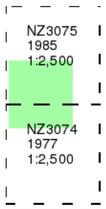
Additional SIMs

Published 1977 - 1985

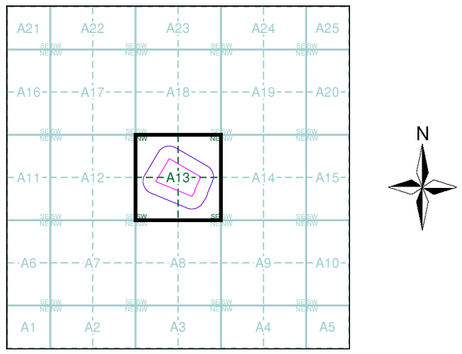
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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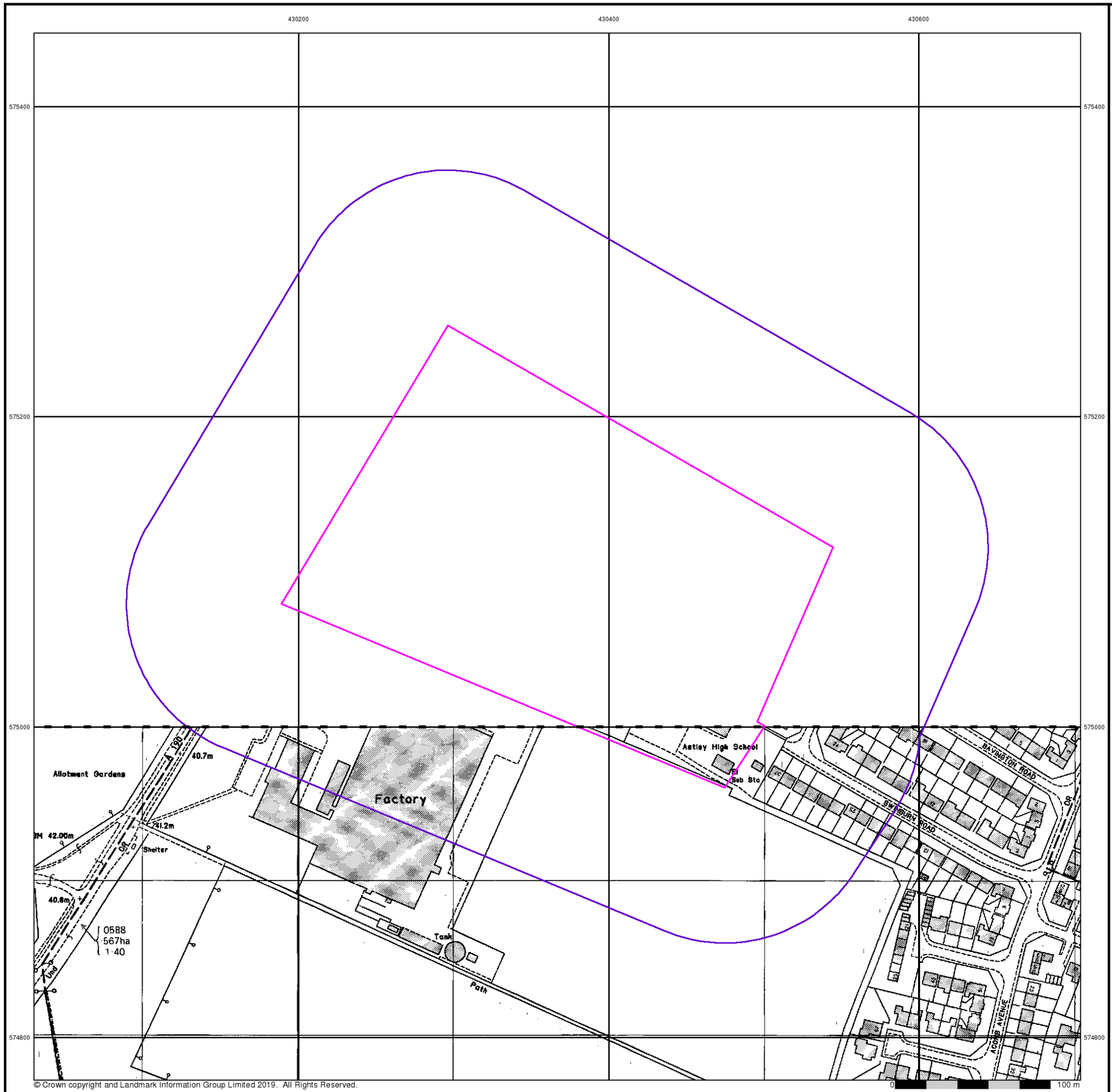

SOLMEK

Ordnance Survey Plan

Published 1982

Source map scale - 1:2,500

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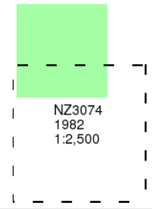
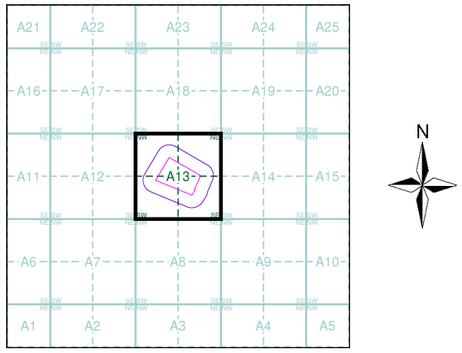


Historical Map - Segment A13



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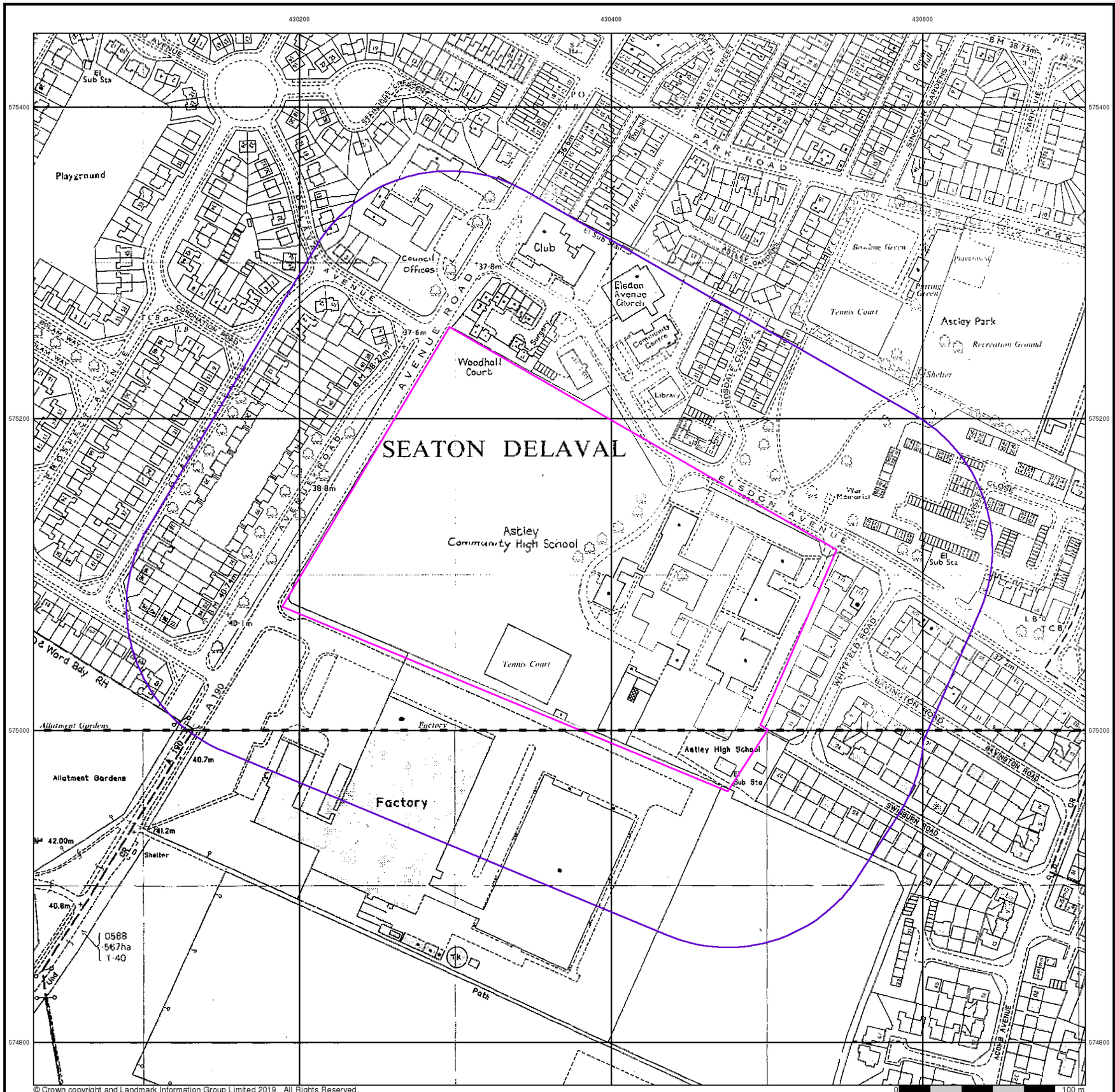

SOLMEK

Additional SIMs

Published 1989 - 1990

Source map scale - 1:2,500

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

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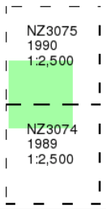
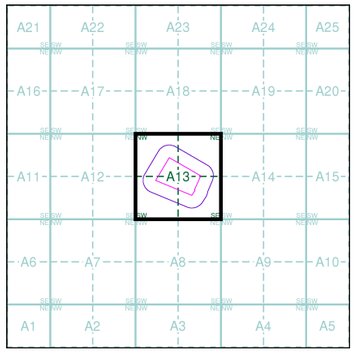


Historical Map - Segment A13



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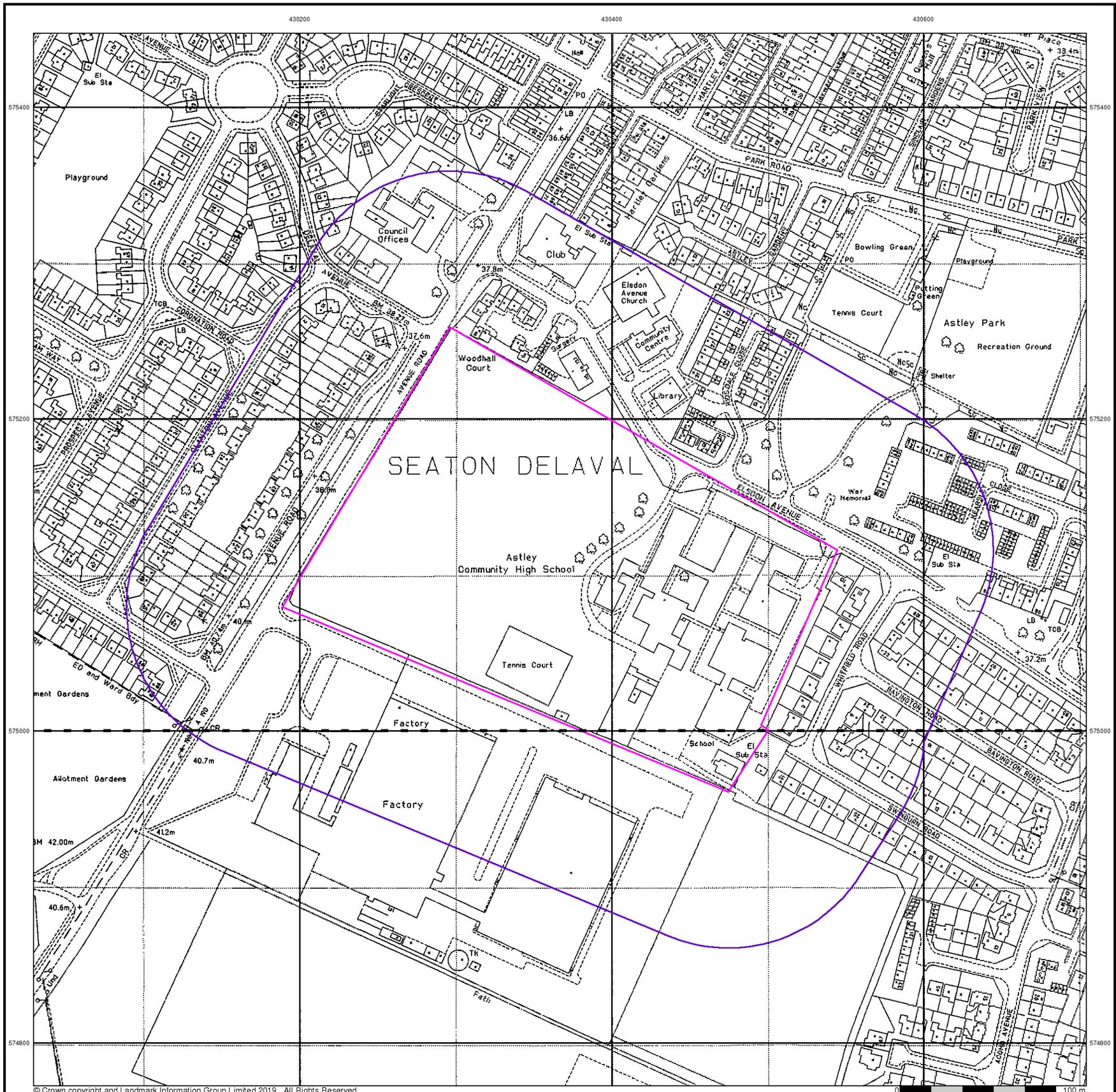

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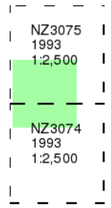
Large-Scale National Grid Data

