

LANDMARK INFORMATION GROUP®

Bedrock and Faults

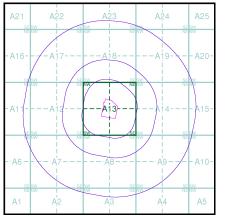
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits

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

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

The BGS Faults and Rock Segments dataset includes geological faults and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice A





Order Details

Order Number: 333561911_1_1 Customer Ref: **Boundary Outlet** National Grid Reference: 431870, 570740

Slice:

Site Area (Ha): Search Buffer (m): 3.73 1000

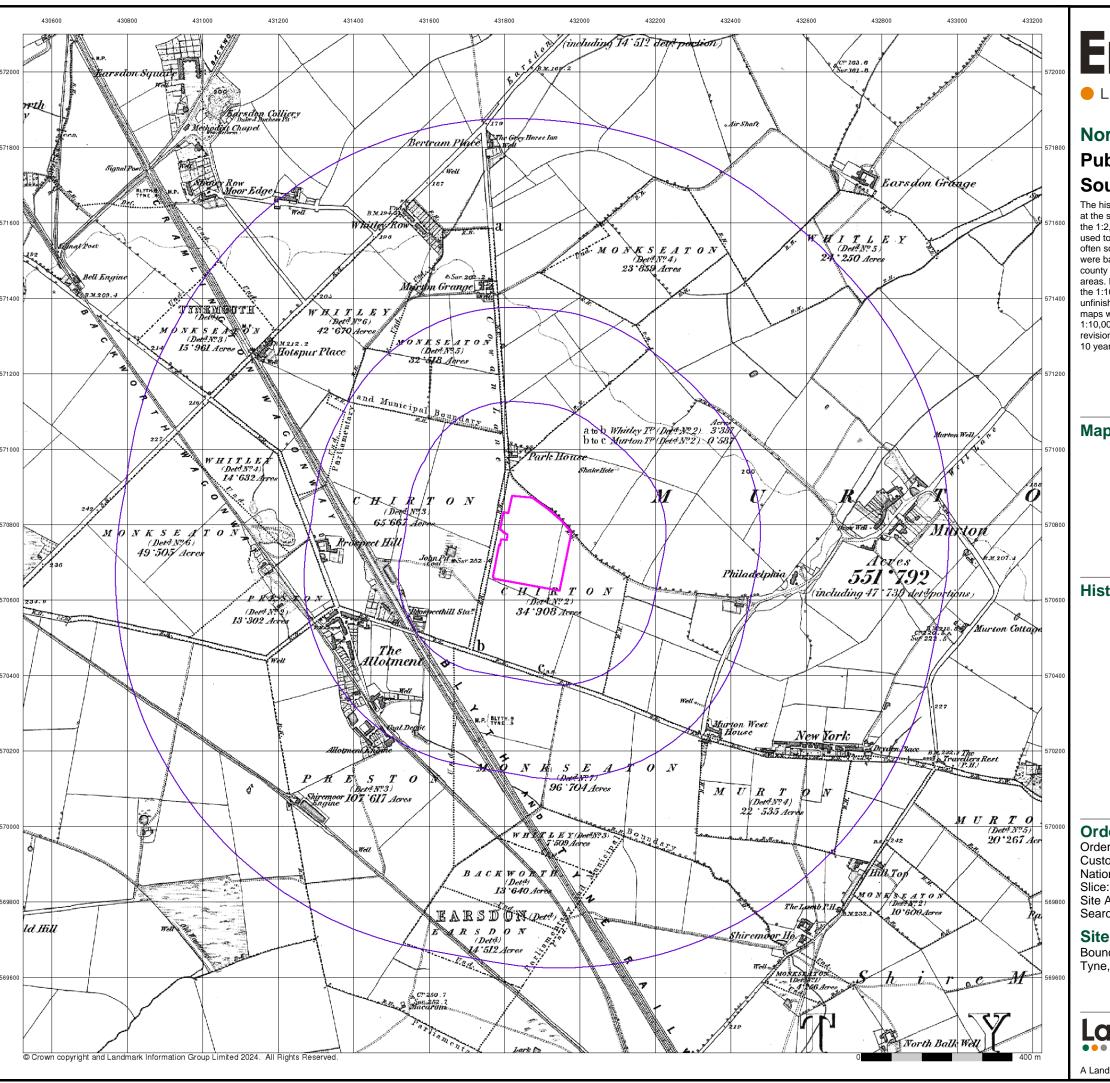
Site Details

Boundary Mill Stores, Park Lane, Shiremoor, Newcastle upon Tyne, NÉ27 0BS



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Northumberland

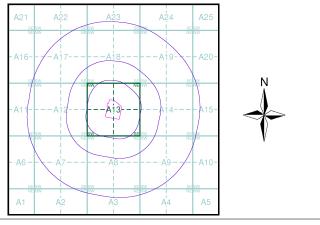
Published 1865 Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 333561911_1_1
Customer Ref: Boundary Outlet
National Grid Reference: 431870, 570740

Site Area (Ha): 3.73 Search Buffer (m): 1000

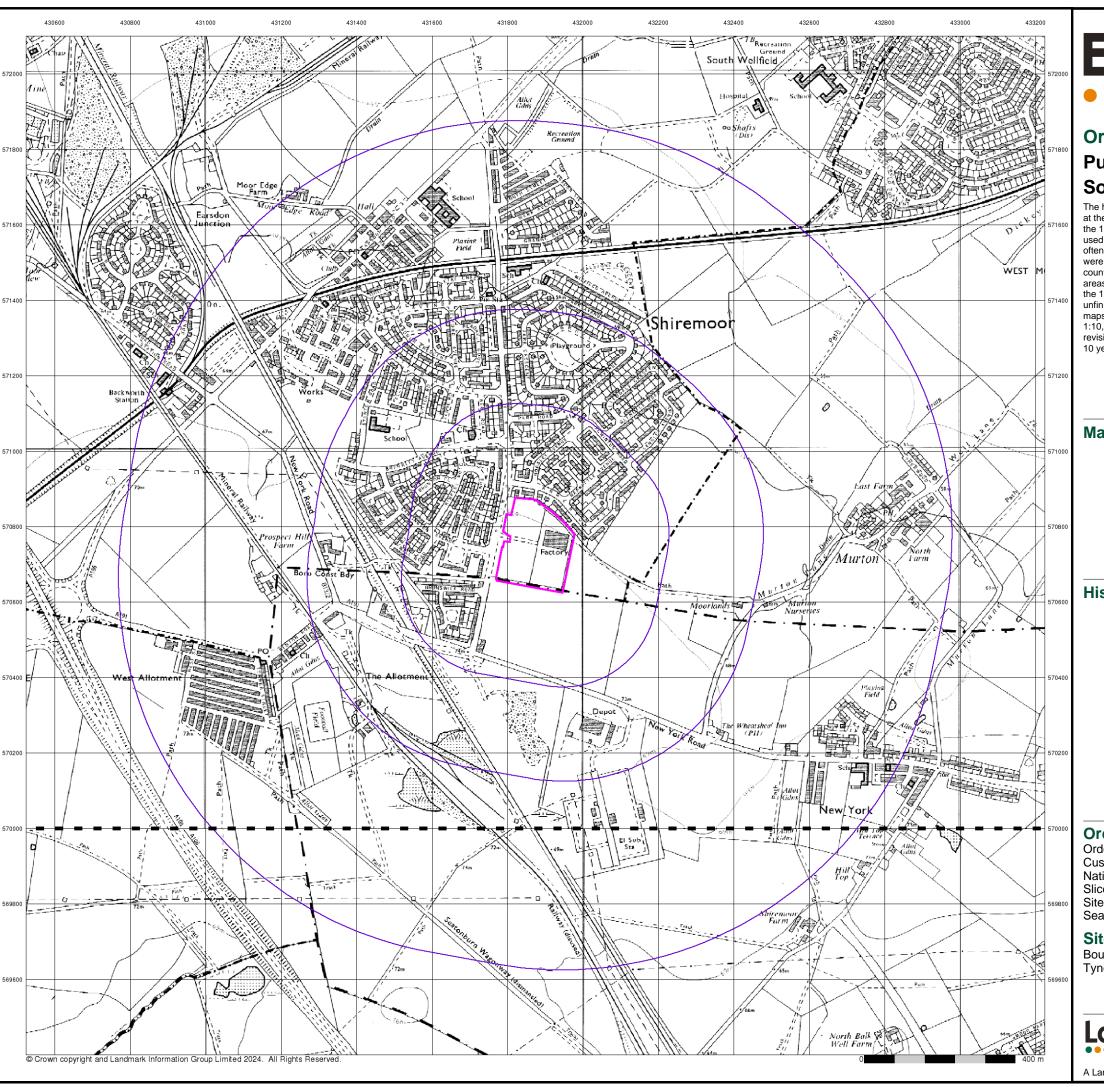
Site Details

Boundary Mill Stores, Park Lane, Shiremoor, Newcastle upon Tyne, NE27 0BS

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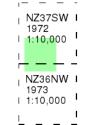


