COMBINED PHASE I & II GEOENVIRONMENTAL GROUND INVESTIGATION REPORT (GIR)

Proposed Commercial Development,

Crossgate, South Shields

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Client Name	Modo Bloc Limited
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Stokesley Office
Office 8 Navigation House
16 Ellerbeck Way
Stokesley
North Yorkshire
TS9 5JZ
Tel: +44 (0)1642 927420
info@rwo.group
www.rwo.group

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CONFIDENTIALITY STATEMENT

This report is addressed to and may be relied upon by the following:

Modo Bloc Limited
Unit A
Picton Manor
Ellison Place
Newcastle upon Tyne
NE1 8XG

This Geoenvironmental Ground Investigation Report (GIR) has been prepared for the sole use and reliance of the above-named parties. This report shall not be relied upon or transferred to any other parties without the express written authorisation of RWO Group. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party.

LIMITATIONS STATEMENT

This GIR presents observations and factual data obtained during our desk study searches, ground investigation, and provides an assessment of geoenvironmental issues with respect to information provided by the Client regarding the proposed development. Further advice should be sought from RWO prior to significant revision of the development proposals. The report should be read in its entirety, including all associated drawings and appendices. RWO cannot be held responsible for any misinterpretations arising from the use of extracts that are taken out of context.

The GIR includes an assessment of numerous sources of third party information, such as but not limited to: desk study search data, drillers logs and chemical and geotechnical laboratory test results. All reasonable care and skill has been applied in examining the information obtained however RWO cannot and does not guarantee the authenticity or reliability of third-party information it has relied upon.

Where a site visit / walkover survey has been undertaken by RWO as part of the Preliminary Investigation (if included), RWO can only report features present at the site at the time of the visit. RWO cannot be held responsible for any feature/land use etc. associated with the site which may have been present either prior to or following the site visit.

Intrusive ground investigation can only investigate shallow ground beneath a small proportion of the total site area. It is possible therefore that the intrusive investigation undertaken by RWO, whilst comprehensive, may not have encountered all significant subsurface ground conditions. Consequently, no liability can be accepted for conditions not revealed by the exploratory holes. Any opinion expressed as to the possible configuration of strata between or below exploratory holes is for guidance only and no responsibility is accepted as to its accuracy.

It should be not that groundwater levels are susceptible to seasonal and other variations and may be higher during wetter periods than those encountered during the time period of the ground investigation and/or monitoring programme. Furthermore, the timescale over which the investigation was undertaken may not allow the establishment of equilibrium groundwater levels.

The GIR has been produced in accordance with the current relevant guidance and practice as set out within British Standards BS10175:2011+A2:2017 - Investigation of potentially contaminated sites, BS5930:2015+A1:2020 – Code of practice for ground investigations, and BS EN1997-1:2004+A1:2013 – Eurocode 7. Geotechnical design – Part 1 General rules, the Contamination Risk Management web pages and the National Planning Policy Framework (NPPF). This report presents and interprets the factual information reviewed during this investigation and presents a Conceptual Site Model (PCSM) from which ground-related hazards and risks have been assessed.

The GIR can be considered a Geotechnical Category 1 Report in accordance with BS EN1997-1:2004+A1:2013, or as a preliminary investigation in a Geotechnical Category 2 situation.

It has been assumed in the production of this report that ground levels will not change significantly from existing. If this is not the case, then amendments to the recommendations made in this report may be required.

Where the report refers to; the potential presence of invasive/toxic plants (such as Japanese knotweed, Himalayan Balsam etc.), any other ecological related matter, archaeology or asbestos-containing materials, such observations are for information only and should be verified by a suitably qualified expert.

DOCUMENT HISTORY

VERSION	PURPOSE/DESCRIPTION	DATE
1	First Issue	30 August 2023

1.0 EXECUTIVE SUMMARY

The site is located off Crossgate in South Shields, approximately 1.17km east of Newcastle-upon-Tyne (NGR 436470, 566730) The site occupies an area of 0.29 hectares (0.72 acres). The site was previously of commercial use comprising of an office block with associated hardstanding. The site currently comprises of concrete slabs, brickwork and hardstanding associated with that former use, with some semi-mature shrubs and trees predominantly to the borders of the site, There is a significant drop in height across the site, within the south and east approx. 1m lower as a result of possible foundations/brick walls left insitu. Historically, the site was a brick field with associated quarry until the late 1890s, with the quarry likely infilled sometime between 1860s and 1890s. By 1915 the site was developed with housing which was cleared in the 1960s. By the early 1980s the site was developed with an office block and associated parking which remained until the early 2010s.

RWO Associates Ltd (RWO) were commissioned by Modo Bloc Limited to provide a geoenvironmental appraisal of the site. It is understood that the site is to be redeveloped with commercial/retail development; a proposed layout is provided in Figure 2. RWO's investigation included a preliminary desk based assessment followed by an intrusive ground investigation.

An executive summary of salient geoenvironmental issues is provided in the table below. The full report should be read in its entirety as there may be other information contained in the main body of the report which puts into context the findings summarised below. No reliance should be placed on the executive summary in isolation, particularly when deriving design detail/abnormal costs.

Issue	Remarks
Preliminary Assessment	The combine phase 1/phase 2 ground investigation has identified significant thicknesses of made ground at the site (up to 7m thick). However, based on the proposed end-use, no significant contamination with the potential to impact on human health has been identified within the site. It should be noted however, that potential sources have been identified within the immediate surrounding area, and it is recommended that ground workers remain vigilant and report any suspected contamination.
Fieldwork	The fieldwork was carried out by RWO between 17 July 2023 of 20 July 2023 comprising: • 4 No. Trial Pits • 3 No. Cable Percussion boreholes, 2 with rotary hole follow-on
Ground Conditions	Generally 0.1 to 0.3m of tarmacadam or concrete over made ground of various soil types up to 7m thick, over Glaciolacustrine Deposits of firm to stiff medium to high strength greyish brown/brown mottled grey slightly sandy to sandy silty CLAY, over possible Devensian Till of stiff very high strength grey /greyish brown slightly gravelly slightly sandy to sandy CLAY. Bedrock of mudstone was located between 8.9 and 10.8m bgl. Made ground included: • Granular – cobbles/ boulders: Reddish brown sandy gravelly COBBLES and BOULDERS of brick, sandstone and concrete. • Granular – sand: Dark grey, sometimes slightly clayey or gravelly, fine to coarse SAND sometimes with low to high angular to subangular gravel or cobble content. • Cohesive - Firm brown mottled grey slightly sandy slightly gravelly to gravelly silty CLAY.
Coal Mining	Evidence indicates coal mining beneath the site, is not considered to present a risk to the proposed development.

Issue	Remarks
Groundwater	A strike was recorded at 2.9m bgl, and monitoring recorded levels between 3.28m and 3.85m bgl within made ground.
Ground Stability	Excavations within granular materials tended to collapse. Open excavations should be considered unstable.
Soakaways	The ground is considered unsuitable for soakaways, given the significant thickness of made ground.
Contamination	No olfactory evidence of contamination. Chemical analysis has not identified any determinands of concern to human health given the proposed end-use. However, potential sources off site have been identified including fuel station storage tanks and potentially infilled land. Therefore site workers should remain vigilant during construction works and report any concerns to a Geoenvironmental Engineer for additional advice.
Soil Waste Assessment	The soils tested would be classified as non-hazardous.
Ground Gas	The site is considered to be a Very Low Risk, Characteristic Situation 1 (CS1) with regards to ground gas, where no specific ground gas protection measures are required.
Foundations and Floor Slabs	It is considered that alternative foundation solutions including ground improvement or piles are the more appropriate, given the substantial thickness of made ground.
Flooding	The site is not considered to be at risk from flooding. A site-specific flood risk assessment (FRA) is unlikely to be a planning requirement for the site.
Invasive Species	Non identified. However, an ecological professional should be contacted for further advice.

Significant developer abnormals relating to geoenvironmental issues at the site are:

- Alternative foundations required given deep fill (>2.5m) throughout the site.
- Historical foundations remain insitu and will require grubbing out to facilitate development in some areas of the site.

Further work is not required at this time.

2.0 INTRODUCTION

RWO Associates Ltd (RWO) was instructed by Modo Bloc Limited (the Client) to undertake a Combined Phase I and II Geoenvironmental Ground Investigation of land off Crossgate, South Shields (the Site) prior to its proposed development comprising the construction of new commercial properties and associated infrastructure.

General notes and limitations relevant to all geoenvironmental ground investigations are described in the aforementioned limitations statement which should be read in conjunction with this report.

The primary objectives of this Ground Investigation were to support planning and identify potential geotechnical and environmental issues affecting the site to enable the Client to undertaken detailed design works and obtain budget costs for the necessary site preparatory and, if necessary, remedial works.

In order to meet the above objectives, the following scope of works has been undertaken;

- A Preliminary Investigation (desk study) including, a site walkover and inspection, an assessment of the land use history, determination of the site's environmental setting, the undertaking of a preliminary risk assessment and the formation of a preliminary conceptual site model.
- An intrusive ground investigation comprising trial pits, cable percussion boreholes, with selected rotary core follow-on boreholes including full time supervision by a geoenvironmental consultant and also supervision as required by a unexploded ordnance (UXO) expert
- Insitu geotechnical tests.
- Geotechnical laboratory testing.
- Chemical laboratory analysis.
- The production of a Ground Investigation Report (GIR), detailing the following;
- Assessment of the geotechnical properties of the near surface deposits to enable provision of foundation and highway recommendations.
- A qualitative assessment of contamination risks, with respect to potential receptors and derivation of a revised conceptual site model.
- Provision of recommendations with respect to supplementary ground investigation, site preparatory and remedial works, if required.

It should be noted that the ground investigation was severely restricted due to the abundance of surface and subsurface relic strictures, which meant that fewer exploratory locations were advanced than what was originally planned.

3.0 THE SITE

3.1 SITE LOCATION AND FEATURES

Information on the location and features of the Site is presented in the table below.

Detail	Remarks
Location	Crossgate, South Shields. At the junction of Crossgate and Claypath Lane. Approx. 11.7km east of Newcastle-upon-Tyne.
Nearest Postcode	NE33 4NU
National Grid Reference (NGR)	436470, 566730
Site Area	0.29 Ha
Known services	Statutory services are indicated within the site including medium pressure gas main and underground electrical cables.

The site location plan is presented as in Figure 1 in Appendix A, with an extract presented below.



Key

Site Location

The site is previously developed former commercial site.

The site is located in a mixed residential/commercial area with a number of commercial properties to the north, east and west, with a school and residential properties located to the south.

The site comprises concrete slabs and brickwork from former buildings and asphalt hardstanding and some pockets of surficial gravels and granular material. Semi-mature trees/shrubs, including numerous possible *buddleia*, are located predominantly to the borders of the site.

The site has a stepped topography with the north and west of the site approx. 1.0m higher than the south and east, as a result of possible foundations/brick walls left insitu. A low brick wall approx. 1m in height delineates the site boundary.

During the site walkover, there was no noticeable invasive vegetation.

Google Earth indicates the drops in elevation from approx. 14m AOD in the north to approx. 12m AOD in the south.

3.2 PROPOSED DEVELOPMENT

It is understood that the site is currently proposed for development with commercial properties comprising a new cafe in the west and a row of 3 No. retails units in the east, along with associated roads, parking, drainage and site infrastructure.

A Proposed Development Plan is presented Figure 2 in Appendix A, to this report.

4.0 SITE HISTORY

In order to investigate the development history and previous land uses at the site and immediate surrounding land, site centred extracts from Ordnance Survey (OS) maps, supplied by Landmark, dating back to 1857 were examined. These plans are presented in Appendix B to this report.

The Table below provides a summary of the salient points relating to the history of the site with respect to the proposed end use. It is not the intention of this report to describe in detail all the changes that have occurred on or adjacent to the site. Significant former uses/operations are highlighted in bold text for ease of reference.

Date(s)	Site	Surrounding Land
1857	'Anderson's Brick Field'	Area immediately surrounding the site is also part of 'Anderson's Brick Field'. Clay Path Lane forms southern boundary. Railway approx. 100m south and west. Hilda's Colliery approx. 250m west. General surrounding area appears to be mix of industrial and residential use.
1858	Earthworks within northeast indicate possible sloping ground to northeast with pond at base.	Railway to east is on embankment. Engine House approx. 70m south. Possible pond approx. 70m west.
1862	No significant changes.	Railway to south identified as Electric Telegraph.
1896 1897 1898 1899	Brick field and pond no longer shown.	Smithy approx. 80m northeast. Housing development increasing in the general area. Possible pond approx. 70m west no longer shown. Replaced by earthworks. Engine House no longer identified. Gas works and gasholder approx. 250m northwest.
1915 1921	Site divided in two by Readhead Street (north/south orientation) with housing to the east and west.	Housing and possible industrial building within the immediate surrounding area. Railway siding and associated earthwork approx. 70m west.
1938	No significant changes.	No significant changes.
1952 1957	No significant changes.	Town Hall Garage immediately north. Housing immediately south and possible industrial buildings immediately east appear to have been cleared. Smithy no longer shown. Wire rope works approx. 60m north Gas appliances repair works approx. 60m north.
1963 1967	Housing to immediate west appears to have been cleared.	Town Hall Garage immediately north replaced by Crossgate, with Club beyond. Town Hall Garage rebuilt approx. 40m north. Refuse tips located approx. 115m northwest. St Hilda Colliery no longer labelled, although shaft remains.
1968 1970	Housing cleared.	Public baths 100m south. Garage 80m north. Printing works 90m southwest. Telephone Exchange immediately east. Gas works no longer shown, gasholder remains.
1975 1976	Road through former housing estate remains.	School approx. 40m southeast. Telephone Exchange immediately east.
1982 1986	Duncan House offices located within north and east.	Gas appliance repair works no longer identified, buildings remain and identified as Readhead

1993 1998 2000		Buildings.
2023	Duncan House offices no longer shown.	Railway to the south and sidings to the west no longer shown. St Hilda shaft no longer identified.

Google Earth satellite imagery was also reviewed, the earliest image in 2001 shows Duncan House, with the remainder of the site utilised as car parking. It appears that sometime between 2002 and 2005 the building becomes disused, with a vacant car park, and remains so until sometime between 2012 and 2013 when the building is cleared from the site. By 2015, part of the site is used for car parking but by 2017, vegetation has become established along the boundaries and centre and remains like this until the present day.

5.0 GEOLOGY, GEO HAZARDS, AND MINERAL EXTRACTION

Sources of Information	BGS Online GeoIndex Onshore. BGS Lexicon of Named Rock Units. Coal Authority Interactive Map Viewer. Envirocheck Report, Ref. 313523724_1_1, dated 29 June 2023, enclosed within Appendix B. UK Radon Map [www.ukradon.org]
Made Ground	There is potential for undivided made ground to be present within the north or east of the site, and immediately adjacent to those locations off site. Undivided made ground is also indicated approx. 70m northwest of the site.
Superficial Geology	Glaciolacustrine Deposits clay and silt of Devesian age. Glaciofluvial deposits sand and gravel of Devesian age are indicated approx. 70m northeast.
Solid Geology	Pennine Middle Coal Measures Formation comprising interbedded mudstone, siltstone, sandstone and commonly coal seams.
Linear Features	Fault immediately adjacent to eastern boundary with north-northwest / south-southeast orientation.
Mining and Quarrying	Mining: According to the CA's Interactive Map Viewer the Site is within an area where a coal mining report should be obtained. Therefore, a Consultants Coal Mining Report has been purchased on the Clients behalf, the contents of which are discussed below and presented in Appendix B. The Envirocheck report states that there is No Hazard from Non-Coal Mining Areas or from man-made mining cavities or natural cavities. Quarrying: There are 11 No. BGS recorded mineral sites within 500m of the site. Of these 1 No. is located within the site for Anderson's Brick Field, an opencast for common clay and shale from the glaciolacustrine deposits which has ceased. 6No. are located within 250m of the site, these are located between 17m, and 240m from the site, all of which were opencast for common clay and shale from the glaciolacustrine deposits and have ceased operation. The remaining 4No. are located between 273 and 491m from the site, the closest was St Hildas Colliery an underground mine targeting the High Main Coal, now ceased. The other records are all ceased opencasts for common clay and shale from the glaciolacustrine deposits or till, or sandstone from the Grindstone Post Member.