Published 1993

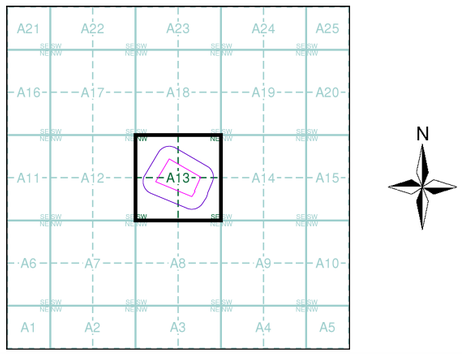
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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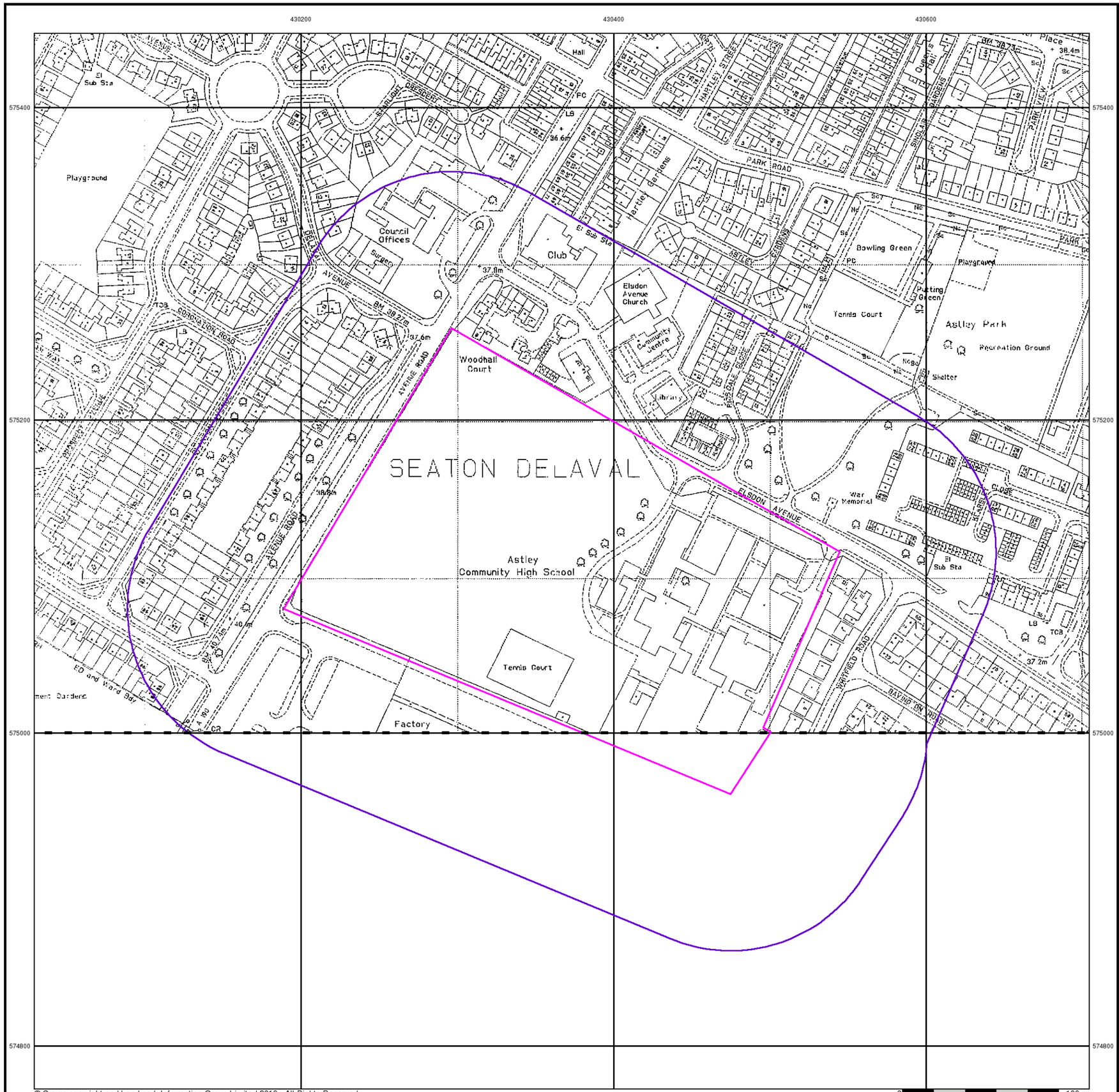

SOLMEK

Large-Scale National Grid Data

Published 1996

Source map scale - 1:2,500

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

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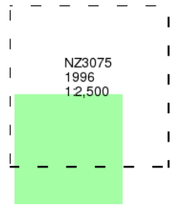
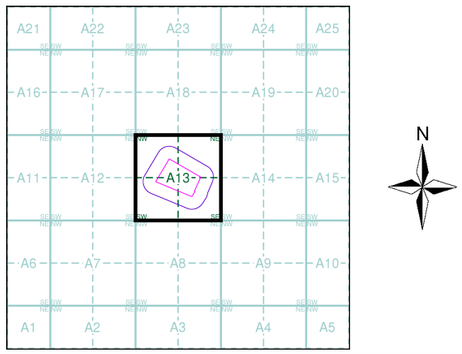


Historical Map - Segment A13



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Appendix C
Envirocheck Report

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
223718908_1_1

Customer Reference:
S191056

National Grid Reference:
430370, 575100

Slice:
A

Site Area (Ha):
5.66

Search Buffer (m):
1000

Site Details:

Astley High School
Elsdon Avenue
Seaton Delaval
NE25 0BP

Client Details:

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

SOLMEK

Contents

Introduction

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

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Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Natural Resources Wales Copyright Notice

Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				15
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 6				6
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 7			1	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 8		Yes		
Pollution Incidents to Controlled Waters	pg 8				17
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 11				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 11				2
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 11	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 11	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				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 12			1	24

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 16				1
Historical Landfill Sites	pg 16				3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 16				1
Licensed Waste Management Facilities (Locations)	pg 17				3
Local Authority Landfill Coverage	pg 17	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 18				1
Registered Waste Treatment or Disposal Sites	pg 18				2
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 20		1		
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents	pg 20		3		
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 21	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 21			1	4
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 21	Yes	n/a	n/a	n/a
Mining Instability	pg 21	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 22	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 22	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 22	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 23	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

SOLMEK

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 24		7	12	41
Fuel Station Entries	pg 29			2	1
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 30				3
Areas of Adopted Green Belt	pg 30		1		
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	0	1	430350 575104
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	0	1	430500 575050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	0	1	430369 575000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (NE)	0	1	430369 575104
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	0	1	430200 575104
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	51	1	430250 575000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	90	1	430100 575104
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	120	1	430100 575000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	161	1	430450 574800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	190	1	430000 575104
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	206	1	430000 575000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	206	1	430500 575400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (E)	235	1	430750 575000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	240	1	429950 575104
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	261	1	430000 574900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	276	1	430000 575300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	302	1	430000 575350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	332	1	430000 574800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	349	1	429850 575000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A17SE (NW)	353	1	430000 575450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	390	1	429800 575104
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	401	1	430300 574600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A19SW (NE)	462	1	430800 575500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A19SW (NE)	488	1	430900 575450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	490	1	429700 575050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A19SW (NE)	491	1	430850 575500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	496	1	430950 575400
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Westbourne Estate Sso, Seaton Delaval, Northumberland Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 226/1274 Permit Version: 1 Effective Date: 3rd February 1964 Issued Date: 3rd February 1964 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	552	2	430731 574473
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Westbourne Estate Sso, Seaton Delaval, Northumberland Authority: Environment Agency, North East Region Catchment Area: Blyth/Pont Reference: 226/F/0418 Permit Version: 1 Effective Date: 3rd February 1964 Issued Date: 3rd February 1964 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	552	2	430731 574473
2	**Discharge Consents** Operator: Northumbrian Water Ltd Property Type: Not Given Location: Westbourne Estate Sso, SEATON DELAVAL Authority: Environment Agency, North East Region Catchment Area: Blyth/Pont Reference: 226/G/0212/1353 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 3rd February 1964 Revocation Date: Not Supplied Discharge Type: Storm Sewage Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A8SE (SE)	605	2	430700 574400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Westbourne Estate Sso, Seaton Delaval, Northumberland Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 226/G/0209 Permit Version: 1 Effective Date: 7th November 1960 Issued Date: 7th November 1960 Revocation Date: 6th February 1961 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	605	2	430700 574400
3	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Dene Grove Cso, Seghill, Northumberland Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 226/1263 Permit Version: 1 Effective Date: 11th January 2005 Issued Date: 11th January 2005 Revocation Date: 3rd July 2009 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	773	2	429490 574750
3	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Dene Grove Cso, Seghill, Northumberland Authority: Environment Agency, North East Region Catchment Area: Blyth/Pont Reference: 226/G/0071 Permit Version: 1 Effective Date: 2nd May 1955 Issued Date: 2nd May 1955 Revocation Date: 11th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	773	2	429490 574750
3	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Seghill (Deneside) No.1 P.S., Seghill Authority: Environment Agency, North East Region Catchment Area: Blyth/Pont Reference: 226/0915 Permit Version: 1 Effective Date: 21st September 1989 Issued Date: 21st September 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: New Consent, by Application, granted by Secretary of State** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	796	2	429460 574760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Sandown Close Cso, Seaton Delaval, Northumberland Authority: Environment Agency, North East Region Catchment Area: Blyth/Pont Reference: 226/G/0212 Permit Version: 1 Effective Date: 6th February 1961 Issued Date: 6th February 1961 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	801	2	430940 574310
5	**Discharge Consents** Operator: Northumberland Waste Management Property Type: WASTE COLLECTION/TREATMENT/DISPOSAL/MATERIALS RECOVERY Location: Seghill Waste Disposal Site, Seghill, Northumberland Authority: Environment Agency, North East Region Catchment Area: Not Given Reference: 226/1117 Permit Version: 1 Effective Date: 9th October 1996 Issued Date: 9th October 1996 Revocation Date: 24th November 1998 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn Trib **Status: Consent revoked or revised: New Consent issued (Section 37(1))** Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	809	2	429750 574400
5	**Discharge Consents** Operator: Northumbrian Water Ltd Property Type: Undefined Or Other Location: Seghill Waste Disposal Site, SEGHILL Authority: Environment Agency, North East Region Catchment Area: Not Given Reference: 226/1117 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn Tributary **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	814	2	429750 574395
6	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Northside Place Cso, Holywell Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 226/1264 Permit Version: 1 Effective Date: 11th January 2005 Issued Date: 11th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	896	2	431120 574340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Northside Place Cso, Holywell Authority: Environment Agency, North East Region Catchment Area: Not Given Reference: 226/1101 Permit Version: 1 Effective Date: 6th May 1996 Issued Date: 6th February 1996 Revocation Date: 11th January 2005 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	896	2	431120 574340
6	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Northside Place Cso, Holywell Authority: Environment Agency, North East Region Catchment Area: Blyth/Pont Reference: 226/0896 Permit Version: 1 Effective Date: 21st September 1989 Issued Date: 21st September 1989 Revocation Date: 6th February 1996 Discharge Type: Unspecified Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	896	2	431120 574340
6	**Discharge Consents** Operator: Northumbrian Water Ltd Property Type: Undefined Or Other Location: Northside Place Cso, HOLYWELL Authority: Environment Agency, North East Region Catchment Area: Not Given Reference: 226/1101 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm sewage overflow discharge Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	903	2	431125 574335
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: New Mare Close Farm Cso, Seghill, Cramlington, Northumberland, Ne23 7ea Authority: Environment Agency, North East Region Catchment Area: Coastal Streams catch 226 Reference: Npswqd006839 Permit Version: 1 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Seaton Burn **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A11SE (W)	955	2	429250 574910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Integrated Pollution Prevention And Control** Name: Sita Uk Limited Location: Seghill Lf Epr/Yp3638sx, Seghill Landfill Site, Seghill Village,Seghill, CRAMLINGTON, Northumberland, NE23 7DY Authority: Environment Agency, North East Region Permit Reference: FP3935GQ Original Permit Ref: Yp3638sx Effective Date: 18th September 2009 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Substantial Positional Accuracy: Manually positioned to the address or location Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A7SE (SW)	843	2	429728 574374
8	**Integrated Pollution Prevention And Control** Name: Sita Uk Limited Location: Seghill Lf Epr/Yp3638sx, Seghill Landfill Site, Seghill Village,Seghill, CRAMLINGTON, Northumberland, NE23 7DY Authority: Environment Agency, North East Region Permit Reference: Yp3638sx Original Permit Ref: Yp3638sx Effective Date: 8th September 2006 **Status:** **Superseded By Variation** Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned to the address or location Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A7SE (SW)	843	2	429728 574374
9	**Integrated Pollution Prevention And Control** Name: Suez Recycling And Recovery Uk Ltd Location: Seghill Lf Epr/Yp3638sx, Seghill Landfill Site, Seghill Village,Seghill, CRAMLINGTON, Northumberland, NE23 7DY Authority: Environment Agency, North East Region Permit Reference: QP3632DR Original Permit Ref: Yp3638sx Effective Date: 4th May 2017 **Status:** **Effective** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 100m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N	A7SE (SW)	962	2	429800 574200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Integrated Pollution Prevention And Control** Name: Suez Recycling And Recovery Uk Ltd Location: Seghill Lf Epr/Yp3638sx, Seghill Landfill Site, Seghill Village,Seghill, CRAMLINGTON, Northumberland, NE23 7DY Authority: Environment Agency, North East Region Permit Reference: NP3935DM Original Permit Ref: Yp3638sx Effective Date: 30th June 2016 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A7SE (SW)	962	2	429800 574200
9	**Integrated Pollution Prevention And Control** Name: Sita Uk Limited Location: Seghill Lf Epr/Yp3638sx, Seghill Landfill Site, Seghill Village,Seghill, CRAMLINGTON, Northumberland, NE23 7DY Authority: Environment Agency, North East Region Permit Reference: ZP3134NK Original Permit Ref: Yp3638sx Effective Date: 29th May 2013 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N	A7SE (SW)	962	2	429800 574200
9	**Integrated Pollution Prevention And Control** Name: Sita Uk Limited Location: Seghill Lf Epr/Yp3638sx, Seghill Landfill Site, Seghill Village,Seghill, CRAMLINGTON, Northumberland, NE23 7DY Authority: Environment Agency, North East Region Permit Reference: XP3732XP Original Permit Ref: Yp3638sx Effective Date: 17th September 2009 **Status:** **Superseded By Variation** Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 100m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: N	A7SE (SW)	962	2	429800 574200
10	**Local Authority Pollution Prevention and Controls** Name: Dale Garage Location: Astley Road, Seaton Delaval, WHITLEY BAY, Tyne and Wear, NE25 0DH Authority: Northumberland Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status:** **Not Supplied** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	476	3	430085 575685

