PHASE I PRELIMINARY CONTAMINATION RISK ASSESSMENT



PROPOSED RESIDENTIAL DEVELOPMENT LAND ADJACENT TO GALLOW LAW, ALWINTON, NORTHUMBERLAND, NE65 7BQ PREPARED FOR MR JOHN ROGERSON



QUALITY CONTROL

Project No.	GEOL20-9697	Client	Mr Joh	n Rogerson
Architect	Michael Rathbone Arch	itectural	& Surve	eying
Planning Ref.	20NP0015			
Report Type	Phase I Preliminary Con	taminati	on Risk	Assessment
Project Type	Proposed Residential De	evelopm	ent	
Site Address	Land adjacent to Gallow Law, Alwinton, Northumberland, NE65 7BQ			
NGR	437800, 345460			
Date	15/05/2020			
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Position	Director			
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Position	Director			

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REPORT REVISION HISTORY				
Issue	Description	Date	Author	Approval
1	Final Issue	15/05/2020	RS	TMc

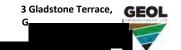


Phase I Preliminary Contamination Risk Assessment Land adjacent to Gallow Law, Alwinton, Northumberland, NE65 7BQ Project No.: GEOL20-9697

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1.0 INTRODUCTION

Geol Consultants Limited (GEOL) were instructed by Michael Rathbone Architectural & Surveying to undertake a Phase I Preliminary Contamination Risk Assessment on behalf of their client Mrs Susan Rogerson for a parcel of undeveloped land located adjacent to Gallow Law, in the Northumberland village of Alwinton. Proposals have been formulated to develop the site with 4 no. residential dwellings with private gardens and carparking infrastructure sometime soon.

The purpose of this report is to provide information relating to the following.

- ▼ Identify the environmental setting and likely ground conditions for the site, including details relating to the deeper geology, hydrogeology, hydrology, and mining
- ▼ Identify the sites previous development history, usage and activities with a view to determining any potential contaminants associated with the recorded site history and to assess the impacts from those contaminants towards the future site end-users (Human Health) and nearby sensitive receptors (Controlled Waters)
- ▼ Establish a preliminary Conceptual Site Model (CSM) and to identify all potential source, pathway, and receptor linkages
- ▼ Assess all potential sources of hazardous ground gas generation
- The Determine the scope of any further investigation works required for the site prior to commencing with any future development works

As part of this Phase I Preliminary Contamination Risk Assessment, a reconnaissance (walkover) survey was undertaken which involved an inspection of the site and immediate surrounding area. Site photographs taken during this survey can be seen in Appendix I and all relevant observations are noted in the Site Details & Description section on the following page.

A review of currently available information from the following data sources has been undertaken to assist in the completion of this technical report.

- Fitish Geological Survey (BGS); geological maps and historical borehole records, where available
- Landmark Information Group, Envirocheck Report; including Ordnance Survey (OS) maps
- The Coal Authority; Online Interactive Map Viewer and Consultants Coal Mining Report
- Environment Agency / GOV.UK
- **TRESET OF SET O**



2.0 SITE DETAILS & HISTORICAL MAP REVIEW

All relevant details and descriptions relating to the proposed development area (site) have been summarised in the Table below.

Detail	Description		
Site address	Land adjacent to Gallow Law, Alwinton, Northumberland, NE65 7BQ		
NGR	391950, 606280		
Approximate size	0.34 Ha		
Current site use	The site is currently undeveloped, comprising a grassed field / paddock		
Proposed site use	Proposals have been formulated to construct 4 no. new residential properties with private gardens and areas of carparking and driveways		
Surrounding land uses	The site is located within a residential setting with rural / agricultural land beyond the extent of Alwinton village		
Site topography	The site is generally flat, although the surrounding topography slopes in a westerly / southwesterly direction. A topographic spot height located adjacent to the site records a ground level of 157.9m AoD		
Additional comments	Specific details pertaining to live services beneath the site are not known at this stage. Prior to commencement of any future investigation or construction works, it would be prudent to undertake a utilities clearance and or mapping survey to ensure damage to utilities and other services is prevented		

Copies of OS maps covering the site and adjacent land are contained within the Landmark Information Group, Envirocheck Report included in Appendix II. The information contained within the summary Table below has been based on available OS maps and observations noted during the reconnaissance (walkover) survey completed.

Historical Map Review	Based on OS maps dating back to 1866 until the present day (2020) the site has remained undeveloped, comprising agricultural land. From as early as 1866 to at least 1895 some small building structures were recorded immediately adjacent to the northern boundary of the site. A Malt Barn was recorded to the northwest from as early as 1866 to at least
	1895. The village of Alwinton undergoes small phases of residential development from 1897 to circa 2002

No obvious sources of ground contamination have been identified during the reconnaissance (walkover) survey. This corroborates with the recorded site history, where no industrial activities have taken place on or close to the site. The site appears to have been used as agricultural land (pastoral) from as early as 1866 to the present day, and can effectively be considered as 'Greenfield'.



3.0 GROUND CONDITIONS

3.1 Site Geology

No made ground / fill deposits are recorded on site in accordance with published BGS maps (Sheet 5, The Cheviots, Solid and Drift Edition, 1:50,000 scale, dated 1976). Given the lack of any recorded development on the site, no made ground or disturbed deposits are anticipated, and the site can effectively be considered as 'Greenfield'.

The natural superficial deposits recorded below the site area, are initially shown to comprise Alluvial Deposits, consisting of variable deposits of clay, silt, sand, and gravel, in turn underlain by Glacial Till Deposits, which generally comprise firm and stiff, sandy gravelly clay with bands of sand, and occasional cobbles and boulders.

The underlying bedrock deposits (solid geology) are shown to consist of the Ballagan Formation of Carboniferous age, comprising alternations of grey mudstones, siltstones, and dolomitic limestones.

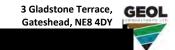
There are no nearby relevant, or available borehole record sheets available on the BGS GeoRecords Plus+ website to enable further estimation with respect to the expected ground conditions, or depths to rockhead.

3.2 Surface Mineral Extraction / Quarrying

Based on OS maps dating from as early as 1866 to 2020, there is no evidence of any significant mineral extraction within the boundary of the site or within proximity to the site (i.e. a lateral distance of 250m).

3.3 Coal Mining Risk Assessment (CMRA)

The Ballagan Formation is absent of productive coal seams. The site does not fall within a Coal Mining Reporting Area nor does the site fall within a designated Development High Risk Area (DHRA) in accordance with the Coal Authority Online Interactive Map Viewer. Therefore, the site is not deemed to be at risk from potential future surface instability issues arising from historic shallow coal mining activities and as a result no further assessment or intrusive investigation works are required. Similarly, there is no potential risk from mine gases impacting the site.



4.0 ENVIRONMENTAL SETTING

4.1 Hydrogeology

The Alluvial Deposits and the Ballagan Formation are both recorded as Secondary A Aquifers, with a low vulnerability classification. This Aquifer designation has been assigned where permeable layers are capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. The whole of the site is shown to lie out with any areas at risk from groundwater flooding.

The site is not recorded within a Source Protection Zone (SPZ) and there are no Water Abstractions recorded within 1km from the site boundaries.

4.2 Hydrology

The nearest surface water feature is recorded 12m south of the site, which appears to be a drain or small tributary of Hosedon Burn, located some 250m east flowing in a southerly direction. Hosedon Burn is a tributary of the River Alwin, which joins the River Coquet circa 525m to the south of the site.

The site lies within a Flood Zone 1, an area with a low probability of flooding with <1 in 1000 chance of fluvial flooding occurring (<0.1%), and therefore this site is unlikely to be at significant risk from future flooding. According to the GOV.UK Long Term Flood Risk Information Interactive Map, the whole of the site is shown to lie within an area at very low (<0.1%) risk of surface water flooding occurring.

4.3 Site Ecology

According to the Landmark Information Group, Envirocheck Report obtained for this site, the site is recorded to lie within the Northumberland National Park. A Site of Special Scientific Interest (SSSI), recorded as River Coquet and Coquet Valley Woodlands is recorded immediately adjacent to the site boundary, and therefore Natural England should be consulted as part of the planning process to obtain their comments. There are no other sensitive land uses recorded within 250m of the site.

From the reconnaissance (walkover) survey completed, a brief inspection was made of the vegetated areas of the site, to investigate the presence of any invasive plants, such as Japanese Knotweed and the like. No evidence of invasive plant species were noted during the site walkover. However, due to the seasonal nature of such plants, this does not preclude its potential presence and it is recommended that a vegetation survey is carried out at an appropriate time of the year prior to the site development works.



4.0 ENVIRONMENTAL SETTING (CONT'D)

4.4 Landfill & Waste

The Landmark Information Group, Envirocheck Report does not record any Historical or Registered Landfill Sites, Licensed Waste Management Facilities, Registered Waste Transfer, Treatment or Disposal located within 250m of the site boundary. Similarly, there is no historical evidence of any unrecorded waste deposition or made up / artificial ground.

4.5 Radon Assessment

The BRE Digest, BR211 (2015) Radon: Guidance on protective measures for new buildings, indicates the site to lie within a lightly shaded grid square (1km), indicating that basic radon protective measures would be required for new structures. However, according to the Landmark Information Group, Envirocheck Report the site lies in an intermediate probability radon area, where 1% to 3% of homes are estimated to be or above the action level, in accordance with data held by the BGS, and their assessment suggests that no radon protection measures are necessary in the construction of new dwellings or extensions.

Since there is a contradiction in the information obtained from the data sources mentioned above, a site-specific Radon Report has been obtained directly from the BGS to definitively determine the level of risk and protective measures required. The Radon Report (reference BGS_30878/11542), a copy of which is contained in Appendix III, confirms that no radon protection measures are required for the site.

Based on the available radon data available, the site does not fall within an area where radon protection measures are required.



5.0 REGULATORY DATABASE

The information given in the summary Table below has been obtained from a commercially available database and is contained within the Landmark Information Group, Envirocheck Report included in Appendix II. The summary Table below only includes records not otherwise detailed in the reports.

Data Type	0 – 250m	251 – 500m	Details
Contaminated Land Register Entries and Notices	0	0	None recorded
Discharge Consents	6	0	The nearest entries are associated with the Public Toilets recorded to the north of the site for the discharge of treated sewage / effluent to land / soakaways. The remaining entries are attributable to Northumbrian Water, also for sewage discharges, located circa 126m and 139m southeast and east of the site
Local Authority Pollution Prevention and Controls (LAPPC's)	0	0	None recorded
Pollution Incidents to Controlled Waters	2	0	Pollution Incidents recorded between 129m and 200m from the site and recorded as Category 3 – Minor Incidents
Substantiated Pollution Incident Register	0	0	None recorded
Prosecutions Relating to Authorised Processes	0	0	None recorded
Control of Major Accident Hazards Sites (COMAH)	0	0	None recorded
Explosive Sites	0	0	None recorded
Planning Hazardous Substance Consents	0	0	None recorded
Contemporary Trade Directory Entries (CTDE)	1	0	Meat wholesaler recorded 136m northeast, however this is now recorded as inactive
Fuel Station Entries	0	0	None recorded



6.0 CONTAMINATION RISK ASSESSMENT

The risks posed towards Human Health or environmental receptors (Controlled Waters) is based on an assessment of one or more source-pathway-receptor linkages. The source is any substance which has the potential to cause significant harm to a relevant receptor and the pathway is any route by which contamination may travel to impact on a receptor. The preliminary Conceptual Site Model (CSM) summarises the principal contaminant sources, pathways and receptors for this site and the likelihood of the existence of a pollutant linkage. The significance of the potential source-pathway-receptor linkages identified within the preliminary CSM can be assessed using the following criteria.

- 🔻 LOW risk not likely to cause significant harm to Human Health or Controlled Waters. Remedial measures are not likely to be required
- MEDIUM risk it is possible that significant harm to Human Health or Controlled Waters could occur depending on site specific circumstances. Remedial measures may be required to mitigate potential risks
- ▼ HIGH risk it is likely that significant harm to Human Health or Controlled Waters will occur unless appropriate remedial measures are incorporated into the development

Based on available OS maps the site has remained undeveloped from as early 1866 until the present day (May 2020), comprising agricultural land. The reconnaissance (walkover) survey confirmed no obvious evidence of any recent, unrecorded development on the site or change in activity from this time. The risk of significant contamination being present on this site is LOW based on the recorded site history / activity, and therefore with respect to soil contamination, there appears to be no plausible significant sources of ground contamination noted on this site based on the data sources reviewed.

The assessment for this site is based on an end-use of residential with homegrown produce, and the potential pollutant linkages pertaining to the site and the assessed significance are summarised in the preliminary CSM Table on the following page. A review of the sites history and environmental setting has identified no potentially contaminative activities to have taken place on the site itself, or within influencing distance off-site. The proposed development will not see a change in the overall site enduse. The CSM has been derived from the assessment of information gained from the preceding Preliminary Contamination Risk Assessment information. The model has been derived using a sourcepathway-receptor methodology to enable potential pollutant linkages to be identified, assessed, and ranked in terms of importance. As no significant contamination sources have been identified on site, or within the surrounding area that could impact the site, there are no source-pathway-receptor linkages that have been identified / realised.

In the absence of any recorded shallow coal mining activities, as well as the lack of any on-site or off-site sources, the risk of hazardous ground gases on this site and from off-site sources is considered a LOW risk, and as a result no further assessment or intrusive investigation works are required.



6.0 CONTAMINATION RISK ASSESSMENT (CONT'D)

All risks from contamination to Human Health and Controlled Waters are deemed to be LOW, and subject to written confirmation from Northumberland County Council, it is considered that further investigation of the site to include a ground contamination risk assessment is not required.

Potential source	Pathway	Receptor	Pollutant Linkage / Assessed Risk
	Dermal contact and ingestion / inhalation of contaminated soil and dust	Construction workers	LOW risk
	Air – Inhalation of vapours (indoor & outdoor)	and future end-users	LOW risk
This site appears to be effectively	Plant uptake, consumption of homegrown vegetables	End-users	LOW risk
Greenfield – natural topsoil	Migration through services	End-users	LOW risk
	Direct contact with building materials	Building materials (concrete)	LOW risk
	Surface run-off, vertical and lateral infiltration / leaching, and migration of mobile contaminants	Deep groundwater (Secondary A Aquifer)	LOW risk
	Contaminated soils	Flora and Fauna	LOW risk
Ground gas – no potential on-site or off-site sources identified	Asphyxiation, fire & explosion	End-users	LOW risk – no linkage available due to lack of sources
Radon	Carcinogenic	End-users	LOW risk



7.0 GEOTECHNICAL RISK ASSESSMENT

The shallow ground conditions below the site are expected to comprise grass surfacing & topsoil, in turn underlain by Alluvial Deposits, which typically comprise soft clays & silt, sand, and Glacial Till Deposits comprising firm and stiff, sandy gravelly clay. The anticipated ground profile for this site has been summarised in the Table below.

Strata type	Anticipated thickness	Groundwater	Comments
Made Ground Deposits	~	Not present	Made ground deposits are anticipated to be absent
Topsoil Deposits	Up to 0.50m	Not present	Topsoil deposits are anticipated to be present immediately below grass surfacing
Superficial Deposits; Alluvium & Glacial Till Deposits	Between 5.00m up to 10m	The deposits have been designated as a Secondary A Aquifer. A shallow continuous groundwater surface (water table) is not anticipated to be present within the deposits. Trapped pockets of water may however be present	Variable types of deposits are initially anticipated (Alluvium), before encountering Glacial Till Deposits. Pockets of trapped surface water may be present below some parts of the site, where very sandy, gravelly layers are present
Solid Geology; Ballagan Formation	>50.00m	Groundwater levels within this formation are expected to be present at depths >20m below site levels. This stratum has been designated as a Secondary A Aquifer	This formation comprises

A summary of the anticipated potential risks associated with the geotechnical issues and hazards identified for this site can be seen in the Table below and on the following page. The definitions for the allocated level of risk(s) are as follows.

- LOW risk unlikely to impact the proposed development
- ▼ MEDIUM risk may have a significant impact on the proposed development
- HIGH risk likely to have a significant impact on the proposed development

Issue or hazard	Level of potential risk	Comments
Made ground / fill	LOW risk	Made ground / fill deposits are not anticipated
Natural deposits	LOW to MEDIUM risk	The natural deposits below the site are anticipated to be initially variable (Alluvium), although shallow conventional strip foundations should be available for new structures

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Phase I Preliminary Contamination Risk Assessment Land adjacent to Gallow Law, Alwinton, Northumberland, NE65 7BQ Project No.: GEOL20-9697

7.0 GEOTECHNICAL RISK ASSESSMENT (CONT'D)

Issue or hazard	Level of potential risk	Comments
Relic sub-surface structures	LOW risk	Due to the lack of any historical development relic sub- surface structures are not anticipated below the site
Stability of excavations	LOW risk	The anticipated natural deposits, where excavated should remain stable within shallow / building related excavations, although excavations below 1.20m will require adequate trench support within building related excavations
Shallow groundwater	LOW risk	A shallow continuous groundwater surface is not anticipated to be present below the site area
Shallow coal workings	LOW risk	The site is not underlain by shallow coal-bearing stratum
Mine entries (shafts / adits)	LOW risk	There are no mine entries recorded on or within the site boundaries
Control of surface drainage	LOW to MEDIUM risk	Conventional SuDS are unlikely to be favourable for this site given the potential presence of variable deposits underlying the site, unless significant areas of sand and gravel layers are identified
Flooding	LOW risk	The site lies within Flood Zone 1

Based on the various data sources reviewed, the foundation options given in the Table below are likely to be available for the future residential properties. However, prior to the commencement of the proposed development, it is recommended that a programme of appropriate intrusive investigation work is carried out across the site to determine the ground conditions with more certainty, to confirm the foundation options which will be available for the proposed development.

Foundation type	Anticipated depth to bearing stratum	Maximum allowable bearing pressure	Comments
Strip foundations	Between 0.75m to 2.50m	Between 75kN/m² to 150kN/m²	Whilst variable natural ground conditions are anticipated, conventional strip foundations are likely to be available for most of the proposed residential structures, although these may have to be widened and reinforced to accommodate differential settlement where foundations potentially straddle different soil types (i.e. clay and sand). Foundations may also need to be deepened below some parts of the site, where soft clay and silt deposits are present. This may result in deep trench fill foundations being required for some new buildings



8.0 FURTHER RECOMMENDATIONS

It is recommended that appropriate site-specific investigation works forming a detailed Ground Investigation be completed for this site, prior to commencing with the proposed development to determine the actual ground conditions present below the site.

This investigation should include for the following, or similar exploratory work.