Coal Authority Consultants Mining Report	The CA report records the shallowest worked seam at the site as the High Main at 150m with an extraction thickness of 2.15m last worked in 1825, and no probable unrecorded shallow workings. There are an additional 4No. records for workings between 225m and 280m below the site, within the Maudlin, Yard, Brass Thill and Hutton seams with extraction thicknesses between 1.0m and 2.03m. There are no mine entries, outcrops, faults, fissures or breaklines recorded within the site. There are also no recorded opencast mines or CA managed tips. The CA holds 2No. records for a mine gas incident/remediation located between 276m and 303m east of the site and is in an area of previous interest. It is close to where the CA has investigated and subsequently remediated the effects of mine or ground gas emissions following specific reported hazards. The CA note that the site requires further investigation, and recommends obtaining a CA Authority Mine Gas Emission Report for additional information. However, based on the distance from the site, these mine gas incidents are not considered to be significant.
Ground Stability Hazards	The ground stability hazards and associated risk listed within the site area are as follows: • Collapsible Ground – very low • Compressible Ground – very low to **moderate** • Ground Dissolution – no hazard • Landslides - very low • Running Sand – no hazard to very low • Shrinking/Swelling of Clay - low

BGS Boreholes	A number of historical borehole logs for within the site and immediate surrounding area are shown to be held by the BGS; brief details of these are provided below: From ground level to between 4.0 – 7.0m bgl Made ground (brick rubble, ashes, grey and brown clay and timber) with greatest depths in the centre and north. Concrete slabs noted from 4.8m to 5.3m bgl within centre of site. Underlain by soft to firm grey brown laminated silty CLAY within some silty laminations. From between 10.50m and 11.85m bgl Very stiff and hard, grey shaley CLAY with weathered mudstone fragments with some thin coal seams (Coal Measures) or hard very weathered brown SANDSTONE (probably Coal Measures) Bedrock of Hard weathered grey shaley MUDSTONE with some thin coal seams (Coal Measures) or hard from between 11.75m and 14.50, proven to depths of between 12.60m and 15.45m, with greatest depths in the centre and west. Boreholes immediately east of the site describe some bedrock as SILTSTONE from 12.30 to 13.00 with greasy 'slikenside' faces. Some boreholes extended to 31.20m bgl, and recorded interbedded sandstones, shales, gritstones, siltstones. Water flush was lost at 20.0m within a jointed sandstone. No significant coal seams, voids, of soft spots were recorded within the logs, within the rock. Groundwater records where available: Fast strike 3.0m or 3.3m within made ground – centre and north. Seepage 7.0m within base of laminated clay, sealed at 10.0m – south of site.
Radon	According to the UKRadon.org, the site is located within a medium probability Radon Affected Area where no radon gas protective measures are required. The Envirocheck states the site is in a Lower probability radon area where less than 1% of home are estimated to be at or above the Action Level and no radon protective measures are necessary in the construction or new dwellings or extensions. In accordance with the Health and Safety at Work etc Act 1974 and The Management of Health and Safety at Work Regulations 1999, employers are required to undertake risk assessment for potential exposure to radon gas in the following scenarios: • all below ground workplaces in the UK; and • all workplaces located in radon Affected Areas Further information can be provided by the Health and Safety Executive (HSE).

6.0 ENVIRONMENTAL SETTING

Following a review of the Envirocheck report supplied by Landmark and other sources of environmental information a summary of the environmental setting of the site is provided in the sections below.

6.1 HYDROGEOLOGY AND HYDROLOGY

Hydrogeology	The site area is underlain by superficial deposits of Glaciolacustrine Deposits clay and silt which are classified as an Unproductive Aquifer. Unproductive Aquifers are defined as largely unable to provide usable water supplies and are unlikely to have surface water and wetland ecosystems dependent on them. The solid geology beneath site is classified as a Secondary A Aquifer, these are defined as aquifer that comprise permeable layers that can support local water supplies, and may form an important source of base flow to rivers. The groundwater vulnerability for the site is designated as Low Vulnerability, Secondary Aquifer with a low pollutant speed.
Water Abstractions	There are no water abstractions listed within 500m of the site.
SPZ?	The site is not within 1km of a Source Protection Zone.
Water Network Lines/Surface Water Features	The closest water network line/surface water feature is approx. 604m west and is likely to refer to the River Tyne.
River Quality Records	There are no River Quality data within 1km of the site.

6.2 LANDFILL, WASTE MANAGEMENT ACTIVITY AND INFILLED GROUND

Details of records of landfill, waste management activities, and infilled ground within and within 250m of the site are recorded in the table below.

Record Type	Records Located on Site	Records within 250m of Site
BGS Recorded Landfill Sites	None	None
Historical Landfill Sites	None	None
Integrated Pollution Control Registered Waste Sites	None	None
Licensed Waste Management Facilities	None	None
Local Authority Recorded Landfill Sites	None	None
Registered Landfill Sites	None	None
Registered Waste Transfer Sites	None	None
Registered Waste Treatment or Disposal Sites	None	None

6.3 INDUSTRIAL LAND USE

Details of records of industrial land uses within and within 250m of the site are recorded in the table below.

Record Type	Records Located On Site	Records within 250m of Site
Contemporary Trade Directory Entries	None	69 No. records with 250m, of these, 13No. are located within 100m, of these only 2No. are active and comprise: 1. Petrol filling station: 24m northwest. 2. Garage services: 83m northwest
Current Petrol or Fuel Sites	None	1 No. record within 250m and comprises: 1. Petrol filling station: Esso: 24m northwest.
Historic Petrol or Fuel Sites	None	2 No. records within 250m and comprises: 1. Petrol filling station: Town Hall Service Station: 56m north. 2. Petrol Filling Station: Esso Service Station: 67m northeast
Garage Services or Related Records	None	7 No. records within 250m and comprises: active: 1. 83m northwest 2. 204m north 3. 242m southwest Inactive: 1. 209m southwest 2. 215m north 3. 226m northwest 4. 240m north
National Grid High Voltage Underground Electricity Transmission Cables	None	None
National Grid high-pressure Gas Transmission Pipelines	None	None
Historic Railways	None	Approx. 70m south
Current/Active Railways	None	Approx. 55m west

6.4 ENVIRONMENTAL PERMITS, INCIDENTS AND REGISTER ENTRIES

Details of records of environmental permits, incidents and register entries within and within 250m of the site are recorded in the table below.

Record Type	Records Located on site	Records within 250m of site
Contaminated Land Register Entries & Notices	None	None
Discharge Consents	None	None
Prosecutions Relating to Controlled Waters	None	None
Enforcement and Prohibition Notices	None	None
Integrated Pollution Controls (IPCs)	None	None
Integrated Pollution Prevention Controls (IPPCs)	None	None
Local Authority Integrated Pollution Prevention and Control	None	None
Local Authority Pollution Prevention and Control	None	2 No. records: 1. PG1/14 Petrol filling station: permitted, approx. 56m north. 2. PG6/34 Respraying of road vehicles: authorised, approx. 234m north.
Local Authority Pollution Prevention and Control Enforcements	None	None
Pollution Incidents to Controlled Waters	None	None
Prosecutions Relating to Authorised Processes	None	None
Registered Radioactive Substances	None	None
Substantiated Pollution Incident Register Entries	None	None
Water Industry Act Referrals	None	None
Control of Major Accident Hazard Sites (COMAH)	None	None
Explosive Sites	None	None
Notification of Installations Handling Hazardous Substances (NIHHS)	None	None
Planning Hazardous Substance Consents	None	None
Planning Hazardous Substance Enforcements	None	None

6.5 ENVIRONMENTALLY SENSITIVE SITES

Details of records of environmentally sensitive sites within and within 250m of the site are recorded in the table below.

Record Type	Records Located on site	Records within 250m of site
Ancient Woodlands	None	None
Adopted Green Belt Area	None	None
Unadopted Green Belt Area	None	None
Area of Outstanding Natural Beauty (AONB)	None	None
Designated Environmentally Sensitive Areas	None	None
Forest Parks	None	None
Local Nature Reserves (LNR)	None	None
Marine Nature Reserves (MNR)	None	None
National Nature Reserves (NNR)	None	None
National Parks (NP)	None	None
Nitrate Sensitive Zones (NSZ)	None	None
Nitrate Vulnerable Zones (NVZ)	None	None
RAMSAR Sites	None	None
Sites of Special Scientific Interest (SSSI)	None	None
Special Areas of Conservation (SAC)	None	None
Special Protection Areas (SPA)	None	None
World Heritage Sites	None	None

6.6 ECOLOGY AND INVASIVE/TOXIC SPECIES

A detailed ecological assessment falls outside of the scope of this report, and therefore if detailed ecological advice is required, a specialist ecological consultant should be contacted for further advice.

During the walkover survey no toxic/invasive plant species were observed. This should be verified by a suitably qualified expert.

6.7 ARCHAEOLOGY AND OTHER DESIGNATIONS

An archaeological assessment falls outside of the scope of this report and therefore if detailed archaeological advice is required, a suitably qualified expert should be contacted for further advice.

6.8 POTENTIAL FLOOD RISK

A detailed assessment of flood risk is outside the scope of the report, however the Envirocheck Report and Government website identify specific information for the site and surrounding area with regard to flood risk. This information is listed below:

- Very low flood risk from rivers of the sea.
- Located within Flood Zone 1, with low probability of flooding from rivers and the sea.
- Very low flood risk from surface water.
- Outwith flood risk area from reservoirs.
- Does not lie in an area benefitting from flood defences.
- Does not lie within a flood storage area.
- Northern corner of site has the potential for groundwater flooding to occur at surface.

6.9 ASBESTOS

It is considered possible that any structures within the site boundary could contain asbestos and an ACM survey would be recommended should they be disturbed as part of the development works. There is always the possibility that asbestos fibres may also be present in any made ground beneath the site and/or the possibility that asbestos was used historically in any buildings on site.

Prior to any works occurring on-site, it is recommended that site soils are tested for the presence of asbestos. Should any structures need to be disturbed as part of these works, then it is recommended that a demolition/refurbishment ACM survey is undertaken.

6.10 UNEXPLODED ORDNANCE (UXO)

A UXO Risk Map has been obtained from Zetica Ltd. This indicates that the site is in a High risk area, with respect to UXO. The Risk Map is presented as Appendix C.

Zetica Ltd was instructed to undertake further assessment of the site in the form of a Pre-Desk Study Assessment (PDSA), the results of which are presented in Appendix C. Zetica have identified several strategic WW1 and WW2 targets in the vicinity of the site. In addition, records have indicated several HE bombs fell in close proximity of the site. Zetica therefore recommended a that a detailed desk study should be commissioned to assess the risk further.

RWO also sought advice from Macc International Ltd (Macc), a specialist UXO contractor who also confirmed the requirement for a detail Phase I UXO Desk Study. In lieu of undertaking the detailed Phase I UXO Desk Study at this time, Macc were commissioned by RWO to provide a watching brief during the ground investigation, which included the use of a downhole probe within boreholes to detect any anomalies which had the potential to be UXO.
A detailed Phase I UXO Desk Study and mitigation plan should be undertaken prior to any construction activities commencing on site.

7.0 PREVIOUS REPORT

RWO Group have not been made aware of any previous investigations on or within the near vicinity of the site. However, a review of the South Shields Planning Portal encountered one (1 No.) relevant report by GEO Environmental Engineering, of a Phase 1: Desk Top Study Report (Preliminary Risk Assessment) for a Proposed Commercial/Retail Development at the site, dated 18-12-2015. The report does not provide any additional information.

8.0 SITE WALKOVER

A Site Walkover/Inspection was undertaken on the 17th July 2023, the findings of which are summarised below. A site features plan including site photographs is presented as Figure 3 in Appendix A.

Site Access is via Claypath Lane which runs adjacent to the southern site boundary. The site access was previously blocked by a soil bund which was removed prior to the ground investigation by RWO with permission from the Client. The site boundaries are mainly formed by low-level brick walls (c. 0.5-1.0m tall) which are generally in a state of disrepair. Public access to site is possible through gaps in the boundary walls.

The terrain is generally flat and rough and is surfaced by a mixture of hardstanding asphalt and loose surface gravels. The northern and eastern portions of site are raised c. 1.0m-1.5m above ground level, and the terrain slopes up relatively steeply to meet these areas. This is most likely remnants of the previous building footprint. These areas are relatively flat and surfaced with concrete slabs; to the east of site the slab is covered by relic tiles visible at surface level.

Overgrown vegetation in the form of shrubs and small trees, are sporadically present surrounding the boundary areas and largely growing in gaps between any hardstanding across the site.

Evidence of demolition materials (bricks, concrete, etc) present within superficial gravels, with frequent anthropogenic waste and litter present sporadically across the site. There is a small pile of anthropogenic waste (plastic, cardboard, etc) present in the southeastern corner of site.

A relic service cover was observed near the site entrance, which was filled with concrete and too heavy to lift. A relic gas service cover is also present in the east of site.

The site boundary is surrounded to the north, south and west by public footpaths. A school is present across Claypath Lane to the southeast of the site and this road is used as a pick-up/drop-off point during weekdays. The building present to the immediate east of the site appears to be occupied by BT.

A site features plan including site photographs is presented as Figure 3 in Appendix A.

9.0 PRELIMINARY CONTAMINATION RISK ASSESSMENT

The following paragraphs outline a Preliminary Risk Assessment (PRA) for the site based on the above desk study information.

Figure 4, attached in Appendix A to this report, presents the Preliminary Conceptual Model (PCM) which considers the Source-Pathway-Receptor linkages present alongside the probability, consequence and risk level as defined RWO's Risk Assessment and Conceptual Site Model processes as presented in Appendix D, to establish if there is the potential for unacceptable risk.

The PCM considers whether a plausible pollution linkage is potentially present and provides a preliminary qualitative assessment of risk based on the information currently available. Where a possible linkage is identified, it does not necessarily mean that a significant risk exists but indicates that further information is required through appropriate site investigation to test and refine the conceptual site model.

Set out below are all identified potential contamination sources, pathways and receptors associated for the site in the context of the proposed commercial end use.

Potential Sources:

The site has previously been a 'brickfield' as such it appears to have been a quarry for clay, likely later infilled sometime between 1862 and 1896. Sometime between 1899 and 1915 the site was developed with housing which remained until the late 1960s. The site appears to remain vacant until sometime between 1976 and 1982 when Duncan House – a commercial development, was constructed and subsequently cleared sometime between 2012 and 2013.

The site is located within a coal mining area; records indicate coal mining at the site is at a significant depth, although records have identified gases associated with coal mining as a concern approx. 270m east of the site.

Previous ground investigations at the site indicate a significant thickness of made ground recorded up to 7m thick of including ashes and timber.

Present day and former petrol filling stations have been identified in close proximity to the site (c.24m northwest, 56m north and 67m northeast), which are likely to include petrol and diesel underground storage tanks.

Therefore potential sources of contamination are:

- Contaminated made ground associated with the infilling of a former clay quarry.
- Contaminated made ground associated with the previous housing development.
- Offsite sources which could migrate onto site including leaks from petrol/diesel tanks.
- Hazardous ground gas associated with deep coal workings beneath and adjacent to the site, or associated with deep made ground.

Potential contaminants include heavy metals, hydrocarbons including PAHs, petroleum hydrocarbons, asbestos and sulphates.

Potential Pathways

The following pathways have been considered for the potential construction and operational stages of the proposed development:

- Direct Ingestion
- Dermal Contact
- Inhalation of dust/volatiles/gas (including migration of mine gas along geological faulting)
- Vertical/lateral migration of leachable contaminants and ground gas.
- Plant uptake/consumption
- Direct Contact

Potential Receptors

The following receptors have been considered for the construction and operational stages of the proposed development:

- End Users – commercial/retail users/workers
- Construction Workers
- Adjacent Users
- Controlled Waters – Unproductive Aquifer
- Controlled Waters – Secondary Aquifer
- Vegetation
- Buried structures

10.0 GROUND INVESTIGATION

The RWO intrusive ground investigation works including the logging of soils and rocks, unless stated otherwise, has been carried out in general accordance with the relevant parts of British Standard *BS5930:2015+A1:2020 Code of practice for site investigations* (BS5930) and, *BS EN ISO 22475-1:2021 Geotechnical investigation and testing - sampling methods, and groundwater measurements. Technical principles for the sampling of soil, rock and groundwater*. The current editions of these documents which was published to incorporate changes arising from the further implementation into UK practice of BS EN1997-1 and BS EN 1997-2 (Eurocode 7) and *BS10175:2011+A2:2017 – Investigation of potentially contaminated sites (BS10175).*

The fieldwork was carried out by RWO between 17th July 2023 of 20th July 2023, comprised various ground investigation techniques, insitu and laboratory and tests/analysis.

Macc International Ltd were commissioned by RWO to provide a UXO watching brief during the ground investigation, which included the use of a downhole probe within boreholes to detect any anomalies which had the potential to be UXO. It is understood that no such anomalies were identified.

It should noted, that the ground investigation was severely restricted by the presence of surface and subsurface obstructions, which prevented some of the planned exploratory locations from being undertaken.

Exploratory hole logs are presented in Appendix E.

10.1 MACHINE EXCAVATED TRIAL PITS

4 No. Trial Pits (TP01, TP02, TP06 and TP08) were advanced between 1.30m and 3.30m bgl by a wheeled excavator. Disturbed samples were recovered from selected arisings taken using a two-foot bucket for subsequent chemical analysis and geotechnical testing. All soil logging was undertaken on site. On completion all trial pits were immediately backfilled with arisings in the approximate reverse order to which they were excavated and left slightly raised to allow for further settlement.