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Local Authority Pollution Prevention and Controls** Name: Wheatridge Filling Station Location: Blackhaugh Drive, Seaton Delaval, Blyth, Ne25 0ff Authority: Northumberland Council, Environmental Health Department Permit Reference: EPSE14/158 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	737	3	429827 575827
12	**Local Authority Pollution Prevention and Controls** Name: David Elliott (Motor Engineers) Location: Double Row, Seaton Delaval, WHITLEY BAY, Tyne and Wear, NE25 0PP Authority: Northumberland Council, Environmental Health Department Permit Reference: BV10-PG1/1 Dated: 30th September 1992 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	916	3	429858 576063
	Nearest Surface Water Feature	A13SE (SE)	80	-	430530 574904
13	**Pollution Incidents to Controlled Waters** Property Type: Surface Water Sewers Location: Holywell Dene Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 12th July 1993 Incident Reference: 226/002000 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Water Company Surface Water Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	566	2	430400 574400
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: HOLYWELL Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 20th February 1992 Incident Reference: 226/001100 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Sewerage - Storm Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	649	2	430800 574400
14	**Pollution Incidents to Controlled Waters** Property Type: Farm Location: HOLYWELL Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 9th April 1992 Incident Reference: 226/001220 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Sewerage - Storm Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	653	2	430800 574395
15	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Seaton Deleval Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 7th September 1993 Incident Reference: 226/002096 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Sewerage - Storm Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	701	2	429600 574700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: HOLYWELL Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 26th July 1992 Incident Reference: 226/001445 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Sewerage - Storm Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	704	2	430900 574400
16	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: HOLYWELL Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 26th November 1990 Incident Reference: 226/000389 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Sewerage - Storm Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	708	2	430900 574395
17	**Pollution Incidents to Controlled Waters** Property Type: Landfill/Waste Disposal Site Location: HOLYWELL Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 23rd October 1992 Incident Reference: 226/001587 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Trade Effluent Unconsented Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	716	2	430200 574300
18	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Holywell Dene Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 23rd July 1992 Incident Reference: 226/001441 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Sewerage - Storm Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	737	2	430800 574300
18	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: HOLYWELL Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 28th July 1992 Incident Reference: 235/001447 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Sewerage - Storm Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	742	2	430800 574295
19	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: HOLYWELL Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 7th November 1990 Incident Reference: 226/000363 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Sewerage - Storm Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	769	2	431000 574400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Dene Grove Cso, SEGHILL Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: No Fish Killed Incident Date: 16th August 1995 Incident Reference: NN950177 Catchment Area: Blyth Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	790	2	429500 574695
21	**Pollution Incidents to Controlled Waters** Property Type: Landfill/Waste Disposal Site Location: Seghill Woods Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 3rd July 1992 Incident Reference: 226/001399 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	838	2	429700 574400
21	**Pollution Incidents to Controlled Waters** Property Type: Landfill/Waste Disposal Site Location: HOLYWELL Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 20th March 1991 Incident Reference: 226/000524 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Oil Store Unbunded Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	842	2	429700 574395
22	**Pollution Incidents to Controlled Waters** Property Type: Pumping Station Overflow Location: Seghill Dene Authority: Environment Agency, North East Region Pollutant: Not Given Note: Seaton Burn Incident Date: 10th December 1990 Incident Reference: 226/000414 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Water Company Pumping Station Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	838	2	429400 574800
23	**Pollution Incidents to Controlled Waters** Property Type: Contaminated Land Location: SEGHILL Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Tip Leachate Note: Pollution Found; No Fish Killed Incident Date: 19th March 1996 Incident Reference: NN960039 Catchment Area: Blyth Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11NE (W)	897	2	429300 575195
23	**Pollution Incidents to Controlled Waters** Property Type: Contaminated Land Location: SEGHILL Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Tip Leachate Note: No Fish Killed Incident Date: 19th March 1996 Incident Reference: NN960039 Catchment Area: Blyth Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11NE (W)	898	2	429300 575200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	**Pollution Incidents to Controlled Waters** Property Type: Landfill/Waste Disposal Site Location: Seghill Wds Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: No Fish Killed Incident Date: 27th June 1995 Incident Reference: NN950091 Catchment Area: Blyth Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	924	2	429900 574200
	River Quality Name: Seaton_Burn GQA Grade: River Quality B Reach: Railway_Line_Tidal_Limi Estimated Distance (km): 2 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A8NW (S)	533	2	430310 574455
25	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, North East Area Incident Date: 25th June 2002 Incident Reference: 87106 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: Crude Sewage	A9NW (SE)	567	2	430740 574460
26	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, North East Area Incident Date: 2nd December 2015 Incident Reference: 1391691 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Smoke	A17NW (NW)	952	2	429648 575956
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13SE (S)	0	4	430369 575000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13SE (NE)	0	4	430369 575104
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (S)	0	4	430369 575000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (NE)	0	4	430369 575104
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (S)	0	4	430369 575000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (NE)	0	4	430369 575104
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 547.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Seaton Burn Catchment Name: Pont and Blyth Primacy: 1	A8NE (S)	441	5	430369 574532
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 530.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Seaton Burn Catchment Name: Pont and Blyth Primacy: 1	A8SE (S)	546	5	430424 574388
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 684.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Lysdon Burn Catchment Name: Pont and Blyth Primacy: 1	A14NW (NE)	551	5	431018 575398
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1536.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A8SE (S)	565	5	430402 574401
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 742.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Seaton Burn Catchment Name: Pont and Blyth Primacy: 1	A8NW (SW)	606	5	430083 574465
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 107.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A7NE (SW)	683	5	429791 574525

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 729.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Seaton Burn Catchment Name: Pont and Blyth Primacy: 1	A7NE (SW)	683	5	429791 574525
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 228.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A9SW (SE)	692	5	430772 574336
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 161.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Seaton Burn Catchment Name: Pont and Blyth Primacy: 1	A9SW (SE)	694	5	430815 574357
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A8SW (S)	727	5	430117 574323
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A7NE (SW)	783	5	429740 574439
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Seaton Burn Catchment Name: Pont and Blyth Primacy: 1	A9SW (SE)	796	5	430928 574307
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A7SE (SW)	798	5	429728 574429
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A9SW (SE)	803	5	430881 574269
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 226.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A9SW (SE)	807	5	430956 574314

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 345.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Seaton Burn Catchment Name: Pont and Blyth Primacy: 1	A9SW (SE)	807	5	430956 574314
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A7SE (SW)	843	5	429692 574399
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 160.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A7SW (SW)	851	5	429677 574401
45	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 172.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A7SW (SW)	863	5	429683 574382
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1137.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A17SW (W)	917	5	429366 575484
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Seaton Burn Catchment Name: Pont and Blyth Primacy: 1	A11SE (W)	961	5	429242 574921
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 669.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A22SE (NW)	981	5	429906 576158
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Seaton Burn Catchment Name: Pont and Blyth Primacy: 1	A11SE (W)	982	5	429217 574943
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 757.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Seaton Burn Catchment Name: Pont and Blyth Primacy: 1	A11SE (W)	993	5	429206 574948

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Pont and Blyth Primacy: 1	A7SW (SW)	1000	5	429543 574317

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	**BGS Recorded Landfill Sites** Site Name: Lowsteads Location: Seghill, WHITLEY BAY, Tyne & Wear Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Derived	A7SE (SW)	678	-	430022 574387
53	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Seghill, Whitley Bay, Tyne and Wear Name: Lowsteads Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31798 First Input Date: 27th February 1971 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 411 Other Ref: Not Supplied	A8SW (S)	743	2	430109 574309
54	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Hollywell, Seaton Delaval, Northumberland Name: Holywell Dene No.1 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD06505 First Input Date: Not Supplied Last Input Date: 31st December 1965 Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2900/0190 BGS Ref: Not Supplied Other Ref: PC 009	A9SW (SE)	819	2	430983 574319
55	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Blyth Valley,Northumberland Name: Seghill Extension Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD06727 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: R 045	A7SE (SW)	865	2	429745 574338
56	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Seghill Lf Epr/Yp3638sx Licence Number: 0 Location: Seghill Landfill Site, Seghill Village, Seghill, Northumberland, NE23 7DY Licence Holder: Suez Recycling And Recovery Uk Ltd Authority: Environment Agency - North East Region, North East Area Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied **Licence Status: Effective** Issued: 4th May 2017 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8SW (S)	732	2	430047 574304

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	**Licensed Waste Management Facilities (Locations)** Licence Number: 67401 Location: Seghill Civic Amenity Site, Seghill, Cramlington, Northumberland, NE23 7DY Operator Name: Northumberland Waste Management Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Household Waste Amenity Sites **Licence Status: Surrendered** Issued: 28th July 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 23rd September 2010 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	840	2	429740 574370
58	**Licensed Waste Management Facilities (Locations)** Licence Number: 102475 Location: Double Row, Seaton Delaval, Whitley Bay, Tyne & Wear, NE25 0PP Operator Name: As New Auto Recyclers Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Vehicle depollution facility **Licence Status: Issued** Issued: 11th April 2011 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	905	2	429687 575927
59	**Licensed Waste Management Facilities (Locations)** Licence Number: 67390 Location: Seghill, Cramlington, Northumberland, NE23 7DY Operator Name: Northumberland Waste Management Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Household, Commercial And Industrial Waste Landfills **Licence Status: To PPC** Issued: 28th July 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: YP3638SX Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	962	2	429800 574200
	Local Authority Landfill Coverage Name: Northumberland County Council - Has supplied landfill data		0	6	430369 575104
	Local Authority Landfill Coverage Name: Blyth Valley Borough Council - Has no landfill data to supply		0	7	430369 575104

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**Registered Waste Transfer Sites** Licence Holder: Northumberland Waste Management Ltd Licence Reference: NBL 145 Site Location: Seghill Civic Amenity Site, Seghill, Cramlington, Northumberland Operator Location: Chainbridge Road, Blaydon Haugh Estate, Blaydon, GATESHEAD, Tyne and Wear, NE21 5TA Authority: Environment Agency - North East Region, Northumbria Area Site Category: Civic Amenity 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: 28th July 1993 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Building Waste From D.I.Y. Bulky Houshold Waste Civic Amenity Waste Comprising Garden Waste General Household Waste Used Motor Oil Prohibited Waste: Builders Wastes Commercial Waste Farm Wastes Industrial Wastes Liable To Cause Environmental Hazards Metal/Other Recoverables For Recycling Poisonous, Noxious, Polluting Wastes Spec.Waste (Epa'90:S62/1996 Regs) Trade Waste	A7SE (SW)	852	2	429750 574350
61	**Registered Waste Treatment or Disposal Sites** Licence Holder: Northumberland C.C. Licence Reference: R 25 Site Location: Seghill Pulveriser Plant, Seghill, Cramlington, Northumberland Operator Location: County Hall, MORPETH, Northumberland, NE61 2EF Authority: Environment Agency - North East Region, Northumbria Area Site Category: Pulverization Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: Not Supplied Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: House. + Com. Untreated Waste Ind. Non-Haz. Waste	A7SE (SW)	837	2	429730 574380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	**Registered Waste Treatment or Disposal Sites** Licence Holder: Les Eagleton & Sons Ltd Licence Reference: NBL 159 Site Location: As-Nu Autoparts, 2 Double Row, Seaton Delaval, WHITLEY BAY, Tyne and Wear, NE25 0PP Operator Location: As Site Address Authority: Environment Agency - North East Region, Northumbria 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: 2nd March 1994 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste Vehicles/Vehicle Parts Prohibited Waste Poisonous, Noxious, Polluting Wastes Spec.Waste (Epa'90:S62/1996 Regs) Sub'S Of Poisonous Or Harmful Nature Waste N.O.S. Environment Agency must give specific authorisation for this waste to be acceptedWaste requires prior approval Other Metal Wastes	A17NW (NW)	947	2	429650 575950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	**Control of Major Accident Hazards Sites (COMAH)** Name: Procter & Gamble Product Supply (Uk) Ltd Location: Avenue Road, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0QJ Reference: 1030931 Type: Lower Tier **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (S)	87	8	430374 574910
64	**Planning Hazardous Substance Consents** Name: Procter & Gamble Ltd Location: Avenue Road, Seaton Delaval , Whitley Bay, Tyne & Wear, Ne25 0qj Authority: Northumberland Council, Planning Department Application Ref: 92/C/461p Hazardous Substance: Unknown at time of report Maximum Quantity: 30 Application date: 10th December 1992 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	115	9	430254 574929
65	**Planning Hazardous Substance Consents** Name: Procter & Gamble Location: Avenue Road, Seaton Delaval, Whitley Bay, Tyne & Wear, Ne25 0 Authority: Northumberland Council, Planning Department Application Ref: 99/C/0325/P Hazardous Substance: Unknown at time of report Maximum Quantity: 0 Application date: 20th October 1999 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Manually positioned to the address or location	A13SW (S)	135	9	430299 574888
66	**Planning Hazardous Substance Consents** Name: Procter & Gamble Ltd Location: Avenue Road, Seaton Delaval , Whitley Bay, Tyne & Wear, Ne25 0qj Authority: Northumberland Council, Planning Department Application Ref: 92/C/461p Hazardous Substance: Part C, Flammable Substance (Not in Parts A&B), Liquefied petroleum gas held at >1.4 bar where amount held is greater than or equal to 25 tonnes Maximum Quantity: 90 Application date: 10th December 1992 **Decision: New application granted conditionallyGranted** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	194	9	430226 574855