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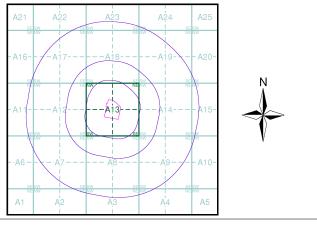
Ordnance Survey Plan Published 1972 - 1973 Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 333561911_1_1
Customer Ref: Boundary Outlet
National Grid Reference: 431870, 570740
Slice: A

Site Area (Ha): 3.73 Search Buffer (m): 1000

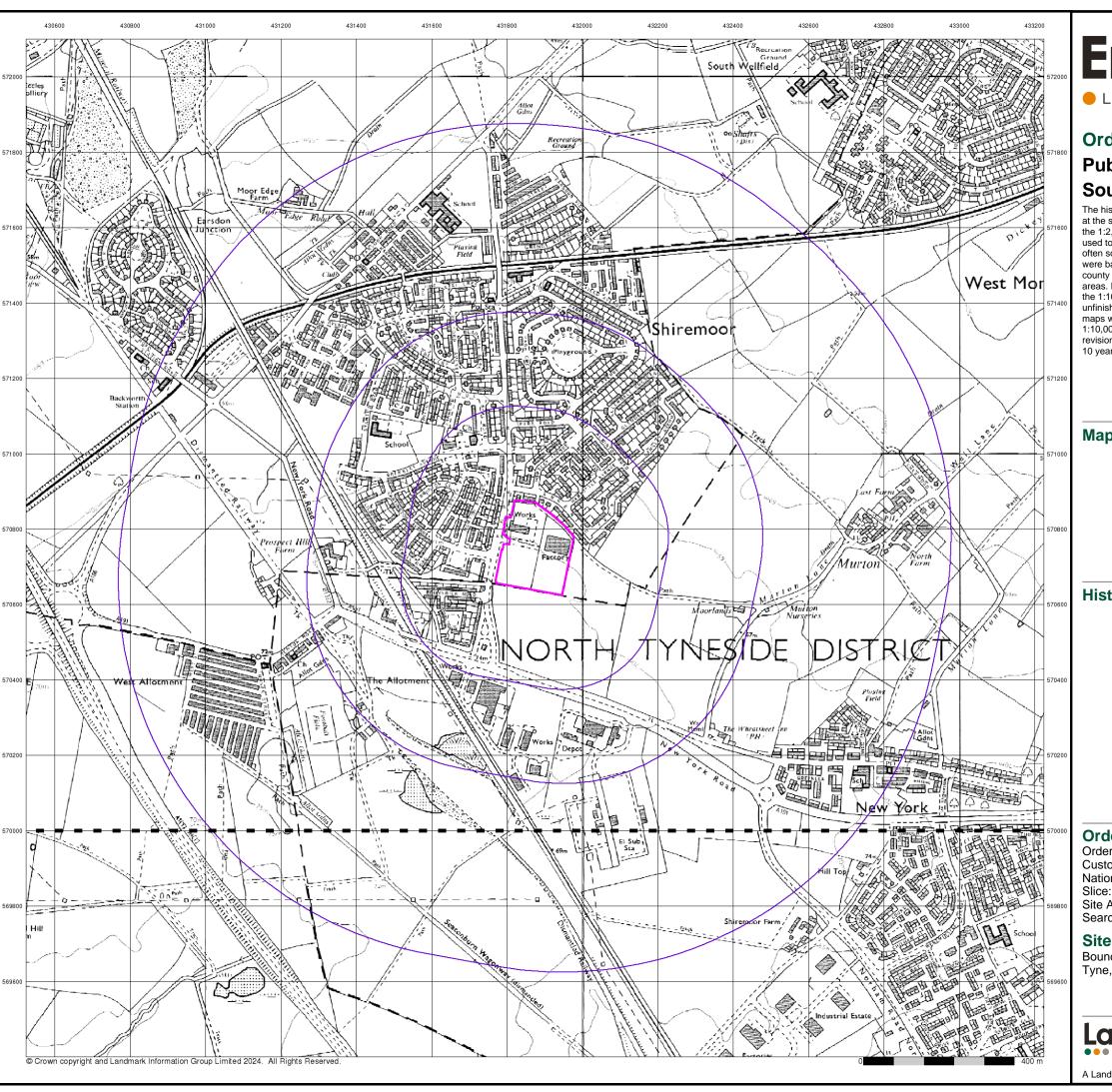
Site Details

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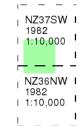
Ordnance Survey Plan Published 1982

Source map scale - 1:10,000

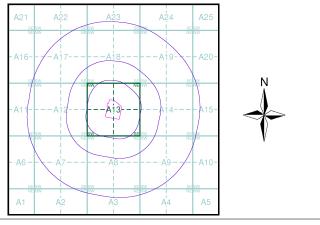
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England. Wales and Scotland in the 1840's. In 1854

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 333561911_1_1
Customer Ref: Boundary Outlet
National Grid Reference: 431870, 570740

Site Area (Ha): 3.73 Search Buffer (m): 1000

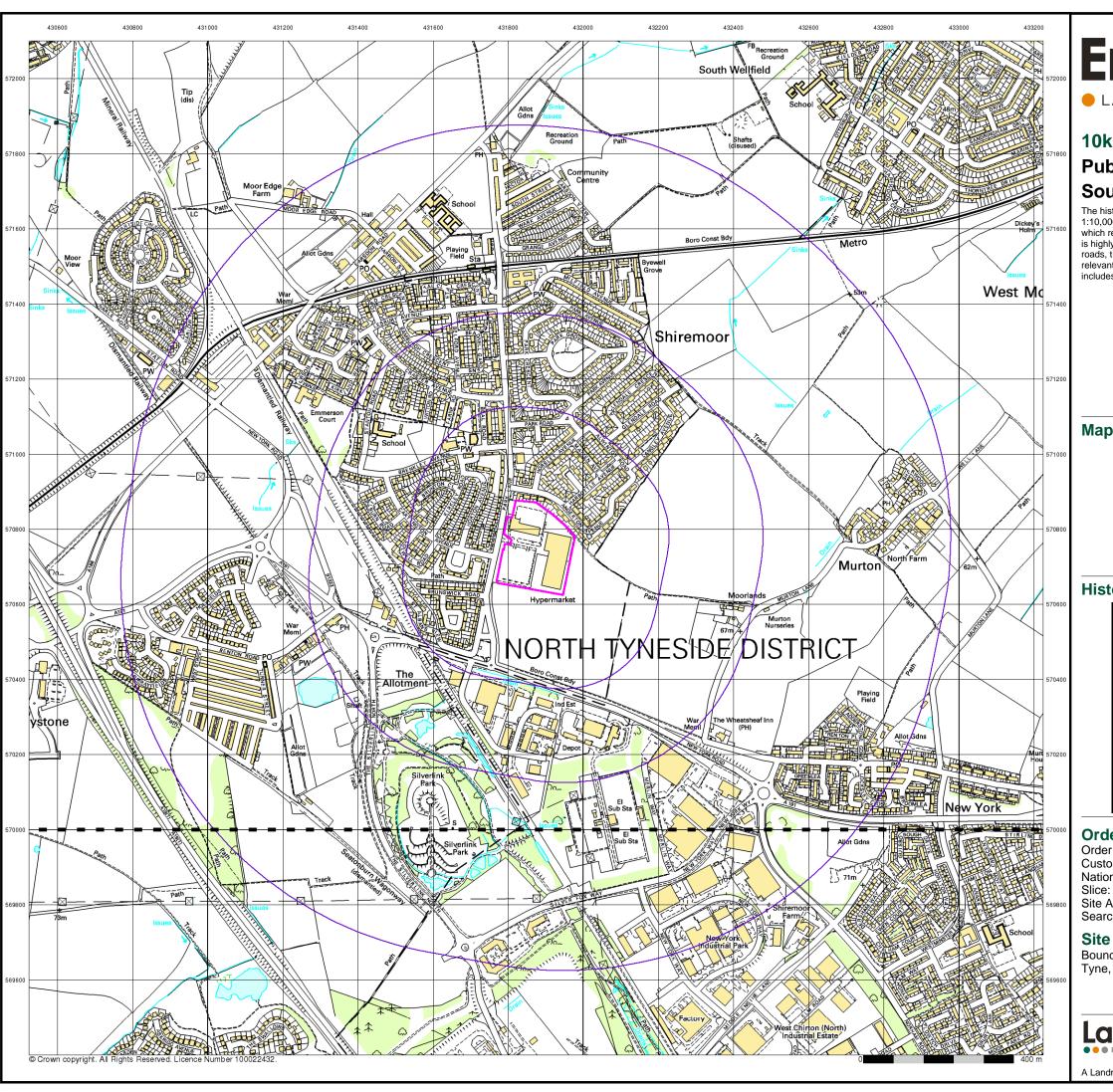
Site Details

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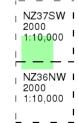