- A series of shallow percussion boreholes, including appropriate insitu geotechnical testing to help aid with future foundation designs for all new structures
- Appropriate geotechnical laboratory classification
- Production of a factual and interpretive Geotechnical Ground Investigation Report

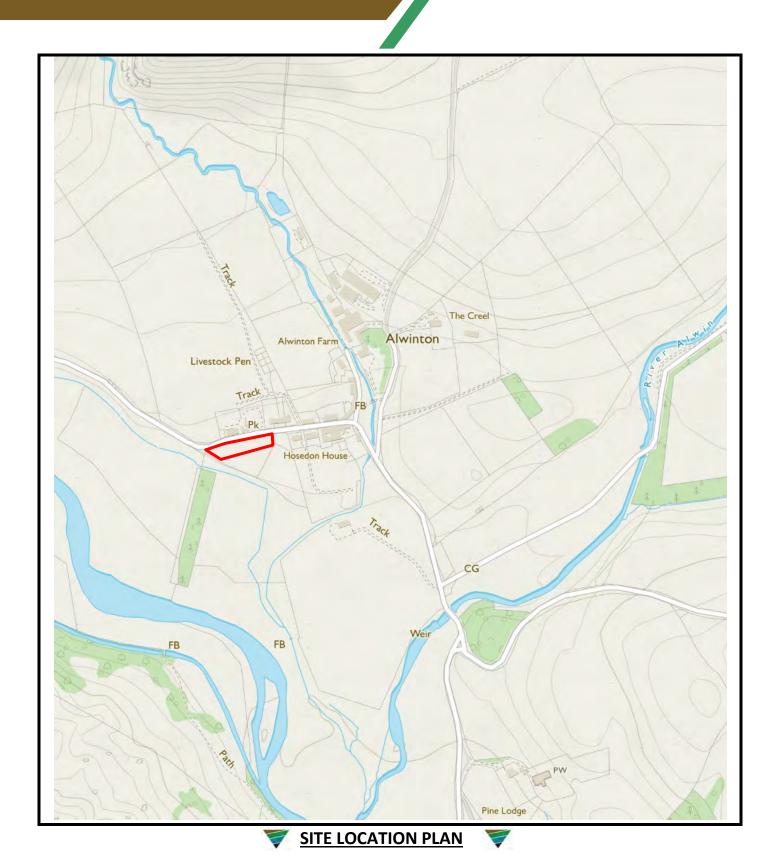
Prior to site investigation works commencing on site, all existing utilities / services should be identified and recorded, such that any potential damage to services crossing the site can be prevented, as well as ensuring the Health and Safety of all future site workers.

End of Report



APPENDIX I

SITE LOCATION PLAN AERIAL PHOTOGRAPH SITE PHOTOGRAPHS EXISTING SITE & PROPOSED DEVELOPMENT LAYOUT PLANS

















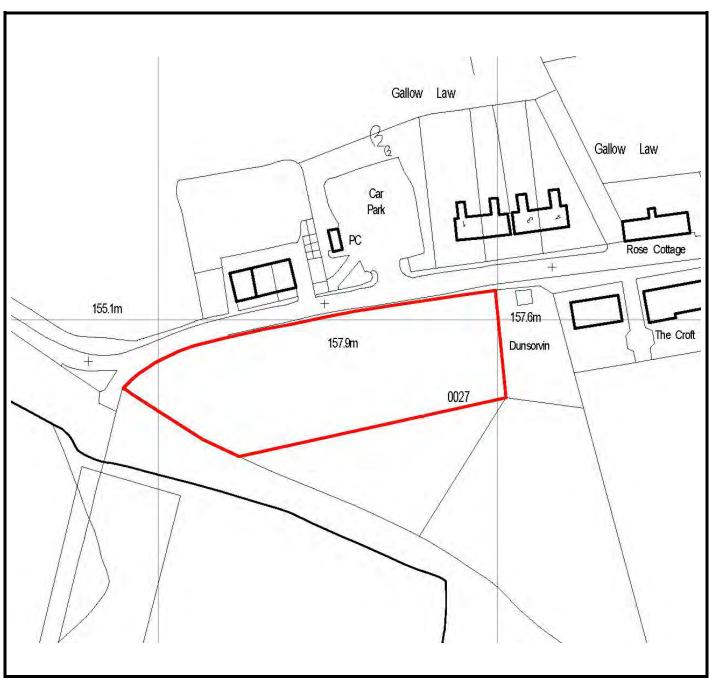






SITE PHOTOGRAPHS

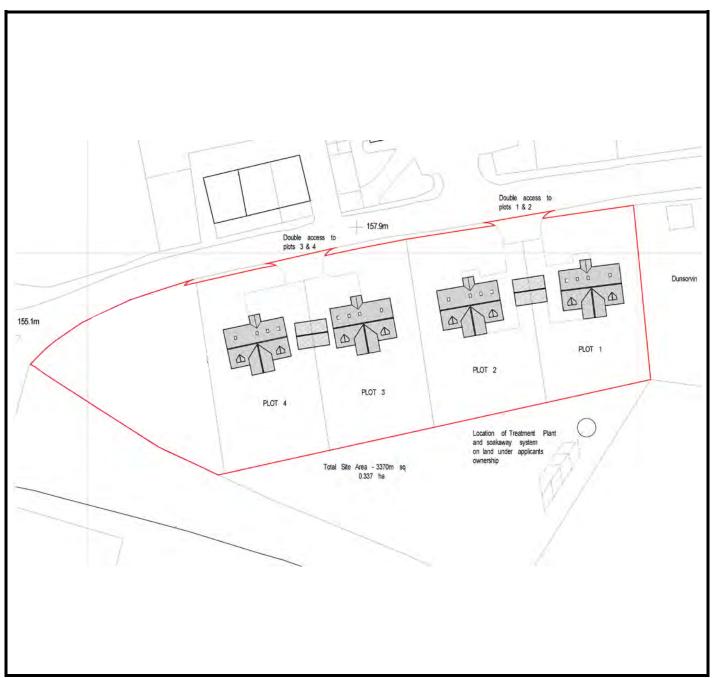






EXISTING SITE LAYOUT PLAN







PROPOSED DEVELOPMENT LAYOUT PLAN



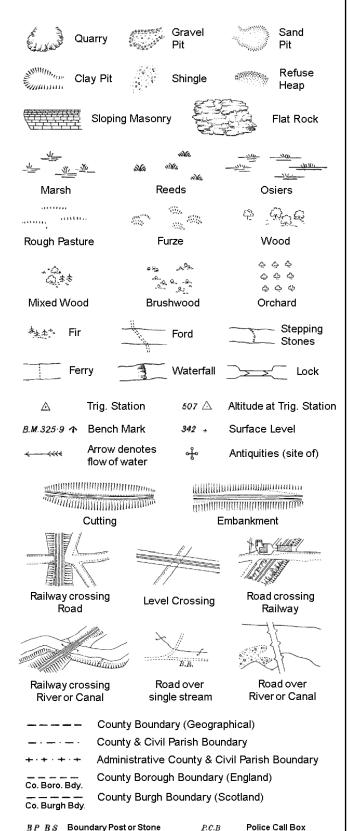
APPENDIX II

LANDMARK INFORMATION GROUP, ENVIROCHECK REPORT



Historical Mapping Legends

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



Pump

Sluice

Spring

Trough Well

Signal Post

Telephone Call Box

S.P

Sl.

Tr:

B.R.

EP

F.B.

M.S

Bridle Road

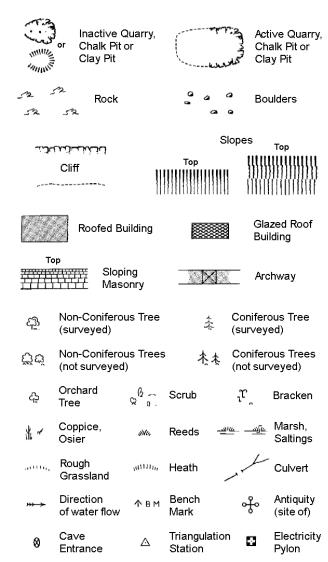
Foot Bridge

Mile Stone

M.P.M.R. Mooring Post or Ring

Electricity Pylor

Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 and **Supply of Unpublished Survey Information** 1:2,500 and 1:1,250



Electricity Transmission Line County Boundary (Geographical)

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

вн	Beer House	Р	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
EIP	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
Н	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	WrPt,WrT	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

1:1,250

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Bty	Battery		PO	Post Offi	
Cemy	Cemetery		PC	Public C	onvenience
Chy	Chimney		Pp	Pump	
Cis	Cistern	=	Ppg Sta	Pumping	
Dismtd R	•	tled Railway	PW	Place of	·
El Gen S	ta Electric Station	ity Generating	Sewage P		ewage umping Station
EIP	Electricity	Pole, Pillar	SB, S Br	Signal B	ox or Bridge
El Sub St	ta Electricity	Sub Station	SP, SL	Signal P	ost or Light
FB	Filter Bed		Spr	Spring	

Fn / D Fn Fountain / Drinking Ftn.

Gas Governer

Guide Post

Manhole

GVC

Gas Valve Compound

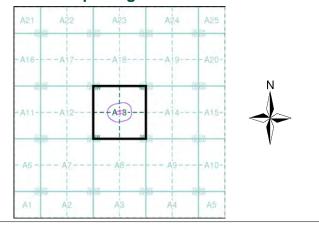
Mile Post or Mile Stone



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Northumberland	1:2,500	1895	2
Northumberland	1:2,500	1897	3
Northumberland	1:2,500	1923	4
Ordnance Survey Plan	1:2,500	1978	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment A13



Order Details

Order Number: 240874560_1_1 GEOL20-9697 Customer Ref: National Grid Reference: 391950, 606280 Slice: 0.34

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

Site Details

Tank or Track

Trough

Wind Pump

Wr Pt. Wr T Water Point, Water Tap

Works (building or area)

Tr

Wd Pp

Wks

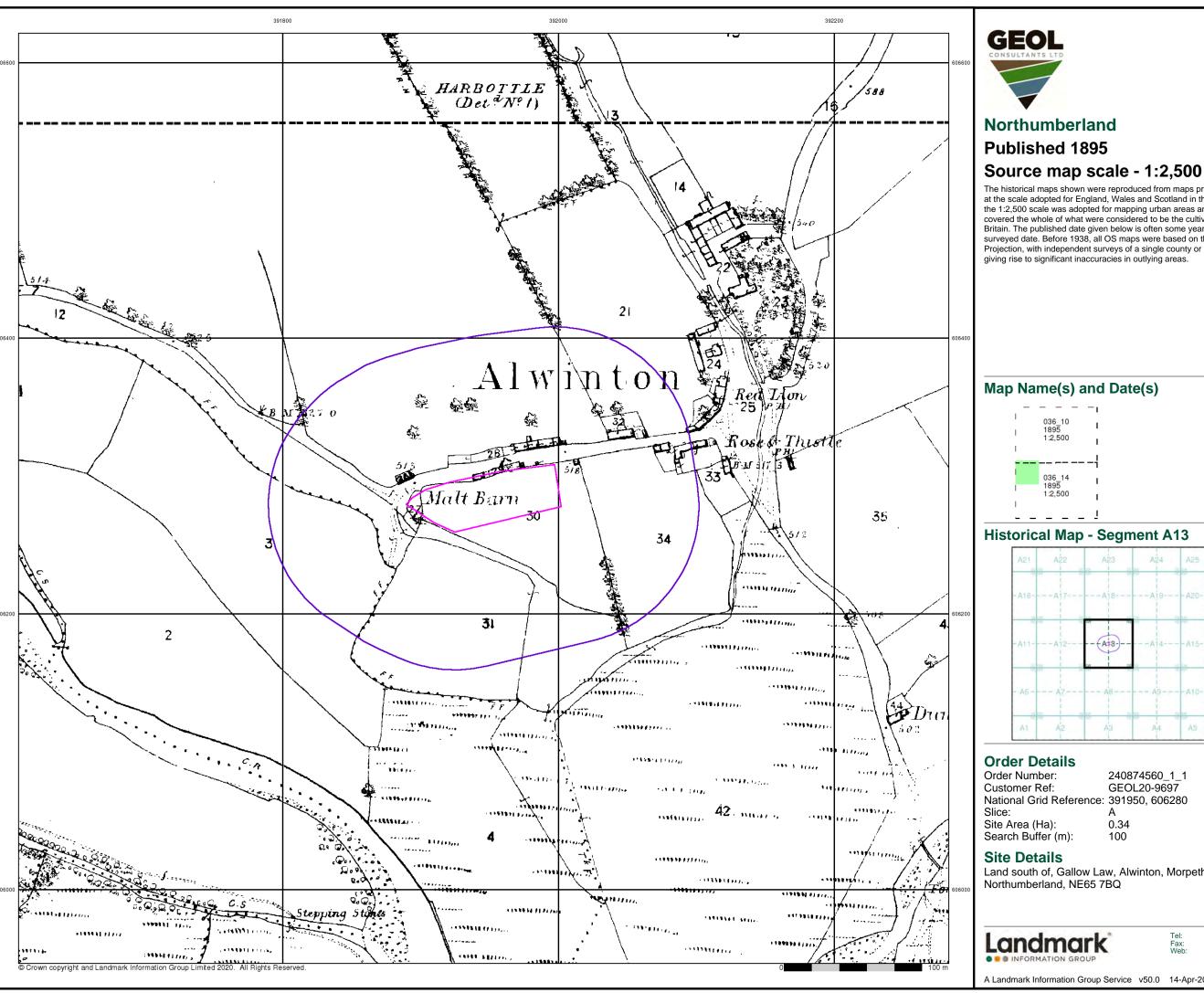
Land south of, Gallow Law, Alwinton, Morpeth, Northumberland, NE65 7BQ

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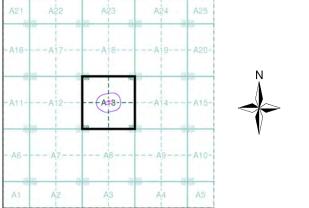
A Landmark Information Group Service v50.0 14-Apr-2020 Page 1 of 6



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

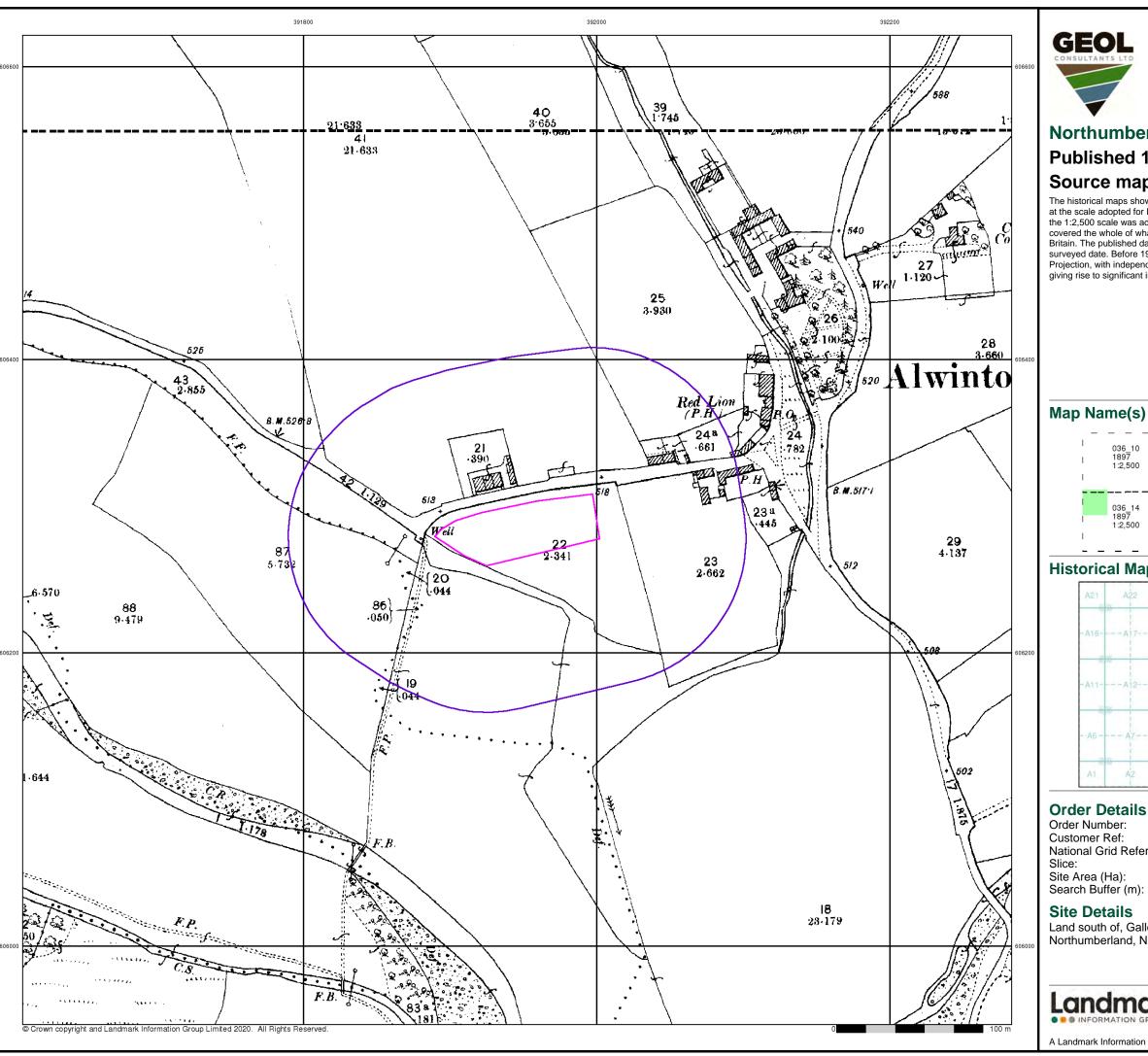


240874560_1_1 GEOL20-9697 National Grid Reference: 391950, 606280

Land south of, Gallow Law, Alwinton, Morpeth,

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A Landmark Information Group Service v50.0 14-Apr-2020 Page 2 of 6

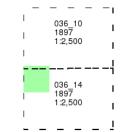




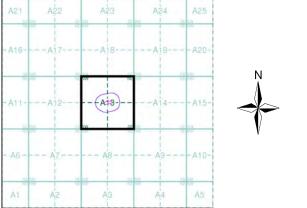
Published 1897 Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Number: 240874560_1_1 Customer Ref: GEOL20-9697 National Grid Reference: 391950, 606280

Site Area (Ha): Search Buffer (m): 0.34 100

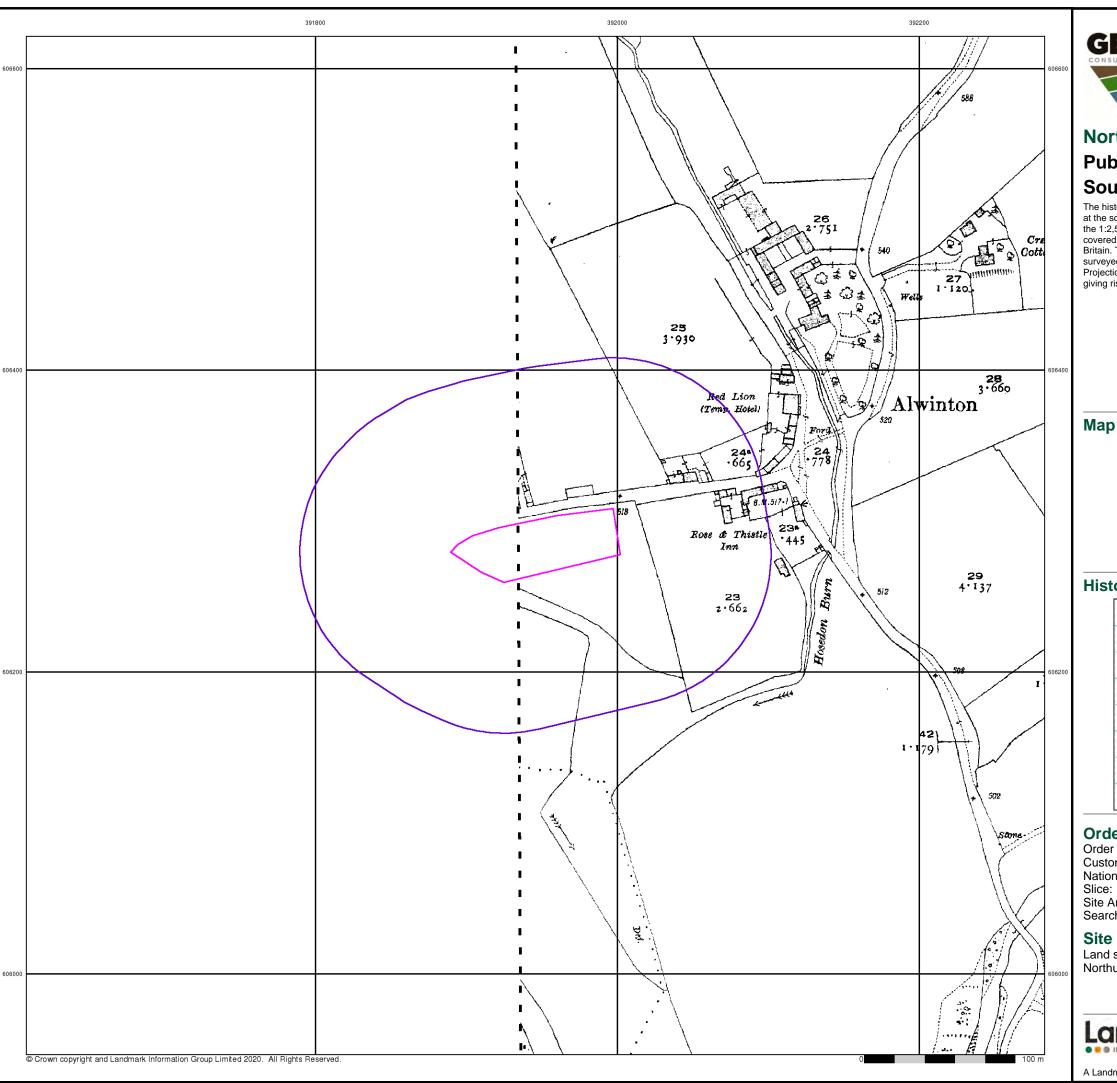
Site Details

Land south of, Gallow Law, Alwinton, Morpeth, Northumberland, NE65 7BQ

Landmark

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A Landmark Information Group Service v50.0 14-Apr-2020 Page 3 of 6