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)	A13SE (NE)	0	1	430369 575104
67	**BGS Recorded Mineral Sites** Site Name: Mare Close Clay Pit Location: Seaton Delaval, Newcastle Upon Tyne, Northumberland Source: British Geological Survey, National Geoscience Information Service Reference: 128042 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SE (W)	271	1	429919 575099
68	**BGS Recorded Mineral Sites** Site Name: East Holywell Colliery (C Pit) Location: Holywell, Seaton Delaval, Blyth, Northumberland Source: British Geological Survey, National Geoscience Information Service Reference: 150890 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SE (E)	575	1	431104 574986
68	**BGS Recorded Mineral Sites** Site Name: East Holywell Colliery (C Pit) Location: Holywell, Seaton Delaval, Blyth, Northumberland Source: British Geological Survey, National Geoscience Information Service Reference: 150891 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SE (E)	596	1	431123 574973
69	**BGS Recorded Mineral Sites** Site Name: Bates Pit Location: Holywell, Seaton Delaval, Blyth, Northumberland Source: British Geological Survey, National Geoscience Information Service Reference: 150892 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Yard Coal (Northumberland) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	796	1	431214 574649
70	**BGS Recorded Mineral Sites** Site Name: Holywell Location: Holywell, Seaton Delaval, Whitley Bay, Northumberland Source: British Geological Survey, National Geoscience Information Service Reference: 124530 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	884	1	431052 574292
	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.	A13SE (NE)	0	10	430369 575104
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (NE)	0	-	430369 575104

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	430369 575104
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	430369 575000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	190	1	430000 575104
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	206	1	430000 575000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	430369 575000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	430369 575104
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	190	1	430000 575104
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	206	1	430000 575000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	430369 575104
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	430369 575000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	190	1	430000 575104
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	206	1	430000 575000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	430369 575104
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	430369 575000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	190	1	430000 575104
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	206	1	430000 575000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	430369 575104
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	430369 575000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	190	1	430000 575104
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	206	1	430000 575000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	430369 575000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	430369 575104
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	190	1	430000 575104
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SE (W)	206	1	430000 575000
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	430369 575104
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	430369 575000
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	430369 575104
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	430369 575000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	**Contemporary Trade Directory Entries** Name: System Design & Integration Ltd Location: 115, Elsdon Avenue, Seaton Delaval, WHITLEY BAY, Tyne and Wear, NE25 0BW Classification: Control Panels **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	15	-	430374 575231
72	**Contemporary Trade Directory Entries** Name: Coty H F C Location: Avenue Road, Seaton Delaval, Whitley Bay, Tyne And Wear, NE25 0QJ Classification: Cosmetic Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SE (S)	86	-	430374 574910
72	**Contemporary Trade Directory Entries** Name: P & G Location: Avenue Road, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0QJ Classification: Razor Blade Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	87	-	430374 574910
73	**Contemporary Trade Directory Entries** Name: Gabenvironmentalco Location: 91, Prospect Avenue, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0EQ Classification: Pest & Vermin Control **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	122	-	430069 575059
73	**Contemporary Trade Directory Entries** Name: Photoprint Location: 83, Prospect Avenue, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0EQ Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	145	-	430044 575075
74	**Contemporary Trade Directory Entries** Name: Heat-Seekers Ltd Location: 5, Bavington Road, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0JJ Classification: Boilers - Servicing, Replacements & Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	160	-	430665 574993
75	**Contemporary Trade Directory Entries** Name: Ablecare Cleaning Services Location: 67, Acomb Avenue, Seaton Delaval, Whitley Bay, NE25 0JF Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	181	-	430568 574806
76	**Contemporary Trade Directory Entries** Name: Prestige Cleaning Location: 80, Astley Road, Seaton Delaval, Whitley Bay, NE25 0DG Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	263	-	430290 575521
76	**Contemporary Trade Directory Entries** Name: Coast & County Pest Control Services Location: 53, Astley Road, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0DJ Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (N)	292	-	430308 575550
77	**Contemporary Trade Directory Entries** Name: Coastline Business Computers (Northern) Ltd Location: 10-11, Avenue Crescent, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0DN Classification: Office Furniture & Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	311	-	430435 575537
77	**Contemporary Trade Directory Entries** Name: The Imprinted Concrete Company Ltd Location: 10, Avenue Crescent, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0DN Classification: Brick Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	311	-	430435 575537

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	**Contemporary Trade Directory Entries** Name: Home Spruce U P V C Cleaners Location: 30, Hallington Drive, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0JB Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	346	-	430870 575232
79	**Contemporary Trade Directory Entries** Name: North Eastern Boiler Services Location: 96, Denham Drive, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0JZ Classification: Boilers - Servicing, Replacements & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	357	-	430673 574665
80	**Contemporary Trade Directory Entries** Name: Seymour Aquaitcs Location: 2, Ashkirk Way, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0JU Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	384	-	430528 574581
81	**Contemporary Trade Directory Entries** Name: Carltons The Feed Merchants Location: 1, Cooperative Buildings, Seaton Delaval, Whitley Bay, NE25 0AS Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	384	-	430824 575378
82	**Contemporary Trade Directory Entries** Name: Kingfisher Services Location: 13, Ashkirk Way, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0JT Classification: Catering Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	388	-	430639 574610
83	**Contemporary Trade Directory Entries** Name: Ncs Nothern Cleaning Services Ltd Location: 49, Manners Gardens, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0DR Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	407	-	430191 575651
84	**Contemporary Trade Directory Entries** Name: Cinders Cleaning Location: Ivanhoe Lodge, Astley Road, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0DQ Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	448	-	430109 575665
84	**Contemporary Trade Directory Entries** Name: Dale Garage Location: Astley Road, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0DH Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	476	-	430086 575686
85	**Contemporary Trade Directory Entries** Name: Tartan Consultants Ltd Location: 99, Linden Road, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0DB Classification: Mechanical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	519	-	429833 575494
86	**Contemporary Trade Directory Entries** Name: Westbourne Garage Location: Westbourne Terrace, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0BE Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	519	-	431063 575111
86	**Contemporary Trade Directory Entries** Name: Cookes Coaches Location: Westbourne Garage,Westbourne Ter, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0BE Classification: Bus & Coach Operators & Stations **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	531	-	431075 575124

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	**Contemporary Trade Directory Entries** Name: Westbourne Garage Location: Westbourne Ter, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0BE Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14SE (E)	534	-	431078 575092
87	**Contemporary Trade Directory Entries** Name: Priory Domestic Appliances Location: 15, The Paddock, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0BZ Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (E)	696	-	431224 574967
88	**Contemporary Trade Directory Entries** Name: Co-Operative Filling Station Location: Blackhaugh Drive, Seaton Delaval, Whitley Bay, NE25 0FF Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	736	-	429825 575823
89	**Contemporary Trade Directory Entries** Name: D-Line Europe Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	874	-	429732 575925
90	**Contemporary Trade Directory Entries** Name: General Engineering Maintenance Services Ltd Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Mechanical Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A23SW (N)	884	-	430116 576124
91	**Contemporary Trade Directory Entries** Name: M C Interfreight Ltd Location: Seaton View House,Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Freight Forwarders **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	890	-	429798 575996
91	**Contemporary Trade Directory Entries** Name: Wood & Wire Forms Ltd Location: Seaton View House,Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Wire Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	890	-	429798 575996
92	**Contemporary Trade Directory Entries** Name: Ron Bell Autos Location: 17e Double Row, Seaton Delaval, Whitley Bay, Tyne And Wear, NE25 0PP Classification: Garage Services **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A17NW (NW)	898	-	429687 575918
92	**Contemporary Trade Directory Entries** Name: Ian White Motors Ltd Location: 2, Double Row, Seaton Delaval, Whitley Bay, NE25 0PP Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NW (NW)	919	-	429652 575913
92	**Contemporary Trade Directory Entries** Name: Whites Of Delaval Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NW (NW)	924	-	429650 575918
92	**Contemporary Trade Directory Entries** Name: As New Auto Parts Location: 2, Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Salvage Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NW (NW)	937	-	429647 575933

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	**Contemporary Trade Directory Entries** Name: Arm Motors Location: 2, Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NW (NW)	937	-	429647 575933
92	**Contemporary Trade Directory Entries** Name: As New Location: 2, Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Salvage Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NW (NW)	937	-	429647 575933
93	**Contemporary Trade Directory Entries** Name: Ron Bell Autos Location: 17 Double Row, Seaton Delaval, Whitley Bay, Tyne And Wear, NE25 0PP Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A17NE (NW)	906	-	429843 576043
93	**Contemporary Trade Directory Entries** Name: Prime Cut Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Meat - Wholesale **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	906	-	429843 576043
93	**Contemporary Trade Directory Entries** Name: The Caravan Centre Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Caravan Dealers & Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A17NE (NW)	929	-	429814 576052
94	**Contemporary Trade Directory Entries** Name: Bell Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A17NE (NW)	906	-	429738 575972
94	**Contemporary Trade Directory Entries** Name: Delcor Furniture Ltd Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PR Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	932	-	429696 575972
94	**Contemporary Trade Directory Entries** Name: J B Products Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PR Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	932	-	429696 575972
94	**Contemporary Trade Directory Entries** Name: Delcor Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PR Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	932	-	429696 575972
94	**Contemporary Trade Directory Entries** Name: 4 D Distributors Location: 6, Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	942	-	429703 575990
94	**Contemporary Trade Directory Entries** Name: 4d Distributors Ltd Location: 6, Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	942	-	429703 575990
94	**Contemporary Trade Directory Entries** Name: Northern Caravan Specialists Ltd Location: Unit 6, Double Row, Seaton Delaval, NE25 0PP Classification: Caravans - Servicing & Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	949	-	429698 575995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	**Contemporary Trade Directory Entries** Name: D Elliott Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	916	-	429866 576068
95	**Contemporary Trade Directory Entries** Name: D A Chemicals Group Ltd Location: D20-22 Double Row, Seaton Delaval, Whitley Bay, Tyne And Wear, NE25 0PP Classification: Chemicals - Distributors & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A17NE (NW)	917	-	429866 576068
95	**Contemporary Trade Directory Entries** Name: Electric Motor Rewinds Co Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Electric Motor Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	930	-	429878 576089
96	**Contemporary Trade Directory Entries** Name: Davison Plastering Services Ltd Location: Unit D8, Delaval Trading Estate, Seaton Delaval, Whitley Bay, NE25 0QT Classification: Builders' Tools & Equipment Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A23SW (N)	918	-	430180 576169
96	**Contemporary Trade Directory Entries** Name: Delaval Drain Keys Location: Unit D, Delaval Trading Estate, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0QT Classification: Drain & Sewer Clearance - Equipment **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A23SW (N)	941	-	430157 576189
96	**Contemporary Trade Directory Entries** Name: Avenue Tyres Location: D11a, Unit, Delaval Trading Estate, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0QT Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A23SW (N)	956	-	430178 576207
96	**Contemporary Trade Directory Entries** Name: Weldwrite Security Ltd Location: D11A, Unit, Delaval Trading Estate, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0QT Classification: Steel Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A23SW (N)	956	-	430178 576207
97	**Contemporary Trade Directory Entries** Name: Caravan Source Location: Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Caravans - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	932	-	429933 576117
98	**Contemporary Trade Directory Entries** Name: Hartley Garage Location: Unit 23, Delaval Trading Estate, Seaton Delaval, Whitley Bay, NE25 0QT Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A23SW (N)	953	-	430072 576185
98	**Contemporary Trade Directory Entries** Name: John Aynsley Location: Unit D3, Double Row, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0PP Classification: Ornamental Metalwork **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A23SW (N)	962	-	430108 576202
98	**Contemporary Trade Directory Entries** Name: Seymours Delaval Location: Unit 21, Delaval Trading Estate, Seaton Delaval, WHITLEY BAY, Tyne and Wear, NE25 0QT Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A23SW (N)	962	-	430108 576202

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	**Contemporary Trade Directory Entries** Name: Douglas E Ward Engineering Ltd Location: 4, Double Row, Seaton Delaval, Whitley Bay, NE25 0PP Classification: Precision Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A23SW (N)	979	-	430109 576219
99	**Contemporary Trade Directory Entries** Name: Cormeton Fire Protection Ltd Location: Unit 12, Delaval Trading Estate, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0QT Classification: Firefighting Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A23SW (N)	996	-	430141 576243
99	**Contemporary Trade Directory Entries** Name: A & M Motors Location: Unit 21b Delaval Trading Est, Seaton Delaval, Whitley Bay, Tyne & Wear, NE25 0QT Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A23SW (N)	1000	-	430115 576242
100	**Contemporary Trade Directory Entries** Name: Rosenson International Location: Unit 19, Delaval Trading Estate, Seaton Delaval, Whitley Bay, Tyne and Wear, NE25 0QT Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A22SE (N)	991	-	430029 576213
101	**Fuel Station Entries** Name: Westbourne Service Station Location: Astley Road , Seaton Delaval , Whitley Bay, Northumberland, NE25 0DH Brand: Unbranded Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	476	-	430085 575685
101	**Fuel Station Entries** Name: Dale Garage (Seaton) Location: Astley Road , Seaton Delaval , Whitley Bay, Northumberland, NE25 0DH Brand: Shell Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	476	-	430085 575685
102	**Fuel Station Entries** Name: Co-Op Wheatridge Park Location: Blackhaugh Drive , Seaton Delaval , Whitley Bay, Northumberland, NE25 0FF Brand: Harvest Energy Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	739	-	429822 575825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	**Ancient Woodland** Name: Not Supplied Reference: 1412678 Area(m²): 16108.62 Type: Ancient and Semi-Natural Woodland	A8SE (S)	550	11	430400 574401
104	**Ancient Woodland** Name: Not Supplied Reference: 1412679 Area(m²): 2401.5 Type: Ancient and Semi-Natural Woodland	A9NW (SE)	558	11	430771 574488
105	**Ancient Woodland** Name: Not Supplied Reference: 1412677 Area(m²): 23445.46 Type: Ancient and Semi-Natural Woodland	A9SW (SE)	768	11	430821 574276
106	**Areas of Adopted Green Belt** Authority: Blyth Valley Borough Council (now part of Northumberland Council) Plan Name: Generic Development Control Policies **Status:** **Adopted** Plan Date: 30th September 2007	A13SW (SW)	95	12	430138 575000