Trial pits were undertaken generally in accordance with British Standard *BS5930:2015+A1:2020 Code of practice for site investigations* & other relevant publications such as BRE Digest 381 Site investigation for low-rise building: trial pits.

10.2 CABLE PERCUSSIVE BORING

3 No. Cable Percussive Boreholes (CP01, CP02A, and CP03) were advanced to depths of between 11.28 and 11.8m using a towable Cable Percussive A-frame Rig (Dando 4000).

Cable percussion borehole techniques are described in British *Standard BSENISO 22475-1:2006 Geotechnical investigation and testing – Sampling methods and groundwater measurements – Part 1: Technical principles for execution and BS5930.*

Cable percussive boring uses a winched cable attached to shells, clay cutters and chisels in order to drive the various heads into the ground to sample, drill and chisel depending on ground conditions. Standard Penetration Tests (SPTs) were undertaken in the boreholes in accordance with BS EN ISO 22476-3. Various sample types were obtained from this drilling method, including U100 Undisturbed Samples, Disturbed Samples, Bulk Samples and Environmental Samples.

10.3 ROTARY BOREHOLES

Rotary borehole techniques are described *BS EN ISO 22475-1:2021 Geotechnical investigation and testing. Sampling methods and groundwater measurements, Technical principles for the sampling of soil, rock and groundwater* and *BS5930*.

Cored Boreholes

2 No. of the Cable Percussion Boreholes were advanced using **Rotary Core** methods to depths of between 17.5m and 17.9 using a tracked rotary rig (Beretta T41).

Rotary Coring techniques involves driving an annular bit which is attached to the bottom of the outer rotating tube of a core barrel which then cuts a core. The core is recovered within the innermost tube of the core barrel assembly and is brought to surface for examination and testing.

Core drilling is normally undertaken using conventional or wireline double or triple tube core barrels fitted with diamond or tungsten tipped core bits. Conventional drilling comprises running a core barrel on a string of rods which are rotated by the rig at surface. This method might require a separate string of casing to support the walls of the borehole. Wireline core barrels are rotated from the surface by drill rods usually of the same diameter as the outer core barrel which removes the need for casing.

For the purposes of this investigation conventional drilling was utilised to obtain the core samples.

10.4 MONITORING WELL INSTALLATIONS

3 No. cable percussive boreholes were installed with 50mm standpipes between depths of 4m to 8m bgl to allow for subsequent gas and groundwater monitoring following the ground investigation.

Monitoring wells were installed in general accordance with *BS EN 18674-1, Geotechnical investigation and testing – Geotechnical monitoring by field instrumentation Part 1: General rules, BS10175* and *BS 8576:2013 Guidance on investigations for ground gas - Permanent gases and volatile organic compounds (VOCs),* and *BS5930*. Permeable slotted pipework was used through the selected response zone surrounded by an annulus of invert pea gravel. Bentonite seals were placed above and below the response zones and at other key elevations (at rockhead for instance) as deemed appropriate. Geotextile barrier sock was placed around slotted response zones in the standpipe to reduce the risk of 'silting up' with fine soils.

10.5 EXPLORATORY HOLE RATIONALE

Exploratory Hole Location Plan (Figure 5) and Exploratory Hole Logs are included in Appendices E and F, respectively. The exploratory hole locations were selected based on the findings of the preliminary CSM and to target any specific features of significant geotechnical interest. The rationale for each location is presented in Table 6, below.

Exploratory Hole Rationale

Exploratory Hole	Rationale
TP01, TP02, TP06 and TP08	General coverage to investigate the nature of the shallow soils and to obtain samples for contamination analysis.
CP01, CP02A, and CP03	Determine the nature and geotechnical properties of the ground for founding purposes, establish the depth to natural ground and install shallow gas and groundwater monitoring wells to determine the potential gas risk associated with this material, and/or migration of gases from underground mine workings.

Each exploratory hole location was scanned by a competent representative from RWO using a Cable Avoidance Tool (CAT) in order to locate unrecorded underground services, and the exploratory locations were repositioned if necessary.

Some positions were moved on site within a few metres of the original position by the RWO site engineer if any obstructions or services were present. The rationale for any movement of positions and limitations are described below:

- CP02A – Moved from CP02 due to potential service running beneath position, as well as hardstanding identified by trial pitting nearby. Moved c. 5m east.
- TP08 – Moved due to hardstanding restrictions and close proximity to nearby suspected service. Moved c. 3m west.
- TP01 – Moved due to hardstanding restrictions. Moved c. 3m south.
- TP02 - Moved due to hardstanding restrictions and close proximity to nearby known service. Moved c. 3m west. Still identified potential live telecoms within pit and was terminated early.

On completion, all samples recovered from the site were taken to a specialist laboratory for testing.

All site investigation work was supervised full time by an RWO environmental consultant.

All locations were surveyed to OS co-ordinates with a hand-held mobile device, with an accuracy of approximately 3m.

10.6 GEOTECHNICAL TESTING

Geotechnical laboratory testing on selected samples was carried out under subcontract by Professional Soils Laboratory (PSL), a UKAS-accredited laboratory. Geochemical laboratory testing was subcontracted by PSL to CTS Group. The geotechnical tests scheduled are summarised in the table below.

Ground Type	No. of Samples	Geotechnical Test(s)
Natural Soil	12	Plastic & liquid limits, moisture content
	5	Quick undrained triaxial
Natural Rock	6	Point load test*

** results of the point load tests have not yet been received, this report will be updated and reissued, once available.*

Geotechnical testing was undertaken by PSL in accordance with *BS 1377-2:2022 - Methods of test for soils for civil engineering purposes Classification tests and determination of geotechnical properties*, further details of the methodology for each individual test are provided in the PSL test results report, presented as Appendix F of this report.

10.7 CHEMICAL ANALYSIS

Selected samples of the made ground and natural soils were tested for a range of potential contaminants under subcontract with i2 Analytical Ltd (i2), a UKAS and MCERTS-accredited laboratory.

The potential contaminants of concern identified by the preliminary CSM were selected as the analytes for the samples recovered from the site. The results of soil analysis, as received from the laboratory, are presented within Appendix G of this report. The chemical analysis scheduled are summarised in the table below/overleaf.

Ground Type	No. of Samples	Contaminants
Made Ground		**Suite 1:** pH, Total sulphate, water soluble sulphate, cyanide (free, complex and total), Sulphide, Organic Matter, water soluble boron, and total metals (arsenic, barium, beryllium, cadmium, chromium (+hexavalent Cr), copper, lead, mercury, nickel, selenium, vanadium and zinc), Speciated PAH and Total Phenols.

		Suite 2: All as above, plus TPHCWG. MTBE & BTEX.

Results of the chemical laboratory analysis are presented in Appendix G.

11.0 GROUND CONDITIONS

11.1 STRATA PROFILE

A summary of the strata profile encountered within the exploratory locations is provided in **Error! Reference source not found.**Tables 7 below.

Strata	Depth Range (Thickness Range)	Description and Comments
Made Ground: Concrete	Ground Level to 0.80m bgl (Absent or: 0.1 to 0.3m)	Grey reinforced CONCRETE. Encountered in CP01 and TP01 in the west of the site. Grey CONCRETE. Encountered in TP08 in the central southeast of the site.
Made Ground: Tarmacadam	Ground Level (Absent or: 0.1m)	Dark grey tarmacadam. Encountered in CP02A, CP03, TP02, TP06 and TP08 in the south of the site.
Made Ground: Sub-base	0.1 to 0.3m bgl (Absent or: 0.05 to 0.45m)	Light brown sandy subangular fine to coarse GRAVEL of dolomite, occasionally cobble-size. Encountered in TP02, TP06, TP08, CP01, CP02A, and CP03 in the south-eastern half of the site.
Made Ground: Granular – cobbles/ boulders	0.50m to 1.10m bgl (Absent or: 0.7 to 1.2m)	Reddish brown sandy gravelly COBBLES and BOULDERS of brick, sandstone and concrete. Gravel is angular to subangular fine to coarse of concrete, brick, clinker, sandstone and coal. Encountered in TP01and CP01 in the western quarter of the site.
Made Ground: Granular - sand	Ground Level to 1.8m bgl (Absent or: 0.65 to 2.6m)	Dark grey, sometimes slightly clayey or gravelly, fine to coarse SAND sometimes with low to high angular to subangular gravel or cobble content. Secondary constituents include: angular to subangular fine to coarse of brick fragments, breezeblock, ceramic, clinker, concrete, ash, sandstone, coal, mudstone and concrete. Occasional lenses of brown clay. Encountered in ALL exploratory holes.
Made Ground: Cohesive	1.4 to 2.90m bgl (1.2m to 2.7m)	Firm brown mottled grey slightly sandy slightly gravelly to gravelly silty CLAY. Gravel is angular to subrounded fine to coarse of brick fragments, coal, concrete, ceramic and sandstone. Occasional low cobble content of brick. Encountered in TP06 and TP08. Greyish brown and dark grey sandy gravelly CLAY, Gravel is angular to subangular fine to coarse of brick, clinker, concrete, coal and mudstone. Encountered in CP01 , CP02A and CP03.
Glaciolacustrine deposits	2.7m to 4.5m bgl (>0.6m to 4.7m)	Firm to stiff greyish brown/brown mottled grey slightly sandy to sandy silty CLAY. Encountered in TP08, CP01, CP02A and CP03 across the site.

Strata	Depth Range (Thickness Range)	Description and Comments
Possible Devensian Till – Diamicton	7.0 to 9.2m bgl (1.6 to 1.9m)	Stiff grey / greyish brown slightly gravelly slightly sandy to sandy CLAY. Gravel is subangular to rounded fine to coarse of mudstone, sandstone, limestone, quartzite and coal. Encountered in CP01, CP02A and CP03 in the east and west of the site.
Pennine Middle Coal Measures	8.9 to 10.8m bgl (>9.0m)	Interbedded rock types including: Very weak light grey thinly and thickly laminated MUDSTONE Black non-intact bituminous COAL (0.04m thick) Very weak reddish brown thickly laminated to thinly bedded MUDSTONE and SILTSTONE Medium strong to strong reddish brown/orangish brown thinly to thickly bedded medium to coarse grained micaceous SANDSTONE. Encountered in CP01, CP02A and CP03 in the east and west of the site.

11.2 OBSERVABLE EVIDENCE OF CONTAMINATION

No visual or olfactory evidence of contamination was uncovered during the ground investigation.

11.3 OBSTRUCTIONS ENCOUNTERED

No significant obstructions were encountered during the ground investigation. However, concrete slabs, cobbles and boulders were noted within the majority of the excavations, although these did not prevent progression of the exploratory holes. Other notable obstructions are detailed in the table below.

Obstructions Encountered

Expl. Locn(s)	Depth/ Depth Range (m bgl)	Observations
TP02	1.3m	Potentially redundant duct of cables at 1.2m bgl.
TP06	0.5m	Potentially redundant gas pipe encountered.

11.4 EXPLORATORY HOLE STABILITY

With the exception of those detailed in the table below, all exploratory locations remained stable.

Exploratory Hole Stability

Expl. Locn(s)	Depth (m bgl)	Observations
TP01, TP06	1.1 and 1.0	Unstable from to base of pit (i.e. within made ground).

All excavation in granular or made ground soils should be considered unstable.
All unsupported excavations should be considered unstable, especially at the collapsible depths listed.

11.5 GROUNDWATER

Details of groundwater strikes, and groundwater depths measured during subsequent monitoring events to date are summarised in the table below.

Groundwater monitoring was undertaken post-fieldwork between dates of 4th August 2023 and 9th August 2023 with monitoring ongoing to obtain a total of 4 No. events. This report will be updated and reissued once the results from the ongoing monitoring has been completed.

The results are presented in Appendix I.

Groundwater Observations

Expl. Locn(s)	Groundwater Strikes		Groundwater Level in Standpipe (m bgl)
	Depth (m bgl)	Observations	
TP06	2.9	Encountered at 2.9m at interface of granular made ground over cohesive made ground. Rose to 2.6m.	N/A
CP01	N/A	None encountered.	3.28 to 3.30
CP02A	N/A	None encountered.	3.85

CP03	N/A	None encountered.	7.82 to 7.83

11.6 GROUND GAS

Ground Gas monitoring has been on 4 No. occasions between 4th August 2023 and 23rd August 2023.

A summary of the results to date is provided below/overleaf.

Summary of Gas Monitoring Results

Well	Range of Methane Concentrations (% v/v)	Range of Carbon Dioxide Concentrations (% v/v)	Range of Positive Flow Rates (litre/hour)
CP01	-0.2	0.0 to 0.9	0.0
CP02A	0.0	3.8 to 4.4	0.0
CP03	-0.2	0.0 to 0.1	0.0

Atmospheric pressure was recorded at between 1003mb and 1012mb, with atmospheric pressure recorded as falling on two (2 No.) occasions.

A complete set of monitoring results can be found in Appendix I.

11.7 MINING INVESTIGATION

The rotary boreholes did not encounter any seams of coal, broken/voided ground or any other evidence of shallow coal workings, and the risk to the site from shallow underground mining is considered low.

12.0 MATERIAL ENGINEERING PROPERTIES

12.1 FIELD TESTS

A summary of the in-situ tests undertaken are presented below.

Hand Shear Vane (HSVs)

Undrained shear strength measurements were taken by the use of a Pilcon Hand Shear Vane in samples of cohesive soils recovered from trial pits at a range of depths as presented in the table below.

Geological Unit	Soil Type	Depth Range (m bgl)	Range of HSV Results (kPa)	Average HSV reading (kPa)	Typical Undrained Shear Strength
Glaciolacustrine deposits	CLAY	2.8 to 3.3	99 to 112	105.5	High

The limited results above show that the shear strength of the clays where encountered at depth below the made ground are likely to be high strength.

Standard Penetration Tests (SPTs)

A summary of the Standard Penetration Tests (SPTs) undertaken within the exploratory boreholes are presented in the table below.

Geological Unit	Soil Type	Depth Range (m bgl)	Uncorrected SPT 'N' Value Range (average)	Corresponding Density/Strength^	Angle of Shearing Resistance # (ø)
Made Ground – 'sand'	Clay/gravelly SAND	1.2 to 1.8	2 to 11 (6.5)	Loose	29
Made Ground – cohesive	Sandy/gravelly CLAY	1.2 to 3.9	2 to 12 (6.6)	N/A	N/A
Glaciolacustrine deposits	Sandy/silty CLAY	4.0 to 6.5	9 to 13 (11)	Medium	N/A
Possible Devensian Till - Diamicton	Sandy/gravelly CLAY	8.0 to 9.5	20 to 43 (31)	Very high	N/A
Coal Measures	MUDSTONE	9.5 to 11.5	>50	N/A	N/A

^*based on the relationship between mass shear strength, plasticity index and SPT N-values after Stroud, M.A., The Standard Penetration test in insensitive clays and soft rocks, Proceedings of the European Symposium on Penetration Testing , 2, 367-375, 1975.*

#
For granular soils - based on the relationship between SPT N-values and angle of shearing resistance after Peck et al – Foundation Engineering, 2nd Edition, John Wiley, New York, p. 310, 1967

The results above show a general trend of reasonably consistent soil strength within each stratum, but increasing in strength with depth across strata,

Cohesive soils are seen to be medium to very high strength at from 4.0m bgl depths with generally corresponds with the limited number of Hand Shear Vane results.

12.2 GEOTECHNICAL LABORATORY TESTS

Samples of both natural soil/rock were delivered to Professional Soils Laboratory, a UKAS and MCERTS accredited laboratory, for the tests as defined in the Table present in Section 10.10.

The geotechnical laboratory test results which included details of the test methodology are presented in Appendix F to this report. A summary of the laboratory tests are presented below.

Atterberg Limits

Fifteen (15 No.) samples of cohesive soils were tested for Atterberg limits at typical foundation and the results are summarised in the table below.

Stratum	Moisture Content Range (%)	Range of Plasticity Indices (Average)	Range of Modified* Plasticity Indices	Volume Change Potential	Consistency Index	Consistency
Glaciolacustrine deposits	18 to 34	22 to 36 (30)	22 to 35	Medium	0.71 to 1.14	Firm to predominantly stiff
Possible Devensian Till - Diamicton	12 to 16	17 to 20 (18)	15.3 to 18.2	Low	1.00 to 1.40	Stiff to very stiff

*Modified in accordance with revised Chapter 4.2 of the NHBC Standards (January 2022).

Undrained Triaxial Tests

Five (5 No.) undisturbed samples of cohesive soils recovered from boreholes were scheduled for a quick undrained triaxial test and the results are summarised in the table below.