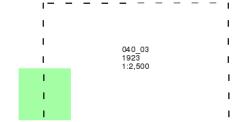


Published 1923

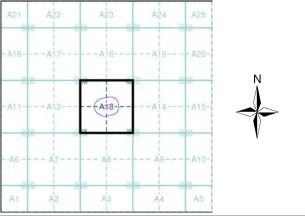
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 240874560_1_1 Customer Ref: GEOL20-9697 National Grid Reference: 391950, 606280

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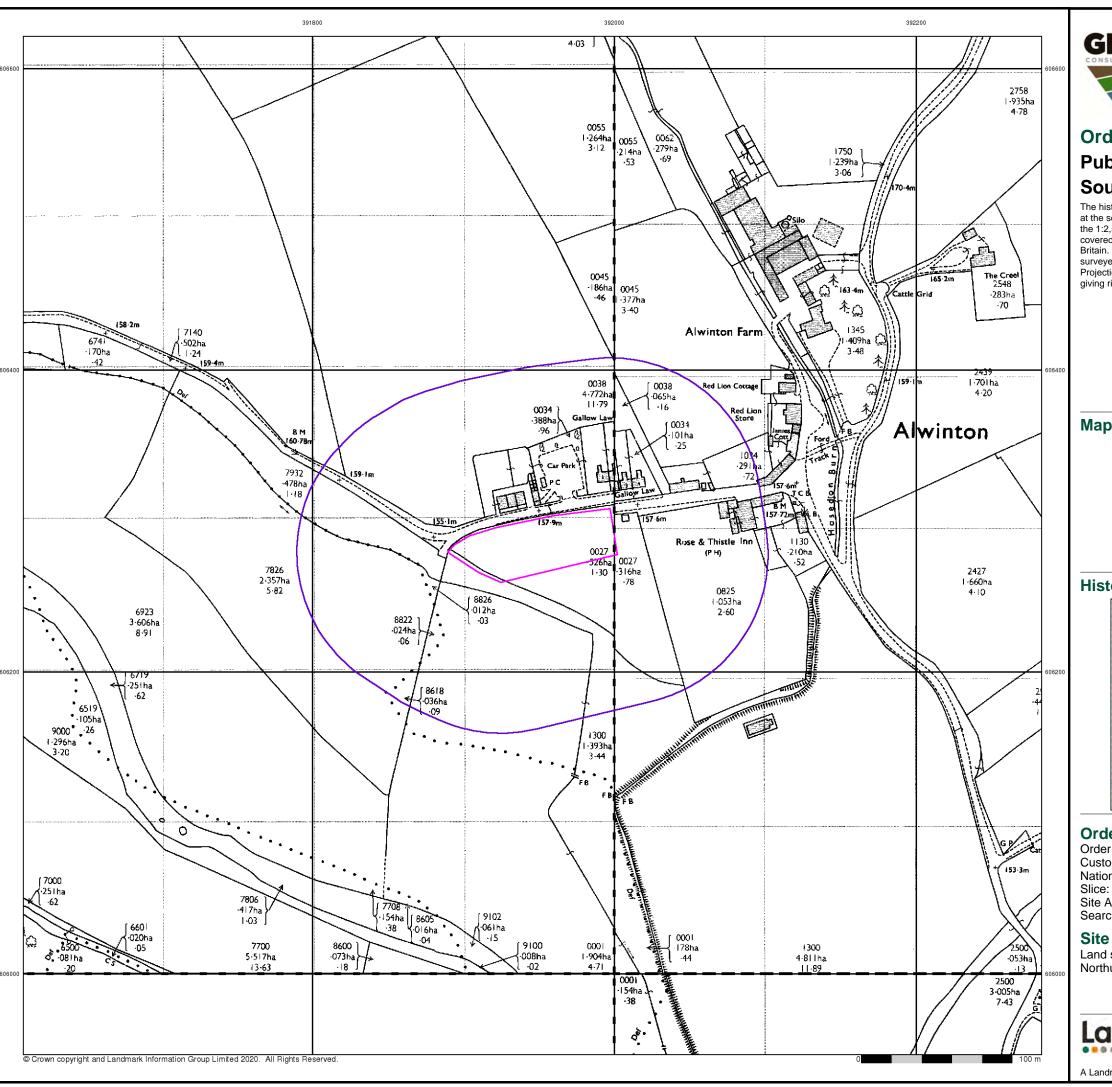
Site Details

Land south of, Gallow Law, Alwinton, Morpeth, Northumberland, NE65 7BQ

Landmark

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A Landmark Information Group Service v50.0 14-Apr-2020 Page 4 of 6





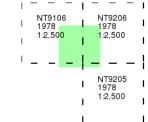
Ordnance Survey Plan

Published 1978

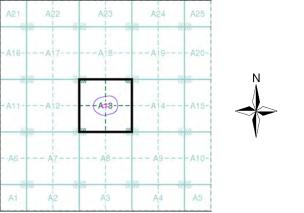
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Site Area (Ha): 0.34 Search Buffer (m): 100

Site Details

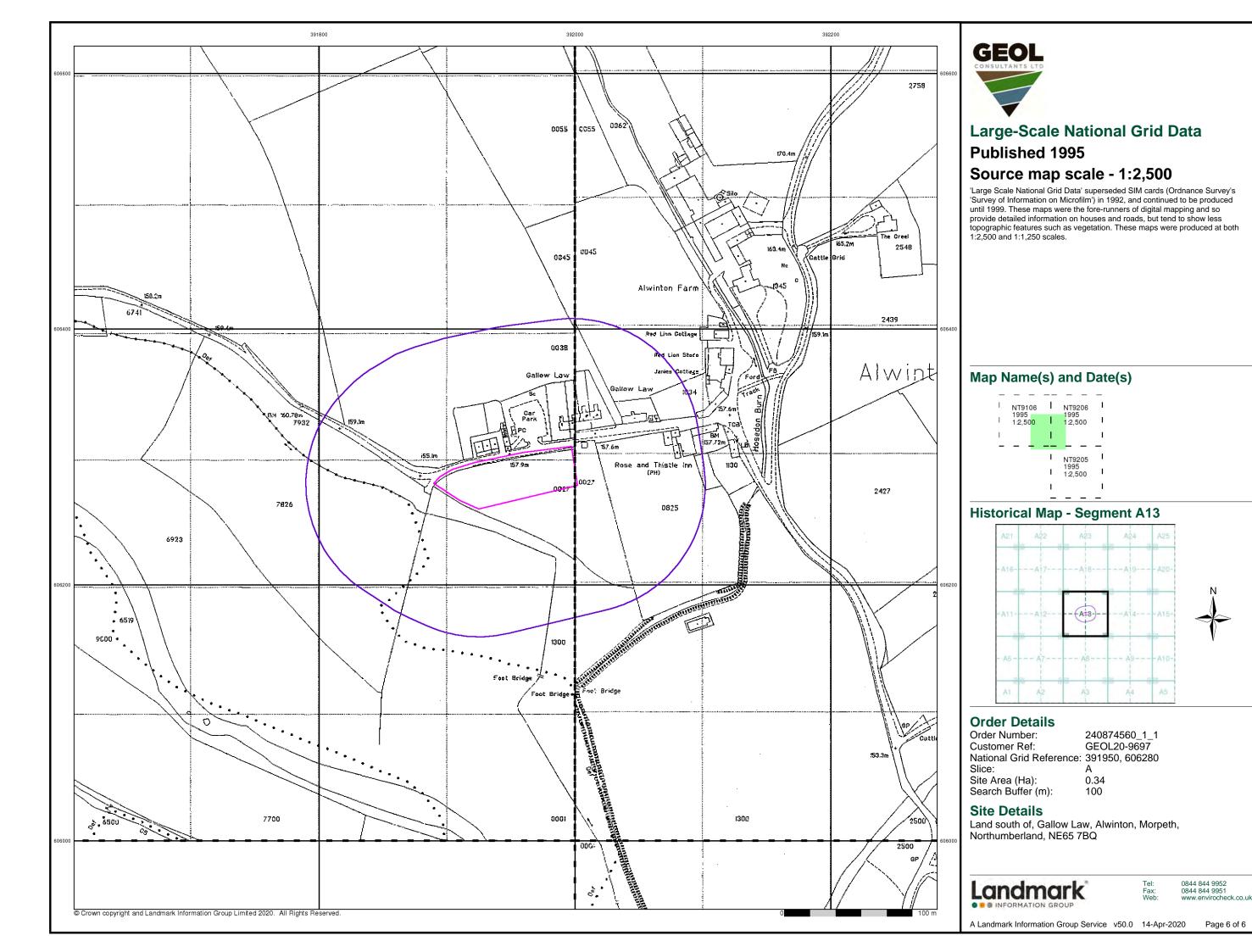
Land south of, Gallow Law, Alwinton, Morpeth, Northumberland, NE65 7BQ

Α



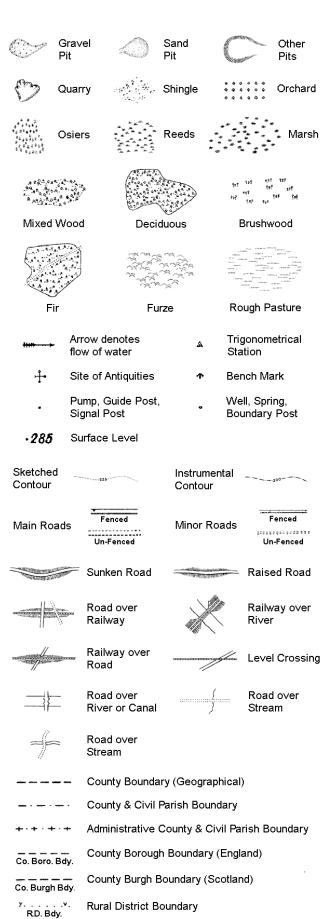
0844 844 9952 0844 844 9951 www.envirocheck.co.uk

A Landmark Information Group Service v50.0 14-Apr-2020 Page 5 of 6



Historical Mapping Legends

Ordnance Survey County Series 1:10,560



····· Civil Parish Boundary

Ordnance Survey Plan 1:10,000

		alk Pit, Clay Pit Quarry	000000	Gravel Pit
	Sar	nd Pit	(、 Disused Pit ✓ or Quarry
)	1.0	use or g Heap		Lake, Loch or Pond
	Dur	ies		Boulders
	弁 弁 ↑ Cor Tre	niferous es	444	Non-Coniferous Trees
	Ф Ф Orcha	rd No_	Scrub	∖Yn/ Coppice
	ជា Brack	en willing	Heath '	、 , , , , Rough Grassland
	— <u> </u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Reeds	그 <u>노</u> 소 Saltings
	Buildin		ion of Flow of	Shingle
	₩ Glassh	nouse	Pylon	Sand
	Slopin	g Masonry	Pole	ElectricityTransmissionLine
	Cutting		nt	
		Road Leve Over Crossi		⊨ Standard Gauge Single Track
			g Enage	Siding, Tramway or Mineral Line
,				→ Narrow Gauge
,		Geographical Cou	inty	
		Administrative Co or County of City	unty, County I	Borough
		Municipal Boroug Burgh or District (ural District,
		Borough, Burgh of Shown only when no		
		Civil Parish Shown alternately wi	nen coincidence	of boundaries occurs
		y Post or Stone		Police Station
	Ch Church			Post Office
	CH Club Ho			Public Convenience
	_	ne Station		Public House
	FB Foot Brid	_		Signal Box
	Fn Fountair		Spr	Spring
	00 0000	-4		Talambana Oall Dan

TCB

TCP

Guide Post

Mile Post

Telephone Call Box

Telephone Call Post

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
۵ ⁰ **	Area of wooded vegetation	۵ ^۵	Non-coniferous trees
\Diamond	Non-coniferous trees (scattered)	**	Coniferous trees
* *	Coniferous trees (scattered)	Ö	Positioned tree
4 4 4 4	Orchard	* *	Coppice or Osiers
aTa aTa	Rough Grassland	www.	Heath
On_	Scrub	7 <u>√</u> /۲	Marsh, Salt Marsh or Reeds
5	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)	Δ	Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stac or lighting tower
•‡•	Site of (antiquity)		Glasshouse
	General Building		Important

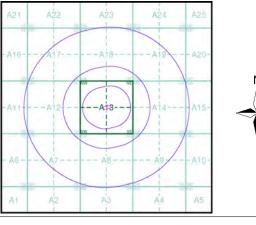
Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Northumberland	1:10,560	1866	2
Northumberland	1:10,560	1899	3
Northumberland	1:10,560	1925	4
Northumberland	1:10,560	1925	5
Ordnance Survey Plan	1:10,000	1957	6
Ordnance Survey Plan	1:10,000	1979	7
Ordnance Survey Plan	1:10,000	1981	8
10K Raster Mapping	1:10,000	2000	9
Street View	Variable		10

Historical Map - Slice A



Order Details

Order Number: 240874560_1_1
Customer Ref: GEOL20-9697
National Grid Reference: 391950, 606280
Slice: A

Slice: Site Area

Site Area (Ha): 0.34 Search Buffer (m): 1000

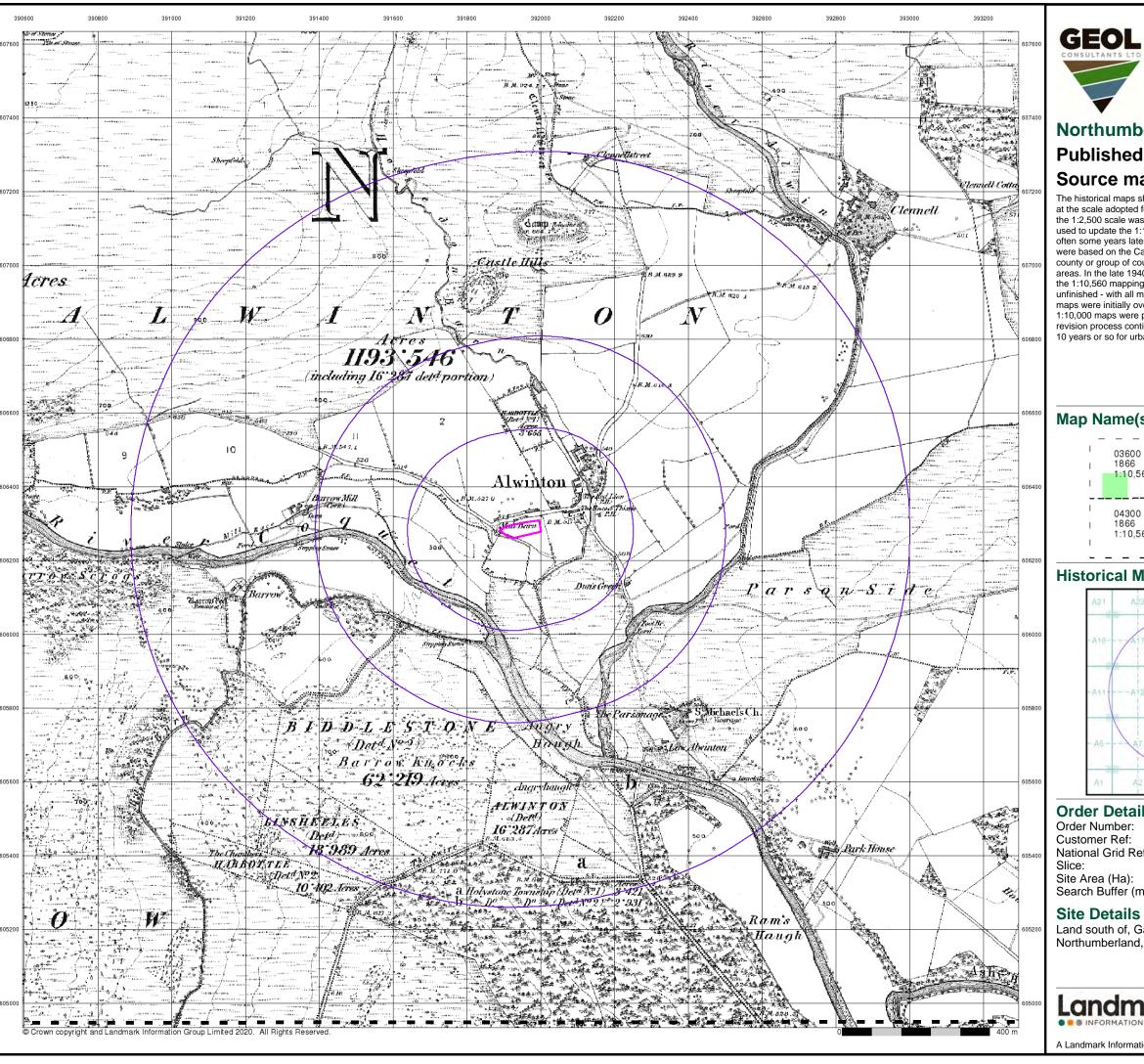
Site Details

Land south of, Gallow Law, Alwinton, Morpeth, Northumberland, NE65 7BQ



el: 0844 844 9952 ax: 0844 844 9951 eb: www.envirocheck.co.uk

A Landmark Information Group Service v50.0 14-Apr-2020 Page 1 of 10

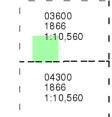




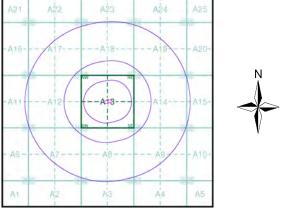
Published 1866 Source map scale - 1:10,560