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
North Tyneside Metropolitan Borough Council - Environmental Health Department	March 2015	Annual Rolling Update
Northumberland Council - Environmental Health Department	March 2015	Annually
Blyth Valley Borough Council (now part of Northumberland Council) - Environmental Health Department	October 2009	Not Applicable
Castle Morpeth Borough Council (now part of Northumberland Council) - Environmental Health Department	October 2009	Not Applicable
Wansbeck District Council (now part of Northumberland Council) - Environmental Health Department	October 2009	Not Applicable
Discharge Consents		
Environment Agency - North East Region	July 2019	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North East Region	March 2013	Annual Rolling Update
Integrated Pollution Controls		
Environment Agency - North East Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - North East Region	July 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control		
North Tyneside Metropolitan Borough Council - Environmental Health Department	April 2014	Variable
Blyth Valley Borough Council (now part of Northumberland Council) - Environmental Health Department	December 2008	Not Applicable
Wansbeck District Council (now part of Northumberland Council) - Economic and Environment Services	May 2009	Not Applicable
Northumberland Council - Environmental Health Department	May 2014	Variable
Castle Morpeth Borough Council (now part of Northumberland Council) - Environmental Health Department	September 2008	Not Applicable
Local Authority Pollution Prevention and Controls		
North Tyneside Metropolitan Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Blyth Valley Borough Council (now part of Northumberland Council) - Environmental Health Department	December 2008	Not Applicable
Wansbeck District Council (now part of Northumberland Council) - Economic and Environment Services	May 2009	Not Applicable
Northumberland Council - Environmental Health Department	May 2014	Annually
Castle Morpeth Borough Council (now part of Northumberland Council) - Environmental Health Department	September 2008	Not Applicable
Local Authority Pollution Prevention and Control Enforcements		
North Tyneside Metropolitan Borough Council - Environmental Health Department	April 2014	Variable
Blyth Valley Borough Council (now part of Northumberland Council) - Environmental Health Department	December 2008	Not Applicable
Wansbeck District Council (now part of Northumberland Council) - Economic and Environment Services	May 2009	Not Applicable
Northumberland Council - Environmental Health Department	May 2014	Variable
Castle Morpeth Borough Council (now part of Northumberland Council) - Environmental Health Department	September 2008	Not Applicable
Nearest Surface Water Feature		
Ordnance Survey	September 2019	
Pollution Incidents to Controlled Waters		
Environment Agency - North East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - North East Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters		
Environment Agency - North East Region	March 2013	Annual Rolling Update
Registered Radioactive Substances		
Environment Agency - North East Region	June 2016	
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable

Agency & Hydrological	Version	Update Cycle
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - North East Region - North East Area	July 2019	Quarterly
Environment Agency - North East Region - Northumbria Area	July 2019	Quarterly
Water Abstractions		
Environment Agency - North East Region	July 2019	Quarterly
Water Industry Act Referrals		
Environment Agency - North East Region	October 2017	Quarterly
Groundwater Vulnerability Map		
Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Source Protection Zones		
Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2019	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2019	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	August 2019	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	August 2019	Quarterly
Flood Defences		
Environment Agency - Head Office	August 2019	Quarterly
OS Water Network Lines		
Ordnance Survey	July 2019	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North East Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North East Region - North East Area	July 2018	Quarterly
Environment Agency - North East Region - Northumbria Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region - North East Area	July 2019	Quarterly
Environment Agency - North East Region - Northumbria Area	July 2019	Quarterly
Local Authority Landfill Coverage		
Blyth Valley Borough Council (now part of Northumberland Council) - Environmental Health Department	May 2000	Not Applicable
Castle Morpeth Borough Council (now part of Northumberland Council) - Environmental Health Department	May 2000	Not Applicable
North Tyneside Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Northumberland County Council (now part of Northumberland Council)	May 2000	Not Applicable
Wansbeck District Council (now part of Northumberland Council) - Economic and Environment Services	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Blyth Valley Borough Council (now part of Northumberland Council) - Environmental Health Department	May 2000	Not Applicable
Castle Morpeth Borough Council (now part of Northumberland Council) - Environmental Health Department	May 2000	Not Applicable
North Tyneside Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Northumberland County Council (now part of Northumberland Council)	May 2000	Not Applicable
Wansbeck District Council (now part of Northumberland Council) - Economic and Environment Services	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - North East Region - North East Area	March 2003	Not Applicable
Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North East Region - North East Area	March 2003	Not Applicable
Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North East Region - North East Area	March 2003	Not Applicable
Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Castle Morpeth Borough Council (now part of Northumberland Council) - Planning Department	August 2009	Not Applicable
Wansbeck District Council (now part of Northumberland Council)	February 2009	Not Applicable
North Tyneside Metropolitan Borough Council - Development Function	February 2016	Variable
Northumberland County Council (now part of Northumberland Council) - Minerals Waste and Development Control	October 2008	Annual Rolling Update
Blyth Valley Borough Council (now part of Northumberland Council)	October 2008	Not Applicable
Northumberland Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents		
Castle Morpeth Borough Council (now part of Northumberland Council) - Planning Department	August 2009	Not Applicable
Wansbeck District Council (now part of Northumberland Council)	February 2009	Not Applicable
North Tyneside Metropolitan Borough Council - Development Function	February 2016	Variable
Northumberland County Council (now part of Northumberland Council) - Minerals Waste and Development Control	October 2008	Annual Rolling Update
Blyth Valley Borough Council (now part of Northumberland Council)	October 2008	Not Applicable
Northumberland Council - Planning Department	October 2015	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	October 2019	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	July 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	September 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Underground Electrical Cables National Grid	December 2015	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt		
Blyth Valley Borough Council (now part of Northumberland Council)	March 2019	As notified
Castle Morpeth Borough Council (now part of Northumberland Council) - Planning Department	March 2019	As notified
North Tyneside Metropolitan Borough Council	March 2019	As notified
Wansbeck District Council (now part of Northumberland Council)	March 2019	As notified
Areas of Unadopted Green Belt		
Blyth Valley Borough Council (now part of Northumberland Council)	March 2019	As notified
Castle Morpeth Borough Council (now part of Northumberland Council) - Planning Department	March 2019	As notified
North Tyneside Metropolitan Borough Council	March 2019	As notified
Wansbeck District Council (now part of Northumberland Council)	March 2019	As notified
Areas of Outstanding Natural Beauty		
Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	March 2019	Bi-Annually
Marine Nature Reserves		
Natural England	July 2019	Bi-Annually
National Nature Reserves		
Natural England	July 2019	Bi-Annually
National Parks		
Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites		
Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural England	March 2019	Bi-Annually
Special Areas of Conservation		
Natural England	June 2019	Bi-Annually
Special Protection Areas		
Natural England	April 2019	Bi-Annually

Data Suppliers

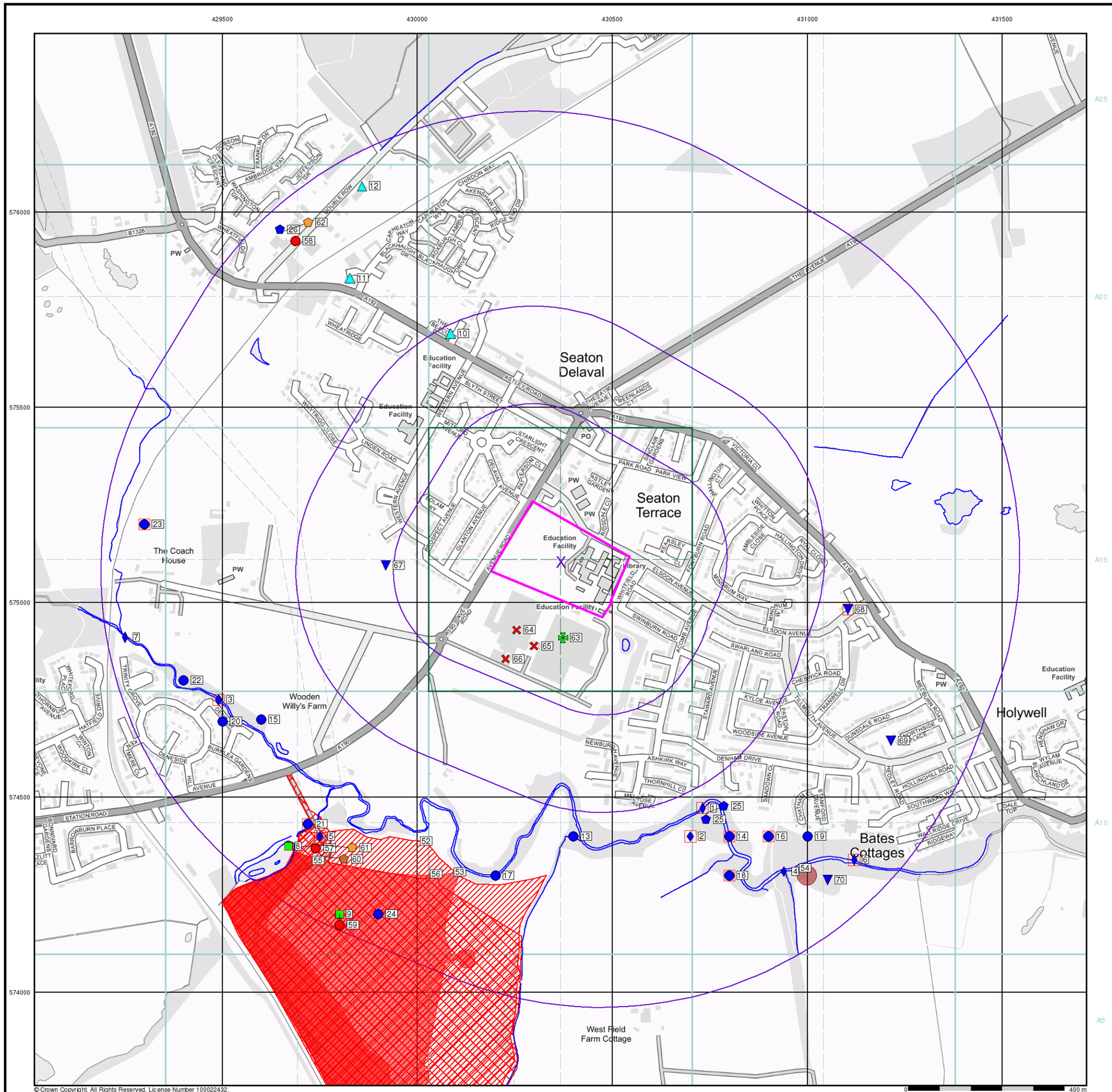
A selection of organisations who provide data within this report

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

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	**Northumberland Council - Environmental Health Department** County Hall, Morpeth, Northumberland, NE61 2EF	Telephone: 0845 600 6400 Email: ask@northumberland.gov.uk Website: www.northumberland.gov.uk
4	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**Northumberland County Council (now part of Northumberland Council)** County Hall, Morpeth , Northumberland, NE61 2EF	Telephone: 01670 533000 Fax: 01670 534160 Website: www.northumberland.gov.uk
7	**Blyth Valley Borough Council (now part of Northumberland Council) - Environmental Health Department** County Hall, Morpeth, Northumberland, NE51 2EF	Telephone: 0845 600 6400 Website: www.northumberland.gov.uk
8	**Health and Safety Executive** 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
9	**Northumberland Council - Planning Department** County Hall, Morpeth, Northumberland, NE61 2EF	Telephone: 0845 600 6400 Email: ask@northumberland.gov.uk Website: www.northumberland.gov.uk
10	**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
11	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
12	**Blyth Valley Borough Council (now part of Northumberland Council)** County Hall, Morpeth, Northumberland, NE61 2EF	Telephone: 0845 600 6400 Website: www.northumberland.gov.uk
13	**North Tyneside Metropolitan Borough Council** Quadrant, The Silverlink North, Cobalt Business Park, Newcastle-Upon-Tyne, Tyne & Wear, NE27 0BY	Telephone: 0345 2000 101 Email: contact.us@northtyneside.gov.uk Website: www.northtyneside.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org

Contact	Name and Address	Contact Details
-	**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.