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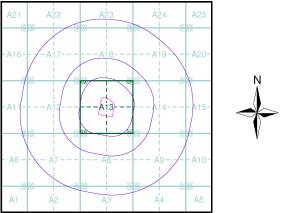
10k Raster Mapping Published 2000 Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 333561911_1_1
Customer Ref: Boundary Outlet
National Grid Reference: 431870, 570740

Site Area (Ha): 3.73 Search Buffer (m): 1000

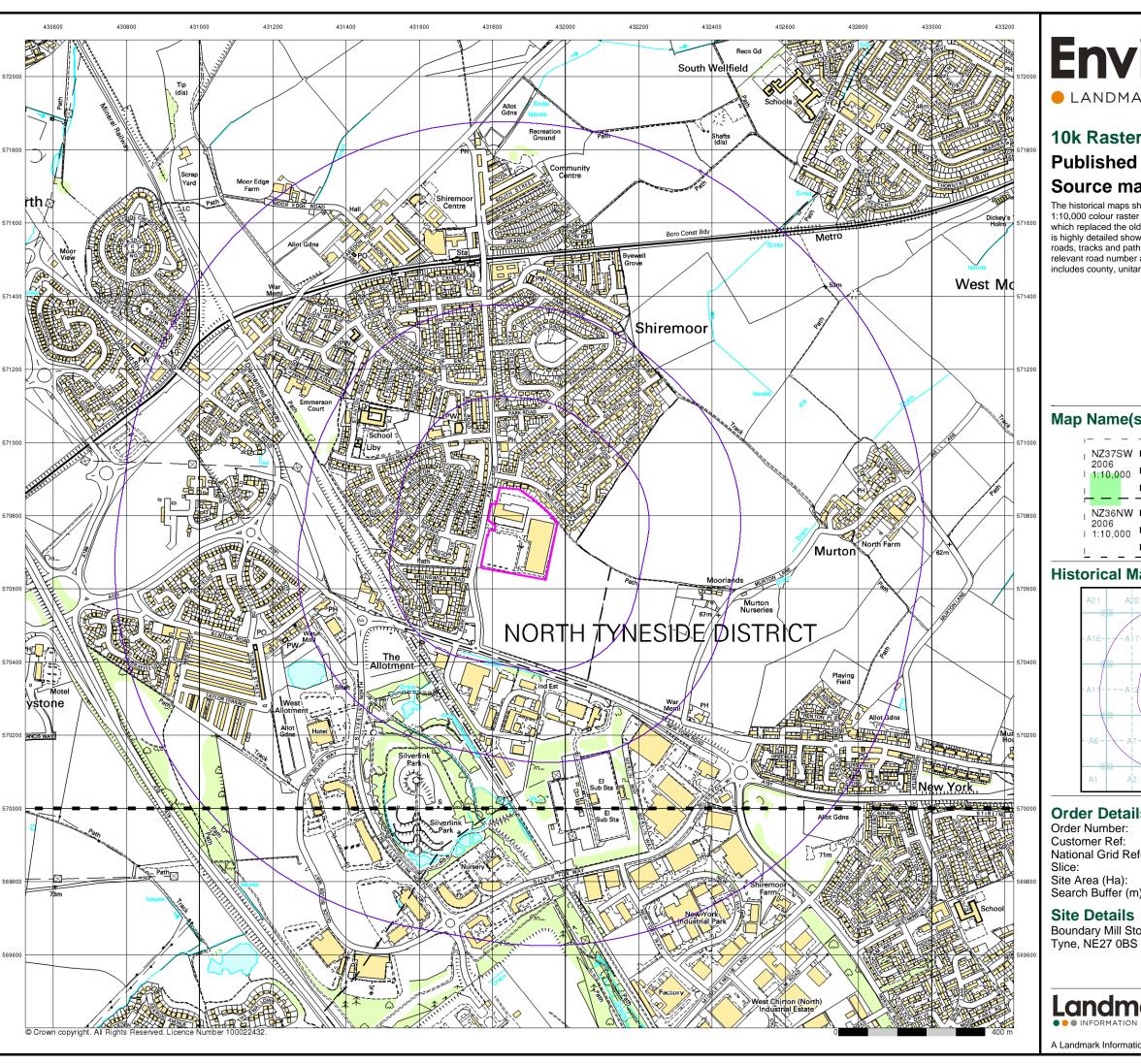
Site Details

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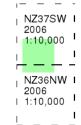


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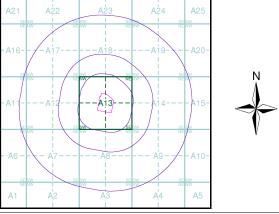
10k Raster Mapping **Published 2006** Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 333561911_1_1 Customer Ref: Boundary Outlet National Grid Reference: 431870, 570740