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

240874560_1_1 Customer Ref: GEOL20-9697 National Grid Reference: 391950, 606280

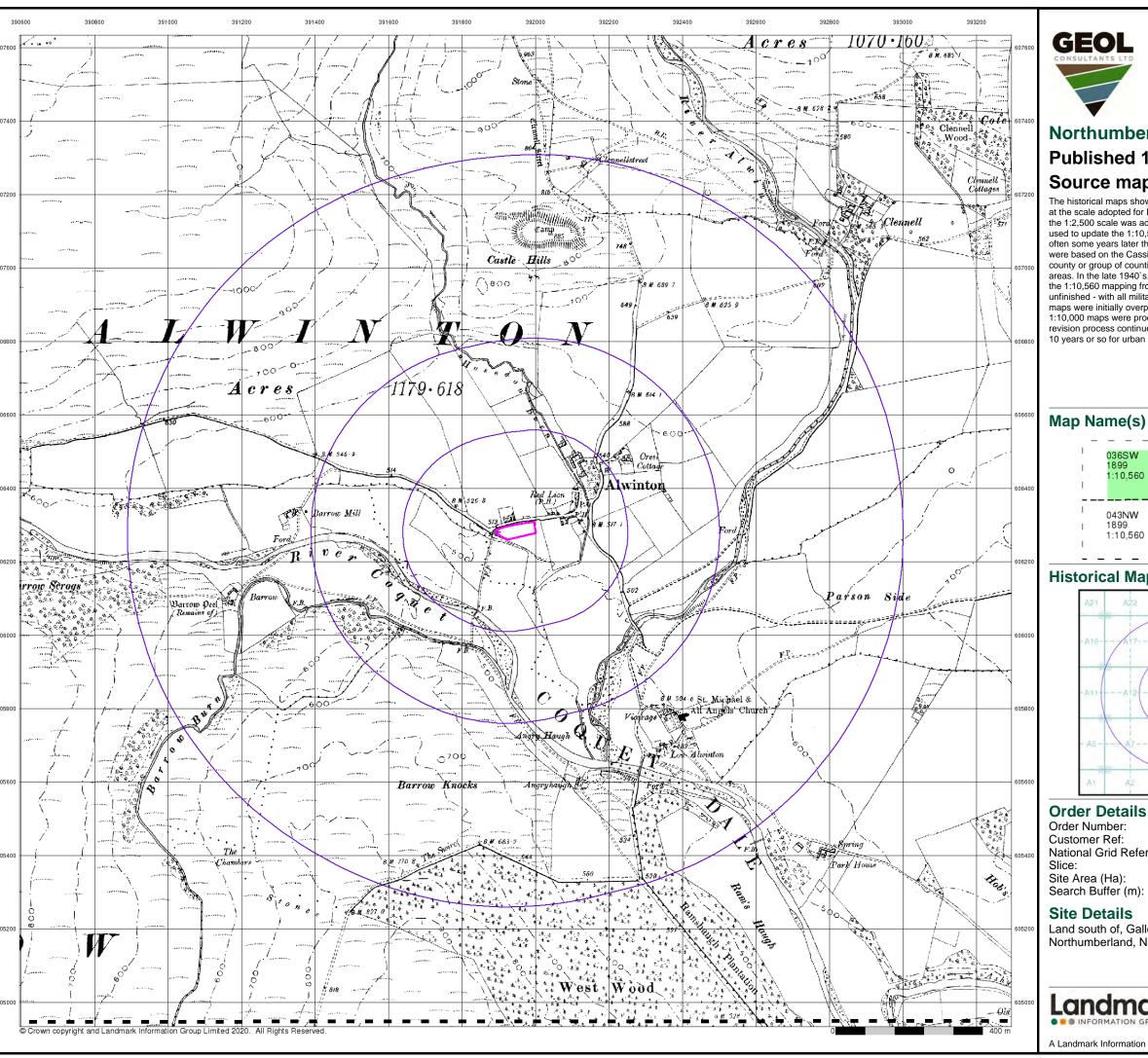
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Land south of, Gallow Law, Alwinton, Morpeth, Northumberland, NE65 7BQ



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A Landmark Information Group Service v50.0 14-Apr-2020 Page 2 of 10

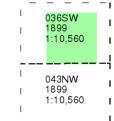


Published 1899

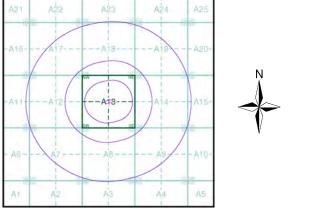
Source map scale - 1:10,560

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



240874560_1_1 GEOL20-9697 National Grid Reference: 391950, 606280

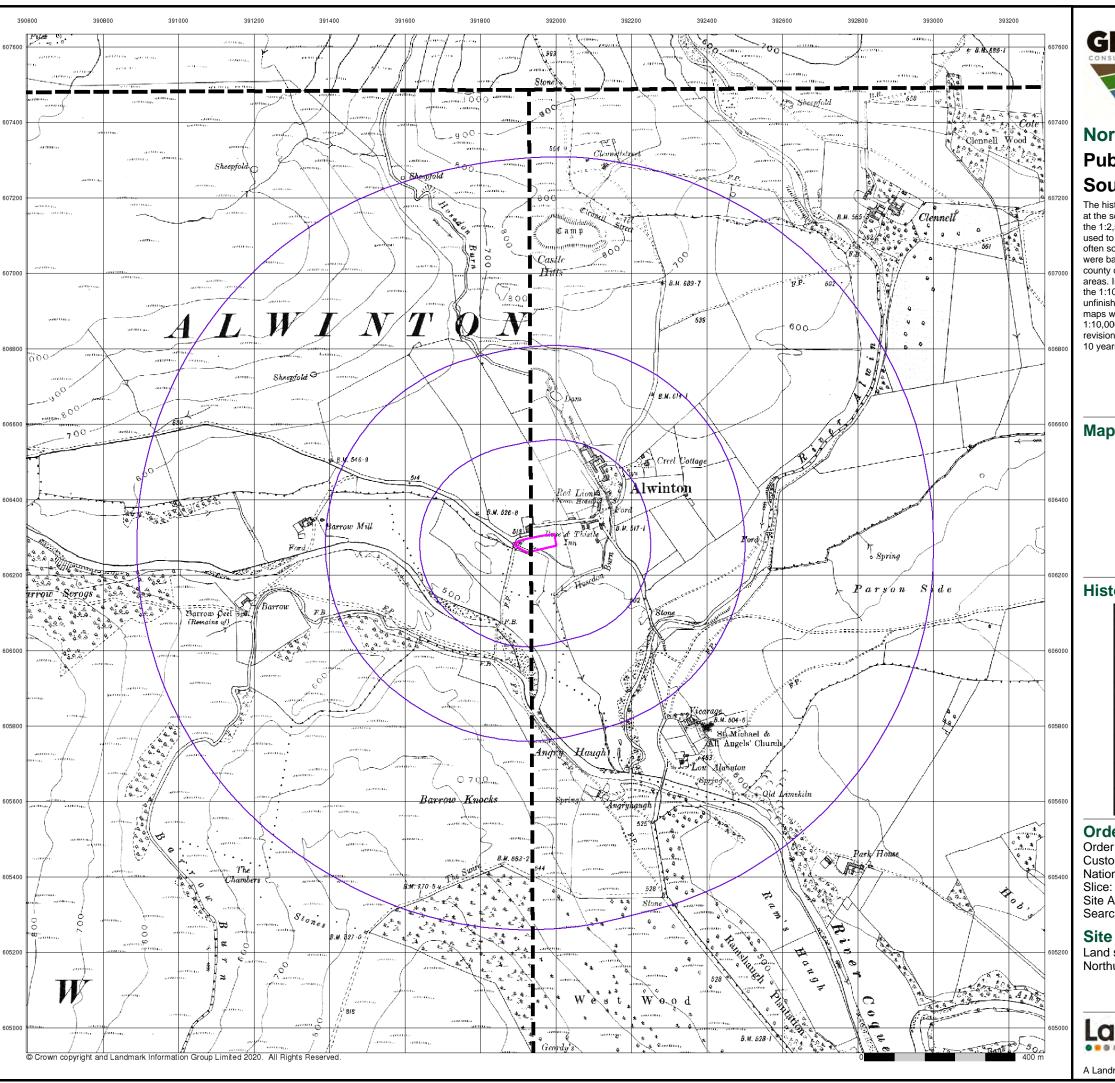
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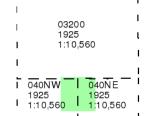


Published 1925

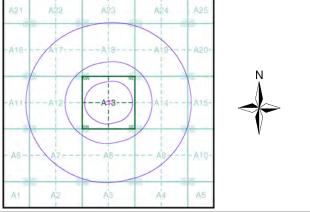
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

240874560_1_1 Order Number: Customer Ref: GEOL20-9697 National Grid Reference: 391950, 606280

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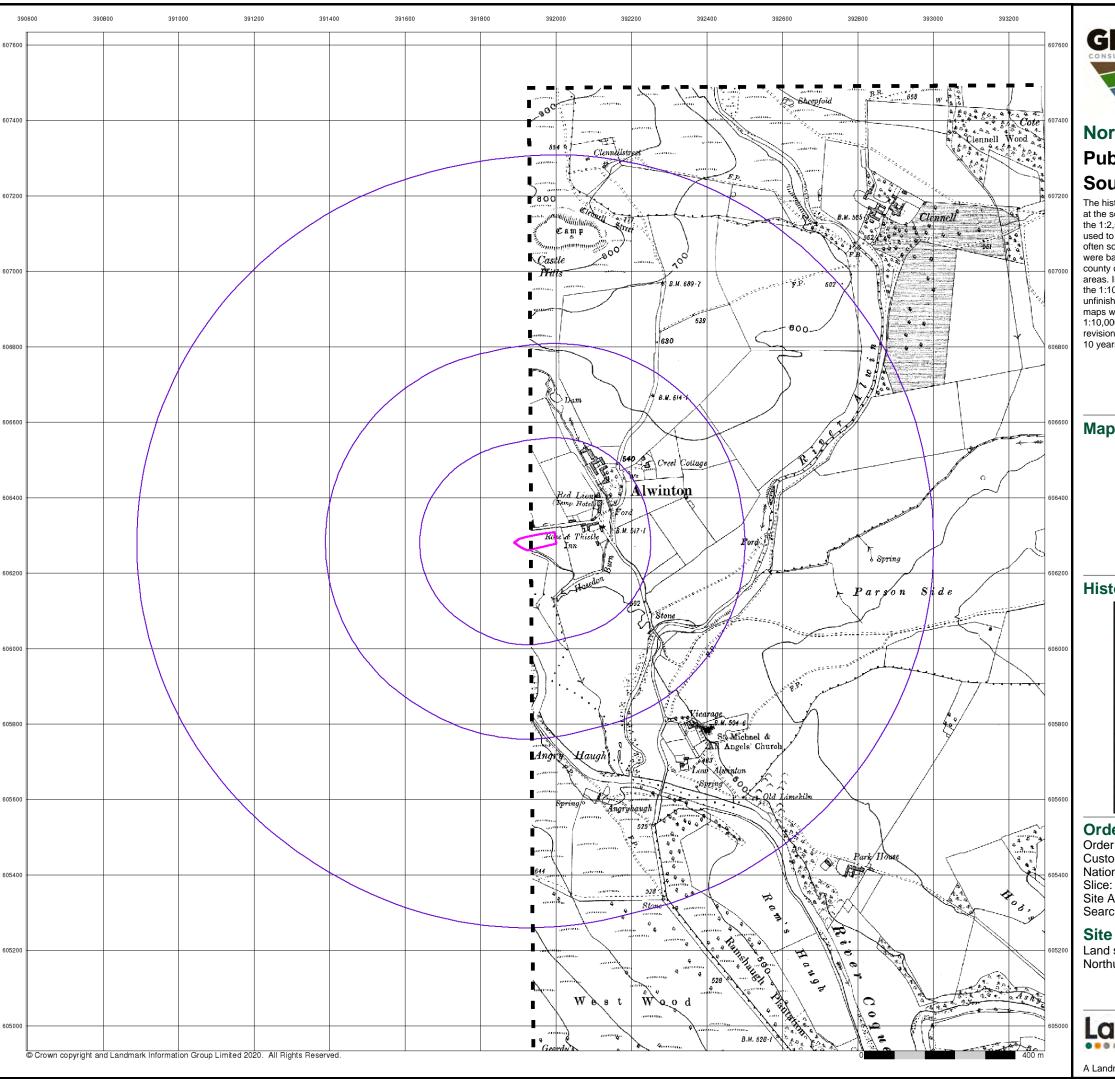
Site Details

Land south of, Gallow Law, Alwinton, Morpeth, Northumberland, NE65 7BQ



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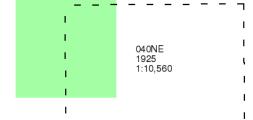


Published 1925

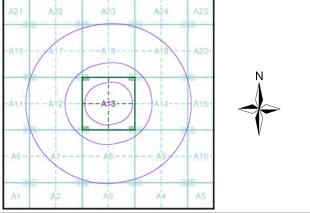
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

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Historical Map - Slice A



Order Details

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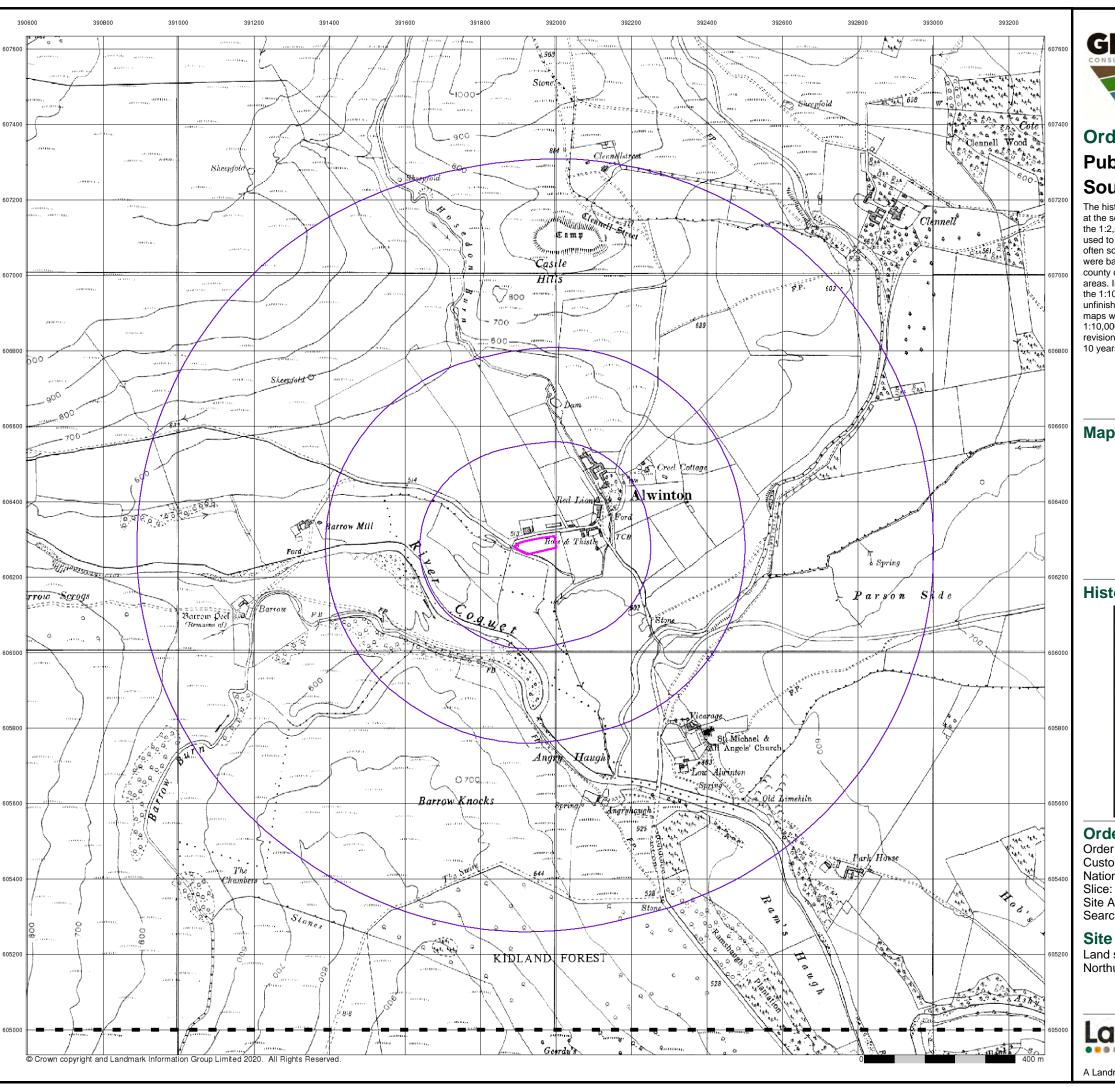
Site Details

Land south of, Gallow Law, Alwinton, Morpeth, Northumberland, NE65 7BQ



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A Landmark Information Group Service v50.0 14-Apr-2020 Page 5 of 10





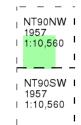
Ordnance Survey Plan

Published 1957

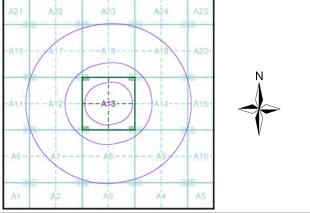
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

240874560_1_1 Order Number: Customer Ref: GEOL20-9697 National Grid Reference: 391950, 606280

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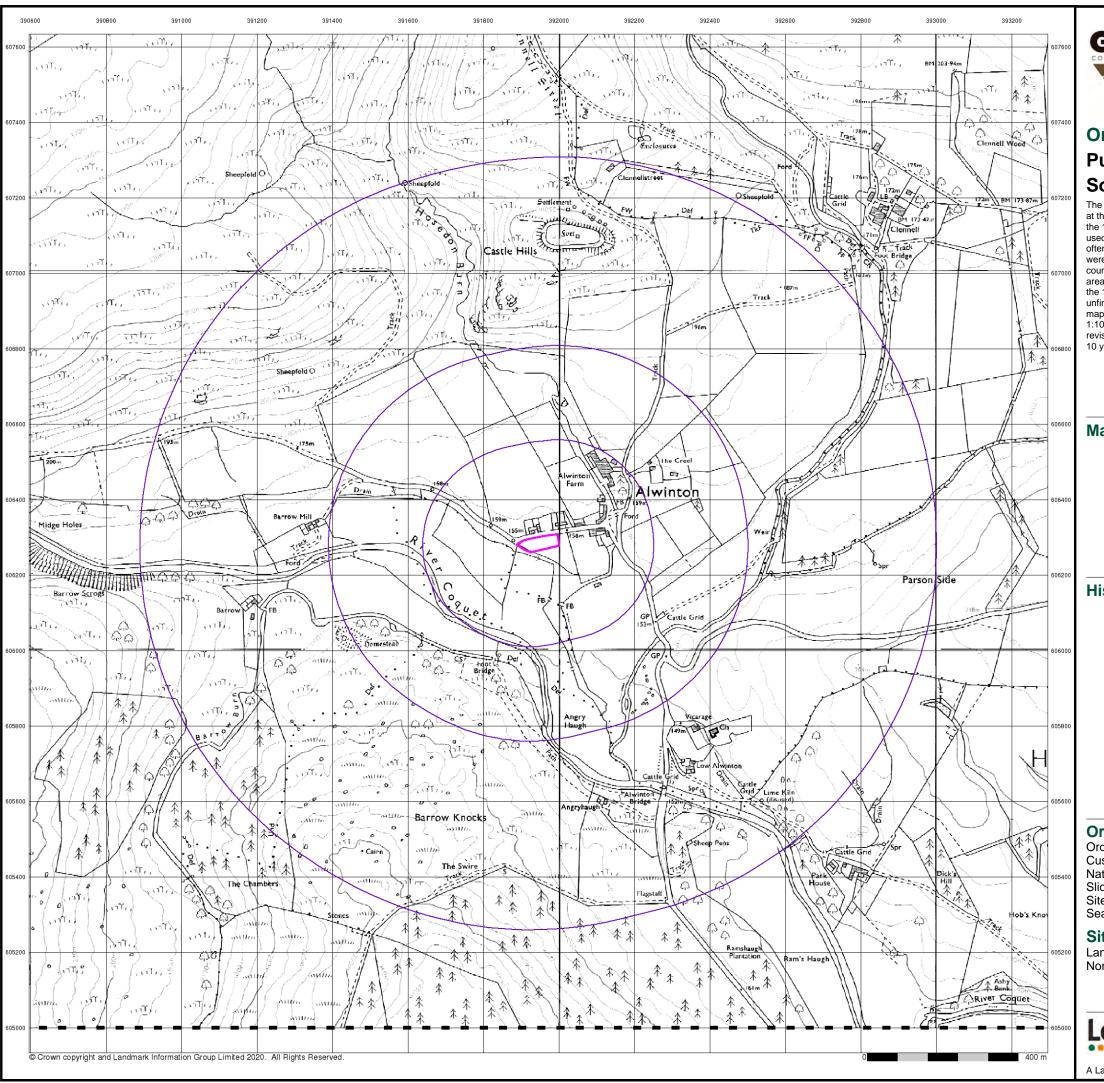
Site Details