SOLMEK

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

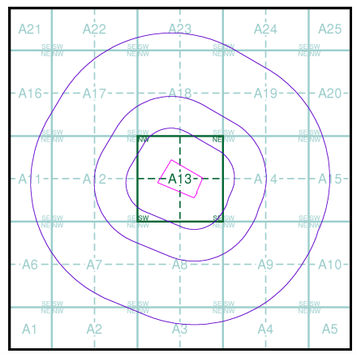
Waste

- 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



Order Details

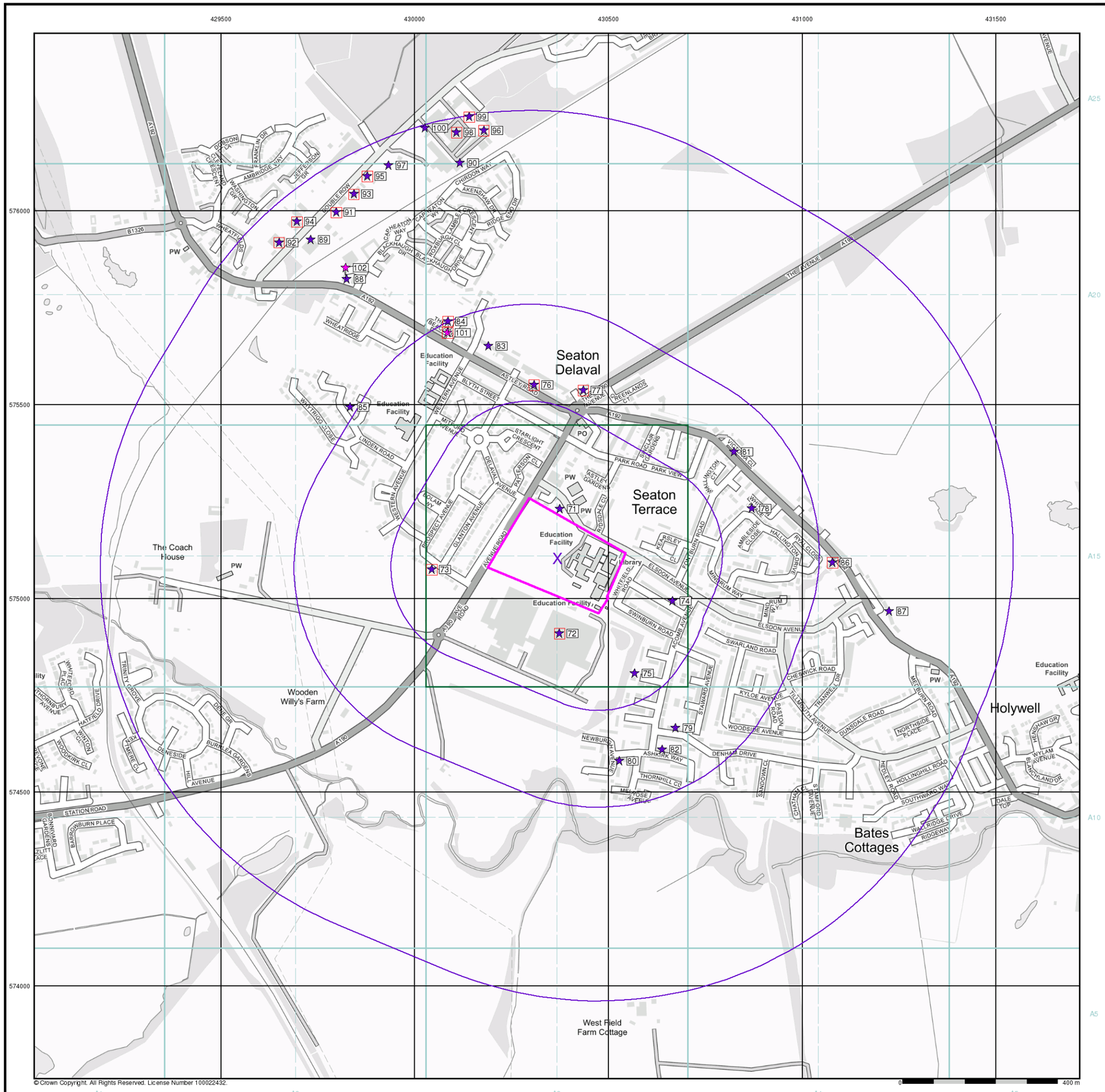
Order Number:	223718908_1_1
Customer Ref:	S191056
National Grid Reference:	430370, 575100
Slice:	A
Site Area (Ha):	5.66
Search Buffer (m):	1000

Site Details

Astley High School, Elsdon Avenue, Seaton Delaval, NE25 0BP

Landmark INFORMATION GROUP

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



SOLMEK

Industrial Land Use Map

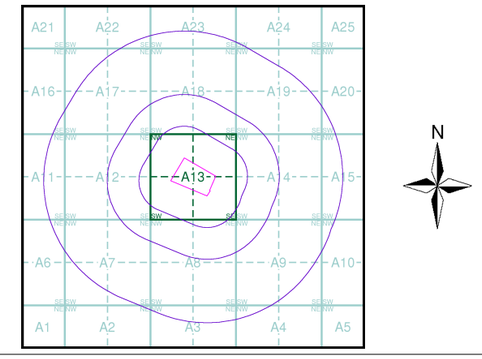
General

- 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



Order Details

Order Number:	223718908_1_1
Customer Ref:	S191056
National Grid Reference:	430370, 575100
Slice:	A
Site Area (Ha):	5.66
Search Buffer (m):	1000

Site Details

Astley High School, Elsdon Avenue, Seaton Delaval, NE25 0BP

Landmark INFORMATION GROUP

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

SOLMEK

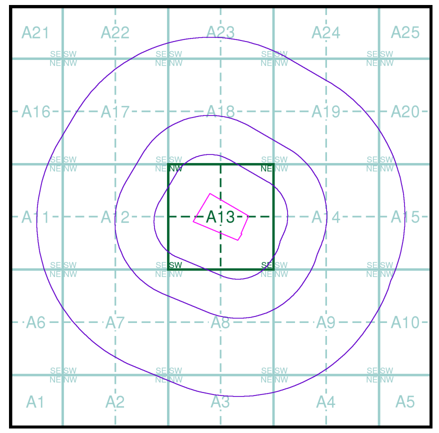
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

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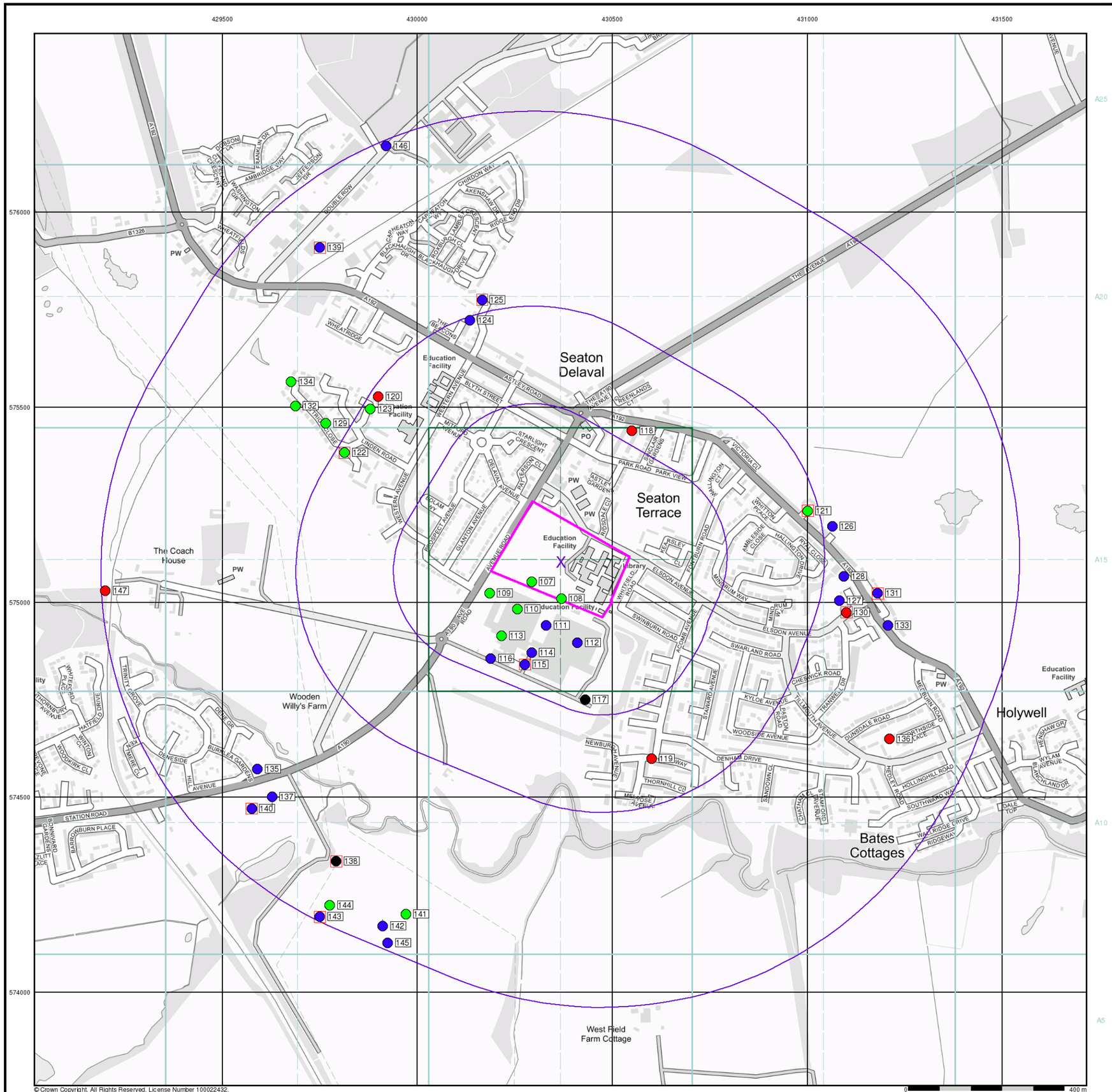
Customer Ref: S191056
National Grid Reference: 430370, 575100
Slice: A
Site Area (Ha): 5.66
Search Buffer (m): 1000

Site Details

Astley High School, Elsdon Avenue, Seaton Delaval, NE25 0BP

Landmark INFORMATION GROUP

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



SOLMEK

General

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

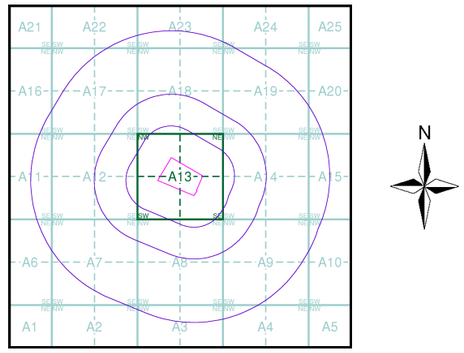
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

Order Number:	223718908_1_1
Customer Ref:	S191056
National Grid Reference:	430370, 575100
Slice:	A
Site Area (Ha):	5.66
Search Buffer (m):	1000

Site Details

Astley High School, Elsdon Avenue, Seaton Delaval, NE25 0BP

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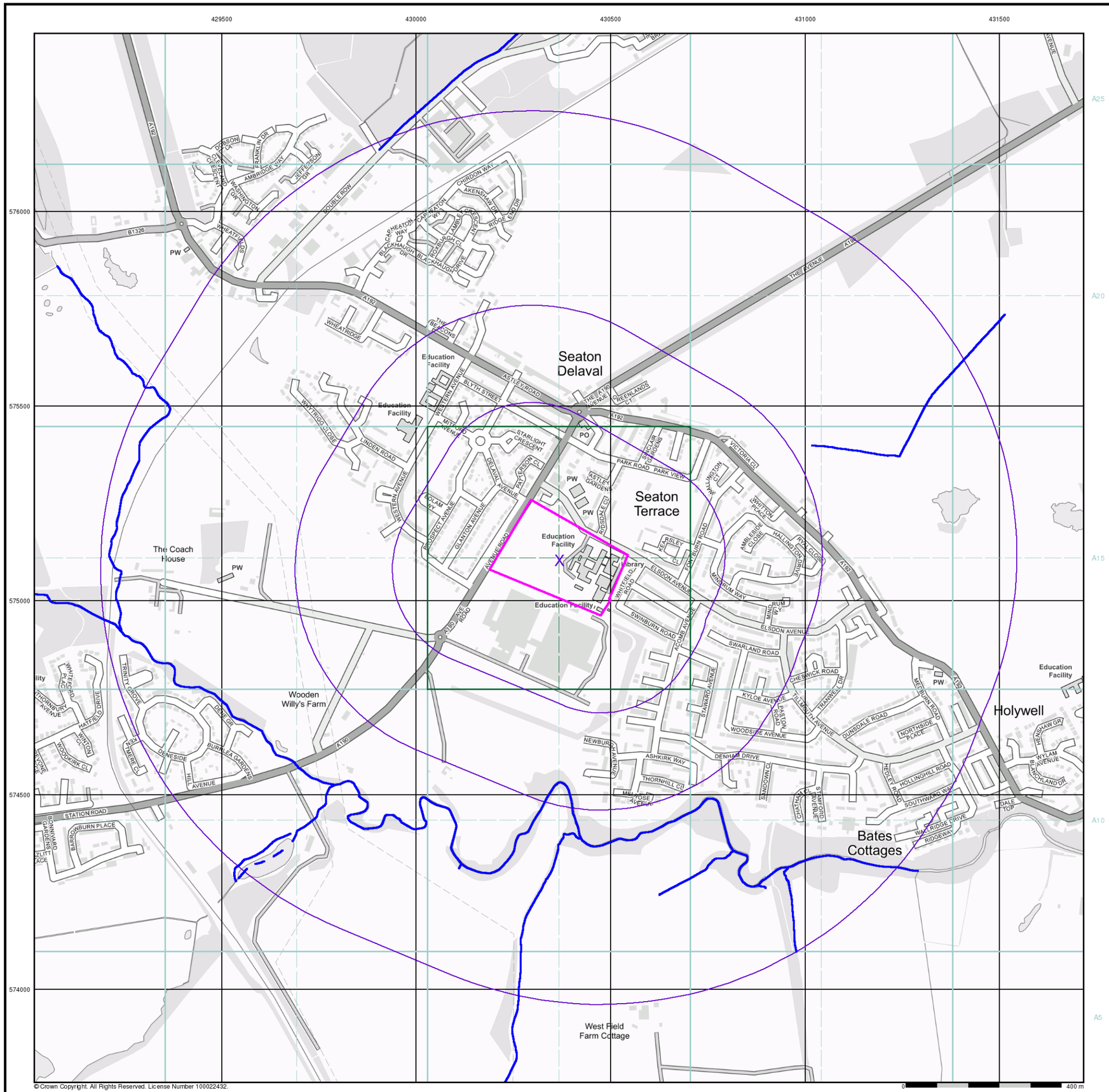
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