Site Area (Ha): Search Buffer (m): 3.73 1000

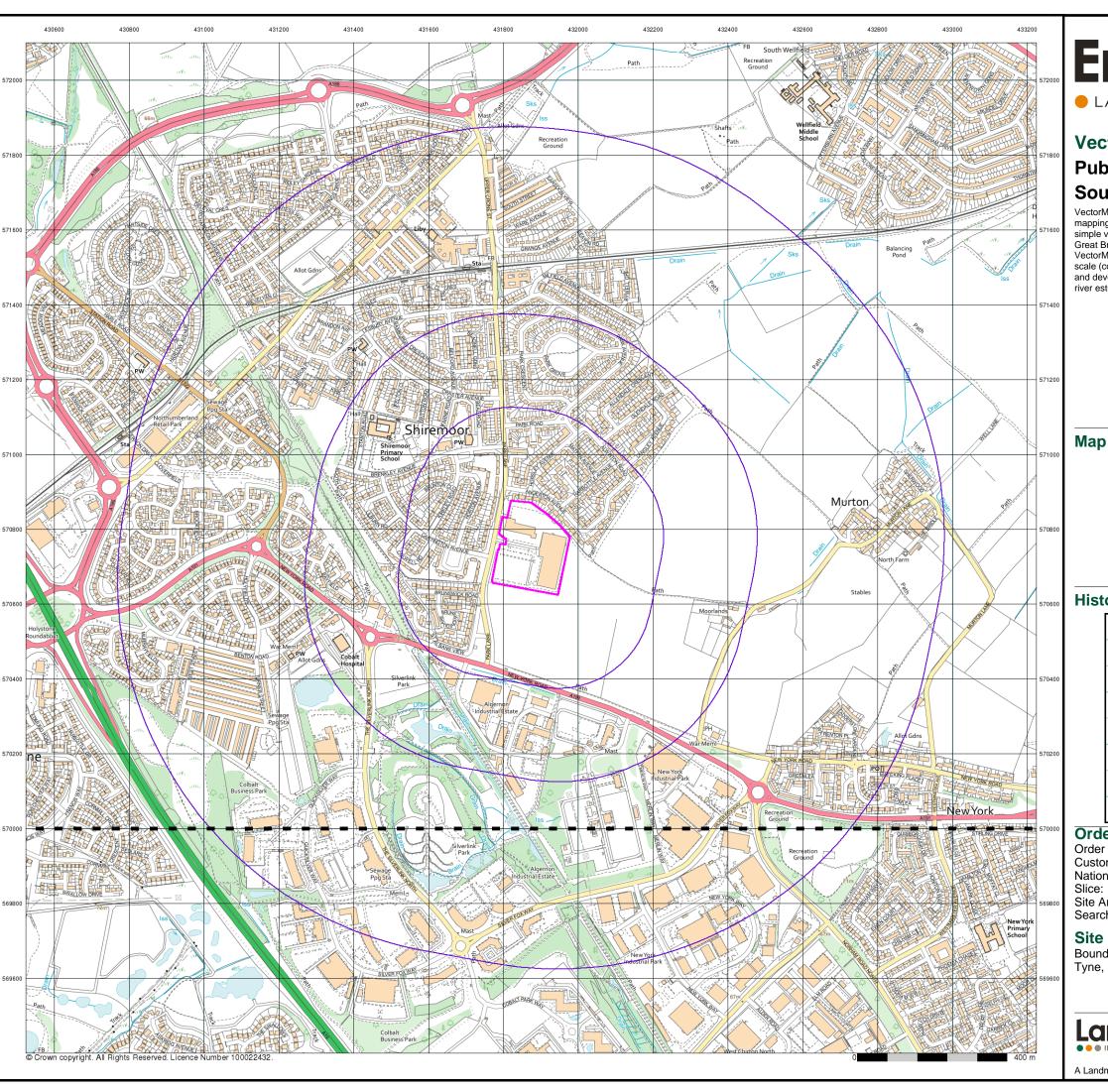
Site Details

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Landmark

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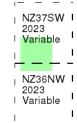


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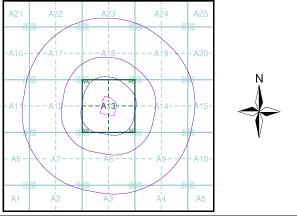
VectorMap Local Published 2023 Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 333561911_1_1
Customer Ref: Boundary Outlet
National Grid Reference: 431870, 570740

Site Area (Ha): 3.73 Search Buffer (m): 1000

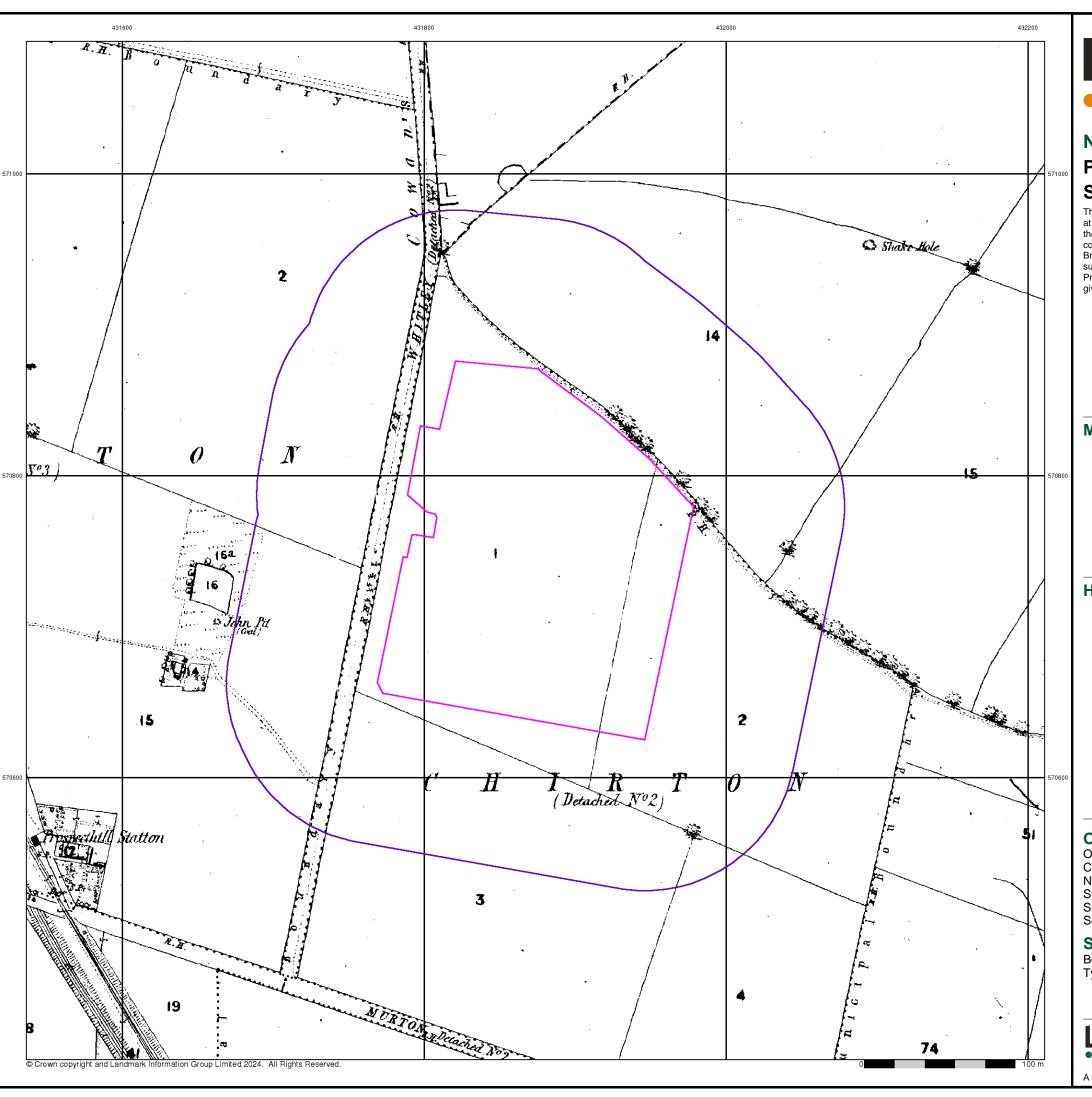
Site Details

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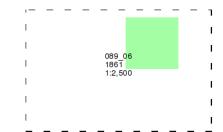
Northumberland

Published 1861

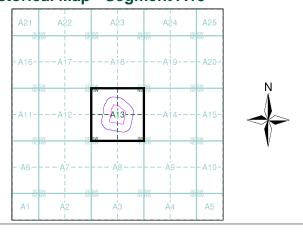
Source map scale - 1:2,500

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: 333561911_1_1
Customer Ref: Boundary Outlet
National Grid Reference: 431870, 570740
Slice: A