Land south of, Gallow Law, Alwinton, Morpeth, Northumberland, NE65 7BQ



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A Landmark Information Group Service v50.0 14-Apr-2020 Page 6 of 10





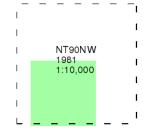
Ordnance Survey Plan

Published 1981

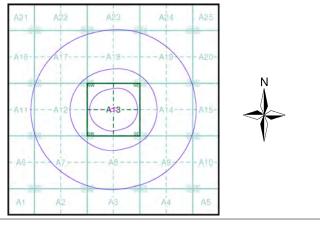
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 240874560_1_1
Customer Ref: GEOL20-9697
National Grid Reference: 391950, 606280

Slice:

Site Area (Ha): 0.34 Search Buffer (m): 1000

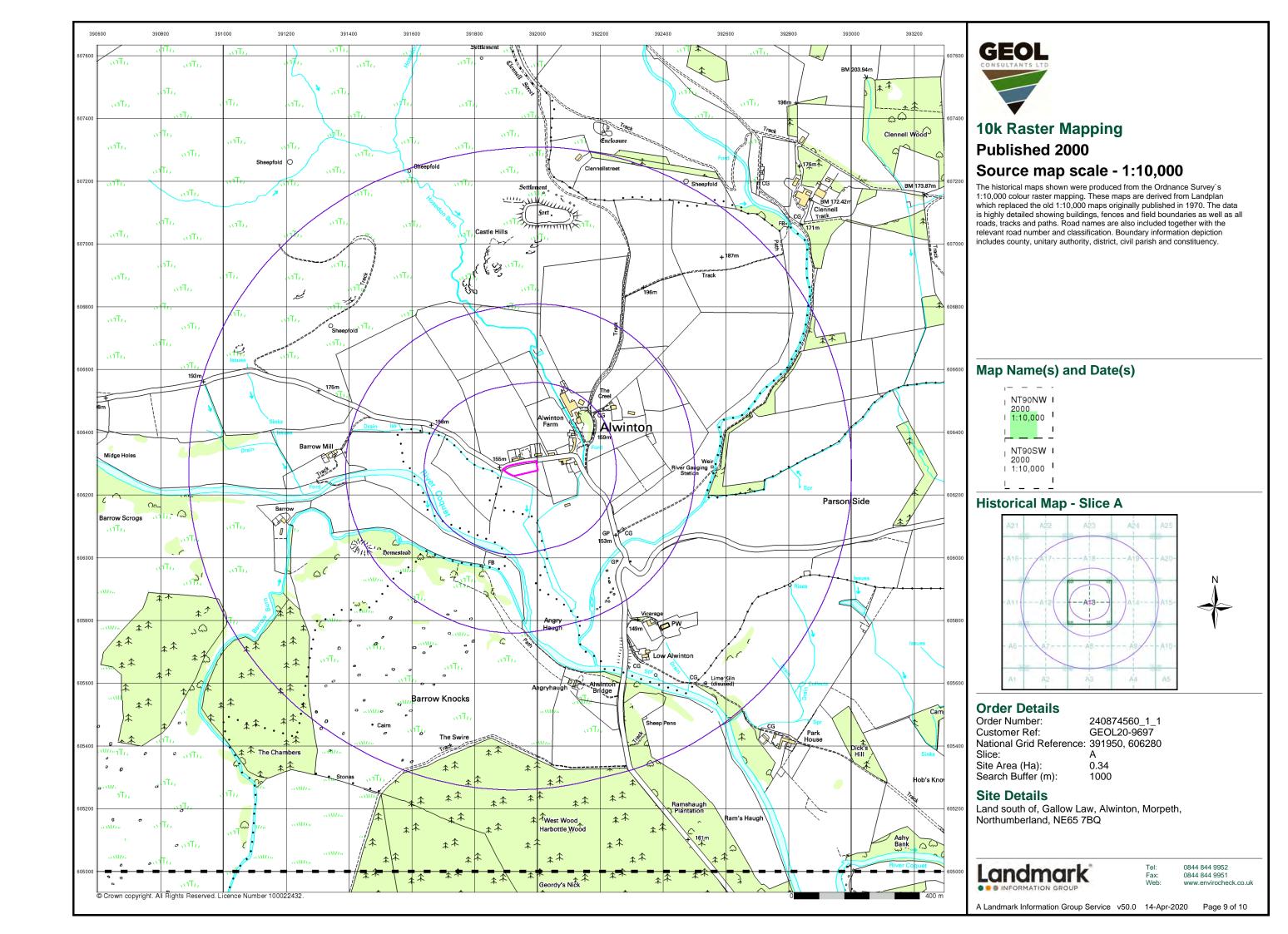
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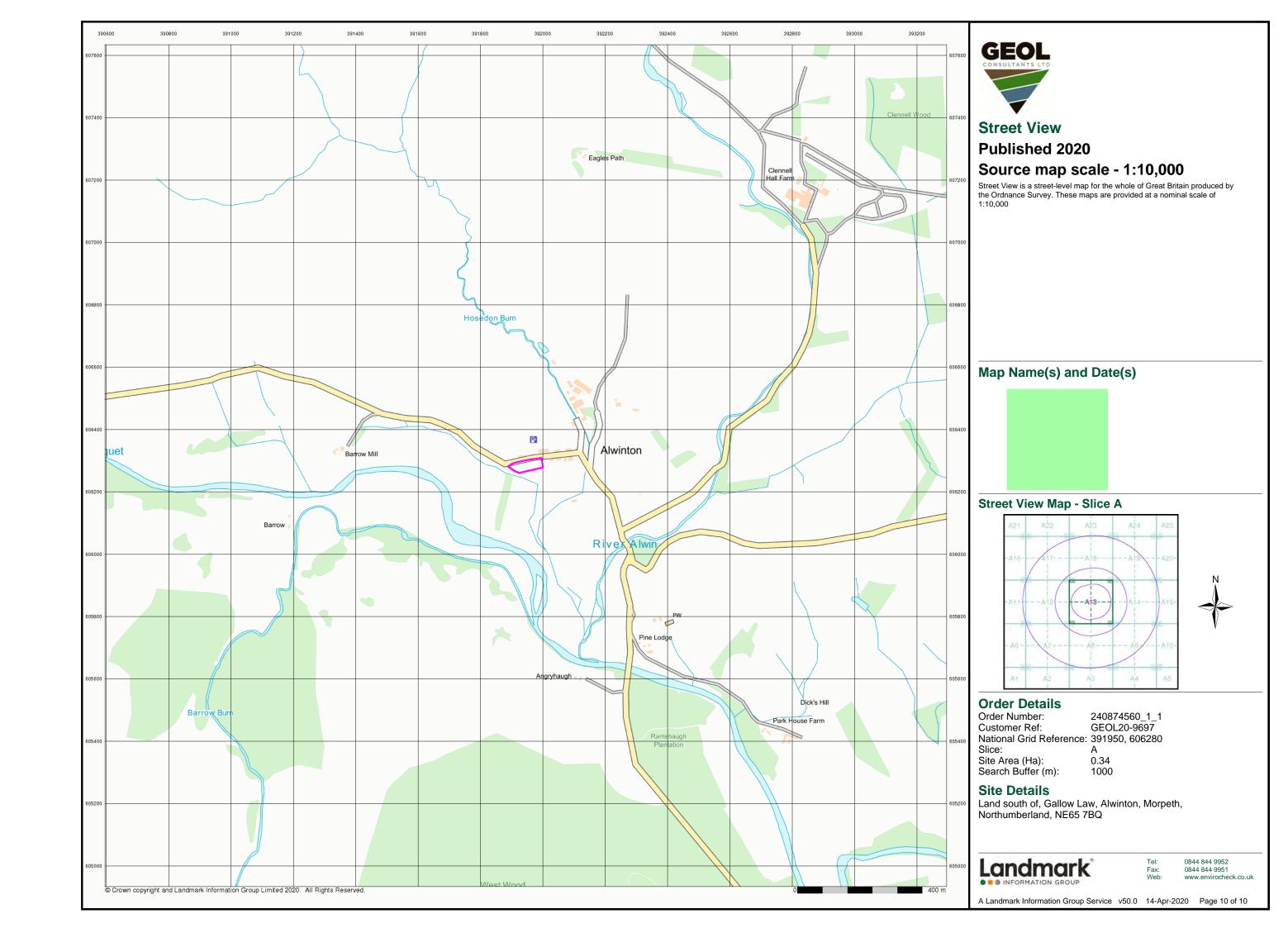
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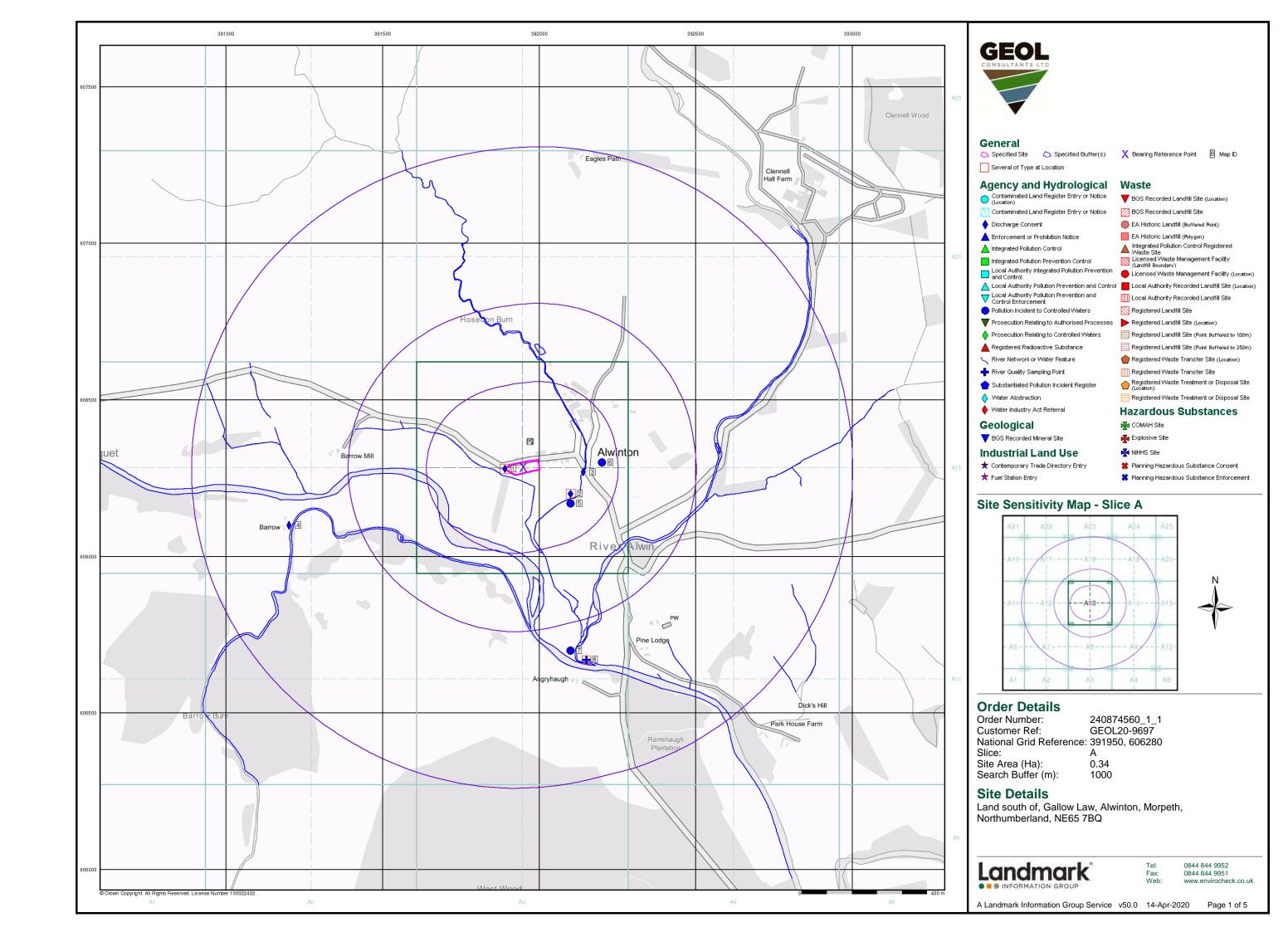


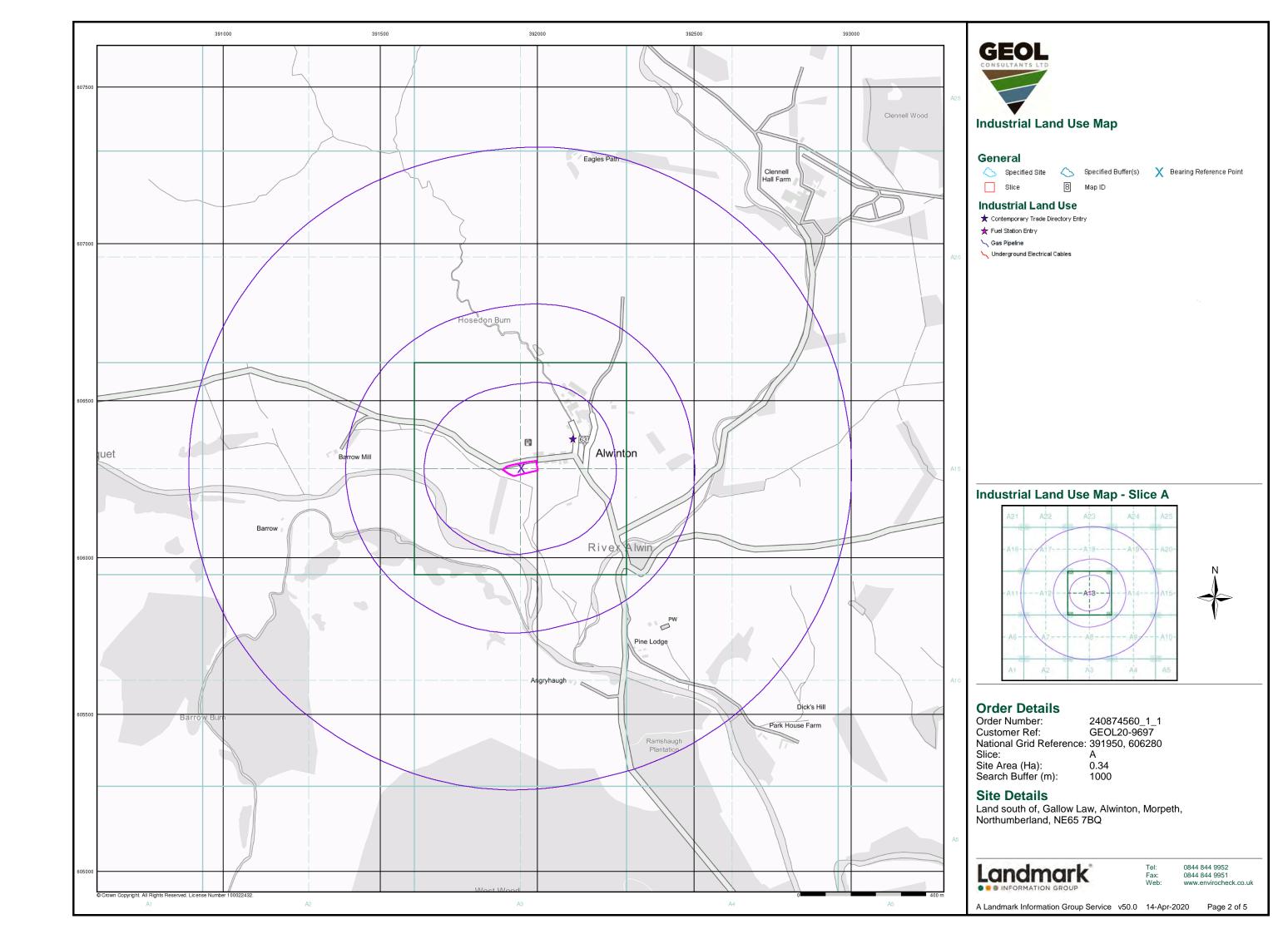
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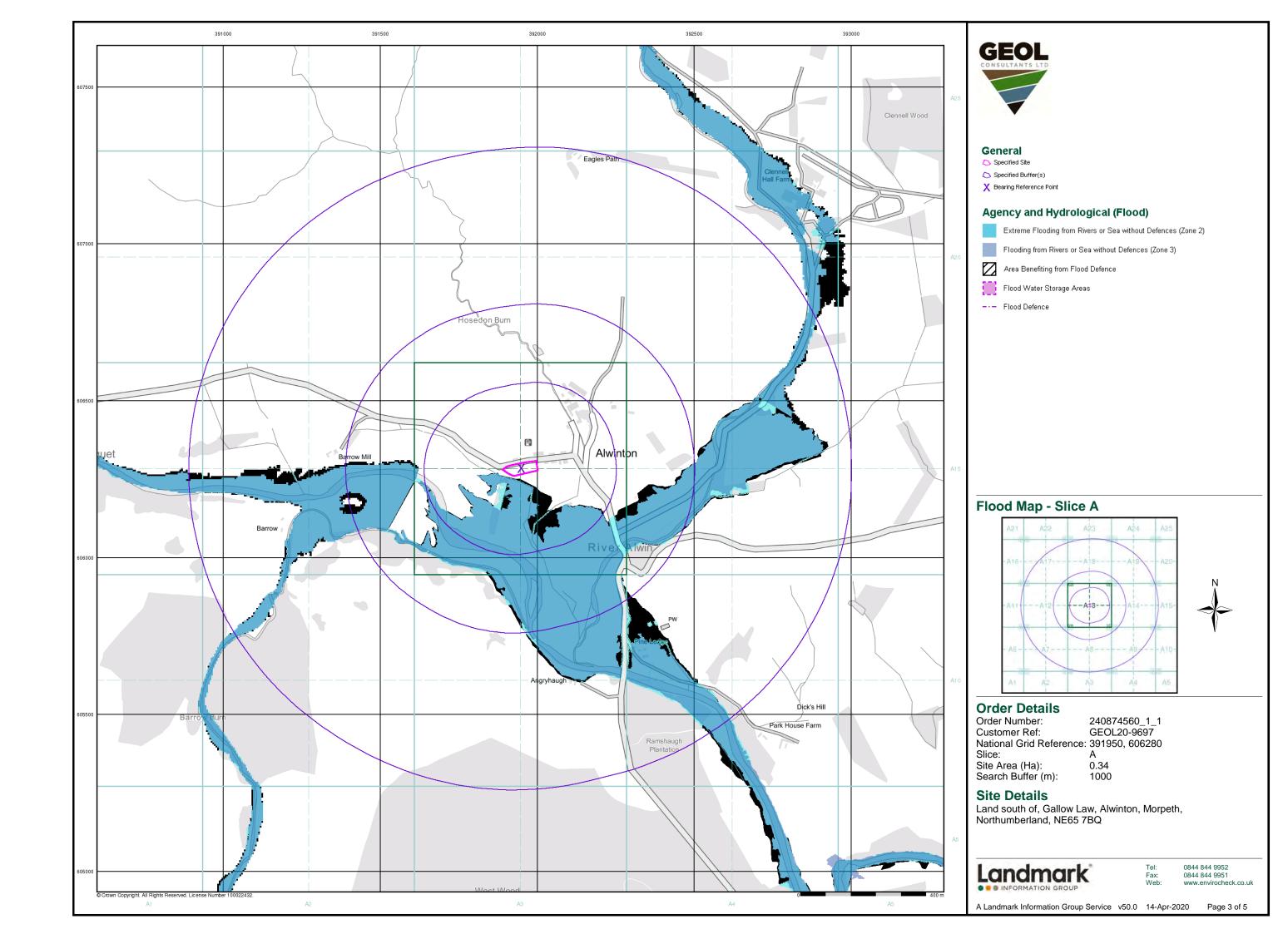
A Landmark Information Group Service v50.0 14-Apr-2020 Page 8 of 10