Sample Location	Depth (m bgl)	Undrained Shear Strength (kPa)	Mode of Failure	Strength
CP01	4.90 – 5.35	33	Plastic	Low
CP01	7.50 – 7.95	61	Plastic	Medium
CP02A	8.00 – 8.45	61	Plastic	Medium
CP03	4.00 – 4.45	38	Plastic	Low
CP03	6.50 – 6.95	79	Plastic	High

Soluble Sulphate and pH

In accordance with BRE Special Digest 1:2005, this site has been classified as brownfield with a mobile groundwater regime.

Summary of Sulphate and pH results

Stratum	Lowest pH values	Highest Soluble Sulphate Concentration (g/l)
Made Ground – 'subbase'	9.6	0.13
Made Ground – 'sand'	7.5	1.7
Made Ground – cohesive	7.85	0.26
Glaciolacustrine deposits	8	0.775
Possible Devensian Till - Diamicton	8.4	0.44

13.0 RESULTS OF CHEMICAL TESTING

The results of chemical analysis undertaken by i2 Analytical Laboratories Ltd, a UKAS and MCERTs analytical laboratory, are provided in full within Appendix G.

13.1 HUMAN HEALTH SOIL ASSESSMENT – FUTURE SITE USERS

Given the proposed commercial development, the long term (chronic) human health toxicity of the soil has been assessed with reference to RWOs Tier 1 Soil Guidance Values (SGVs) for a commercial end use scenario, which are presented in Appendix G.

The origin of RWOs SGV for each contaminant analysed is outlined in Appendix G.

The soil chemical testing results are summarised in the table below.

Summary of Total Soil Concentrations – Commercial

Determinand	No. of Samples Tested	Range of Results (mg/kg unless specified)	SGV (2.5% SOM)	No. of Samples >SGV	Samples Exceeding SGV/Soil Type
Metals					
Arsenic	15	<0.1 – 67	640	0	
Barium	15	83 – 920	22,000	0	
Beryllium	15	0.46 – 6.4	12	0	
Boron	15	<0.2 – 1.4	240,000	0	
Cadmium	15	<0.2	190	0	
Chromium (III)	15	12 – 41	8,600	0	
Chromium (VI)	15	<1.8	33	0	
Copper	15	30 – 240	68,000	0	
Lead	15	34 – 370	2,300	0	
Inorganic Mercury	15	<0.3 – 0.4	58^{vap} (25.8)	0	
Nickel	15	12 – 97	980	0	
Selenium	15	<1	12,000	0	
Vanadium	15	27 – 260	9,000		
Zinc	15	48 – 170	730,000	0	
Other Inorganics					
pH	26	pH7.0 – 9.7	<pH5 – >pH9	2	TP01 @ 0.5m MG 'sand' TP08 @ 0.3m MG 'subbase'
Water Sol. Sulphate	26	<0.063 – 1.8g/l	0.5g/l	6	TP08 @ 0.9m MG 'sand' TP01 @ 0.5m MG 'sand' CP01 @ 2.0m MG 'sand' CP01 @4.6m Glaciolacustrine CP01 @6.0m Glaciolacustrine CP01 @7.95m Glaciolacustrine
Polycyclic Aromatic Hydrocarbons (PAHs)					

Determinand	No. of Samples Tested	Range of Results (mg/kg unless specified)	SGV (2.5% SOM)	No. of Samples >SGV	Samples Exceeding SGV/Soil Type
Acenaphthene	15	<0.05 – 0.12	97,000 (141)[sol]	0	
Acenaphthylene	15	<0.05 – 0.13	97,000 (212)[sol]	0	
Anthracene	15	<0.05 – 0.59	540,000	0	
Benzo(a)anthracene	15	<0.05 – 2.6	170	0	
Benzo(a)pyrene	15	<0.05 – 2.1	15	0	
Benzo(b)fluoranthene	15	<0.05 – 3.4	44	0	
Benzo(k)fluoranthene	15	<0.05 – 1.4	1,200	0	
Benzo(g,h,i)perylene	15	<0.05 – 1.6	4,000	0	
Chrysene	15	<0.05 – 2.8	350	0	
Dibenzo(a,h)anthracene	15	<0.05 – 0.39	3.6	0	
Fluoranthene	15	0.09 – 4.8	23,000	0	
Fluorene	15	<0.05 – 0.09	68,000	0	
Indeno(1,2,3-cd)pyrene	15	<0.05 – 1.6	510	0	
Naphthalene	15	<0.05 – 2.3	460 (183)[sol]	0	
Phenanthrene	15	0.07 – 2.6	22,000	0	
Pyrene	15	<0.05 – 3.8	54,000	0	
Total Petroleum Hydrocarbons					
Aliphatic EC5-6	5	<0.1	5,900 (558)[sol]	0	
Aliphatic EC6-8	5	<0.1	17,000 (322)[sol]	0	
Aliphatic EC8-10	5	<0.1	4,800 (190)[vap]	0	
Aliphatic EC10-12	5	<1	23,000 (118)[vap]	0	
Aliphatic EC12-16	5	<2	82,000 (59)[sol]	0	
Aliphatic EC16-35	5	<8	1,700,000	0	
Aliphatic EC35-44	5	<8.4	1,700,000	0	
Aromatic EC5-7	5	<0.1	46,000 (2,260)[sol]	0	
Aromatic EC7-8	5	<0.1	110,000 (1,920)[sol]	0	
Aromatic EC8-10	5	<0.1	8,100 (1,500)[vap]	0	
Aromatic EC10-12	5	<1	28,000 (899)[sol]	0	
Aromatic EC12-16	5	<2	37,000	0	

Determinand	No. of Samples Tested	Range of Results (mg/kg unless specified)	SGV (2.5% SOM)	No. of Samples >SGV	Samples Exceeding SGV/Soil Type
Aromatic EC16-21	5	<10	28,000	0	
Aromatic EC21-35	5	<10	28,000	0	
Aromatic EC35-44	5	<8.4	28,000	0	
BTEX					
Benzene	5	<5	47	0	
Toluene	5	<5	110,000[vap] (1,920)	0	
Ethylbenzene	5	<5	13,000[vap] (1,220)	0	
Xylene	5	<5	14,000[sol] (1,350)	0	
Others					
TOC	15	1.0 – 7.0% w/w	3% w/w	3	TP06 @ 0.5m MG 'sand' TP08 @ 0.9m MG 'sand' CP01 @ 2.0m MG 'sand'
Asbestos	15	N.D.	Fibres present	0	
Free Cyanide	15	<1	380	0	
Phenol	15	<1	1,500	0	
MTBE	15	<5	13,000	0	

Metals and Metalloids

No recorded concentrations above the relevant GAC.

Other Inorganic Analytes

Six (6 No.) samples recorded a water-soluble sulphate concentration above the applicable GAC, which is set at the upper limit of Design Sulphate Class DS-1 and ACEC Class AC-1 within BRE Special Digest 1 (BRE SD-1) to be protective of aggressive ground conditions. This exceedance is not considered a concern to human health.

Two (2 No.) samples record a pH concentration above the applicable GAC. These are considered a mild exceedance and are not considered a concern to human health should site workers use standard good practices.

No other inorganics recorded concentrations above the relevant GAC.

Organics

No organics recorded concentrations above the relevant GAC.

Other

Three (3 No.) samples are recorded above the relevant GAC for Total Organic Content, which a determinand used in determining waste classification, as such it is not considered a concern to human health, but, alongside the full set of chemical results may be used in determining waste classification.

13.2 SOIL WASTE CLASSIFICATION

The chemical analysis for the made ground soil samples were assessed using the HazWasteOnline™ (HWOL) software to determine whether they classified as hazardous or non-hazardous waste.

Waste Acceptance Criteria (WAC) Testing was also undertaken on ...No. samples of Made Ground/natural soil. The results of the HWOL assessment and WAC tests are presented in the table below:

Table.... Waste Classification of Soils

Sample Location	Depth (m bgl)	Material Type	HWOL Classification
CP01 2.00	2.00	Made ground: sand	Non-hazardous
CP01 3.80	3.80	Made ground: clay	
CP02A 0.50	0.50	Made ground: sand	
CP02A 1.50	1.50	Made ground: clay	
CP02A 2.50	2.50	Made ground: clay	
CP02A 3.50	3.50	Made ground: clay	
CP03 0.50	0.50	Made ground: sand	
CP03 1.50	1.50	Made ground: sand	
TP08 0.90	0.90	Made ground: sand	
TP08 2.20	2.20	Made ground: clay	
TP06 0.50	0.50	Made ground: sand	
TP06 1.50	1.50	Made ground: sand	
TP02 0.70	0.70	Made ground: sand	
TP01 0.50	0.50	Made ground: sand	

Complete results of the Soil Waste Assessment are presented in Appendix H. These results should be sent to suitably licensed waste receiver/handler for further advice on disposal costs and options.

14.0 GROUND GAS RISK ASSESSMENT

As the site is within a Coal Authority Reporting Area and underlain by deposits of Made Ground, Glaciolacustrine deposits, Possible Devensian Till – Diamicton and Pennine Middle Coal Measures. The area is known for mining and records indicate mine gases in the local area, therefore there is always a potential of ground gas.

The potential risk associated with gases being generated in the ground (whether from natural or man-made sources) depends on the concentrations of gas and its flow rate to the surface. These factors are assessed by monitoring of the gas installations in the boreholes. The variable nature of gas generation and the effect of barometric pressure on gas flow, means that the volume of gas potentially reaching the ground surface is normally inconsistent over time.

Due to the potential risk associated with gases being generated in the geology beneath the site, the monitoring of gas within borehole installations has been undertaken at weekly intervals over a 4-week period to assess the presence, type and concentration of any gases. There is a relationship between the volume of gas reaching the surface and barometric pressure, which means that there may be inconsistencies within the data, and therefore multiple visits were commissioned.

The results were obtained using a GFM436 Series Gas Analyser. Over the four visits, the gas analyser showed concentrations of: methane (CH4) ranging from -0.2% to 0.0% and carbon dioxide (CO2) levels ranging from 0.0% to 4.4% v/v. Oxygen levels were recorded to be between 13.7% v/v and 20.8% v/v.

The gas flow rates were recorded using an inbuilt flow meter and a maximum flow rate of 0.0l/hr was recorded. Atmospheric pressure was recorded to be between 1003mb and 1012mb the local pressure system was noted to be within a falling trend across two visits.

Full results of the monitoring data are presented in Appendix I.

In BS8485:2015+A1:2019 - Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new building (BS8485). BS8485 states that the gas monitoring data should be used to calculate the borehole hazardous gas flow rate (Q_{hg}). In the first instance the worst case site condition should be calculated by the using the site-wide worst case gas flow and maximum gas concentration.

BS8485 states that GSV should not be based only on Q_{hg} value but should also consider the conceptual site model.

A GSV/Q_{hg} for the site has been obtained by multiplying the maximum concentration of gas by the maximum flow rate, which represents worst-case scenario conditions.

Gas Risk Analysis

Gas Type	Maximum Flow Rate (l/hr)	Maximum Concentration (%)	GSV (l/hr)	Characteristic Situation
Carbon Dioxide	0.1 *	4.4	0.0048	CS1
Methane	0.1 *	0.1 *	0.00021	CS1

** no flow was recorded therefore the limit of detection has been used in accordance with BS8485.*

- **Carbon dioxide:** maximum flow rate = 0.1 l/hr, max concentration = 4.4%
- **Methane:** maximum flow rate = 0.1l/hr, max concentration = 0.1%.

Based on the above figures, the GSV is calculated as:

- **Carbon dioxide**: GSV = 4.4 x 0.1 / 100 = **0.0044 l/hr**
- **Methane**: GSV = 0.1 x 0.1 / 100 = **0.0001 l/hr**

Based on the results obtained, the site would be classified as Characteristic Situation-1 (CS-1), i.e. 'very low risk'

15.0 REVISED CONCEPTUAL SITE MODEL

The preliminary conceptual site model (CSM), developed from the desk study information and presented in Section **Error! Reference source not found.**/previous RWO/third party Preliminary Assessment, has been revised in light of the ground investigation and the chemical analysis results presented above.

The revised CSM has been developed for the proposed future land use (residential end use with gardens). This summarises the understanding of surface and sub-surface features, the potential contaminant sources, transport pathways and receptors.

The revised CSM, presented as Figure 6 in Appendix A, considers the Source-Pathway-Receptor linkages present alongside the probability, consequence and risk level as defined RWO's Risk Assessment and Conceptual Site Model processes as presented in Appendix D, to establish if there is the potential for unacceptable risk.

The PCM considers whether a plausible pollution linkage is potentially present and provides a Tier 1 qualitative assessment of risk based on the information obtained from the ground investigation, when compare against generic screening values. Where unacceptable risk still exists further site-specific quantitative risk assessment (QRA) and/or remediation would be required to mitigate the risk.

Summary of Residual Contaminant Linkages

The qualitative risk assessment of identified contaminant linkages has also been revised, following the methodology described in Appendix D. In summary, the revised CSM has identified the following residual contaminant linkages (defined as being greater than "low" risk) that could result in an unacceptable risk in the proposed end-use:

- Direct and indirect ingestion, inhalation (including asbestos) and dermal contact with previously unidentified contaminants in made ground, particularly construction workers.
- Generation and migration of hazardous ground gas associated with made ground. Accumulation of such gases in enclosed spaces could result in potential asphyxiation / explosive risks, particularly for ground worker.

These risks can be mitigated by standard good practice on site during construction works, and proactive steps to update the risk assessment with appropriate responses to any unidentified contaminants.

The revised conceptual model is presented Figure 6 in Appendix A.

16.0 CONCLUSIONS AND RECOMMENDATIONS

16.1 GENERAL DEVELOPMENT DETAILS

It is understood that the Client intends to redevelop the site with low rise commercial properties.

It has been assumed that ground levels will not change significantly from those described in this report. If these are not the case, then amendments to the interpretation and conclusions in this report may be required.

16.2 SUMMARY OF GROUND CONDITIONS

The ground conditions on site generally comprised various made ground types including; hardstanding (concrete/tarmacadum) from former buildings and car parks, sub-base, granular materials of predominantly cobbles/boulders or sand size of concrete, brick, ash, coal etc, and cohesive materials of predominantly clay, to depths of at least 7.0m, with the greatest depths recorded in the centre and north of the site. This is underlain by superficial deposits of glaciolacustrine deposits of firm to stiff medium to high slightly sandy to sandy silty CLAY, over possible Diamicton of stiff very high strength brown slightly gravelly slightly sandy to sandy CLAY. This overlies the bedrock comprising Pennine Middle Coal Measures of various rock types including very weak MUDSTONE, medium strong to strong SANDSTONE and thin COAL.

16.3 MINING AND QUARRYING

Based on published geological information and the CA mining report, it is understood it is unlikely that shallow underground workings are beneath the site. The shallowest recorded worked seam at the site at 150m is identified as the High Main with an extraction thickness of 2.15m. Historical records in combination with the recent ground investigation indicate bedrock is present beneath the site between 8.9m and 14.50m bgl. It is therefore concluded that there is sufficient cover of bedrock to mitigate risk of potential void migration to the surface.

There are no recorded mine entries within the site,

A historical quarry is recorded within the site which extracted common clay/shale. Eleven (11 No.) others are recorded as extracting common clay/shale within 250m of the site, the nearest of which was located 17m of the site. Historical exploratory holes within the site have recorded 7.0m bgl of made ground and the recent ground investigation recorded depth up to: 4.5m bgl. The material was recorded as including brick rubble, ashes, clay, timber, concrete slabs, sandstone, coal, mudstone, clinker, ceramic and range from clay to boulder size.

16.4 FOUNDATION RECOMMENDATIONS

Detailed information regarding structural loadings was/was not available at the time of writing the report, however, we anticipate the loadings to be similar to a typical light-weight steel framed structure (50kN/m^2 to 75kN/m^2.

Tradition Strip/Trench Fill Foundations

Given the thicknesses of made ground recorded at the site, with recorded depths between 2.7m and 7.0m bgl (including historical borehole information). Traditional strip/trench foundations are unlikely to be feasible.

Raft Foundations

Given the heterogenous nature of the soils, it is unlikely that the material would be suitable for a full

turnover and reengineering. A raft foundation solution would therefore require a full excavation and removal of the made ground, with replacement by a suitable engineered material, given the costs associated with such works, raft foundations are unlikely to be suitable.

Ground Improvement Techniques

Given the presence of made ground in excess of 2.5m deep, the use of reinforced strip foundations on vibro-replacement stone column is recommended in certain areas of the site where made ground depths allow.

Vibro-replacement stone columns is a technique used to improve the geotechnical characteristics of made ground, soft cohesive soils and loose granular soils, which then allows the use of conventional albeit reinforced strip footings.

Vibro is not suitable in certain scenarios such as, ground with a significant biodegradable (organic) content (organic clays/silts, peat), very soft clay and where shallow groundwater is present. In these situations a similar technique which uses concrete to form the columns, Controlled Modulus Columns (CMC), may be suitable.