SOLMEK

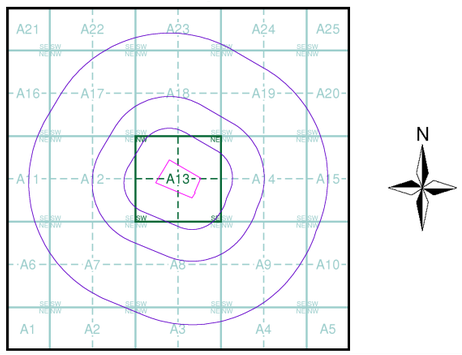
General

- 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



Order Details

Order Number:	223718908_1_1
Customer Ref:	S191056
National Grid Reference:	430370, 575100
Slice:	A
Site Area (Ha):	5.66
Search Buffer (m):	1000

Site Details

Astley High School, Elsdon Avenue, Seaton Delaval, NE25 0BP

Landmark INFORMATION GROUP

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

Appendix D
Coal Mining
Report

David Bellis Consulting Surveyors
Ltd
8, Mornington Terrace
Harrogate
North Yorkshire
HG1 5DH

(DX 720352 Harrogate)

T: 01423 529911 F: 01423 529922
E: contact@coalsearch.plus.com
W: www.coalsearch.plus.com

searchcode

COAL SEARCH PLUS +
Protecting your investment
By
David Bellis
CONSULTING SURVEYORS

Regulated Coal Mining Search Report

Incorporating Cheshire Brine Screening

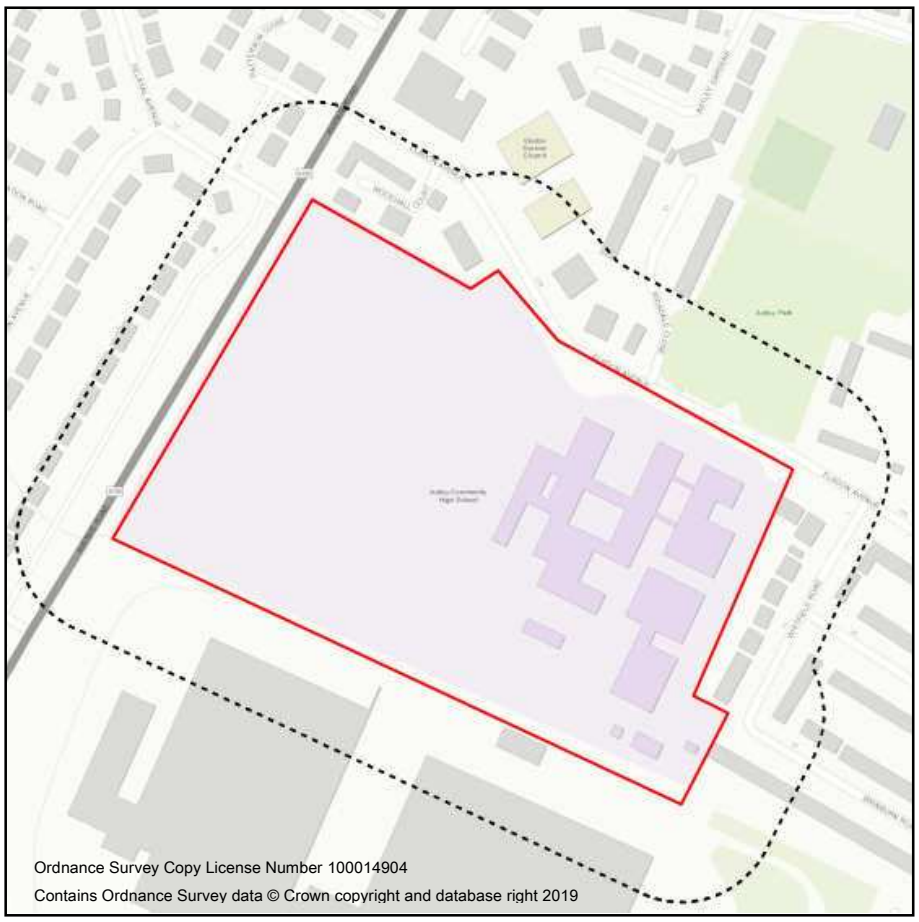
The Property Ombudsman
Consumer Redress

COPSO
ASSOCIATE MEMBER

SITE LOCATION AND COAL MINING FEATURE PLAN

ADDRESS: Astley High School, Elsdon Avenue, Seaton Delaval
Northumberland, NE25 0BP

SEARCH NUMBER: 416830



KEY

Property Boundary

50m property boundary buffer

Coal mining subsidence claims within 50m (section 7)

Mine entries within 20m (section 5)

Adits

Shafts

Symbols are indicative only and are not drawn to scale. Do not scale from this plan.

World Topographic Map - Sources: Esri, HERE, Garmin, Intermap, Increment P Corp, GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

This plan shows the location of the subject property and where relevant the location of mine entries and subsidence claims referred to in the attached CoalSearchPlus+ regulated coal mining search report. The plan must be viewed in conjunction with the detailed findings in the attached report. A coal mining risk rating, including recommended further action where appropriate, is given at the conclusion of the report. (section 8)

This plan shows reportable features relevant to the property only. Additional relevant coal mining aspects are reported upon within the report. The report and content of this plan are specific to the property under consideration. The report contents should not be used in relation to other property in the area.

Mine entries are reported if they are located within the property boundary or within 20m of it. (see report section 5 for detail)

Coal mining subsidence claims, made since 31 st October 1994 and recorded by The Coal Authority, are reported for the subject property or property located within 50m of its boundary. Records of claims prior to this date are not normally retained by The Coal Authority and will not be reported. (see report section 7 for details)

Property owners have the benefit of the protection of the Coal Mining Subsidence Act 1991* in the event of the occurrence of damage from disused coal mine workings including from disused coal mine entries.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused shafts and adits). The emergency telephone number at all times is (01623) 646333. If you have any questions or queries regarding the content of this coal mining report please contact David Bellis Consulting Surveyors Ltd.

* Note The Coal Mining Subsidence Act 1991 does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester

Coal Mining Search Report

Incorporating Cheshire Brine Screening

Serial Number 416830

Client detail :

Solmek
(Site Investigations) Ltd
12 Yarm Road
Stockton on Tees
Cleveland
TS18 3NA

CoalSearchPlus+ by David Bellis Consulting
Surveyors Ltd
8 Mornington Terrace
Harrogate
North Yorkshire
HG1 5DH
(DX 720352 Harrogate)

Tel 01423 529911
Fax 01423 529922

Search produced by M J Peace

Property details:

Astley High School
Elsdon Avenue
Seaton Delaval
Northumberland
NE25 0BP

Your ref : S191056 SOL3616
Purchaser :
Vendor :

In accordance with your instructions received 05 Nov 2019 we have inspected plans and records of coal mine workings and have made enquiries with respect to Cheshire brine extraction in relation to the above property and can report as follows :

1. **SEAM DETAILS FOR PAST UNDERGROUND COAL MINING :** In relation to the property the undermentioned seam(s) have been worked within the likely zone of physical influence on the surface.

Seam	Depth (m)	Sect (cm)	Date	Remarks
Main	115	203	Pre 1935	Subjacent
Yard	140	86	Pre 1947	Subjacent
Low Main	177	180	Pre 1950	Subjacent - partial extraction
Brass Thill	188	100	Pre 1955	Subjacent

2. **SEAM DETAILS FOR CURRENT AND FUTURE UNDERGROUND COAL MINING :** The undermentioned seam(s) are currently being worked, or licenses to work are being determined, or have been granted to work, within the likely zone of physical influence on the surface in relation to the property.

Seam	Depth (m)	Sect (cm)	Date	Remarks
				Coal in reserve - no workings currently planned.

3. **UNDERLYING GEOLOGY :**

The property is situated in an area of Till over Middle Coal Measures, shales and mudstones.

There are no faults or abnormal features relevant to the property.

Serial Number 416830

4. OPENCAST COAL MINING :

Past Opencast Workings : The property is not situated within the boundary of a former opencast coal mining site.

Present Opencast Workings : The property is not situated within 200m of the boundary of a currently operating opencast coal mining site.

Future Opencast Workings : The property is not situated within 800m of the boundary of an opencast site for which a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

5. MINE ENTRIES, MINE GAS, SURFACE HAZARDS AND ADDITIONAL INFORMATION :

The Coal Authority licensed Mine Entry dataset shows no evidence of any shafts or adits within 20 metres of the property or the boundary of the property.

There are no tips or lagoons in the vicinity of the Property.

The Coal Authority licensed Mine Gas dataset shows no record of mine gas emissions within the property or the property boundary requiring action.

The Coal Authority licensed Coal Mining Related Hazards dataset shows that the property has not been subject to remedial works by the Coal Authority, or its representatives, under the Coal Authority Emergency Surface Hazard Call Out Procedures.

6. NOTICES IN RELATION TO FUTURE COAL MINING ACTIVITY :

We have no knowledge of any intention to work coal by underground methods within influencing distance on the surface in the vicinity of the property for which section 46 notices have been issued under the Coal Mining Subsidence Act 1991.

7. PAST COAL MINING RELATED SUBSIDENCE :

A review of the records held by the Coal Authority has shown no evidence of coal mining related subsidence claims in relation to the subject property since 31st October 1994. This is the period for which records are held by the Coal Authority.

8. CONCLUSION (COAL MINING) : In the light of the above facts we conclude that in relation to coal mining :

Old workings are present but all settlement is likely to have completed long ago.
In our opinion it is unlikely that coal will be worked in the forseeable future.

Serial Number 416830

COAL MINING RISK LEVEL : We recommend that the transaction is treated as :

Where this report is to be used for development purposes particular attention is drawn to the paragraphs below concerning the ownership of in situ coal, coal workings and the risks from mine gases.

Please note that the overall coal mining risk level above is based upon an assessment of the detailed information contained in the body of the report. The risk assessment must be used in conjunction with the detailed report.

If development of the property is being considered then all necessary enquiries and investigations should be completed prior to the commencement of works to ensure that proposals follow good engineering practice for development in mining areas. The Coal Authority has ownership of in situ coal, coal mines (both current and disused) and coal mine shafts and adits. Activities that intersect, enter or disturb any of the Coal Authority's interests require the written permission of the Authority.

Any development proposals should consider risks to the development, or adjacent property, of generating or displacing underground gases where coal seams or former mining works are disturbed. The need for effective measures to prevent gasses entering public properties should be assessed and properly addressed. These actions are necessary due to the public safety implications of development in these circumstances.

CHESHIRE BRINE EXTRACTION INFORMATION :

The property lies outside the Cheshire Brine Compensation District as prescribed by the Cheshire Brine Pumping (Compensation for Subsidence) Act 1952.

Serial Number 416830

authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be copyright of the Coal Authority and permission should be sought from David Bellis Consulting Surveyors Ltd prior to any re-use.

Coal Authority Address : The Coal Authority, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, HG18 4RG
British Geological Survey Address : British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham NG12 5GG

The information contained in this report relates to the property address given by the individual or organisation ordering the report. Where a plan indicating the property location and boundary is supplied with the instruction the report is based on that information. Where no plan is supplied the report is based on the property location as defined in publicly available mapping data. At all times it remains the responsibility of the instructing organisation or individual to define the boundary of the property.

Additional notes applicable to Residential Coal Mining Reports only:

David Bellis Consulting Surveyors Ltd is not aware of any personal or business relationship between the person conducting or preparing the search and any person involved in the sale of the property.

This report is a desk study of existing published geological and coal mining records, the CoalSearchPlus+ coal mining data base and data supplied under license by the Coal Authority. In order to compile this report enquiries have been made in relation to the following:

Past Coal Mining – the existence of any previously worked seams of coal within influencing distance on the surface in relation to the property including an indication of the depth and age of the workings,
A statement of shallow depth generally indicates records show that coal has been mined within 30m of the surface. In some circumstances coal classified as shallow may extend up to a depth of 50m.
A statement of moderate depth indicates records show that coal has been mined at between 30m and 500m depth.
A statement of 'at depth' indicates records show that coal has been mined at depths of over 500m.

Present Coal Mining - the existence of any currently worked seams of coal within influencing distance on the surface in relation to the property including an indication of the depth and age of the workings. The existence of coal that could be worked at some time in the future will be enquired into and detail of any relevant licenses disclosed where available.

Underlying Geology - the underlying geology of the property will be reviewed and briefly described in relation to coal mining.

Opencast Coal Mining - the existence of past present and future opencast coal mining, specifically :

- if the property is situated within the boundary of a former opencast site. In the case of old opencast workings it must be understood that the records are often unclear regarding the site boundary and or worked areas. Published records and data supplied under license by the Coal Authority will be reviewed to give our opinion of the existence of relevant former opencast coal workings.
- if the property is situated within 200m of the boundary of a currently operating opencast site.
- if the property is situated within 800m of the boundary of an opencast for which either a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

Mine Entries, Mine Gas, Surface Hazards and Additional Information – the existence of any mine entries within 20m of the property or the boundary of the property and its associated land and buildings (the definition of the boundary of the property is the responsibility of the individual or organisation ordering this report). Where a mine entry is found to exist the approximate location of the mine entry will be indicated on a plan. The existence of unworked coal will be enquired into and our opinion regarding the likelihood of it being worked at some time in the past will be given where relevant.
It will be reported if mine gas emissions relating to the property are recorded by The Coal Authority.
It will be reported if The Coal Authority has carried out work in relation to the property after a report of an alleged coal mining related hazard under the Coal Authority's Emergency Hazard Call Out procedures.
Any other relevant coal mining related features discovered will be noted.

Notices in relation to future coal mining activity – the existence of notices indicating an intention to work coal by underground methods in the future.

Past coal mining related subsidence – report if The Coal Authority licensed Claim Dataset shows record of a coal mining subsidence claim having been reported on the subject property or any other property within 50m of the boundary of the subject property since 31st October 1994. Where available claim detail information will be given for claims on the subject property only.