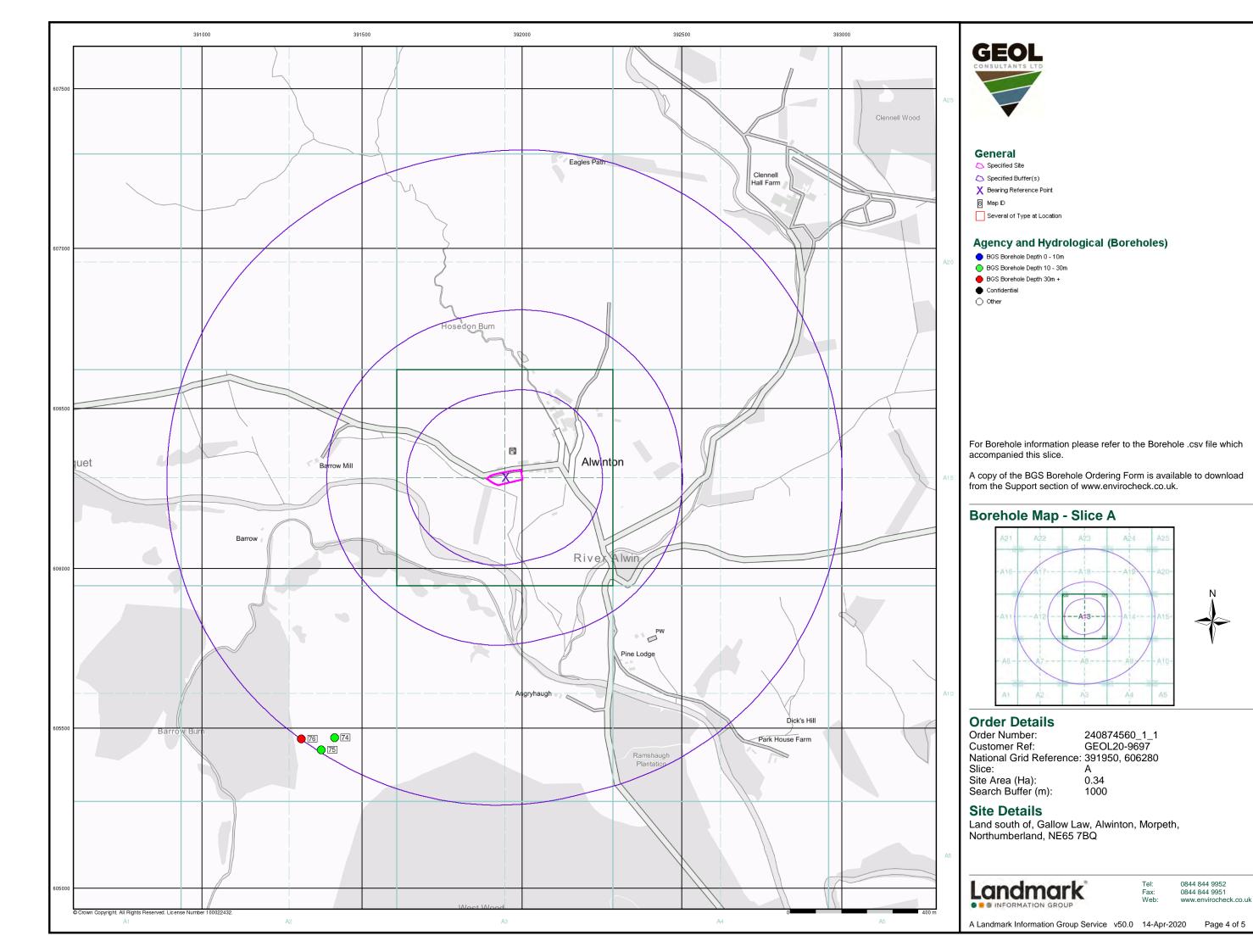




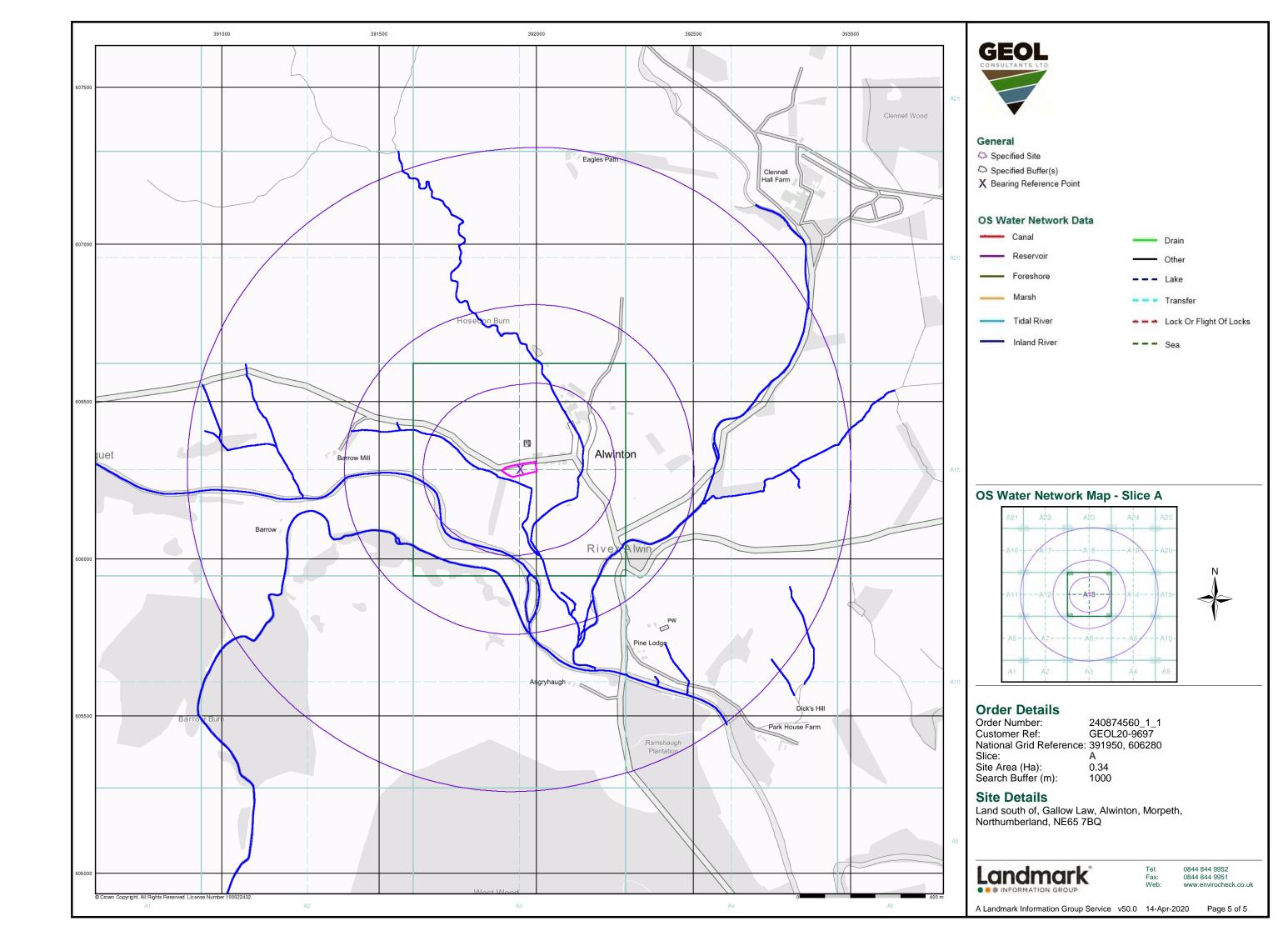


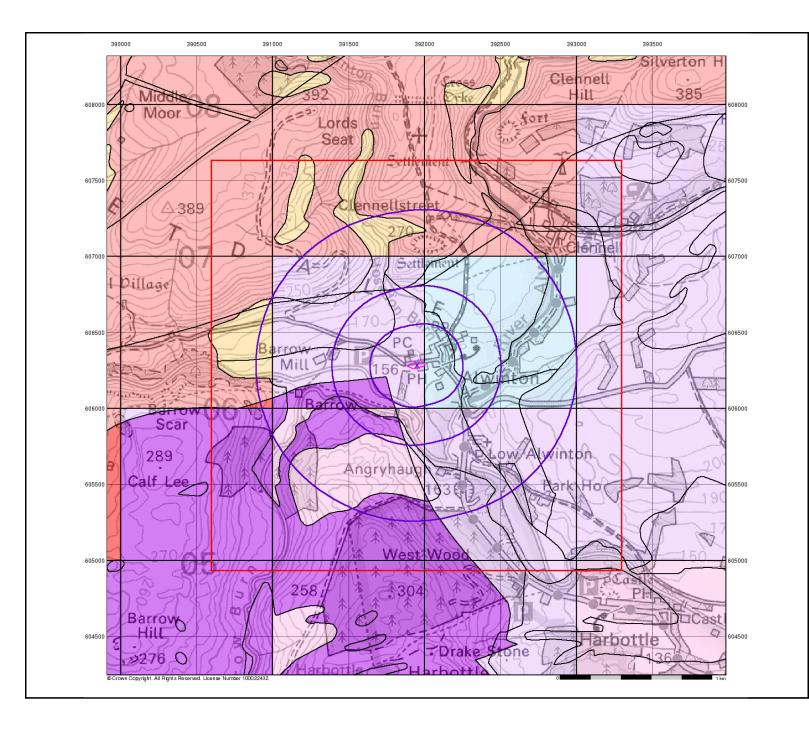






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Groundwater Vulnerability

General

Specified Site Specified Buffer(s) X Bearing Reference Point

Superficial Aquifers

8 Map ID Slice

Agency and Hydrological

Bedrock Aquifers

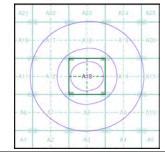
High Vulnerability, Principal Aquifer High Vulnerability, Principal Aquifer High Vulnerability, Secondary Aquifer High Vulnerability, Secondary Aquifer

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

Medium Vulnerability, Principal Aquifer

- Unproductive Aquifer Soluble Rock

Site Sensitivity Context Map - Slice A





Order Details

Order Number: Customer Ref: 240874560_1_1 GEOL20-9697 National Grid Reference: 391950, 606280 A 0.34

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

Site Details

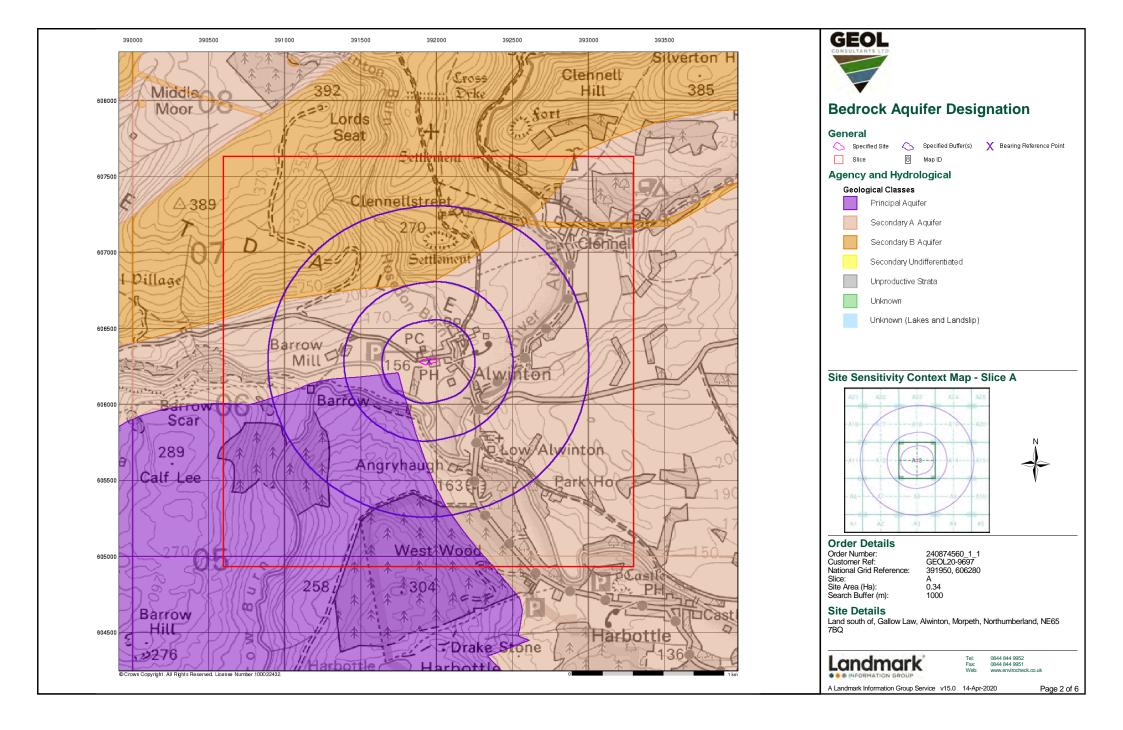
Land south of, Gallow Law, Alwinton, Morpeth, Northumberland, NE65

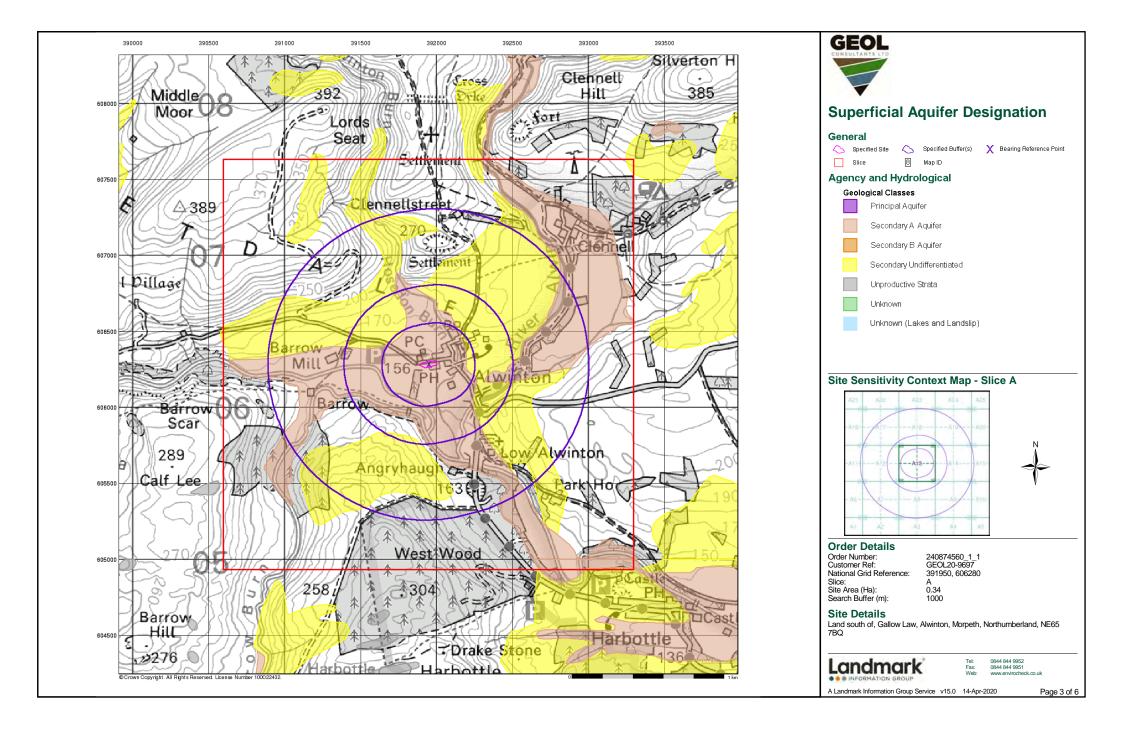


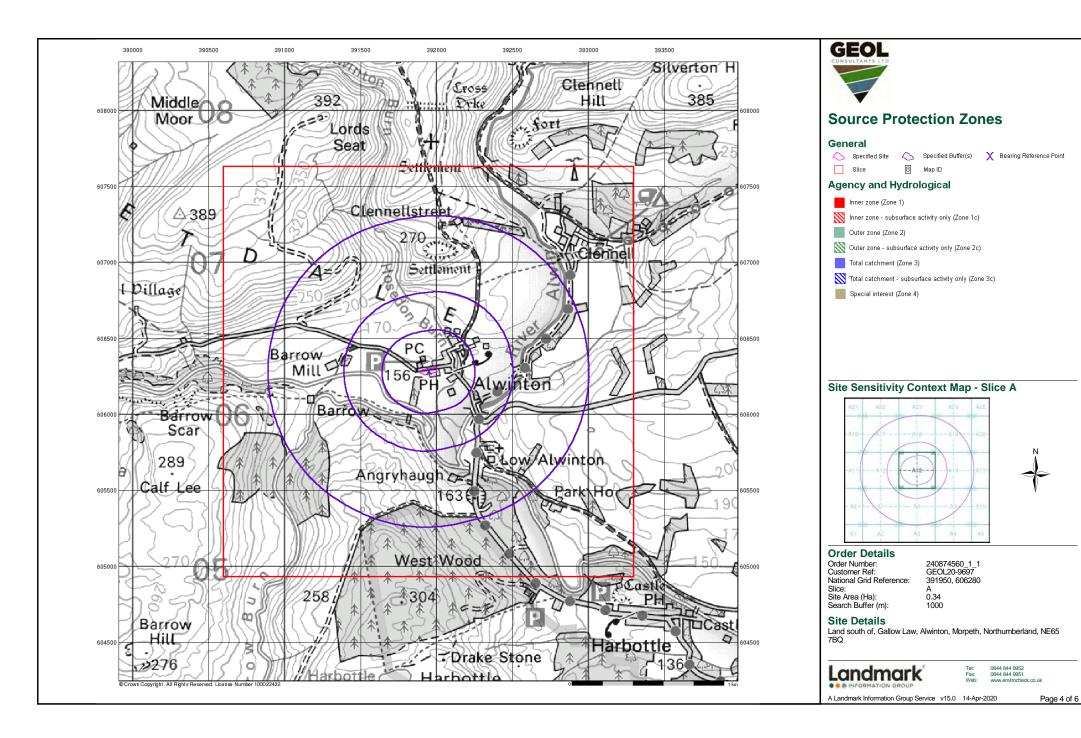
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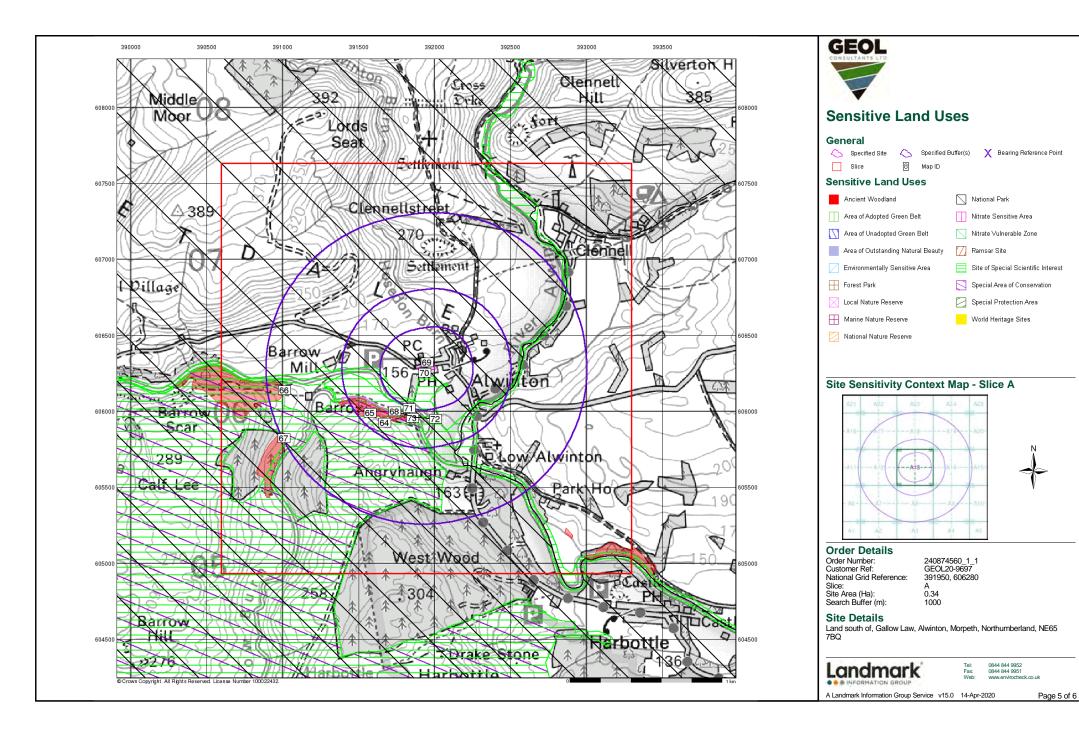
A Landmark Information Group Service v15.0 14-Apr-2020