Vibro/CMC ground improvement is unlikely to be suitable where significant buried structures are present, in recent clay fills (c. <10 years old) and where significant settlement of fill may still occur. As such, the site may require grubbing out of existing foundations.

It should be noted that depth of foundations formed on improved ground should still account for clay shrinkage potential and/or presence of trees/hedgerows, which could rule out the technique where plots close to trees and/or hedgerows with a high water demand.

It is recommended that specialist vibro and/or CMC is contractor is contacted for advice on the suitability of the ground for using these techniques, and advice as to achievable bearing capacity and likely settlement.

Piled Foundations

As an alternative to ground improvement, trench fill or for plots under the influence of nearby trees/hedrgrows/in areas of deep made ground (typically >2.5m bgl) piled foundations are recommended.

Advice should be sought from an appropriately experienced piling contractor with regard to the most appropriate piling design solution, who should take account of the potential for settlement of the opencast backfill material and as such make adequate allowance for negative skin friction, in addition to the potential for relic structures, former basements, foundations, cobbles and boulders etc within the backfill, which may necessitate pre-drilling to enable pile installation or a full turnover of made ground.

The following general comments relating to piling are provided for guidance only, and as mentioned above further advice should be sought from a specialist-piling contractor.

It is recommended that flexible service connections are used on this site, especially where they enter the buildings, in order to avoid any possible damage due to self-settlement of the weak strata once the site is developed.

Driven piles may lessen the volume of potentially contaminated made ground requiring off-site disposal. However, driving can induce some ground vibration. Assessment of any vibration risk to adjacent structures and\or existing site features should be undertaken by pile designer.

Should any shallow obstructions occur, i.e. old foundation, they should either be grubbed-up, or alternatively replacement piles installed.

For piled foundations suspended floor slabs should be utilised. A pre-cast 'Beam and Block' concrete ground floor construction could be utilised, and suspended across the ring beams.

The use of piling will require provision of a piling mat and further advice should be sought from the

appointed specialist-piling contractor regarding the proposed plant loadings and resulting pressures.

It is likely that all structures on site will require piling, given the depth of made ground.

Piles can provide an enhanced pathway for the vertical migration of mobile contaminants and therefore a suitably complied piling risk assessment may be required. Approval may be required from The Environment Agency for the adoption of piles as a foundation solution. However, objection is considered unlikely given the nature of the contamination encountered, the fact that quarry backfill is currently resting directly on clays overlying mudstone bedrock, and an aquifer coal measure bedrock is considered of low sensitivity.

16.5 FLOOR SLABS

Due to the recorded thicknesses of made ground being >600mm suspended floor slabs will be required. Although it is possible that ground improvement could be extended to allow the use of ground bearing slabs and this should be discussed with the ground improvement contractor.

16.6 ROADS AND PAVEMENTS

Made ground is present throughout the site, this often appears to include a subbase layer of 0.05m to 0.45m thick, and/or an upper granular layer of slightly clayey /gravelly sand or sandy gravelly cobbles and boulders, between 0.65m to 2.6m thick. Within these materials it is likely that a CBR of at least 5% could be assumed for preliminary pavement design.

Once formation level for the new road pavements has been achieved, proof rolling should be carried out using a heavy roller and any soft areas that are revealed should be excavated and a greater depth of subbase provided.

It is recommended that the CBR of the final formation should be verified by suitable insitu tests.

16.7 CONCRETE CLASSIFICATION

Water soluble sulphate content and pH value determinations have been carried out on the Made Ground and superficial soils by both the chemical and geotechnical laboratory.

Based on the assumption of mobile groundwater, the results have been compared to current guidance provided within BRE Special Digest 1 'Concrete in Aggressive Ground' (2005) and the recommended classification for the strata encountered is summarised in the table below.

Summary of Concrete Classification

Soil Type	Characteristic Sulphate Content (mg/l)	Characteristic pH Value	Design Sulphate Class	Aggressive Chemical Environment for Concrete
Made Ground – 'subbase'	130 (highest)	9.6 (lowest)	DS-1	AC-1
Made Ground – 'sand'	1700 (highest)	7.5 (lowest)	DS-3	AC-3
Made Ground – cohesive	260 (highest)	7.85 (lowest)	DS-1	AC-1
Glaciolacustrine deposits	775 (highest)	8 (lowest)	DS-2	AC-2
Possible Devensian Till - Diamicton	440 (highest)	8.4 (lowest)	DS-1	AC-1

16.8 EXCAVATIONS AND GROUNDWORKS

Formations in the Made Ground will be susceptible to damage both by weather and trafficking and should be protected immediately on exposure, particularly in areas where construction plant will access the site.

Excavations, especially where granular or softer clay soils are encountered, are likely to be unstable and should be battered back to an angle of 1 in 2, or a system of close sheeting and shoring adopted to ensure stability. No personnel entry into any unsupported excavations shall be allowed without an appropriate risk assessment and the use of suitable support, PPE, RPE etc.

All superficial natural materials on site should be capable of being excavated using conventional excavating machinery.

Based on the results of this investigation, significant groundwater seepages or inflows within shallow excavations (<1.5m) are considered unlikely across the site. However, if groundwater is encountered at shallow depth then it should be possible to deal with seepages through normal site pumping practices for any shallow excavations open for short periods of time. For deeper excavations a point dewatering system may be required. Disposal/discharge of water will require appropriate treatment/consent.

It is recommended that an adequate drainage system for surface water be installed by a competent contractor in order to prevent surface water ponding or collecting both during and post construction, as this may lead to deterioration of the founding stratum.

Although unlikely to be required, should the base of a foundation trench extend to cohesive materials, in order to reduce the possibility of softening or swelling, these should be suitably blinded with concrete.

Historic concrete slabs and foundations are likely to be encountered during ground works and require grubbing out. All natural materials on site should be capable of being excavated using conventional excavating machinery, although the use of a breaker is likely to be required for large obstruction.

In order to ensure that the future ground improvement or piling does not encountered delays, it would be recommended that a full turnover of made ground is at least undertaken beneath the proposed new buildings, to ensure that all sub-surface obstructions are removed.

16.9 SOAKAWAYS

Based on the ground conditions encountered during the site investigation, soakaway drainage is considered unlikely to be viable at the site.

16.10 GROUND CONTAMINATION RISK

No significant sources of soil contamination have been identified on and chemical analysis of the made ground has not identified any significantly elevated concentrations of contaminants, apart from sulphates and pH, where selection of an appropriate concrete classification will mitigate this risk. It is therefore considered that from a human health perspective, that the made ground is suitable for re-use in a commercial/retail end-use scenario.

Historical quarries which have the potential to be infilled and fuel stations (historical and present-day) have been identified within 100m of the site and have the potential to be sources of contamination which may leach on to the site. However, no evidence of this has been recorded during the recent ground investigation, and there is no indication of such contamination identified in historical borehole records held by the BGS.

There is considered to be a **LOW** overall potential risk from soil contamination to end users of the site, and no specific remedial action is considered necessary.

Even though significant soil contamination has not been identified, construction workers are considered at risk from residual contamination within site soils and/or groundwaters.

16.11 OUTLINE REMEDIAL OPTIONS

Following site observations and chemical analysis, no elevated concentrations of determinands which are considered to pose a significant risk to future site users have been detected. It is therefore not considered necessary to undertake any remedial action at this stage. If during any future works, it is established that the site requires remedial action i.e. if any areas of noxious, odorous, brightly coloured, fibrous, liquid, etc. contamination are encountered, further advice should be sought from a suitably qualified consultant.

16.12 ASBESTOS CONTAINING MATERIALS (ACMs)

ACMs were not observed within the soils encountered during this investigation.

However, the possibility of asbestos sheeting, used as shuttering, and/or fragments of asbestos-containing materials within made ground or shallow natural soils cannot be discounted. If encountered, advice should be sought from an appropriately qualified asbestos specialist and an appropriate strategy developed for the safe removal and disposal of the material.

16.13 WASTE CLASSIFICATION OF SOILS

The HWOL assessment of the soil samples recovered during the ground investigation indicated that the soils at the site are likely to be classified as non-hazardous waste.

Chemical soil analytical results and any subsequent WAC tests should be forwarded to a suitably licensed waste receiver/handler for confirmation of disposal costs and options.

It is recommended that during soil stripping/removal, some additional sampling and chemical analysis of soils for off-site disposal is carried out, to confirm waste soil disposal costs and options.

16.14 GROUNDWATER

Groundwater at the site appears to be perched on the clays of the Glaciolacustrine deposits within the made ground, and likely encountered at approx. 3m bgl.

Chemical testing of soils on the site have not identified any significant sources of contamination. In addition, the underlying superficial deposits are classed as unproductive and are likely to prevent any undetected contamination within the made ground from entering the underlying secondary aquifer.

The risk to the underlying Secondary Aquifer and associated groundwater is therefore considered **LOW**.

Historical and present-day fuel stations have been identified within 100m north of the site and it is conceivable that these may present a source of contamination. However, no evidence of this has been identified within the site, and it is likely, given the proximity of the River Tyne, that groundwater flow is toward the north, and away from the site. It is recommended that ground workers are made aware of the potential for hydrocarbon contamination and in the unlikely even it is encountered during the works, a Geoenvironmental Engineer contacted for advice.

16.15 GROUND GAS

Ground gas monitoring at the site has not recorded any significant flows of ground gas, or levels of ground gases at concentrations of concern. As such, the site is considered to be a Very Low Risk, Characteristic Situation 1 (CS1) with regards to ground gas, where no specific ground gas protection measures are required.

Radon protection measures are <u>not</u> required by current guidance for the proposed development on this site.

16.16 FLOODING

The site is not at risk from flooding, with the exception of the northern corner of the site which has the potential for groundwater flooding to occur at surface. For the purpose of this investigation, a site-specific flood risk assessment (FRA) is not recommended and not likely to be a planning requirement for the site, but this should be confirmed by a specialist.

16.17 UTILITIES

There are no high-pressure gas distribution underground pipelines or high voltage electric distribution cables within 250m of the site. Prior to the site investigation, statutory service plans were obtained by the Client and by RWO, these showed a medium pressure gas main and underground electrical cables present within the site.

The location of all buried services should be determined prior to any construction works.

16.18 INVASIVE/TOXIC PLANTS AND PROTECTED SPECIES

No suspected invasive/toxic plants were identified on our visits to site. An ecological professional should be contacted for further advice with regards any invasive, toxic or protected species which may possibly found on the site.

16.19 ARCHAEOLOGY

An archaeological assessment was outside the scope of this report. It is strongly recommended that further advice is sought from an archaeological specialist.

16.20 UNEXPLODED ORDNANCE

The Zetica UXO Risk Map indicates that the site UXO risk is High. A detailed Phase I UXO Desk Study and mitigation strategy is recommended to be undertaken prior to any construction activities commencing. Further advice should be sought from an appropriate specialist.

16.21 REGULATORY AND CONSULTEE APPROVALS

The conclusions and recommendations presented above are considered reasonable based on the findings of the site investigation. However, these cannot be guaranteed to gain regulatory approval and, therefore, the report should be passed to the appropriate regulatory authorities and/or other relevant organisations/consultees for their comment and approval prior to undertaking any works on site.

RWO Group
August 23

Appendix A Figures

LEGEND

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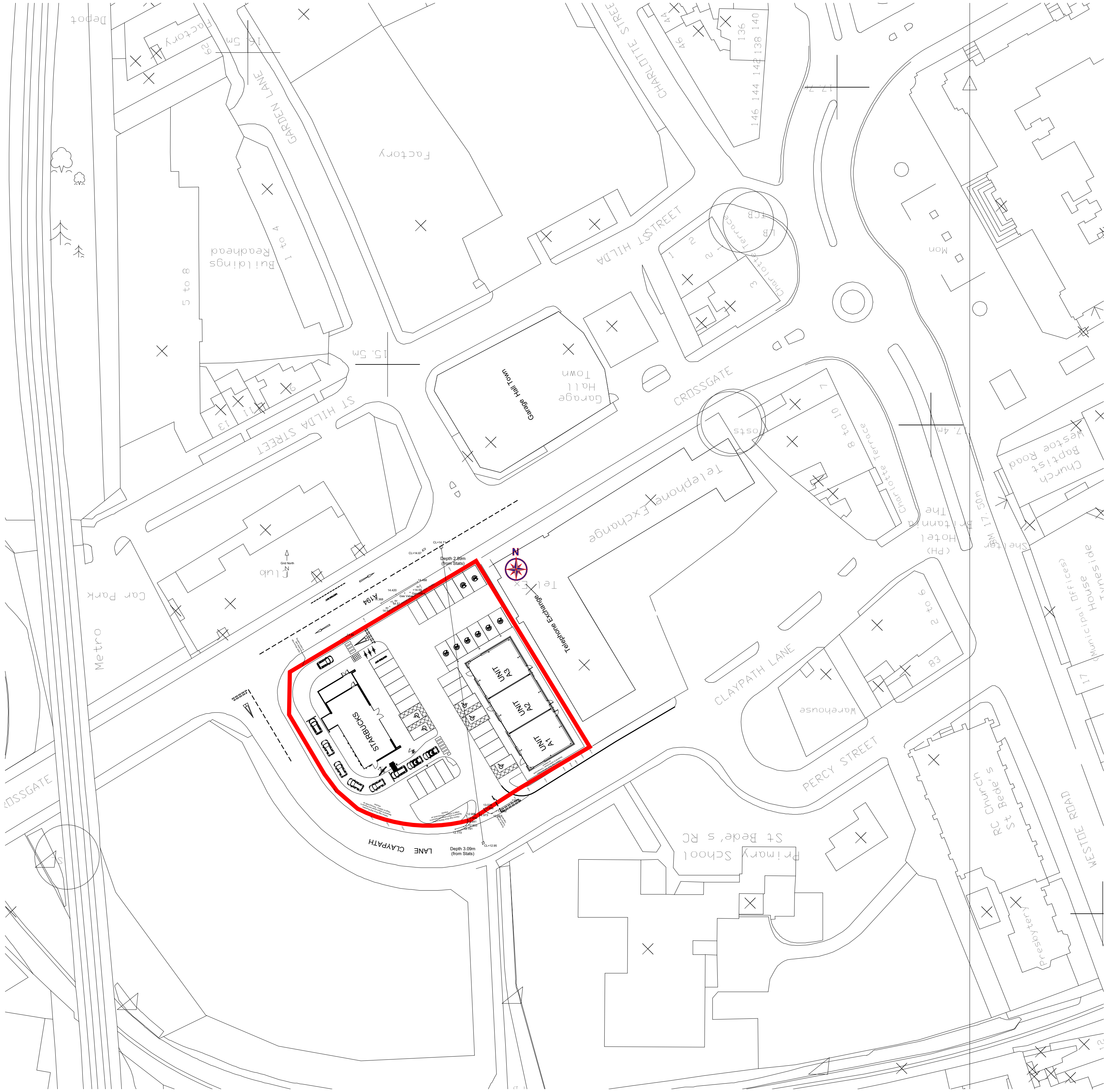
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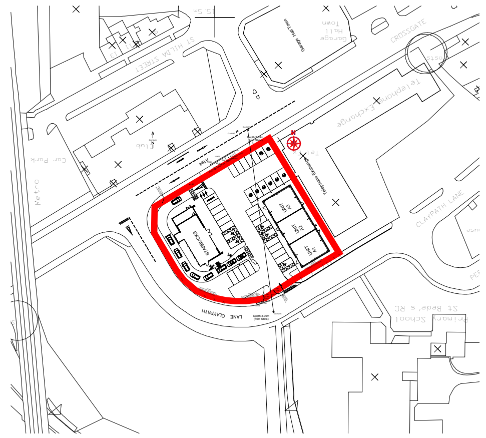
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			FIGURE NO: 1	DRAWN BY: AB	SCALE: NTS

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DETAIL DRAWINGS AT LARGER SCALE TAKE PRECEDENCE OVER GENERAL ARRANGEMENT DRAWINGS

Rev	Date	By	Description
P01	-	-	-



1 **Site Location Plan**
1 : 500



2 **Site Location Plan 02**
1 : 1250

Modo Bloc

ima ARCHITECTS
6 Rose Way
Blaby Business Park
Lutterworth Road
Blaby
Leicester
LE8 4BY
0116 2781200
www.ima-architects.co.uk

Project	Modo Bloc Ltd Proposed Retail Development Crossgate, South Shields
IMA Project No.	222008
Drawing No.	222008-IMA-ST-XX-DR-A-050101
Revision	P01
Status	Planning
Drawing Title	Site Location Plan
Date	12/07/2022
Scale	As indicated
Sheet Size	A1
Drawn By	NO
Checked By	BH

TITLE: Proposed Development Plan Crossgate South Shields	CLIENT: Modo Bloc Limited	DRAWN BY: AB	APPROVED BY: CR	PROJECT NO: G23017
		DATE: 22/08/2023	FIGURE NO: 2	SCALE: NTS