Coal Mining Risk Level – the opinion of David Bellis Consulting Surveyors Ltd of the risk posed to the property from coal mining given all the information contained in the report. The risk to the property is given in relation to the majority of the housing stock in the immediate area.

Cheshire Brine – the location of the property in relation to the Cheshire Brine Compensation District.

Additional information, including answers to many frequently asked questions, can be found on the CoalSearchPlus+ website, www.coalsearch.plus.com

Complaints Procedure

Serial Number 416830

David Bellis Consulting Surveyors Ltd is registered with the Property Codes Compliance Board as a subscriber to the Search Code. A key commitment under the Code is that firms will handle any complaints both speedily and fairly.

If you want to make a complaint, we will:

- Acknowledge it within 5 working days of receipt.
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt.
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time.
- Provide a final response, in writing, at the latest within 40 working days of receipt.
- Liaise, at your request, with anyone acting formally on your behalf.

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):
Tel: 01722 333306, Website: www.tpos.co.uk, E-mail: admin@tpos.co.uk

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

Complaints should be sent to:

Mr M. Peace, Director, David Bellis Consulting Surveyors Ltd, 8 Mornington Terrace, Harrogate, North Yorkshire, HG1 5DH
Tel : 01423 529911 Fax : 01423 529922 Email : contact@coalsearch.plus.com

Date : 07 Nov 2019 Signed : 

Serial Number 416830

Important Consumer Protection Information

This search has been produced by David Beliis Consutling Surveyors Ltd, 8 Mornington Terrace, Harrogate, HG1 5DH (T: 01423 529911, F: 01423 529922, E: contact@coalsearch.plus.com) which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered firms maintain compliance with the Code.

The Search Code:

- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the United Kingdom
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practice and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

The Code's core principles

Firms which subscribe to the Search Code will:

- Display the Code logo prominently on their search reports.
- Act with integrity and carry out work with due skill, care and diligence.
- At all times maintain adequate and appropriate insurance to protect consumers.
- Conduct business in an honest, fair and professional manner.
- Handle complaints speedily and fairly.
- Ensure that all search services comply with industry registration rules and standards and relevant laws.
- Monitor their compliance with the Code.

Complaints

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Code.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.

TPOs Contact Details:

The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP
Tel: 01722 333306
Fax: 01722 332296
Website: www.tpos.co.uk
Email: admin@tpos.co.uk

You can get more information about the PCCB from www.propertycodes.org.uk.

PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE

Serial Number 416830

David Bellis Consulting Surveyors Ltd and CoalSearchPlus+ Terms and Conditions (Available in large print by request)

1. Definitions.
   a) The Service Provider is David Bellis Consulting Surveyors Ltd, trading as CoalSearchPlus+.
   b) The Applicant is the Individual, Organisation, or appointed officer of said Organisation placing a Request with the Service Provider.
   c) The Third Party Provider is any Organisation from which the Service Provider obtains data and/or information on behalf of the Applicant in the normal course of fulfilling the Applicants Request.
   d) The request is a formal Request by the Applicant with CoalSearchPlus+ to retrieve specific data and/or information.
2. CoalSearchPlus+ accept Requests only on the basis that the Applicant is acting as a principal and is directly liable for payment of our invoice or account.
3. It is the policy of CoalSearchPlus+ to observe confidentiality with regard to the identity and affairs of our customers to the extent permitted by law, but, in common with other service providers, we may be required exceptionally to disclose information to governmental and other public authorities.
4. The placing of a Request by the Applicant with CoalSearchPlus+ confirms acceptance of these terms and conditions.
5. Any Order Form produced by CoalSearchPlus+, either printed or published on the CoalSearchPlus+ website, is an invitation to treat. The Applicant makes an offer to buy from CoalSearchPlus+ by the submission of a Request, subject to clause 10. Acceptable modes of transmission for a Request are facsimilie (fax), telephone, electronic mail(e-mail), online transmission via the CoalSearchPlus+ website only, Document Exchange (DX), Royal Mail or courier appointed by the Applicant.
6. Orders will be accepted on order forms other than CoalSearchPlus+ forms however these will be accepted under the standard CoalSearchPlus+ terms and conditions only, subject to Clause 10.
7. CoalSearchPlus+ reserves the right to refuse any Request.
8. CoalSearchPlus+ reserves the right to cancel any Request at any time.
9. Proof of transmission of a Request by the Applicant does not constitute proof of receipt by CoalSearchPlus+.
10. It is the responsibility of the Applicant to ensure the accuracy, legibility, clarity and completeness of all data and/or information provided to CoalSearchPlus+ as part of the Request, including but not limited to, names, numbers, addresses, location plans, and boundary plans. This applies whether the Request is submitted on CoalSearchPlus+ order forms either printed or published on the CoalSearchPlus+ website or on the Applicants own order form.
11. CoalSearchPlus+ may request additional relevant data and/or information from the Applicant in the course of fulfilling a Request, including, but not limited to, names, numbers, addresses, location plans, and boundary plans.
12. CoalSearchPlus+ may request clarification of data and/or information supplied by the Applicant.
13. If, subsequent to Clause 11. and/or Clause 12., requested data and/or information is not provided and/or clarified, CoalSearchPlus+ cannot be held responsible for any resultant loss or delay.
14. If, subsequent to Clause 11. and/or Clause 12., requested data and/or information is not provided and/or clarified within a reasonable period of time, CoalSearchPlus+ reserves the right to cancel the Request in whole or in part. The Applicant remains liable for all fees, Taxes and Disbursements accrued prior to the cancellation.
15. CoalSearchPlus+ reserves the right to subcontract data and/or information retrieval to selected Organisations and/or Individuals. CoalSearchPlus+ is not required to reveal the identity of its Subcontractors.
16. CoalSearchPlus+ will, in the process of fulfilling the request, retrieve data and/or information from publicly and/or commercially available sources and the CoalSearchPlus+ mining database. The sources of data used will primarily be data held by The Coal Authority under an agreement with the Health and Safety Executive, data owned by the British Geological Survey and the CoalSearchPlus+ database.
17. A CoalSearchPlus+ mining report is a report of the interpretation of the data sources in 16. made by CoalSearchPlus+ staff.
18. CoalSearchPlus+ coal mining search reports are based upon the plans and records available from data sources detailed in 16. at the time the report was produced. It should be understood that third party organisations reserve the right to vary their proposals and intentions as to their future mining operations without prior notice save as provided in the Coal Mining Subsidence Act 1994. CoalSearchPlus+ cannot be held responsible for changes to the future proposals and intentions of Third Parties.
19. The information and/or material supplied in a CoalSearchPlus+ coal mining report is composed from data based, in many cases, on measurements and records of various standards of reliability and age. In some instances (usually relating to older records) it is necessary for CoalSearchPlus+ to make assumptions regarding the ‘best plot’ position of mining features. For these reasons users of CoalSearchPlus+ reports should take the position of mining features detailed in reports to be indicative only.
20. The data and/or information that a coal mining search report is based on is constantly being updated. A CoalSearchPlus+ coal mining search report is based on the most up to date information available at the time that the report is produced however it cannot be guaranteed that the information and/or data will not become obsolete at some time in the future. Responsibility for the supply of accurate and up to date information to CoalSearchPlus+ lies with the data supplying organisations listed in 16.
21. A CoalSearchPlus+ coal mining search report relates only to coal mining and minerals worked in relation to coal mining. Other reports may be required in relation to other minerals.
22. A CoalSearchPlus+ coal mining search report is not a substitute for site investigation or a mining survey. Depending on the content of a coal mining search report, or whether development is intended, the Applicant must decide whether a site investigation or mining survey is required.
23. CoalSearchPlus+ coal mining reports comply with the Search Code.

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24. All CoalSearchPlus+ reports are covered by professional indemnity insurance. The content of CoalSearchPlus+ coal mining search reports does not prevent any future claim being made by the Applicant against the Coal Authority in respect of coal mining related subsidence.
25. Any liability in the instance of negligence by CoalSearchPlus+ or its employees in the interpretation of coal mining data and/or the production and provision of coal mining reports will be limited to the extent of the CoalSearchPlus+ Professional Indemnity Insurance or the value of the loss caused by the negligence, whichever is the lower.
26. All CoalSearchPlus+ coal mining search reports give the information detailed in the services section of the CoalSearchPlus+ website and summarised in the report. Further explanation of this information is available in the Glossary and/or the Frequently Asked Questions areas of the CoalSearchPlus+ website. Alternatively contact CoalSearchPlus+ who will be happy to explain the content of a report.
27. The Request is fulfilled when all reports, data and/or information requested by the Applicant have been retrieved and/or compiled by CoalSearchPlus+ and delivered by electronic mail (e-mail) or fax or post or document exchange (DX) or a combination of these methods as required by the Applicant. Alternative delivery arrangements are at the discretion of CoalSearchPlus+.
28. If Requests for multiple reports, data and/or information relating to multiple addresses were made on a single order form these will be fulfilled individually by the delivery of the reports, data and/or information relating to each individual address being treated as an individual Request.
29. CoalSearchPlus+ is not responsible for any loss or misdelivery of retrieved data and/or information caused by failure of Document Exchange (DX), Royal Mail or internet service provider. Most retrieved data and/or information is archived by CoalSearchPlus+ and a copy may be requested by the Applicant. If the data and/or information could not be archived CoalSearchPlus+ reserves the right to treat the request as a new Request.
30. Delivery, by whatever agreed means, will be accompanied by an invoice. Delivery by electronic mail may be followed up with a paper invoice by post or DX. Where Applicants have agreed account facilities with CoalSearchPlus+ invoicing may be on a monthly basis. In all cases the Applicant agrees to provide CoalSearchPlus+ with remuneration for the full amount shown on the invoice, including all Fees, Taxes and Disbursements.
31. The Applicant will be liable for payment of the full invoice amount within 14 days from the date of receipt of the invoice. CoalSearchPlus+ reserve the right to charge for costs and expenses incurred in recovering late payments and to charge interest at the rate of 8% above the Bank of England base rate per annum for the full period that the payments are overdue.
32. Where full payment of the invoice is not made by the Applicant within 14 days from receipt of the invoice CoalsSearchPlus+ reserve the right to withdraw account facilities from the Applicant and cancel any individual agreements concerning fees or other Terms and Conditions that may have been made between the Applicant and CoalSearchPlus+.
33. Where possible the Applicant will receive Advance Notice of the cost of the Request, including all Fees, Taxes and Disbursements, prior to receipt of the invoice. This advance notice will take the form of the price for the service requested as published on the CoalSearchPlus+ website, or the price as individually agreed between CoalSearchPlus+ and the Applicant.
34. Additional Fees, Taxes and Disbursements may arise during the course of data and/or information retrieval, over and above Advance Notice costs as in clause 33. The Applicant is liable for any such additional costs. Where possible, the Applicant is notified of additional costs prior to fulfilment of the Request.
35. If the Applicant shall pay in advance of receipt of the invoice, then the Applicant remains liable for any underpayment.
36. Any overpayment on the part of the Applicant will be refunded. Arrangements for refunds are agreed on a case-by-case basis, through discussion between CoalSearchPlus+ and the Applicant.
37. The Applicant may cancel the Request in whole or in part at any time prior to Clause 27.
38. If the Applicant cancels the Request in whole or in part prior to Clause 27, the Applicant remains liable for all Fees, Taxes and Disbursements already accrued prior to the Cancellation.
39. CoalSearchPlus+ accept no liability for any loss incurred by the Applicant or the Applicants client where the Applicant is acting as an agent for a client, due to late fulfilment and delivery of the Request.
40. CoalSearchPlus+ accept no liability for any loss to the Applicant, or the Applicant's client where the Applicant is acting as an agent for a client, due to any negative outcome of a report provided in the process of the correct and accurate fulfilment of the Request.
41. Any disputes relating to the provision of coal mining search reports should be addressed to the Practice Principal, CoalSearchPlus+ in the first instance. Disputes will be settled according to the CoalSearchPlus+ complaints procedure detailed in each report.
42. Independent Dispute Resolution - If you make a complaint and we are unable to resolve it to your satisfaction you may refer the complaint to The Property Ombudsman scheme (website: www.tpos.co.uk email:admin@tpos.co.uk Tel: 01722 333306). We will cooperate fully with the Ombudsman during an investigation and comply with his final decision.
43. Third Party and subcontractor Terms and Conditions shall apply in addition to these clauses. Should any conflict arise between CoalSearchPlus+ Terms and Conditions and Third Party or Subcontractor Terms and Conditions, then CoalSearchPlus+ Terms and Conditions prevail unless and until CoalSearchPlus+ expressly states otherwise in writing and/or courts of England and Wales establish otherwise.
44. No variation to these Terms and Conditions is effective unless and until CoalSearchPlus+ expressly agrees in writing.
45. CoalsearchPlus+ reserves the right to alter these terms and conditions as appropriate, without notice, at any time. Such amended Terms and Conditions will become effective upon publication on the CoalSearchPlus+ website.
46. These Terms and conditions are subject to English Law and the exclusive jurisdiction of the courts of England and Wales.

Appendix E
Contamination Guidelines

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

UK BACKGROUND

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

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

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

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

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

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

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

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

PRELIMINARY CONCEPTUAL MODEL

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

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

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

PROBABILITY OF RISK BEING REALISED (C552 CIRIA, 2001)

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

RISK CLASSIFICATION MATRIX (C552 CIRIA, 2001)

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

HUMAN RECEPTORS

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

VEGETATION

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

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

GROUNDWATER AND SURFACE WATER RECEPTORS

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

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

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

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

DETAILED QUANTITATIVE RISK ASSESSMENT (DQRA)

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

WASTE ACCEPTANCE CRITERIA

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

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

CONSTRUCTION MATERIALS

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

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

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

REQUIREMENTS OF PARTIES WITHIN THE DEVELOPMENT PROCESS

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

RISKS & LIABILITIES FROM CONTAMINATION

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

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

Appendix F
Notes on Limitations

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

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

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

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

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

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

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

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

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

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