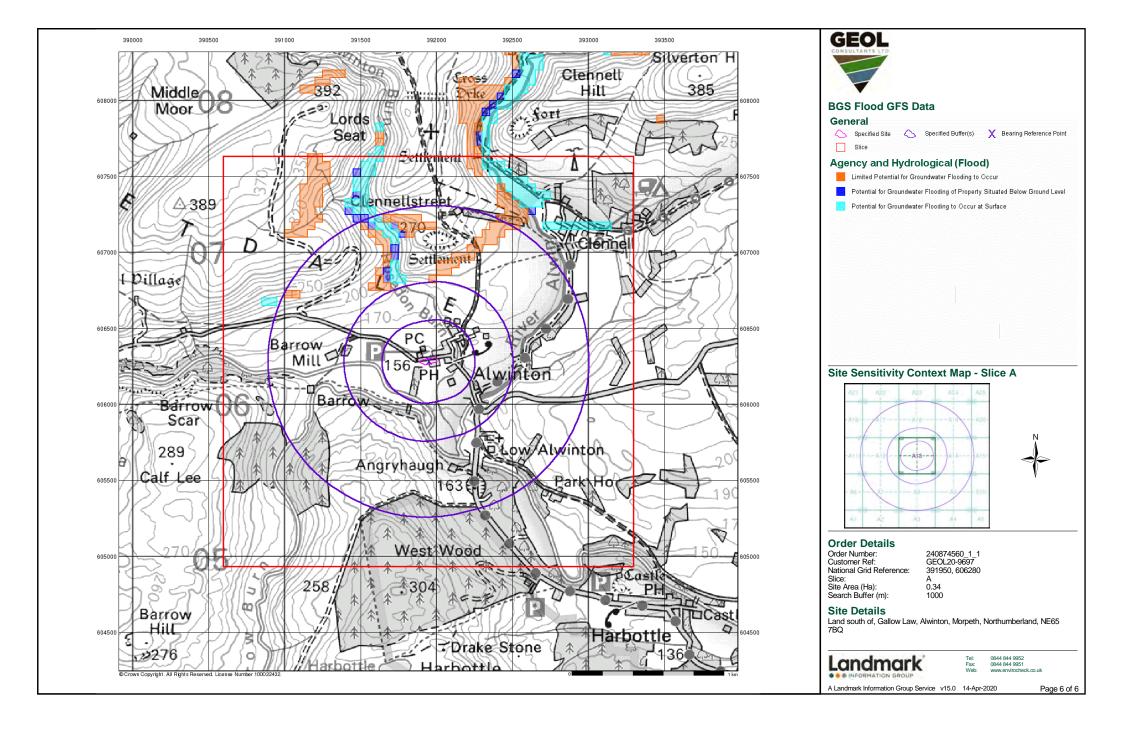
Page 1 of 6













Envirocheck® Report:

Datasheet

Order Details:

Order Number:

240874560_1_1

Customer Reference:

GEOL20-9697

National Grid Reference:

391950, 606280

Slice:

Α

Site Area (Ha):

0.34

Search Buffer (m):

1000

Site Details:

Land south of Gallow Law Alwinton Morpeth Northumberland NE65 7BQ

Client Details:

Mr R Stripp Geol Consultants Ltd 3 Gladstone Terrace Gateshead NE8 4DY







Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	12
Hazardous Substances	-
Geological	13
Industrial Land Use	14
Sensitive Land Use	15
Data Currency	17
Data Suppliers	21
Useful Contacts	22

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread,

and to the vulnerable targets of contamination, as it does the potential sources of contamination.

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

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Report Version v53.0



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1			Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		6		1
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2		Yes		
Pollution Incidents to Controlled Waters	pg 2		2		1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 3			2	1
River Quality Biology Sampling Points	pg 4				2
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 4	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 5	1	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 5	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 5	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 5		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 5		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 5		10	18	26



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 12	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 13	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 13				1
Non Coal Mining Areas of Great Britain	pg 13	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 13		Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 13	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 13	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 13	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 13	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 14		1		
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 15			2	2
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 15			1	
Marine Nature Reserves					
National Nature Reserves					
National Parks	pg 15	1			
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 15		1	2	
Special Areas of Conservation	pg 16			1	
Special Protection Areas					
World Heritage Sites					



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater I	Flooding Susceptibility				
	Flooding Type:	Limited Potential for Groundwater Flooding to Occur	A18SE (N)	492	1	391950 606800
	Discharge Consent					
1		Northumberland National Pk Auth Public Conveniences Alwinton Toilet Block, Alwinton, Nr Rothbury Environment Agency, North East Region Not Supplied 223/0261 2 26th July 2012 26th July 2012 Not Supplied Sewage Discharges - Final/Treated Effluent - Not Water Company Land/Soakaway Land Post National Rivers Authority Legislation where issue date > 31/08/1989 Located by supplier to within 10m	A13SW (W)	1	2	391890 606280
1	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Northumberland National Pk Auth Public Conveniences Alwinton Toilet Block, Alwinton, Nr Rothbury Environment Agency, North East Region Coquet 223/0261 1 26th February 1986 26th February 1986 25th July 2012 Sewage Discharges - Final/Treated Effluent - Not Water Company Land/Soakaway Land Post National Rivers Authority Legislation where issue date > 31/08/1989 Located by supplier to within 100m	A13SW (W)	1	2	391890 606280
	Discharge Consents	· · · ·				
2	-	Northumbrian Water Limited WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Alwinton Stw, Alwinton, Rothbury, Northumberland Environment Agency, North East Region Coquet 223/0419 1 14th May 1987 14th May 1987 29th July 2010 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Hosedon Burn New Consent, by Application, granted by Secretary of State Located by supplier to within 100m	A13SE (SE)	126	2	392100 606200
	Discharge Consent	S				
2	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Northumbrian Water Limited WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Alwinton Stw, Alwinton, Rothbury, Northumberland Environment Agency, North East Region Not Supplied 223/0419 2 30th July 2010 1st April 2010 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River Hosedon Burn Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A13SE (SE)	129	2	392094 606188



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Northumbrian Water Limited WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Alwinton Stw, Alwinton, Rothbury, Northumberland Environment Agency, North East Region Not Supplied 223/0419 2 30th July 2010 1st April 2010 Not Supplied Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Hosedon Burn Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A13SE (SE)	129	2	392094 606188
3	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Northumbrian Water Limited STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Alwinton Combined Sewer Overflow, Alwinton, Northumberland Environment Agency, North East Region Coquet 223/0875 1 1st September 1995 1st September 1995 20th December 2010 Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Freshwater Stream/River Hosedon Burn Surrendered under EPR 2010	A13SE (E)	139	2	392140 606270
4	Positional Accuracy: Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Located by supplier to within 10m	A12SW (W)	713	2	391200 606100
	Nearest Surface Wa	ater Feature	A13SW (S)	12	-	391936 606244
5	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Water Company Sewage: Sewage Treatment Works ALWINTON Environment Agency, North East Region Sewage - Septic Tank Effluent Pollution Found; No Fish Killed 16th October 1996 NN960193 Coquet Freshwater Stream/River Unknown Category 3 - Minor Incident Located by supplier to within 100m	A13SE (SE)	129	2	392100 606195



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Pollution Incidents	to Controlled Waters				
6	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity: Positional Accuracy:	Farm ALWINTON Environment Agency, North East Region Not Given Hosedene Burn 21st November 1994 223/002397 Not Given Freshwater Stream/River Other Agricultural Category 3 - Minor Incident Located by supplier to within 100m	A13NE (E)	200	2	392200 606300
7	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Water Company Sewage: Treated Water Distribution System HARBOTTLE Environment Agency, North East Region Miscellaneous - Inert Suspended Solids Pollution Found; No Fish Killed 31st July 1996 NN960140 Coquet Freshwater Stream/River Unknown Category 3 - Minor Incident Located by supplier to within 100m	A8NE (S)	585	2	392100 605700
	River Quality Name: GQA Grade: Reach: Estimated Distance (km): Flow Rate: Flow Type: Year:	Alwin River Quality A Allerhope_Burn_Coque 4.3 Flow less than 0.31 cumecs River 2000	A13SE (SE)	253	2	392070 606035
	River Quality Name: GQA Grade: Reach: Estimated Distance (km): Flow Rate: Flow Type: Year:	Coquet River Quality A Ridlees_Burn_Alwi 3.5 Flow less than 5 cumecs River 2000	A13SW (SW)	323	2	391744 605989
	River Quality Name: GQA Grade: Reach: Estimated Distance (km): Flow Rate: Flow Type: Year:	Coquet River Quality A Alwin_Holystone_Bur 6.1 Flow less than 5 cumecs River 2000	A8NW (S)	628	2	391918 605632



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Biolog	gy Sampling Points				
8	Name:	Coquet	A8NE	626	2	392150
	Reach:	Ridlees Burn To Alwin	(S)			605670
	Estimated Distance:	Located by supplier to within 10m				
	Year:	1990				
	GQA Grade:	River Quality Biology GQA Grade C - Fairly Good				
	Year: GQA Grade:	1995 River Quality Biology GQA Grade A - Very Good				
	Year:	2000				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Year: GQA Grade:	2002 River Quality Biology GQA Grade A - Very Good				
	Year:	2003				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Year:	2004				
	GQA Grade: Year:	River Quality Biology GQA Grade A - Very Good 2005				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Year:	2006				
	GQA Grade: Year:	River Quality Biology GQA Grade A - Very Good 2007				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Year:	2008				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Year: GQA Grade:	2009 River Quality Biology GQA Grade A - Very Good				
_	River Quality Biolog				_	
8	Name: Reach:	Allwin Allerhope Burn To Coquet	A8NE (S)	626	2	392150 605670
	Estimated Distance:		(3)			003070
	Positional Accuracy:	Located by supplier to within 10m				
	Year: GQA Grade:	1990 Biver Quality Piology COA Crade B. Cood				
	Year:	River Quality Biology GQA Grade B - Good 1995				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Year:	2000				
	GQA Grade: Year:	River Quality Biology GQA Grade A - Very Good 2002				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Year:	2003				
	GQA Grade: Year:	River Quality Biology GQA Grade A - Very Good 2004				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Year:	2005				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Year: GQA Grade:	2006 River Quality Biology GQA Grade A - Very Good				
	Year:	2007				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Year: GQA Grade:	2008 River Quality Biology GQA Grade A - Very Good				
	Year:	2009				
	GQA Grade:	River Quality Biology GQA Grade A - Very Good				
	Groundwater Vulne	rability Map				
	Combined	Secondary Bedrock Aquifer - Medium Vulnerability	A13NE	0	3	391949
	Classification:		(NE)			606285
	Combined	Medium				
	Vulnerability: Combined Aquifer:	Productive Bedrock Aquifer, Productive Superficial Aquifer				
	Pollutant Speed:	Low				
	Bedrock Flow:	Well Connected Fractures				
	Dilution: Baseflow Index:	300-550 mm/year <40%				
	Superficial	<90%				
	Patchiness:					
	Superficial	<3m				
	Thickness: Superficial	High				
		· ··ʊ··	1			l



ap D		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulne	erability Map				
	Combined	Secondary Superficial Aquifer - Low Vulnerability	A13NE	0	3	392000
	Classification:	,,	(E)			606285
	Combined	Low				
	Vulnerability:	Described Described Described Conservation Conservation				
	Combined Aquifer: Pollutant Speed:	Productive Bedrock Aquifer, Productive Superficial Aquifer Low				
	Bedrock Flow:	Well Connected Fractures				
	Dilution:	300-550 mm/year				
	Baseflow Index:	<40%				
	Superficial Patchiness:	>90%				
	Superficial	<3m				
	Thickness:	10111				
	Superficial	High				
	Recharge:					
	Groundwater Vulne	rability - Soluble Rock Risk				
	Classification:	Significant Risk - Problems Unlikely	A13NE	0	3	392000
			(E)			60628
	Bedrock Aquifer De	esignations				
	=	Secondary Aquifer - A	A13NE	0	3	391949
		·· / · · ·	(NE)			60628
	Superficial Aquifer	Designations				
		Secondary Aquifer - A	A13NE	0	3	39194
			(NE)		_	60628
	Extreme Flooding f	rom Rivers or Sea without Defences				
	Type:	Extent of Extreme Flooding from Rivers or Sea without Defences	A13SW	7	2	39194
	Flood Plain Type:	Fluvial Models	(S)		_	60625
	Boundary Accuracy:	As Supplied				
	Flooding from Rive	rs or Sea without Defences				
	Type:	Extent of Flooding from Rivers or Sea without Defences	A13SW	10	2	39193
	Flood Plain Type:	Fluvial Models	(S)	10	2	60624
	Boundary Accuracy:	As Supplied	(-)			
	Areas Benefiting fro	om Flood Defences				
	None	Sili i lodd Belefides				
	Flood Water Storag	e Areas				
	None					
	Flood Defences					
	None					
	OS Water Network					
9	Watercourse Form:		A13SW	12	4	39193
	Watercourse Length Watercourse Level:		(S)			60624
	Permanent:	True				
	Watercourse Name:					
	Catchment Name:	Coquet				
	Primacy:	1				
	OS Water Network	Lines				
10	Watercourse Form:		A13NW	72	4	39181
	Watercourse Length	: 3.2	(W)			60628
	Watercourse Level: Permanent:	Underground True				
	Watercourse Name:					
	Catchment Name:	Coquet				
	Primacy:	1				
	OS Water Network	Lines				
1	Watercourse Form:		A13NW	76	4	39181
	Watercourse Length	: 72.2	(W)	'	·	60628
	Watercourse Level:	On ground surface	, ,			
	Permanent:	True				
	Watercourse Name: Catchment Name:	Not Supplied Coquet				
	Primacy:	1				
	•					
•	OS Water Network		4400=	407	_	
12	Watercourse Form: Watercourse Length		A13SE (SE)	127	4	392046 606156
	Watercourse Level:	On ground surface	(SE)			00015
	Permanent:	True				
			1			
	Watercourse Name: Catchment Name:	Hosedon Burn Coquet				



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 220.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Hosedon Burn Catchment Name: Coquet Primacy: 1	A13SE (E)	136	4	392137 606264
	OS Water Network Lines				
14	Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A13NW (W)	141	4	391760 606334
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A13NW (W)	143	4	391758 606336
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A13NE (NE)	184	4	392090 606466
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 790.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Hosedon Burn Catchment Name: Coquet Primacy: 1	A13NE (NE)	184	4	392090 606466
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 906.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Coquet Catchment Name: Coquet Primacy: 1	A13SW (S)	219	4	391880 606025
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 223.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Hosedon Burn Catchment Name: Coquet Primacy: 1	A13SE (S)	262	4	392012 606011
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A13NW (W)	278	4	391639 606400
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A13NW (W)	283	4	391634 606401



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 543.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Barrow Burn Catchment Name: Coquet Primacy: 1	A13SW (S)	303	4	391847 605967
	OS Water Network Lines				
23	Watercourse Form: Inland river Watercourse Length: 172.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Coquet Catchment Name: Coquet Primacy: 1	A13SE (S)	312	4	391979 605953
	OS Water Network Lines				
24	Watercourse Form: Inland river Watercourse Length: 162.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Coquet Catchment Name: Coquet Primacy: 2	A13SE (S)	312	4	391979 605953
	OS Water Network Lines				
25	Watercourse Form: Inland river Watercourse Length: 156.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A12NE (W)	347	4	391567 606408
	OS Water Network Lines				
26	Watercourse Form: Inland river Watercourse Length: 26.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A12NE (W)	347	4	391567 606408
	OS Water Network Lines				
27	Watercourse Form: Inland river Watercourse Length: 514.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alwin Catchment Name: Coquet Primacy: 1	A13SE (SE)	359	4	392228 605999
	OS Water Network Lines				
28	Watercourse Form: Inland river Watercourse Length: 101.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A8NE (S)	393	4	392079 605893
	OS Water Network Lines				
29	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 28.3	A12SE (SW)	393	4	391562 606063
	OS Water Network Lines				
30	Watercourse Form: Inland river Watercourse Length: 2629.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Barrow Burn Catchment Name: Coquet Primacy: 1	A12SE (SW)	397	4	391552 606072



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Barrow Burn Catchment Name: Coquet Primacy: 1	A12SE (SW)	397	4	391569 606047
	OS Water Network Lines				
32	Watercourse Form: Inland river Watercourse Length: 181.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alwin Catchment Name: Coquet Primacy: 1	A8NE (SE)	446	4	392181 605871
	OS Water Network Lines				
33	Watercourse Form: Inland river Watercourse Length: 143.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 2	A8NE (SE)	446	4	392181 605871
	OS Water Network Lines				
34	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: River Coquet Catchment Name: Coquet Primacy: 1	A8NE (S)	466	4	391980 605798
	OS Water Network Lines				
35	Watercourse Form: Inland river Watercourse Length: 87.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Hosedon Burn Catchment Name: Coquet Primacy: 1	A8NE (S)	473	4	392113 605819
	OS Water Network Lines				
36	Watercourse Form: Inland river Watercourse Length: 252.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Coquet Catchment Name: Coquet Primacy: 1	A8NE (S)	497	4	391979 605766
	OS Water Network Lines				
37	Watercourse Form: Inland river Watercourse Length: 335.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A14SW (E)	536	4	392528 606176
	OS Water Network Lines				
38	Watercourse Form: Inland river Watercourse Length: 146.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alwin Catchment Name: Coquet Primacy: 1	A14SW (E)	536	4	392528 606176
	OS Water Network Lines				
39	Watercourse Form: Inland river Watercourse Length: 20.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Hosedon Burn Catchment Name: Coquet Primacy: 1	A8NE (S)	556	4	392134 605739