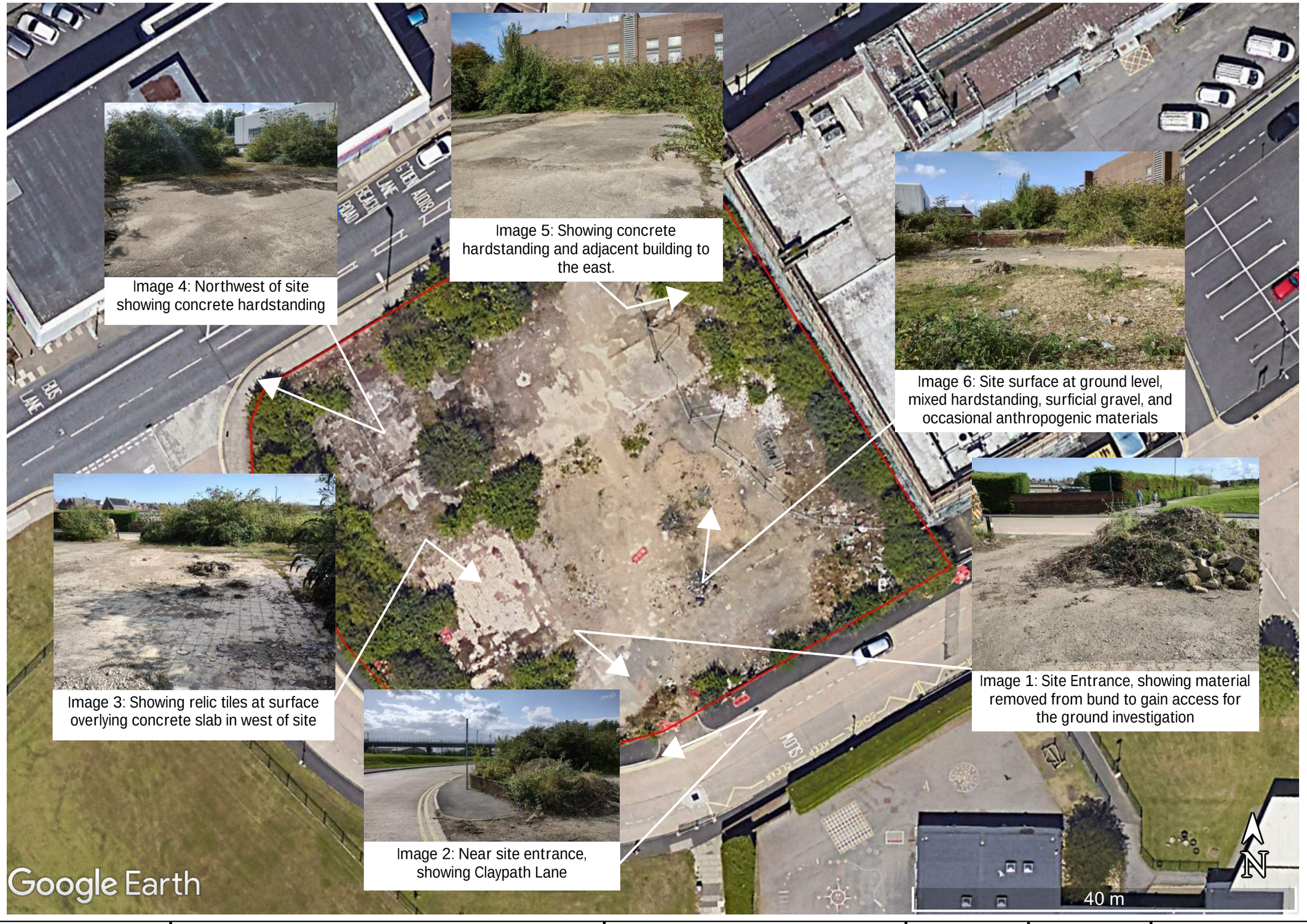


Image 4: Northwest of site showing concrete hardstanding

Image 5: Showing concrete hardstanding and adjacent building to the east.

Image 6: Site surface at ground level, mixed hardstanding, surficial gravel, and occasional anthropogenic materials

Image 3: Showing relic tiles at surface overlying concrete slab in west of site

Image 2: Near site entrance, showing Claypath Lane

Image 1: Site Entrance, showing material removed from bund to gain access for the ground investigation

RWO	TITLE: Site Features Plan Crossgate, South Shields	CLIENT: Modo Bloc Ltd	DRAWN BY: DP	APPROVED BY: AB	PROJECT NO: G23017
			DATE: 29 / 08 / 2023	FIGURE NO: 3	SCALE: NTS

KEY

SOURCES

1. Made ground: previous development
2. Made ground: infilled clay quarry
3. Mine workings
4. UST associated with petrol station

PATHWAYS

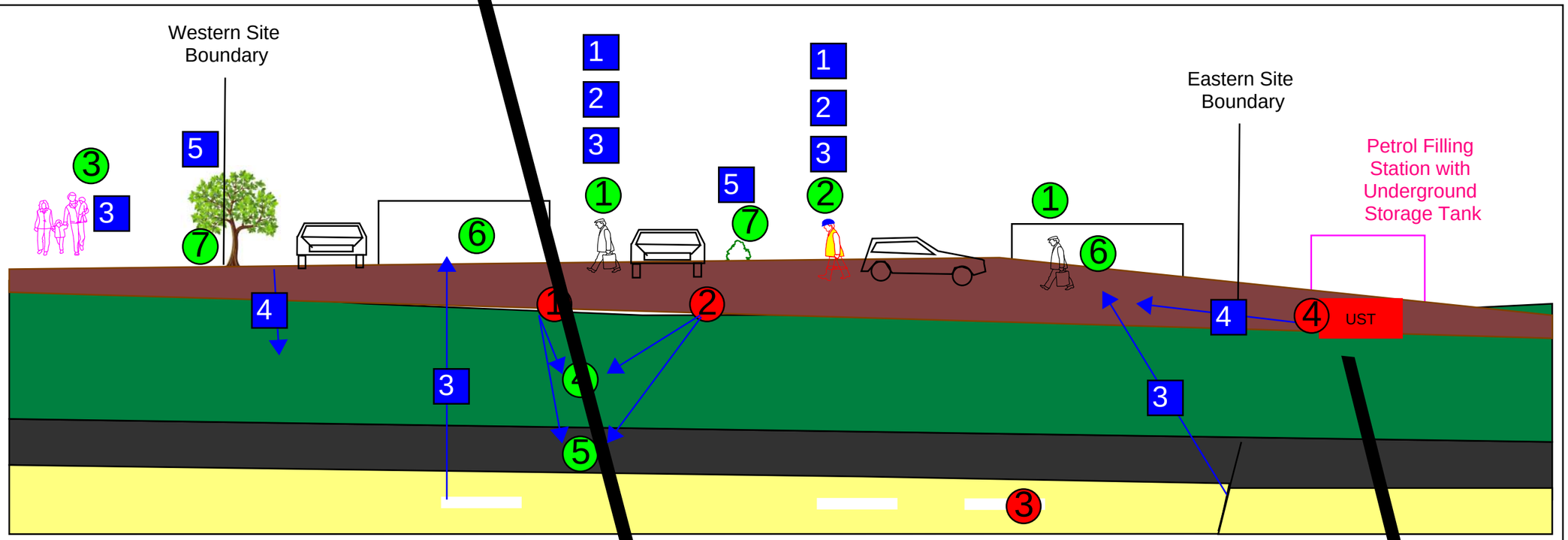
1. Direct ingestion
2. Dermal contact
3. Inhalation of dust/volatiles/gas
4. Vertical/lateral migration of leachable contaminants
5. Plant uptake / consumption
6. Direct contact

RECEPTORS

1. End users - commercial/retail users/workers
2. Construction workers
3. Adjacent users
4. Controlled waters - Unproductive Aquifer
5. Controlled waters - Secondary Aquifer
6. Buried structures
7. Vegetation

GEOLOGY

- Made Ground
- Devensian Till
- Coal Measures
- Sandstone
- Coal
- Underground Workings



Source(s)	Pathway(s)	Receptor(s)	Probability	Consequence	Risk	Comments
1 2 4 Inorganics, organics (PAHs), asbestos	1 2 3 4	1	Low	Severe	Moderate	Extensive and deep made ground likely. However, proposed use with structures and hardstandings reducing chance of pathway to receptor. Asbestos dictates consequence.
		2	Moderate	Severe	High	Use of PPE/RPE will lower risk.
		3	Low	Mild	Very Low	
		7	Low	Mild	Very Low	Vegetation in any landscaping areas may be adversely affected by phytotoxic contaminants.
	4	4 5	Low	Mild	Very Low	Localised sources with low probability of volatile fractions or limited pathway availability. Glaciolacustrine Deposits of low permeability.
1 2 4 Contaminants aggressive to building materials	4 6	6	Moderate	Moderate	Moderate	
1 2 3 4 Hazardous Ground Gas	3	1	Low	Severe	Moderate	Significant thickness of made ground likely present and fault may act as conduit for potential mine gas. Glaciolacustrine Deposits of low permeability likely inhibit migration of potential adajcent or coal mining related sources.
		2	Moderate	Severe	High	Higher risk in excavations. Use of PPE/RPE will lower the risk.
		3	Low	Mild	Very Low	Significant thickness of made ground likely present, although material unlikley to generate significant ground gas.

RWO

TITLE: Conceptual Site Model	
CLIENT: Modo Bloc Limited	
PROJECT NAME: Crossgate, South Shields	
PROJECT NO: G23017	FIGURE NO: 4
DRAWN BY: AB	APPROVED BY: CR
SCALE: NTS	DATE: 22/08/2023



RWO	TITLE: Exploratory Hole Location Plan Crossgate South Shields	CLIENT: Modo Bloc Limited	LEGEND: Site Boundary Cable Percussion Borehole Trial Pit	APPROVED BY: CR	DRAWN BY: AB	PROJECT NO: G23017
				DATE: 29/08/2023	FIGURE NO: 5	SCALE: NTS

KEY

SOURCES

1. Made ground: previous development
2. Made ground: infilled clay quarry
3. Mine workings
4. UST associated with petrol station

PATHWAYS

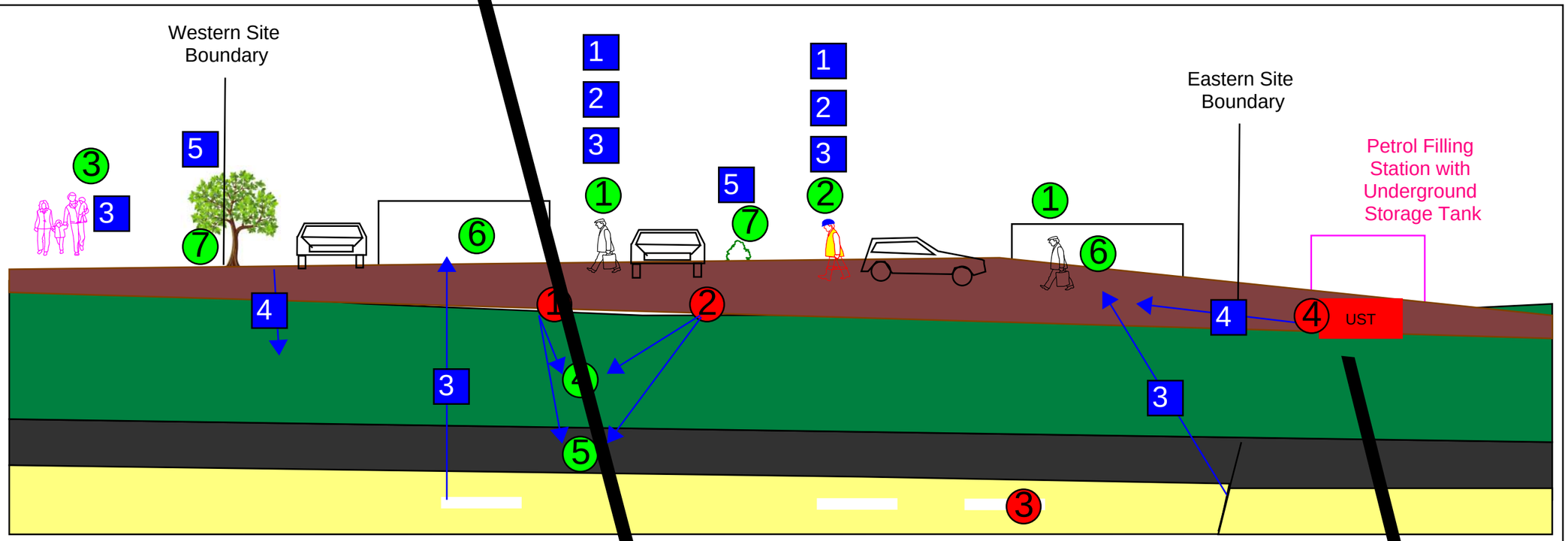
1. Direct ingestion
2. Dermal contact
3. Inhalation of dust/volatiles/gas
4. Vertical/lateral migration of leachable contaminants
5. Plant uptake / consumption
6. Direct contact

RECEPTORS

1. End users - commercial/retail users/workers
2. Construction workers
3. Adjacent users
4. Controlled waters - Unproductive Aquifer
5. Controlled waters - Secondary Aquifer
6. Buried structures
7. Vegetation

GEOLOGY

- Made Ground
- Devensian Till
- Coal Measures
- Sandstone
- Coal
- Underground Workings



Source(s)	Pathway(s)	Receptor(s)	Probability	Consequence	Risk	Comments
1 2 4	1 2	1	Low	Mild	Low	Extensive and deep made ground present. However, proposed use with structures and hardstandings reducing chance of pathway to receptor. Testing has not identified contamination/asbestos. However, if suspected ACMs are identified during the works, this risk assessment should be updated.
Inorganics, organics (PAHs), asbestos	3 4	2	Low	Severe	Moderate	Testing has not identified contamination/asbestos. However, if suspected ACMs are identified during the works, this risk assessment should be updated. Use of PPE/RPE will lower risk.
		3	Low	Mild	Very Low	
		7	Low	Mild	Very Low	Vegetation in any landscaping areas may be adversely affected by phytotoxic contaminants.
	4	4 5	Low	Mild	Very Low	Testing has not identified contamination. Glaciolacustrine Deposits of low permeability.
1 2 4	4 6	6	Low	Mild	Very Low	Based on using the most appropriate concrete classification.
Contaminants aggressive to building materials						
1 2 3 4	3	1	Low	Moderate	Low	Limited gas concentrations detected and no detected flow. Glaciolacustrine Deposits and possible Diamicton of low permeability likely inhibit migration of potential adajcent or coal mining related sources. However, adajcent fault may act as conduit for mine gas.
Hazardous Ground Gas		2	Moderate	Severe	High	Higher risk in excavations. Use of PPE/RPE will lower the risk.
		3	Low	Mild	Very Low	No significant gases detected.