Site Area (Ha): 3.73 Search Buffer (m): 100

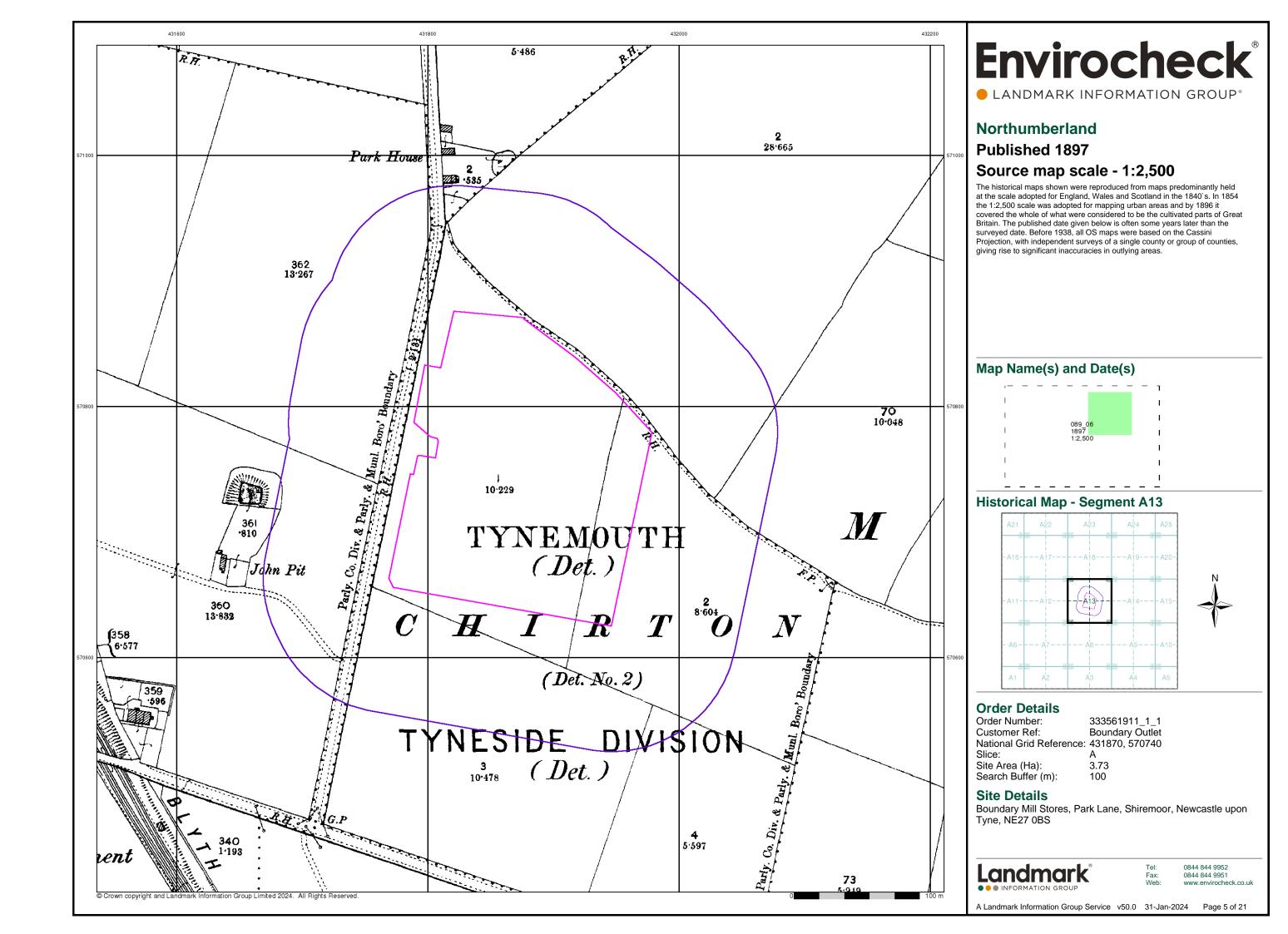
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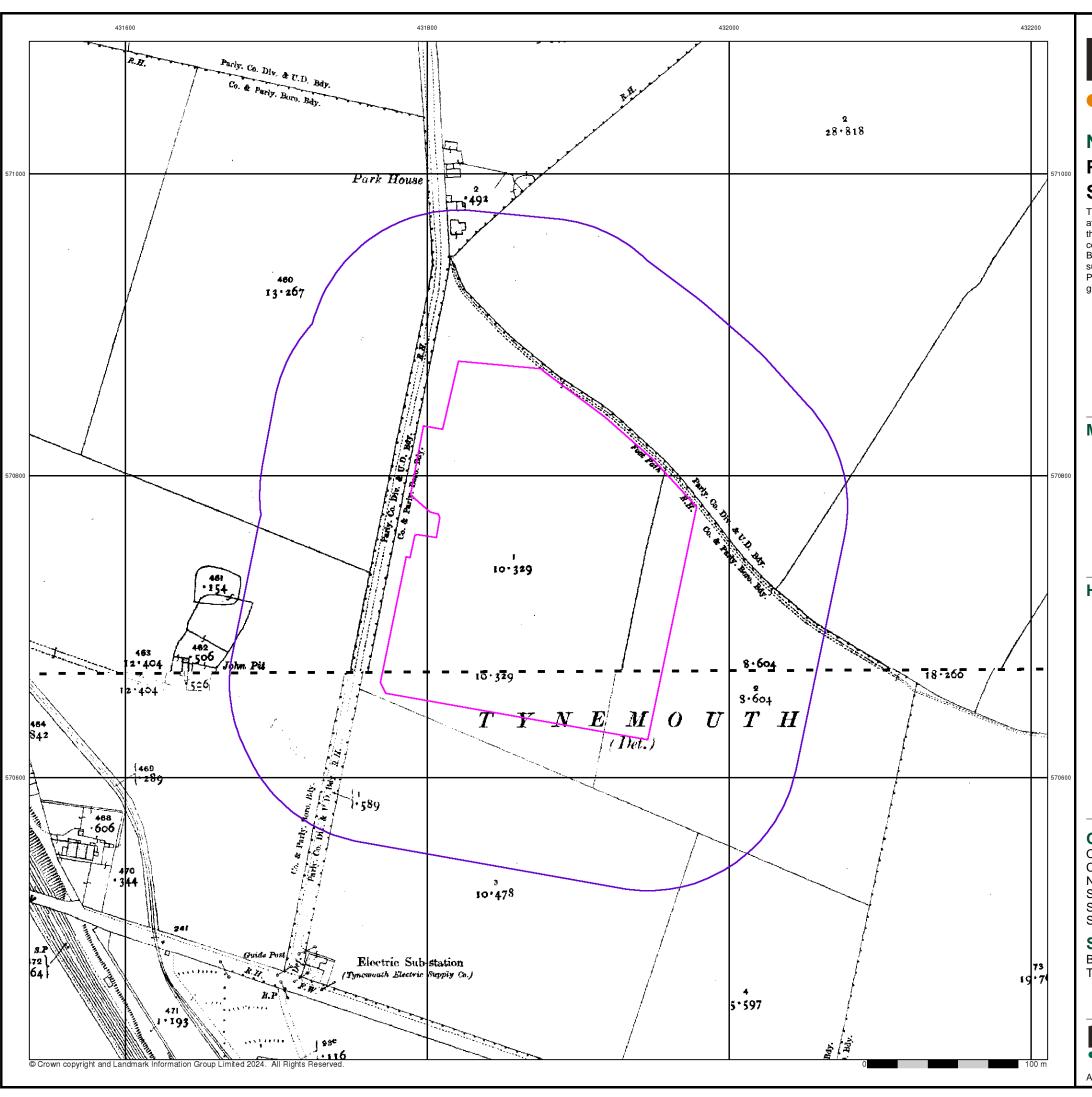
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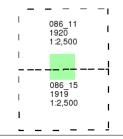
LANDMARK INFORMATION GROUP®

Northumberland

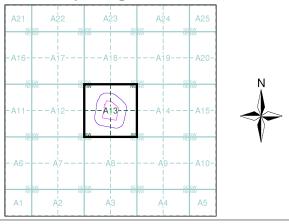
Published 1919 - 1920 Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 333561911_1_1
Customer Ref: Boundary Outlet
National Grid Reference: 431870, 570740
Slice: A