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alwin Catchment Name: Coquet Primacy: 2	A14NW (E)	568	4	392563 606357
	OS Water Network Lines				
41	Watercourse Form: Inland river Watercourse Length: 60.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alwin Catchment Name: Coquet Primacy: 1	A14NW (E)	573	4	392567 606371
	OS Water Network Lines				
42	Watercourse Form: Inland river Watercourse Length: 967.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alwin Catchment Name: Coquet Primacy: 1	A14NW (E)	573	4	392566 606373
	OS Water Network Lines				
43	Watercourse Form: Inland river Watercourse Length: 132.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alwin Catchment Name: Coquet Primacy: 1	A8NE (S)	573	4	392129 605720
	OS Water Network Lines				
44	Watercourse Form: Inland river Watercourse Length: 182.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A12SW (W)	638	4	391257 606201
	OS Water Network Lines				
45	Watercourse Form: Inland river Watercourse Length: 808.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Coquet Catchment Name: Coquet Primacy: 1	A12SW (W)	639	4	391257 606193
	OS Water Network Lines				
46	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: River Coquet Catchment Name: Coquet Primacy: 1	A8NE (S)	661	4	392187 605644
	OS Water Network Lines				
47	Watercourse Form: Inland river Watercourse Length: 184.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A9NW (SE)	686	4	392411 605728
	OS Water Network Lines				
48	Watercourse Form: Inland river Watercourse Length: 208.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A12NW (W)	719	4	391175 606353



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A12NW (W)	719	4	391175 606353
	OS Water Network Lines				
50	Watercourse Form: Inland river Watercourse Length: 475.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Hosedon Burn Catchment Name: Coquet Primacy: 1	A18NW (N)	723	4	391766 607002
	OS Water Network Lines				
51	Watercourse Form: Inland river Watercourse Length: 34.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A12NW (W)	746	4	391156 606411
	OS Water Network Lines				
52	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A9NW (SE)	754	4	392378 605625
	OS Water Network Lines				
53	Watercourse Form: Inland river Watercourse Length: 194.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A12NW (W)	766	4	391142 606443
	OS Water Network Lines				
54	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: River Coquet Catchment Name: Coquet Primacy: 1	A9SW (SE)	783	4	392385 605595
	OS Water Network Lines				
55	Watercourse Form: Inland river Watercourse Length: 430.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A14NE (E)	805	4	392806 606284
	OS Water Network Lines				
56	Watercourse Form: Inland river Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A14NE (E)	805	4	392806 606284
	OS Water Network Lines				
57	Watercourse Form: Inland river Watercourse Length: 166.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Coquet Catchment Name: Coquet Primacy: 1	A9SW (SE)	856	4	392478 605567



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 333.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A9NE (SE)	885	4	392807 605911
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A12NW (W)	903	4	390996 606404
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A12NW (W)	905	4	390991 606381
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A12NW (W)	907	4	390989 606384
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 135.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Coquet Primacy: 1	A9NE (SE)	958	4	392749 605680



Waste

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage				
	Name: Northumberland County Council - Has supplied landfill data		0	6	391949 606285
	Local Authority Landfill Coverage				
	Name: Alnwick District Council - Has no landfill data to supply		0	5	391949 606285



Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Inverclyde Group	A13NE	0	1	391949
		(NE)	•	'	606285
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Natural Cavities				
	Easting: 391700 Northing: 605700 Distance: 604 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: SW Cavity Type: Gulls/Fissures due to Cambering Solid Geology Detail: Upper Carboniferous Limestone Superficial Geology Detail:	A8NW (SW)	604	7	391700 605700
	Non Coal Mining Areas of Great Britain	A 40NE			004040
	Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	391949 606285
	Potential for Collapsible Ground Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	391949 606285
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	195	1	392196 606276
	Potential for Compressible Ground Stability Hazards				
	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	391949 606285
	Potential for Compressible Ground Stability Hazards	A13SE	105	4	202406
	Hazard Potential: No Hazard Source: No Hazard British Geological Survey, National Geoscience Information Service	(E)	195	1	392196 606276
	Potential for Ground Dissolution Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	391949 606285
	Potential for Landslide Ground Stability Hazards				
	Hazard Potential: Very Low Source: Very Low British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	391949 606285
	Potential for Landslide Ground Stability Hazards	4.404.04/	004		004705
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	221	1	391705 606400
	Potential for Running Sand Ground Stability Hazards				
	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	391949 606285
	Potential for Running Sand Ground Stability Hazards				
	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	195	1	392196 606276
	Potential for Running Sand Ground Stability Hazards				
	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	225	1	391771 606475
	Potential for Shrinking or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	391949 606285
	Radon Potential - Radon Affected Areas				
	Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	391949 606285
	Radon Potential - Radon Protection Measures				
	Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions	A13NE (NE)	0	1	391949 606285



Industrial Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Contemporary Trad	e Directory Entries				
63	Name: Location: Classification: Status: Positional Accuracy:	Scottish Farm Vension Red Lion House, Alwinton, Morpeth, Northumberland, NE65 7BQ Meat - Wholesale Inactive Automatically positioned to the address	A13NE (NE)	136	-	392114 606377



Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	Ancient Woodland Name: Reference: Area(m²): Type:	Not Supplied 1412732 20917.11 Ancient and Semi-Natural Woodland	A13SW (SW)	314	8	391804 605971
65	Ancient Woodland Name: Reference: Area(m²): Type:	Not Supplied 1412731 2561.21 Ancient and Semi-Natural Woodland	A12SE (SW)	426	8	391576 605991
66	Ancient Woodland Name: Reference: Area(m²): Type:	Barrow Scrogs 1100125 115886.14 Ancient and Semi-Natural Woodland	A12SW (W)	891	8	391010 606139
67	Ancient Woodland Name: Reference: Area(m²): Type:	Currick Wood 1100126 21445.09 Plantation on Ancient Woodland	A7NW (SW)	994	8	391008 605823
68	Local Nature Reser Name: Multiple Area: Area (m2): Source: Designation Date:	ves Barrow Burn Wood N 27779.3 Natural England 1st January 1983	A13SW (S)	300	8	391825 605977
69	National Parks Name: Multiple Area: Area (m2): Source: Status: Designation Date:	Northumberland N 1050934416 Natural England Fully Designated - designated as a National Park 1st April 1956	A13NE (NE)	0	8	391949 606285
70	Designation Date: Date Type:	entific Interest River Coquet And Coquet Valley Woodlands N 11848071.23 Natural England 2000052 Site Of Special Scientific Interest 31st July 1996 Notified Water Framework Directive (WFD) 31st July 1996 Notified	A13SW (SW)	1	8	391936 606254
71	Designation Date: Date Type:	Barrow Meadow N 57191.27 Natural England 1003947	A13SW (SW)	255	8	391834 606022



Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Sites of Special Sci	entific Interest				
72	Designation Date: Date Type: Designation Details: Designation Details: Designation Details: Designation Date: Date Type: Designation Date: Date Type:	Harbottle Moors N 9327221.54 Natural England 1000844 Local Nature Reserve 1st August 1986 Notified Local Wildlife Site 1st August 1986 Notified Nature Conservation Review 1st August 1986 Notified National Trust Reserve 1st August 1986 Notified Site Of Special Scientific Interest 1st August 1986 Notified Water Framework Directive (WFD) 1st August 1986 Notified	A13SW (S)	306	8	391855 605963
73	Special Areas of Co Name: Multiple Areas: Total Area (m2): Source: Reference: Status:	Harbottle Moors N 9327221.58 Natural England UK0030333 Designated	A13SW (S)	306	8	391855 605963



Data Currency

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Northumberland Council - Environmental Health Department Alnwick District Council (now part of Northumberland Council) - Environmental Health Department	January 2020 October 2009	Annually Not Applicable
Discharge Consents Environment Agency - North East Region	January 2020	Quarterly
Enforcement and Prohibition Notices Environment Agency - North East Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - North East Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - North East Region	January 2020	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Alnwick District Council (now part of Northumberland Council) - Environmental Health Department	April 2009	Not Applicable
Northumberland Council - Environmental Health Department	May 2014	Variable
Local Authority Pollution Prevention and Controls Alnwick District Council (now part of Northumberland Council) - Environmental Health Department	April 2009	Not Applicable
Northumberland Council - Environmental Health Department	May 2014	Annually
Local Authority Pollution Prevention and Control Enforcements Alnwick District Council (now part of Northumberland Council) - Environmental Health Department	April 2009	Not Applicable
Northumberland Council - Environmental Health Department	May 2014	Variable
Nearest Surface Water Feature	,	
Ordnance Survey	February 2020	
Pollution Incidents to Controlled Waters	-	
Environment Agency - North East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - North East Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - North East Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - North East Region	June 2016	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North East Region - North East Area	January 2020	Quarterly
Environment Agency - North East Region - Northumbria Area	January 2020	Quarterly
Water Abstractions Environment Agency - North East Region	January 2020	Quarterly
Water Industry Act Referrals Environment Agency - North East Region	October 2017	Quarterly
Groundwater Vulnerability Map		,
Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified



Data Currency

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations	Garidary 2010	7 timeany
Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2020	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	February 2020	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2020	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	February 2020	Quarterly
Flood Defences	Fabruary 2020	Quartarly
Environment Agency - Head Office OS Water Network Lines	February 2020	Quarterly
Ordnance Survey	January 2020	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)	00.000. 2000	Trot / tpinoabio
Environment Agency - North East Region - North East Area	November 2019	Quarterly
Environment Agency - North East Region - Northumbria Area	November 2019	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region - North East Area	January 2020	Quarterly
Environment Agency - North East Region - Northumbria Area	January 2020	Quarterly
Local Authority Landfill Coverage	,	
Alnwick District Council (now part of Northumberland Council)	May 2000	Not Applicable
Northumberland County Council (now part of Northumberland Council)	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Alnwick District Council (now part of Northumberland Council)	May 2000	Not Applicable
Northumberland County Council (now part of Northumberland Council)	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



Data Currency

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Alnwick District Council (now part of Northumberland Council)	February 2009	Not Applicable
Northumberland National Park	February 2016	Variable
Northumberland County Council (now part of Northumberland Council) - Minerals Waste and Development Control	October 2008	Annual Rolling Update
Northumberland Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents		
Alnwick District Council (now part of Northumberland Council)	February 2009	Not Applicable
Northumberland National Park	February 2016	Variable
Northumberland County Council (now part of Northumberland Council) - Minerals Waste and	October 2008	Annual Rolling Update
Development Control		
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		
	July 2011	Annually
British Geological Survey - National Geoscience Information Service		, unidany
British Geological Survey - National Geoscience Information Service Radon Potential - Radon Protection Measures	•	



Data Currency

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries		
Thomson Directories	January 2020	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	December 2019	Quarterly
Gas Pipelines		
National Grid	July 2014	
Underground Electrical Cables	0.451.50.0040	
National Grid	October 2019	
Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt		
Alnwick District Council (now part of Northumberland Council)	February 2020	As notified
Northumberland Council - Planning Department Northumberland National Park	February 2020 February 2020	As notified As notified
	1 editally 2020	As notined
Areas of Unadopted Green Belt Alnwick District Council (now part of Northumberland Council)	February 2020	As notified
Northumberland Council - Planning Department	February 2020	As notified
Northumberland National Park	February 2020	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		5:4
Natural England	June 2019	Bi-Annually
Special Protection Areas	A = =1 0040	B: 4
Natural England	April 2019	Bi-Annually

Order Number: 240874560_1_1 Date: 14-Apr-2020 rpr_ec_datasheet v53.0 A Landmark Information Group Service Page 20 of 22



Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Mop data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Seattsh 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 Cymp Naturiol Naturiol Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE (강살위
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	peterbrett



Useful Contacts

Contact	Name and Address	Contact Details	
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk	
2	Environment Agency - National Customer Contact Centre (NCCC)	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk	
	PO Box 544, Templeborough, Rotherham, S60 1BY		
3	Environment Agency - Head Office	Telephone: 01454 624400	
	Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Fax: 01454 624409	
4	Ordnance Survey	Telephone: 03456 05 05 05	
	Adanac Drive, Southampton, Hampshire, SO16 0AS	Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk	
5	Alnwick District Council (now part of Northumberland Council)	Telephone: 0845 600 6400 Website: www.northumberland.gov.uk	
	County Hall, Morpeth, Northumberland, NE61 2EF		
6	Northumberland County Council (now part of Northumberland Council)	Telephone: 01670 533000 Fax: 01670 534160 Website: www.northumberland.gov.uk	
	County Hall, Morpeth , Northumberland, NE61 2EF	Website. www.northumbenana.gov.uk	
7	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk	
8	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk	
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org	
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk	

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

APPENDIX III

BGS GEOREPORT, RADON REPORT





Geol Consultants Limited 3 Gladstone Terrace Gateshead NE8 4DY

Radon Report

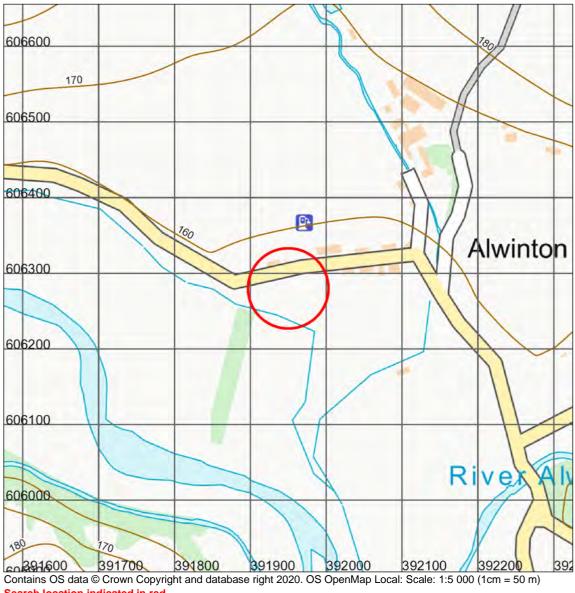
Advisory report on the requirement for radon protective measures in new buildings, conversions and extensions to existing buildings. The report also indicates whether a site is located within a radon Affected Area

Report Id: BGS_308781/11542

Client reference: GEOL20-9697



Search location



Search location indicated in red

Area centred at: 391950,606280 Radius of site area: 53 metres



Radon Report: UK

When extensions are made to existing buildings in high radon areas, or new buildings are constructed in these areas, the Building Regulations for England, Wales, Scotland and Northern Ireland require that protective measures are taken against radon entering the building.

This report provides information on whether radon protective measures are required. Depending on the probability of buildings having high radon levels, the Regulations may require either:

- 1. No protective measures
- 2. Basic protective measures
- Full protective measures

This is an advisory report on the requirement for radon protective measures in new buildings, conversions and extensions. The report also indicates whether a site is located within a radon Affected Area

Requirement for radon protective measures

The determination below follows advice in *BR211 Radon: Guidance on protective* measures for new buildings (2015 edition), which also provides guidance on what to do if the result indicates that protective measures are required.

Is the property in an area where radon protective measures are required for new buildings or extensions to existing ones as described in publication BR211 (2015 edition) Radon: Guidance on protective measures for new buildings?

NO RADON PROTECTIVE MEASURES ARE REQUIRED FOR THE REPORT AREA.

More details of the protective measures required are available in *BR211 Radon:* Guidance on protective measures for new buildings (2015 Edition). Additional information and guidance is available from the Building Research Establishment website (http://www.bre.co.uk/radon/).

Whether or not the radon level in a building is above or below the radon Action Level can only be established by having the building tested. The PHE provides a radon testing service which can be accessed at www.ukradon.org or by telephone (01235 822622).

If you require further information or guidance, you should contact your local authority building control officer or approved inspector.

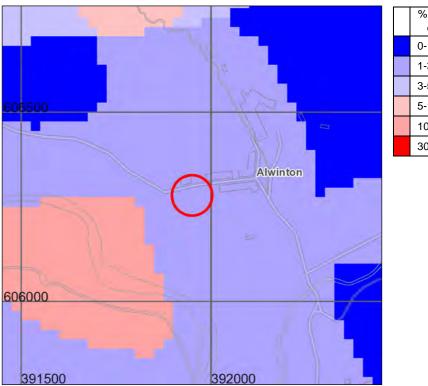
Date: 12 May 2020 Page: 3 of 8

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BGS Report No: BGS_308781/11542



Radon Affected Area



% Homes estimated to be at or above the action level

0-1%

1-3%

3-5%

5-10%

10-30%

30-100%

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Scale: 1:10 000 (1cm = 100 m)
Search area indicated in red

Is the property in a radon Affected Area as defined by Public Health England (PHE) and if so what percentage of homes are estimated to be above the Action Level? YES

Additional Information

THE PROPERTY IS IN A RADON AFFECTED AREAS WHERE 1 TO 3% OF HOMES ARE ESTIMATED TO BE AT OR ABOVE THE ACTION LEVEL.

PHE recommends a radon 'Action Level' of 200 Becquerels per cubic metre of air (Bq m⁻³) for the annual average of the radon gas concentration in a home. Where 1% or more of homes are estimated to exceed the Action Level the area should be regarded as a radon Affected Area.

This report informs you whether the property is in a radon Affected Area and the percentage of homes that are estimated to be at or above the radon Action Level at this location. Being in an Affected Area does not necessarily mean there is a radon problem in the property; the only way to find out whether the radon level is above or below the Action Level is to carry out a radon measurement.



PHE advises that radon gas should be measured in all properties within radon Affected Areas and that homes with radon levels above the Action Level (200 Bq m⁻³) should be remediated. Householders with levels between the Target Level (100 Bq m⁻³) and Action Level should seriously consider reducing their radon level, especially if they are at greater risk, such as if they are current or ex smokers. Whether or not a home is in fact above or below the Action Level or Target Level can only be established by having the building tested. PHE provides a validated radon testing service which can be accessed at www.ukradon.org.

The information in this report provides an answer to one of the standard legal enquiries on house purchase in England and Wales, known as Law Society CON29 Enquiries of the Local Authority (2016); 3.14 Radon Gas: Do records indicate that the property is in a "Radon Affected Area" as identified by PHE. The data can also be used to advise house buyers and sellers in Scotland and Northern Ireland.

If you are buying a new build property in a Radon Affected Area, you should ask the builder whether radon protective measures were incorporated in the construction of the property.

If you are buying a currently occupied property in a radon Affected Area, you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were above the radon Action Level and if so, whether remedial measures were installed, radon levels were re-tested, and if the results of re-testing confirmed the effectiveness of the measures.

Further information on radon is available from PHE at www.ukradon.org.

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What is radon?

Radon is a naturally occurring radioactive gas, which is produced by the radioactive decay of radium which, in turn, is derived from the radioactive decay of uranium. Uranium is found in small quantities in all soils and rocks, although the amount varies from place to place. Radon released from rocks and soils is quickly diluted in the atmosphere. Concentrations in the open air are normally very low and do not present a hazard. Radon that enters enclosed spaces such as some buildings (particularly basements), caves, mines, and tunnels may reach high concentrations in some circumstances. The construction method and degree of ventilation will influence radon levels in individual buildings. A person's exposure to radon will also vary according to how particular buildings and spaces are used.

Inhalation of the radioactive decay products of radon gas increases the chance of developing lung cancer. If individuals are exposed to high concentrations for significant periods of time, there may be cause for concern. In order to limit the risk to individuals, the Government has adopted an Action Level for radon in homes of 200 becquerels per cubic metre (Bq m⁻³). The Government advises householders that, where the radon level exceeds the Action Level, measures should be taken to reduce the concentration.

Radon in workplaces

The Ionising Radiation Regulations, 1999, require employers to take action when radon is present above a defined level in the workplace. Advice may be obtained from your local Health and Safety Executive Area Office or the Environmental Health Department of your local authority. The BRE publishes a guide (BR293): **Radon in the workplace.** BRE publications may be obtained from the BRE Bookshop, Tel: 01923 664262, email: bookshop@bre.co.ukwebsite: www.brebookshop.com

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