RWO

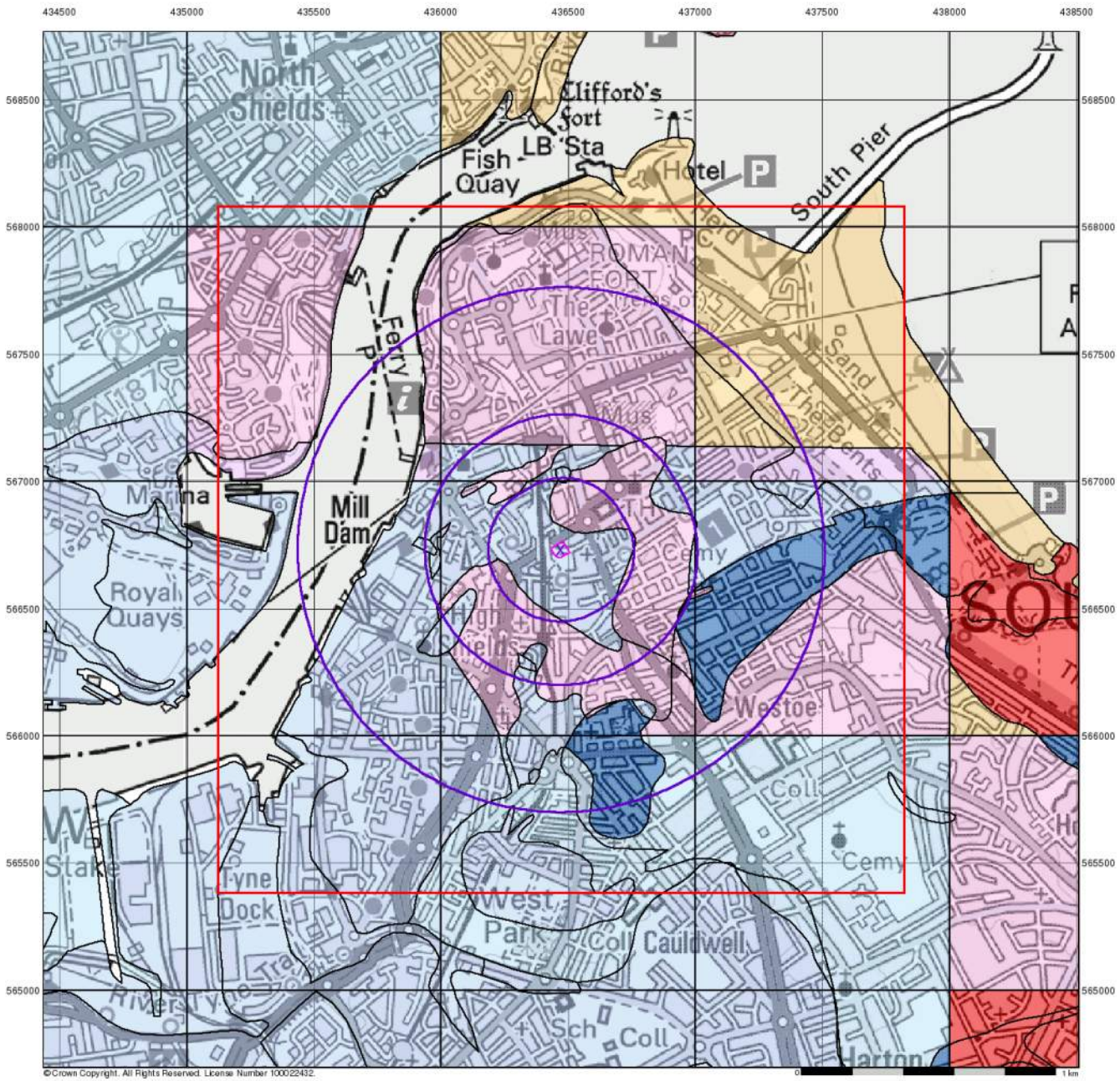
TITLE:
Revised Conceptual Site Model

CLIENT:
Modo Bloc Limited

PROJECT NAME:
Crossgate, South Shields

PROJECT NO:	FIGURE NO:
G23017	6
DRAWN BY: AB	APPROVED BY: CR
SCALE: NTS	DATE: 22/08/2023

Appendix B Landmark Envirocheck Report and Coal Authority Consultants Coal Mining Report



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Groundwater Vulnerability

General

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

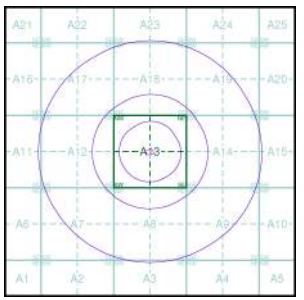
Agency and Hydrological

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

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

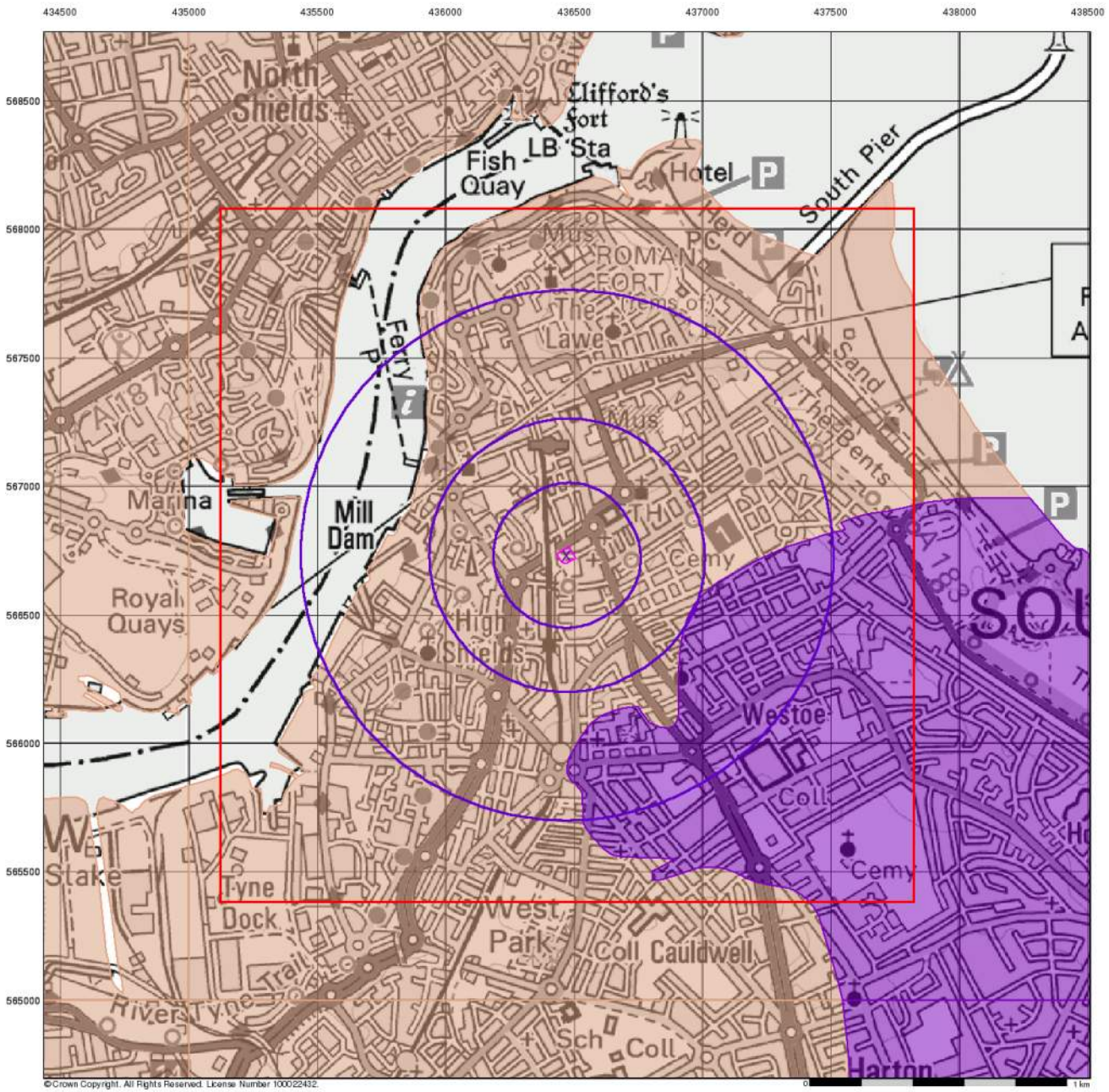
Order Number:	313523724_1_1
Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

Crossgate, SOUTH SHIELDS, NE33 4NU

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Bedrock Aquifer Designation

General

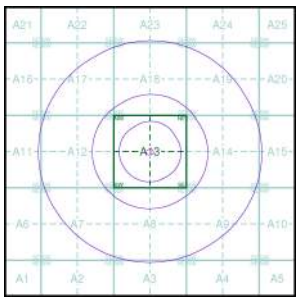
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



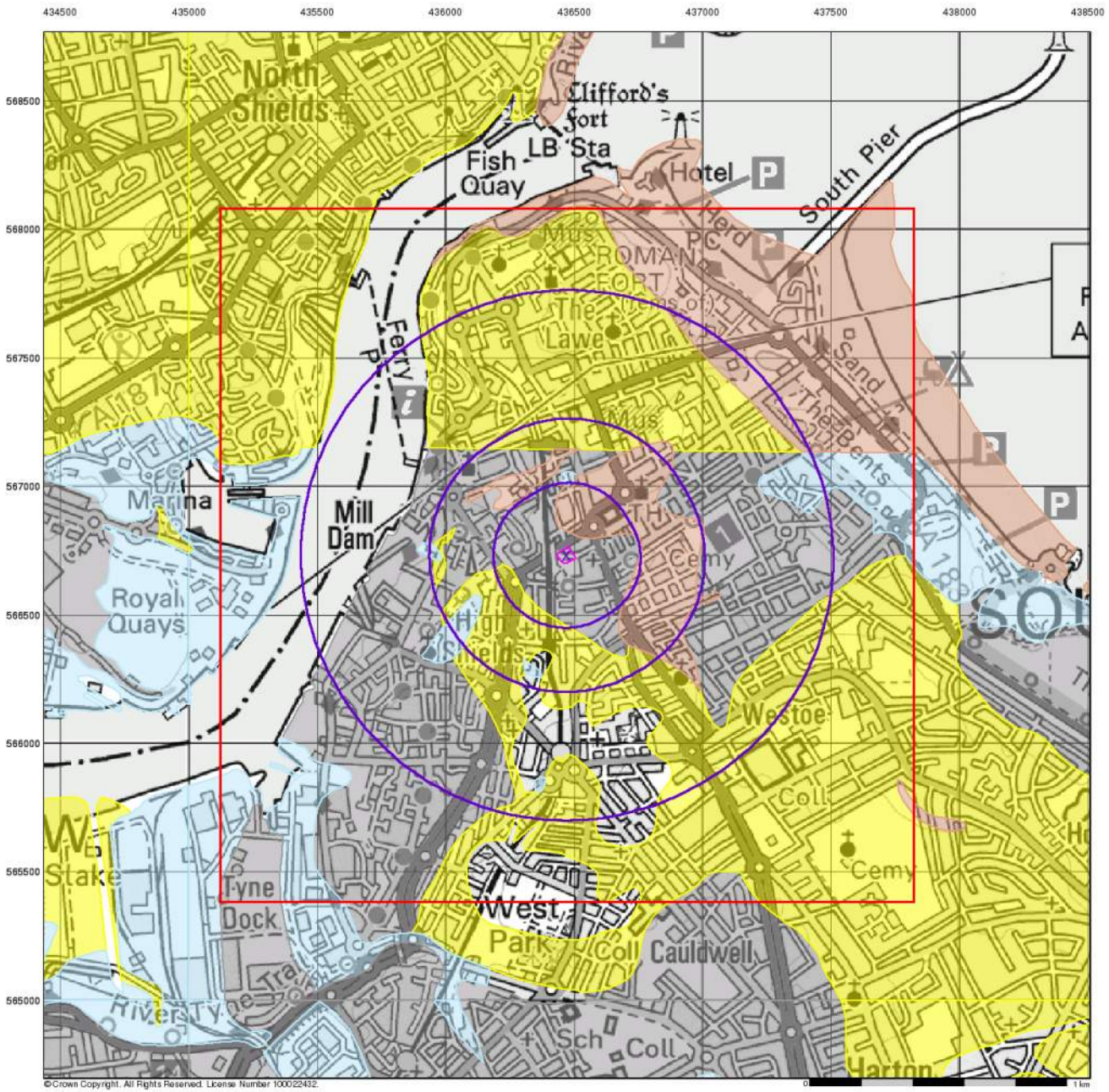
Order Details

Order Number:	313523724_1_1
Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

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Superficial Aquifer Designation

General

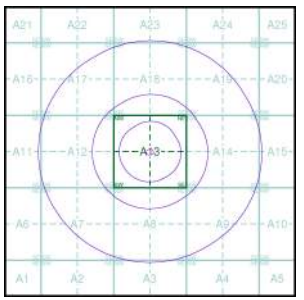
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



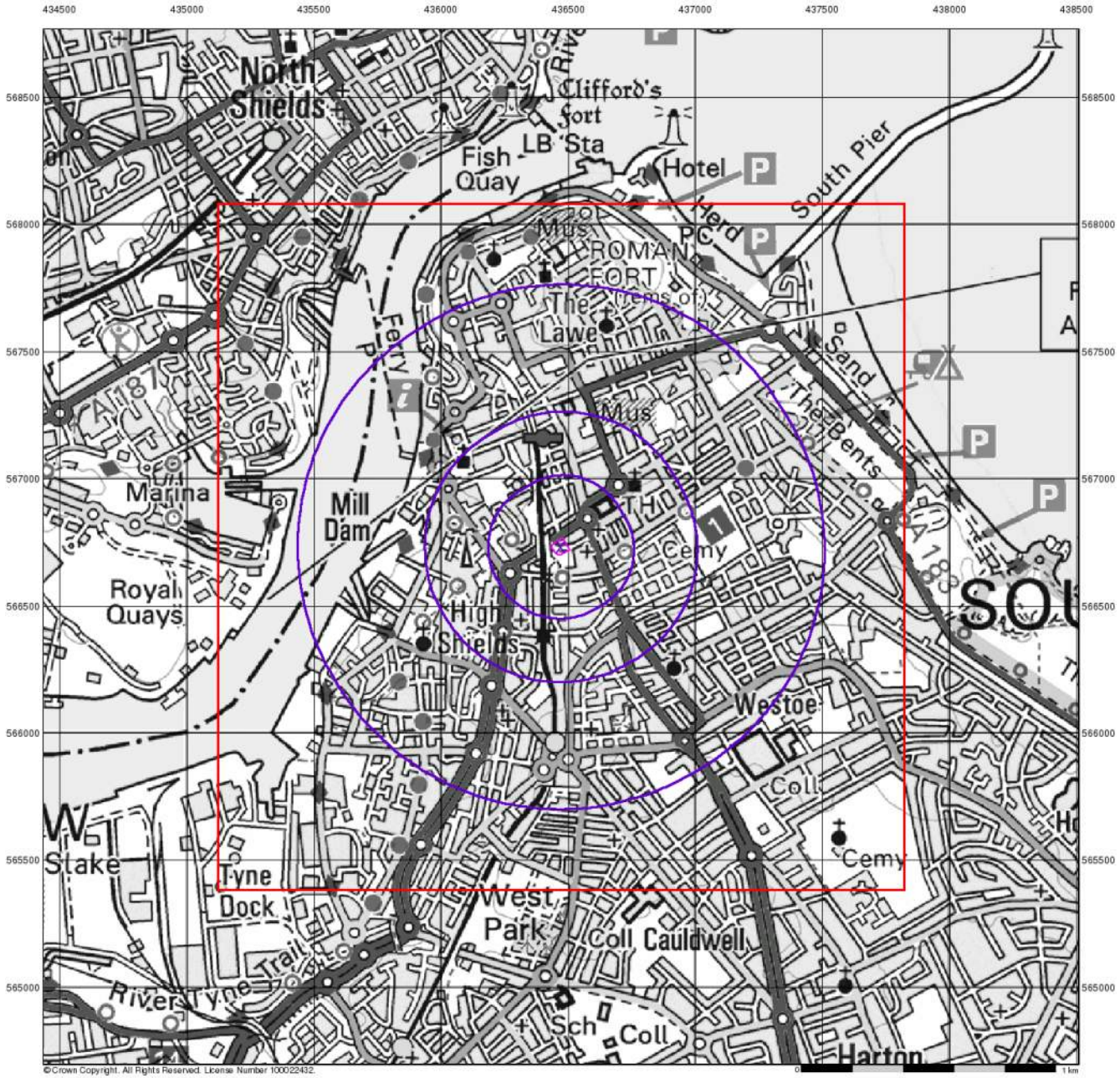
Order Details

Order Number:	313523724_1_1
Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