Site Area (Ha): 3.73 Search Buffer (m): 100

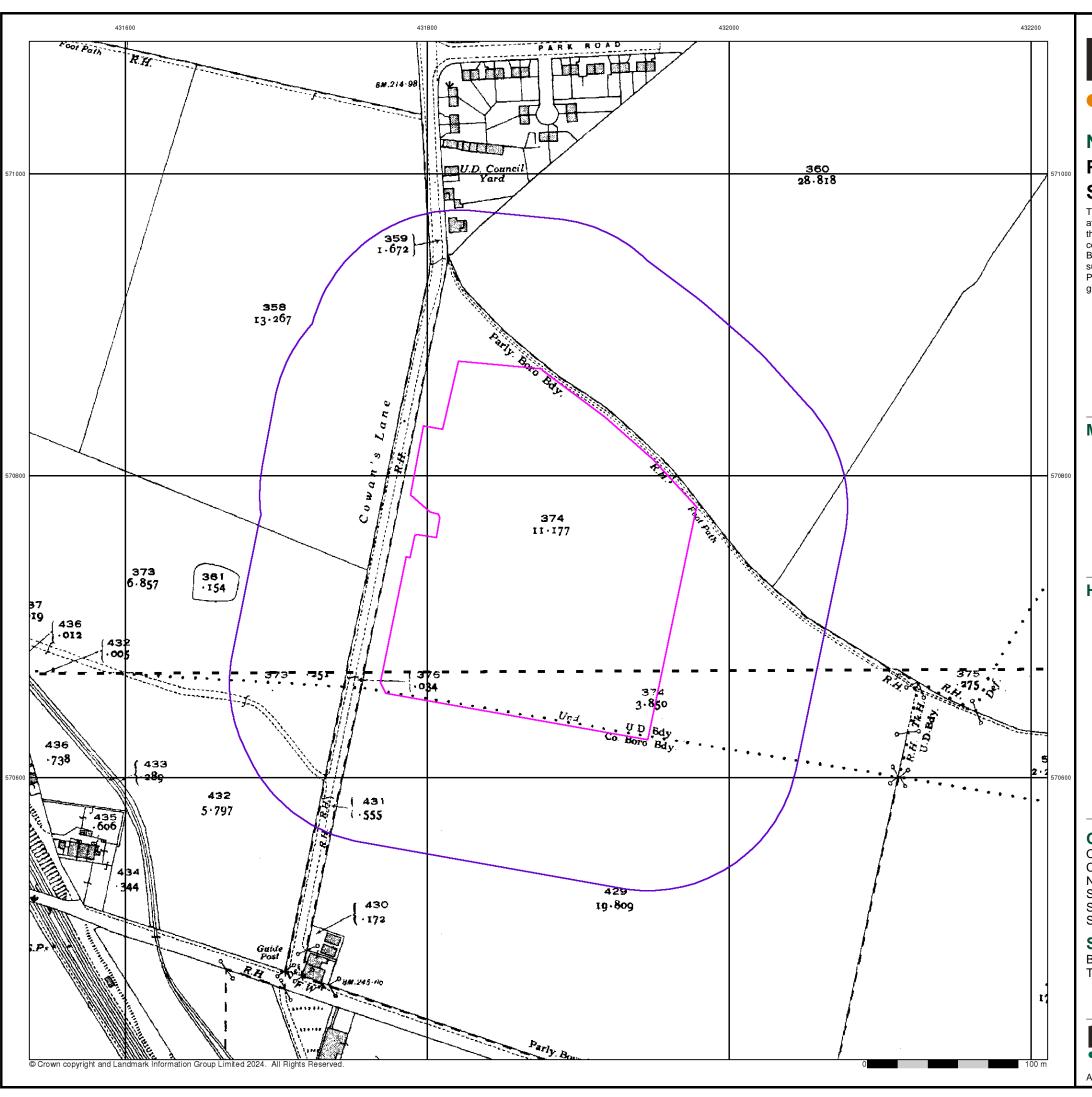
Site Details

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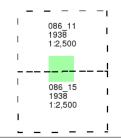
Northumberland

Published 1938

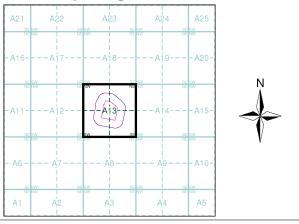
Source map scale - 1:2,500

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

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Historical Map - Segment A13



Order Details

Order Number: 333561911_1_1
Customer Ref: Boundary Outlet
National Grid Reference: 431870, 570740

Slice: A Site Area (Ha): 3.73 Search Buffer (m): 100

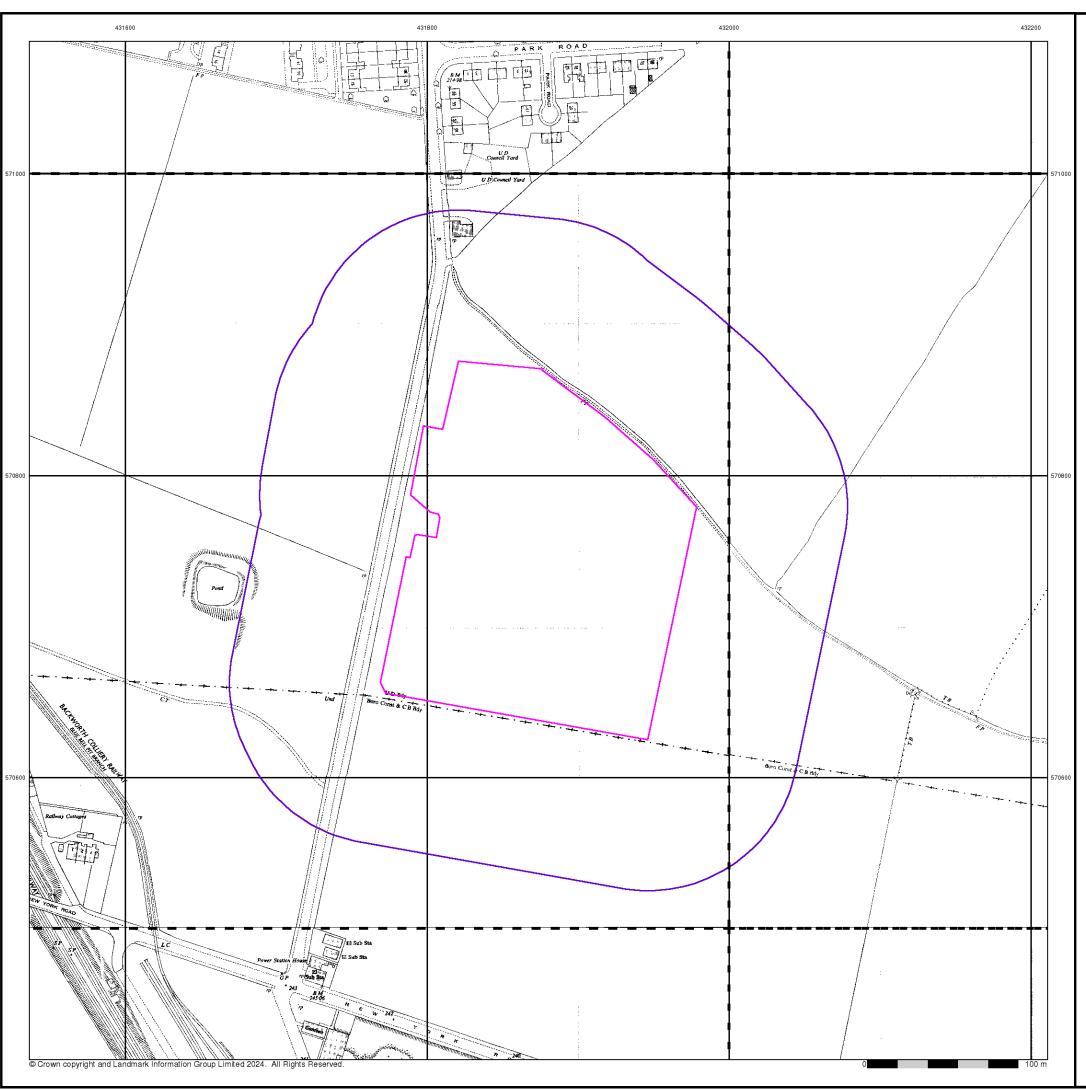
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Ordnance Survey Plan

Published 1955

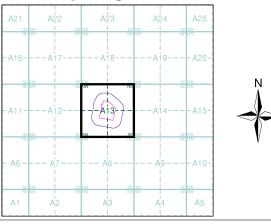
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

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|-------------------------|---|
| 250 :1,250 | I |
| 170NENZ3270NV | l |
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Historical Map - Segment A13



Order Details

Order Number: 333561911_1_1
Customer Ref: Boundary Outlet
National Grid Reference: 431870, 570740
Slice: A

Site Area (Ha): 3.73 Search Buffer (m): 100

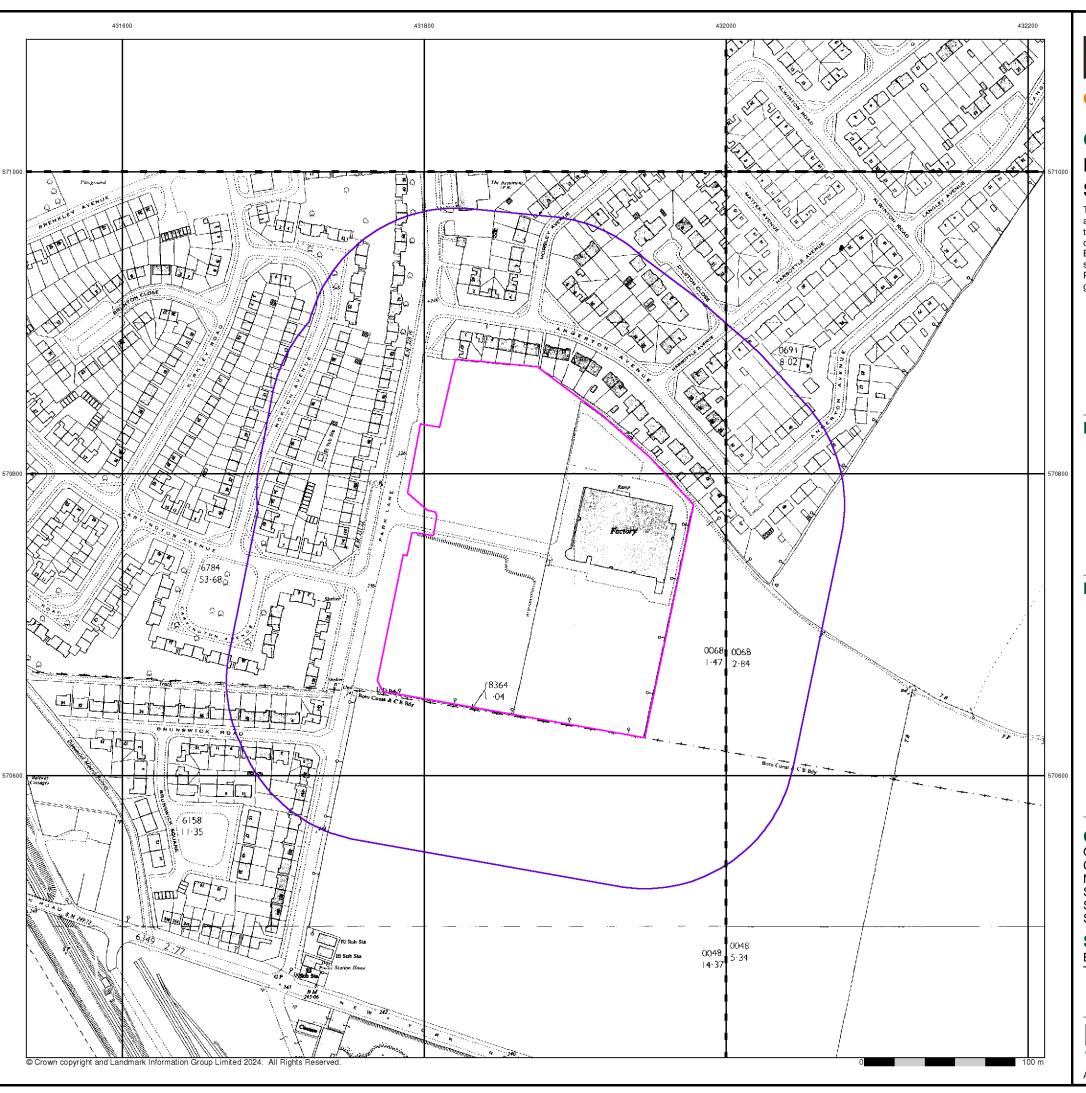
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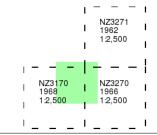
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Ordnance Survey Plan Published 1962 - 1968

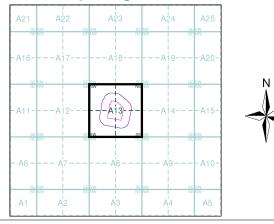
Source map scale - 1:2,500

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

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Historical Map - Segment A13



Order Details

Order Number: 333561911_1_1 Customer Ref: Boundary Outlet National Grid Reference: 431870, 570740

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

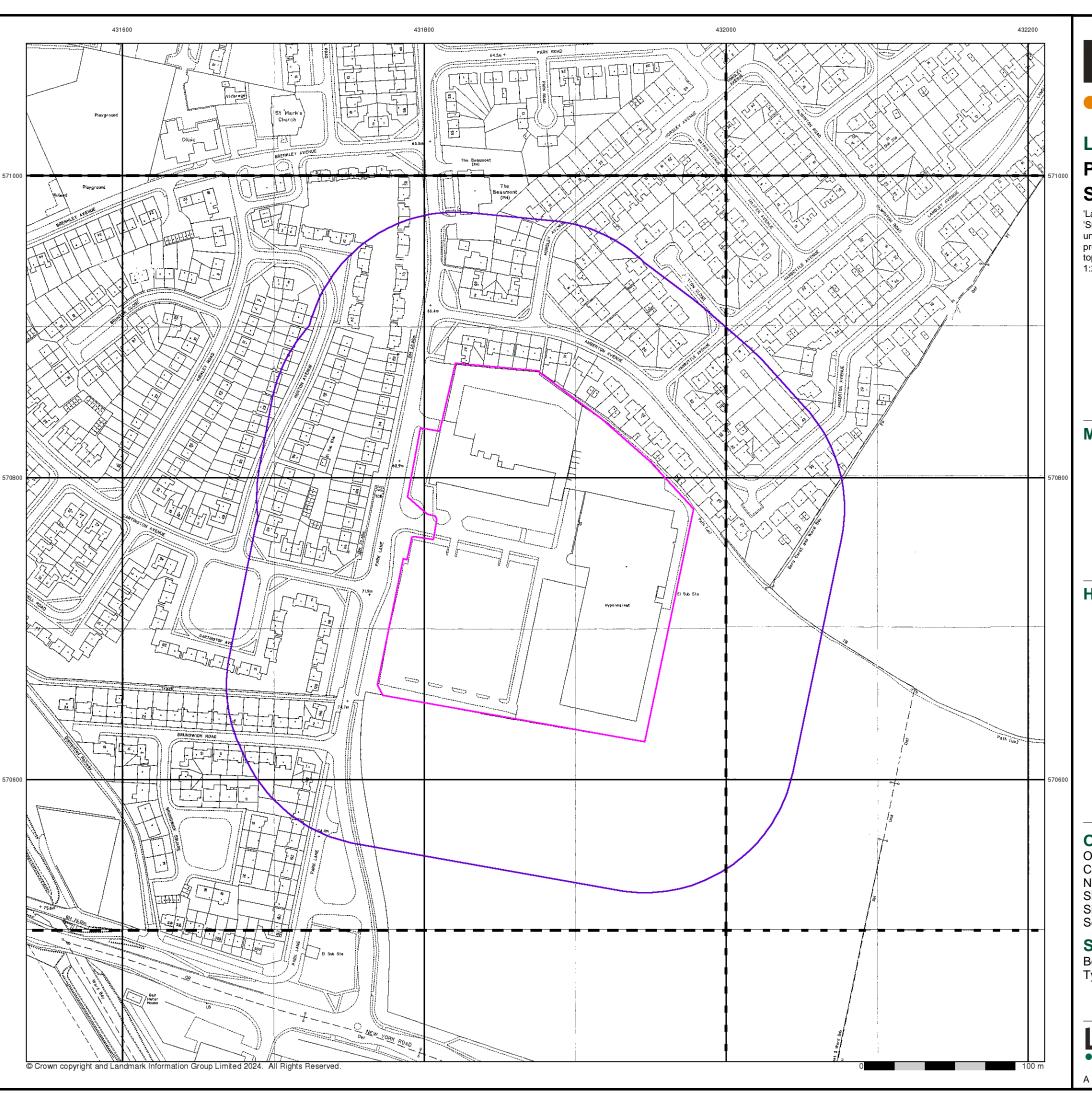
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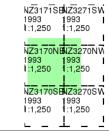
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Large-Scale National Grid Data Published 1993

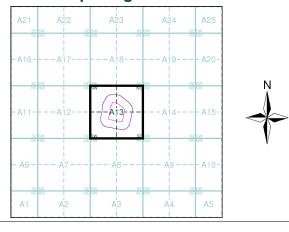
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 333561911_1_1
Customer Ref: Boundary Outlet
National Grid Reference: 431870, 570740
Slice: A

Site Area (Ha): 3.73 Search Buffer (m): 100

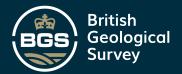
Site Details

Boundary Mill Stores, Park Lane, Shiremoor, Newcastle upon Tyne, NE27 0BS



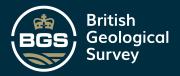
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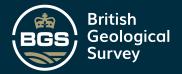


ALLIED EXPLORATION & GEOTECHNICS LIMITED

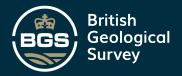
| | | | | | BO | OREI | HOLE | REC | CORE | | | Status:- | FINA 15/12/200 | |
|------------------------|------------------------|----------------|---------|----------------------------|---------------|----------------------------------|-----------------------|--------------------------|---------------------------|---|---------------------------|-----------------------------|-------------------|-------------------------|
| roject: | | | | Shirem | oor Floo | d Relief S | cheme, Nort | h Tynesid | e | | | Explo | ratory Ho | ole No |
| Client: | North | umbrian | Water | Limite | d | L | ocation: | F:43187 | 5.235 N:570 | 1831 322 | |]] | BH-03 | |
| Aethod & Equipr | nent: Cable Pe | rcussion | using a | a Pilcor | ı Wayfar | er 1500 | | Ground Leve | | | Date: 27/09/2006 | Sheet: | 1 of 1 | |
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| 2.10 | JCh5 | | | | | | | | | | | | | |
| 2.40-2.85 2.50-2.90 | SJ6 B7 | N12 | | | <u></u> | - | | | | | | | | |
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| 3.50 | U8 | (100) | | ļ | | (5.20) | below c. | 3.50m BGI | very stif | ff. | | | | |
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| 4.50-4.95 4.55-5.10 | SJ10 B11 | N32 | | | | | | | | | | | | |
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| 5.50 | U12 | (140) | 6 | | | - | | | | | | | | |
| | 0.2 | (1.10) | | | 9. | - | | | | | | | | |
| 6.00 | J13 | | | | | - | | | | | | | | |
| 6.35 | J14 | | | 61.330 61.130 61.030 | | 6.30 - (0.20) _{6,50} | | | | eds with carl | onaceous N | MUDSTON | E | |
| 6.50 | SJ15 | 50 for 81mm | | 61 030 | | (0.10)6.60 | \\ (Recove | ly weather ed as very | clayey very | gravelly sa | nd). | | | |
| | | | | | | | \(1) Dark Borehole | grey SHA complete | LE (carbona at 6.60m B | iceous muds GL. | tone). | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | ļ | ļ | } | | | | | | | | | | |
| В | oring Pr | ogress an | d Wate | er Obse | rvations | | | Chiselling | 3 | Water | Added | | GENERA | L |
| Date | | Depth | Cas | sing | Casing Dia | Water Depth | From | То | Hours | From | To |] | REMARK | S |
| 7/09/2006 | | 0,00 3,00 | | 00 | 150mm | de. | 6.40 | 6.60 | 1.00 | 1.20 3.00 | 3.00 6.50 | (1) Descrip drillers dai | ly report. | |
| 8/09/2006 | | 3.00 6.60 | 3. | 00 | 150mm | dry dry | | | | 3.00 | 0.50 | (2) Inspect drilling. | ion pit dug | prior to |
| 8/09/2006 | | 0,00 | 6. | 40 | 150mm | dry | | | | | | | | |
| 1 | | | | | | | \parallel | | | | | ļ | | |
| | | | | | | | | | | | | | | |
| All dime | nsions ir cale 1:50 | | | | For e | xplanation | of symbols a | ınd | Ch | ecked by: | Logge I. Uj | d by: | | act No. |



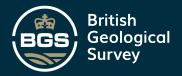
| IA G | | Stephenson Northumber | land | e, wyic | 2111 | | SHEET No. 1 of 2 |
|----------|-----------------|--------------------------|------|----------------------|--------------|-----------------------|---------------------------------|
| ONTRA | ACT D | ARK LANE, S | | anc | | | DEDON'T NO |
| Dai | | Samples at | | REPORT No. 84/N/164C | | | |
| Progress | | In-Situ Te | 7 | round Le 1.54m | A.O.D. | DESCRIPTION OF STRATA | |
| Date | Ground Water | Levels A.O.D. | Туре | Key | Depth | Reduced Level | |
| 11.75 | | 71.34 | J | | | | TOP SOIL. |
| | | 71.14 | J | | -0.4 | 71.14 | 101 B01H. |
| | ļ. ļ | 70.94 | U | | | | (0) |
| | F | Ξ . | | | | | Firm to stiff mottled yellow gr |
| | | _ | 1 | | - | | |
| | F | - - | | | F | | brown sandy CLAY with coal and |
| | | 70.04 | J | | E | | sandstone fragments. |
| | | - · · · · | - | | E | | Weathered BOULDER CLAY. |
| | | 69.54 | υ | | - -1.9 | 69.64 | weathered Doubler Clai. |
| | (| - 07.74 | | | - | | (69) |
| | 10 | | | • | <u> </u> | | BGS REGISTRATION,NO. |
| | | | | | - | | NZ 37 SU/82/6 |
| | | - - 68.79 | J | -:- | _ | | PAGE NO. 1 |
| | | - - - | | 7.5 | Ē | | 1002 110. |
| İ | E | <u>.</u> | | | _ | | • |
| | E | - (0.01 | | K A | | | |
| | E | 68.04 | U | | | | |
| | | - | | | | | (🔏 |
| | <u> </u> | - | | | | | |
| | þ | 67.29 | J | | - | | Ctiff and could be seen |
| | ļ | - 01.27 | " | | _ | | Stiff grey sandy CLAY with |
| | þ | • | | | _ | | coal, sandstone fragments and |
| | F | • | | | - | | large boulders. |
| | | 66.54 | U | | | | |
| | | .61 | | | - | | (29) |
| | | 66.09 | J | | - | | |
| | | | | | _ | | |
| | E | | [| | _ | | |
| | · [| - | | | <u> </u> | | |
| | <u> </u> | • | | | _ | ! | |
| | þ | • | Ì | | - | | |
| | | 64.74 | J | | | | |
| | F | , ~ 11 T | | | | | |
| | Е | | | | | | BOULDER CLAY. |
| . [| E | 64.14 | J | 区月 | | | |
| | E | • | | | 7.6 | 63.94 | · |
| - 1 | þ | • | | | - | | Firm grey sandy shaly CLAY. |
| MARKS | | | 1 | 1.11 | - | | Broj sama, bliari, olivir. |
| MARKS | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | 100 | | | | | | |
| 11 = | Undisturbed | | | | | | |



| Daily Samples and Ground Level Progress In-Situ Tests 71.54m A.O.D. | | | | | | | • | <u> </u> | 84/N/164C |
|---|-------|------------------|---------|--|-------------------------|------------------|---------------------------|---------------|-------------|
| Date Ground Water | | Levels A.O.D. | Туре | Key | Depth | Reduced Level | DESC | RIPTION OF ST | RATA |
| .11.75 ont. | | 63.04 | J | // // // // // // // // // // // // // | | | Firm grey s | sandy shal | y CLAY. |
| 9.5m | Nil | 62.34 | N(50) | 17:1- | - - - - 9.5 | | Dense coars grey shale | se yellow | SANDSTONE w |
| | (3 | 5) | | | - | 95. | End of Bore | | N, NO. |
| | | | | (0) | | | | | (BQ |
| | (ş | 35) | | | | | (BCG) | | |
| | | | | (8) | 9 | | | | BE |
| REMARKS | * No. | of blows | for 75m | nm per | - netrat | ion only | (BC) |) | |



| ONTRA | ACT PA | RK LANE, S | HIREMO | OR. | | | | REPORT No. | 1 of 2 84/N/1640 |
|---------------|-----------------|---------------------------|--------|-----|-----------------------|------------------|--------------------------------------|-------------------------------------|---------------------|
| Dail Progr | v | Samples an In-Situ Tes | d | G | Fround Le | vel A.O.D. | | | 0 17 17 10 40 |
| Date | Ground Water | Levels A.O.D. | Туре | Key | Depth | Reduced Level | DESCE | RIPTION OF ST | RATA |
| .10.75 | | 68.04 | U | | 35) | | Firm to sti | ff mottled | yellow |
| | | 67.04 | J | | | | grey brown and sandsto Weather | | ts. |
| | 8 | 66.44 | В | | -2.2 | 66.34 | (200) | | 1000,000,000 |
| | | 65.59 65.34 | J | | | | NZ 3 | REGISTRATI 37 SW / 80 E NO. \ | • |
| | | 64.04 | J | | | | `, | | (90 |
| | | 63.64 | υ | | - | | Stiff grey and sandsto | | |
| | | 62.74 | J | | - - - - - | | | | |
| · | | 62.14 | U | | 5 | | | | BO |
| | | 61.04 | J | | - | | вои | LDER CLAY. | |
| MARKS | B | 59) | | | 1 | | (BGS) |) | |



| | | Northumbria Stephenson Northumber | Terrace | | | SHEET No. 2 of 2 |
|-----------------|-----------------|---|---------|----------------|-----------|--|
| CONTRA | ACT P | ARK LANE, S | | OR. | | REPORT No. 84/N/164C |
| Dail Progr | ly | Samples ar In-Situ Te | nd | | | |
| Date | Ground Water | Levels A.O.D. | Туре | 68.54n | | DESCRIPTION OF STRATA |
| 1.10.75 ont. | | | | 8.4 | 15 60.09 | See 1 of 2. |
| | | 59.44 | J * | | 15 59.39 | Stiff grey sandy shaly CLAY with coal fragments. |
| 9.7m | Nil | 59.29 | N(50) | | 70 58.84 | Dense coarse yellow SANDSTONE with grey shale partings. |
| | NII | 5 6 | | E | 70.01 | End of Borehole. |
| | \3 | | | | | BGS RESISTRATION NO. NZ 37 SW 8217 PAGE NO. 2 |
| | | | | | | DE STATE OF THE ST |
| | (e | | | | | (BGS) |
| | | | | | | (BC) |
| REMARKS | * No. | of blows i | Por 75m | m penetra | tion only | |
| U = | Undisturb | | | J = Jar Sample | ·· | |