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Source Protection Zones

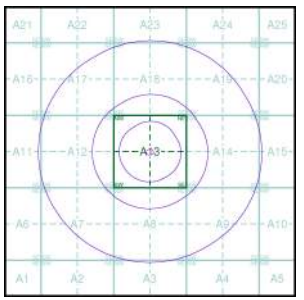
General

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

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

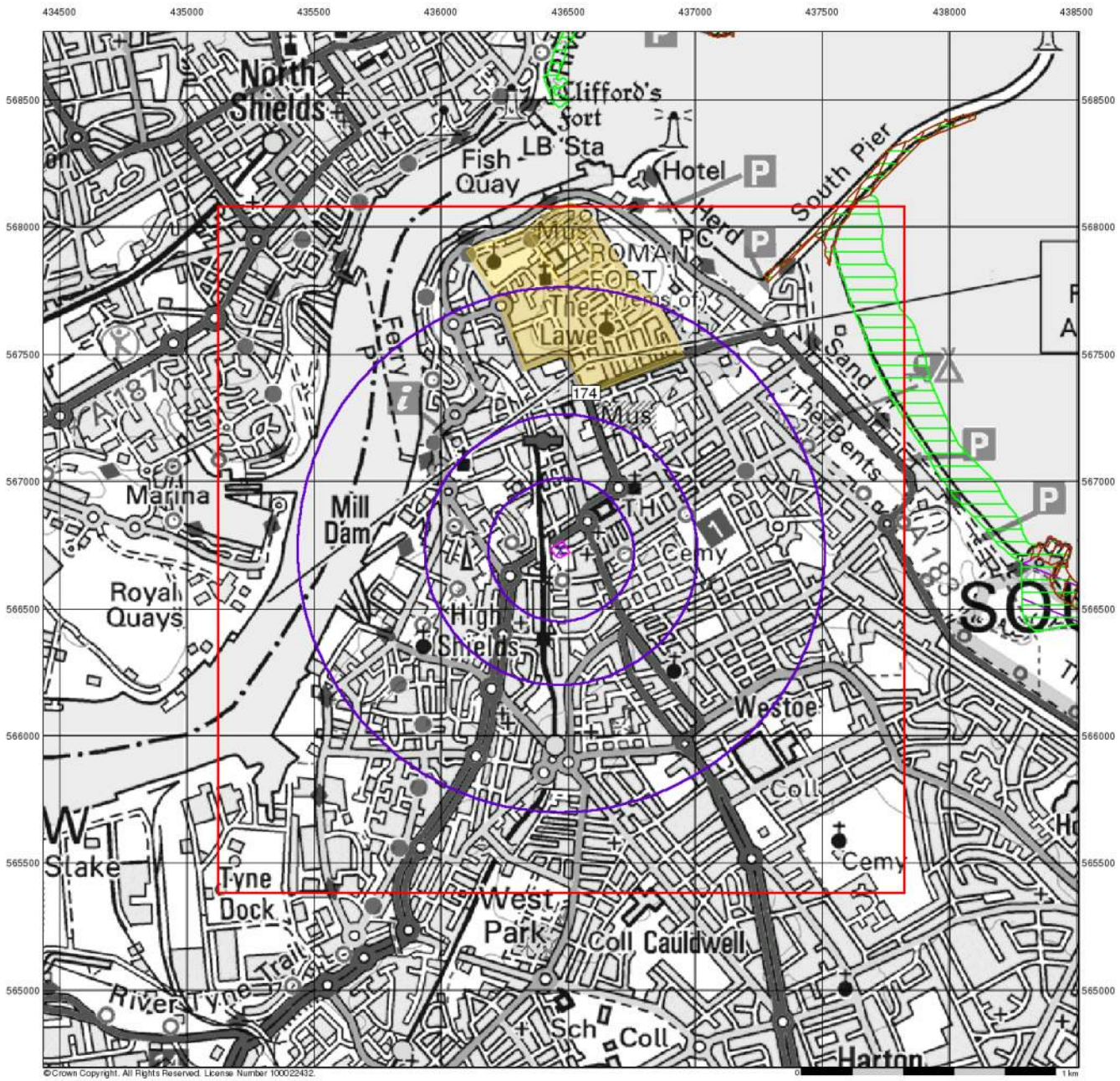
Order Number:	313523724_1_1
Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

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Sensitive Land Uses

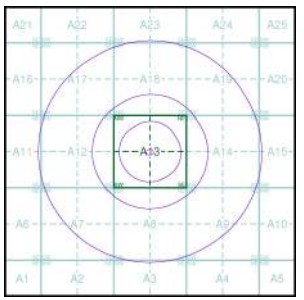
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

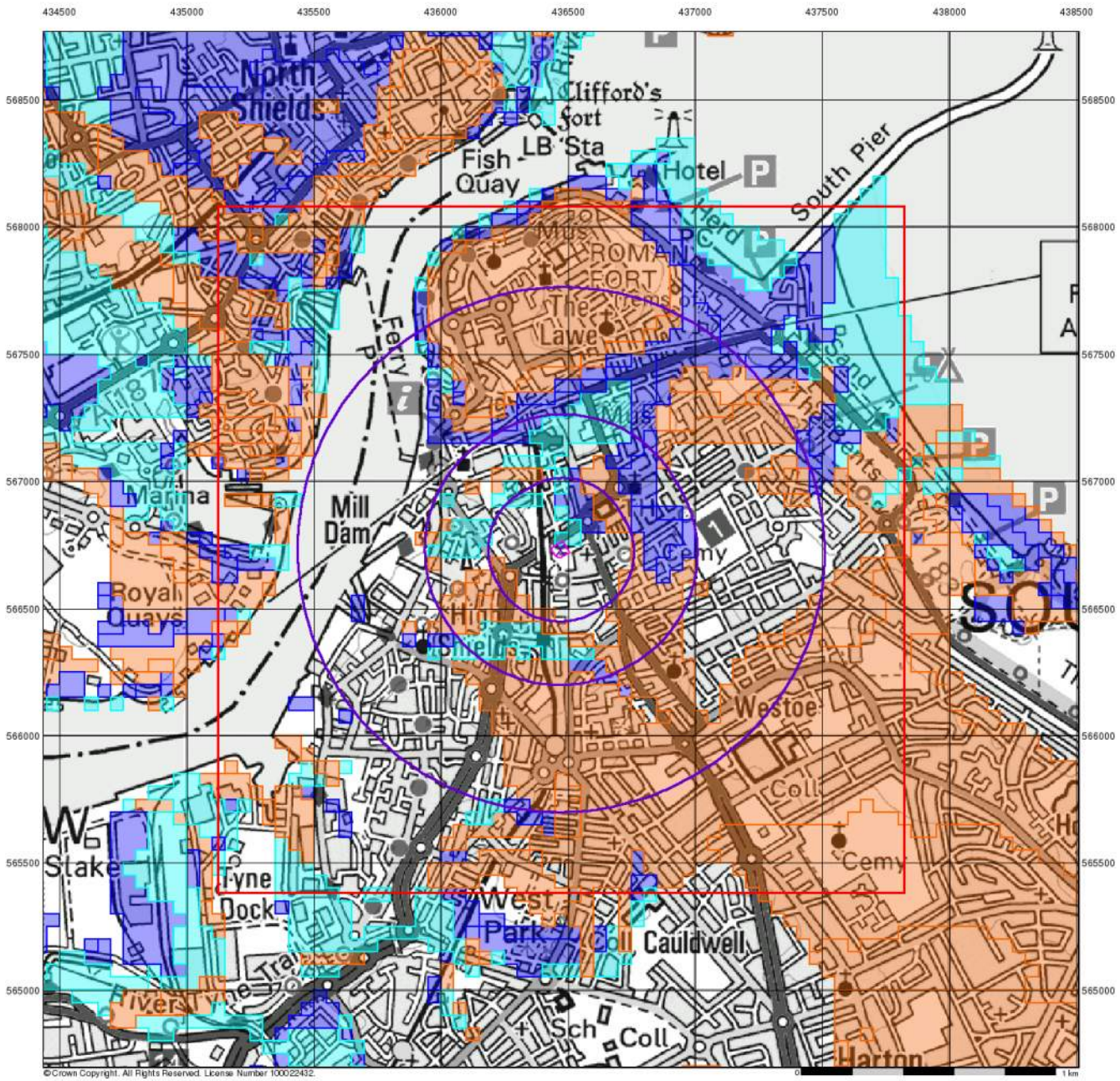
Order Number:	313523724_1_1
Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

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BGS Flood GFS Data

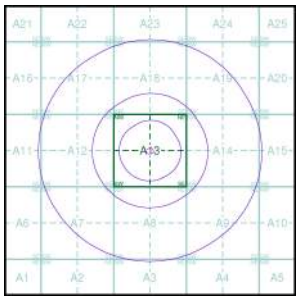
General

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

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	313523724_1_1
Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

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Fax: 0844 844 9951
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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
313523724_1_1

Customer Reference:
G23017

National Grid Reference:
436470, 566730

Slice:
A

Site Area (Ha):
0.29

Search Buffer (m):
1000

Site Details:

Crossgate
SOUTH SHIELDS
NE33 4NU

Client Details:

Ms A Baird
RWO Associates (Geotechnical) Ltd
Offices 5 & 6 Navigation House, 16 Ellerbeck Way
Stokesley
North Yorkshire
TS9 5JZ

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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	24
Hazardous Substances	29
Geological	30
Industrial Land Use	35
Sensitive Land Use	56
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Data Suppliers	62
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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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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				58
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 16				12
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control	pg 18				1
Local Authority Pollution Prevention and Controls	pg 18		2	4	6
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 20				Yes
Pollution Incidents to Controlled Waters	pg 20				11
Prosecutions Relating to Authorised Processes	pg 22				1
Registered Radioactive Substances	pg 22			2	
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 22				1
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 23	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 23	1	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 23				3

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 24				3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 24				1
Licensed Waste Management Facilities (Locations)	pg 24			1	4
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 26				2
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 26			1	3
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 29			1	
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 29			1	
Planning Hazardous Substance Consents	pg 29			2	1
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 30	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 30	1	6	4	9
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 33	Yes	n/a	n/a	n/a
Mining Instability	pg 33	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 33	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 33	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 34	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 34	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

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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 35		69	65	96
Fuel Station Entries	pg 55		1	2	
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites	pg 56				1

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	0	1	436472 566750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	78	1	436550 566800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	86	1	436472 566850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	147	1	436600 566850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	157	1	436300 566650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	158	1	436400 566900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	186	1	436472 566950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	205	1	436700 566650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	237	1	436200 566750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	249	1	436400 567000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	255	1	436750 566800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	259	1	436400 566450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	287	1	436450 567050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	288	1	436700 566950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	294	1	436200 566550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	297	1	436150 566650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	302	1	436500 566400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	332	1	436650 567050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	343	1	436850 566700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	357	1	436150 566950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	360	1	436100 566600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	366	1	436850 566850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	391	1	436050 566800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	402	1	436500 566300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	407	1	436350 567150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	419	1	436050 566900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	437	1	436000 566750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	437	1	436000 566700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	467	1	436850 567050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	472	1	436300 567200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	475	1	436200 567150
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Tudor Road Cso In Grassed Verge Nr Police Hq, Tudor Road, South Shields, Tyne And Wear, Ne33 4pq Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1905 Permit Version: 1 Effective Date: 24th January 2005 Issued Date: 24th January 2005 Revocation Date: 1st December 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Coronation Street Pumping Station, South Shields, Tyne & Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1906 Permit Version: 1 Effective Date: 24th January 2005 Issued Date: 24th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Coronation Street Pumping Station, South Shields, Tyne & Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1906 Permit Version: 1 Effective Date: 24th January 2005 Issued Date: 24th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Harton Low Staithes (Mill Dam) Cso, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1907 Permit Version: 1 Effective Date: 24th January 2005 Issued Date: 24th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Tudor Road Cso In Grassed Verge Nr Police Hq, Tudor Road, South Shields, Tyne And Wear, Ne33 4pq Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1905 Permit Version: 2 Effective Date: 2nd December 2010 Issued Date: 24th January 2005 Revocation Date: 8th April 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Harton Low Staithes Pumping Station, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1638 Permit Version: 1 Effective Date: 20th January 1999 Issued Date: 20th January 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Harton Low Staithes (Mill Dam) Cso, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1636 Permit Version: 1 Effective Date: 19th January 1999 Issued Date: 19th January 1999 Revocation Date: 24th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: Undefined Or Other Location: Harton Low Staithes (Mill Dam), South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1408 Permit Version: 1 Effective Date: 19th July 1993 Issued Date: 19th July 1993 Revocation Date: 9th March 1999 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12NE (W)	621	2	435840 566910
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Coronation Street Pumping Station, South Shields, Tyne & Wear Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1173 Permit Version: 1 Effective Date: 10th December 1992 Issued Date: 10th December 1992 Revocation Date: 24th January 2005 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Coronation Street Pumping Station, South Shields, Tyne & Wear Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1173 Permit Version: 1 Effective Date: 10th December 1992 Issued Date: 10th December 1992 Revocation Date: 24th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: Undefined Or Other Location: Harton Low Staithes (Mill Dam), South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1172 Permit Version: 1 Effective Date: 29th October 1992 Issued Date: 29th October 1992 Revocation Date: 19th July 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Tudor Road Cso In Grassed Verge Nr Police Hq, Tudor Road, South Shields, Tyne And Wear, Ne33 4pq Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1171 Permit Version: 1 Effective Date: 2nd September 1992 Issued Date: 2nd September 1992 Revocation Date: 24th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910
1	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: Undefined Or Other Location: Harton Low Staithes (Mill Dam), South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/X/0082 Permit Version: 1 Effective Date: 28th April 1987 Issued Date: 28th April 1987 Revocation Date: 29th October 1992 Discharge Type: Unspecified Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910
1	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: Undefined Or Other Location: Harton Low Staithes (Mill Dam), South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/X/0023 Permit Version: 1 Effective Date: 18th February 1987 Issued Date: 18th February 1987 Revocation Date: 2nd September 1992 Discharge Type: Unspecified Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	621	2	435840 566910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Coronation St Cso, 10 Coronation St, South Shields, Newcastle Upon Tyne, Ne33 1az Authority: Environment Agency, North East Region Catchment Area: South Tyne; Allen; Nent Reference: Eprbp3720xy Permit Version: 2 Effective Date: 13th March 2020 Issued Date: 13th March 2020 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tyne (Estuary) **Status:** **New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	623	2	435837 566907
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Tudor Road Cso In Grassed Verge Nr Police Hq, Tudor Road, South Shields, Tyne And Wear, Ne33 4pq Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1905 Permit Version: 3 Effective Date: 9th April 2018 Issued Date: 9th April 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: River Tyne Estuarine Waters **Status:** **Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	623	2	435837 566907
1	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Coronation St Cso, 10 Coronation St, South Shields, Newcastle Upon Tyne, Ne33 1az Authority: Environment Agency, North East Region Catchment Area: South Tyne; Allen; Nent Reference: Eprbp3720xy Permit Version: 1 Effective Date: 14th June 2010 Issued Date: 14th June 2010 Revocation Date: 12th March 2020 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Tyne **Status:** **New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	623	2	435837 566907
2	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Harton Low Staithes Cso Near Grass Field And Footpath To, Ferry Terminal, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1908 Permit Version: 1 Effective Date: 25th January 2005 Issued Date: 25th January 2005 Revocation Date: 1st December 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	631	2	435920 567100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Harton Low Staithes Cso Near Grass Field And Footpath To, Ferry Terminal, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1908 Permit Version: 2 Effective Date: 2nd December 2010 Issued Date: 25th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	631	2	435920 567100
2	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Harton Low Staithes Cso Near Grass Field And Footpath To, Ferry Terminal, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1637 Permit Version: 1 Effective Date: 20th January 1999 Issued Date: 20th January 1999 Revocation Date: 25th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	631	2	435920 567100
2	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: King Street Cso, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1904 Permit Version: 1 Effective Date: 24th January 2005 Issued Date: 24th January 2005 Revocation Date: 1st April 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	633	2	435910 567090
2	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Harton Low Staithes Cso, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1169 Permit Version: 1 Effective Date: 29th October 1992 Issued Date: 29th October 1992 Revocation Date: 9th March 1999 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	633	2	435910 567090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: King Street Cso, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1170 Permit Version: 1 Effective Date: 7th September 1992 Issued Date: 7th September 1992 Revocation Date: 24th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	633	2	435910 567090
2	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Harton Low Staithes Cso, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/X/0022 Permit Version: 1 Effective Date: 18th February 1987 Issued Date: 18th February 1987 Revocation Date: 7th September 1992 Discharge Type: Unspecified Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	633	2	435910 567090
2	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Harton Low Staithes Pumping Station, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1638 Permit Version: 1 Effective Date: 20th January 1999 Issued Date: 20th January 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	636	2	435916 567103
2	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: Undefined Or Other Location: Harton Low Staithes North - B6, South Shields Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/X/0134 Permit Version: 1 Effective Date: 5th June 1987 Issued Date: 5th June 1987 Revocation Date: 10th December 1992 Discharge Type: Unspecified Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	645	2	435910 567110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: Undefined Or Other Location: Harton Low Staithes North - B6, South Shields Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/X/0081 Permit Version: 1 Effective Date: 28th April 1987 Issued Date: 28th April 1987 Revocation Date: 29th October 1992 Discharge Type: Unspecified Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	645	2	435910 567110
3	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: Undefined Or Other Location: Dalton Lane Police Station, Mill Dam, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1383 Permit Version: 1 Effective Date: 20th April 1993 Issued Date: 20th April 1993 Revocation Date: 9th March 1999 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12NE (W)	633	2	435820 566880
3	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: Undefined Or Other Location: Dalton Lane Depot, Mill Dam, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1380 Permit Version: 1 Effective Date: 29th April 1993 Issued Date: 29th April 1993 Revocation Date: 29th September 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12NE (W)	635	2	435810 566840
4	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: CSO ON UNADOPTED SEWERAGE NETWORK (NOT WATER COMPANY) Location: Spring Lane Sewer, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1168 Permit Version: 1 Effective Date: 29th October 1992 Issued Date: 29th October 1992 Revocation Date: 9th March 1999 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	706	2	435930 567230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: Undefined Or Other Location: Spring Lane Outfall G - B5, South Shields Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/X/0080 Permit Version: 1 Effective Date: 28th April 1987 Issued Date: 28th April 1987 Revocation Date: 29th October 1992 Discharge Type: Unspecified Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	714	2	435920 567230
5	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: Undefined Or Other Location: Harton Low Staithes (Middle Dock) S, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1174 Permit Version: 1 Effective Date: 29th October 1992 Issued Date: 29th October 1992 Revocation Date: 9th March 1999 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12SW (W)	772	2	435670 566630
5	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: Undefined Or Other Location: Harton Low Staithes (Middle Dock) S, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/X/0083 Permit Version: 1 Effective Date: 28th April 1987 Issued Date: 28th April 1987 Revocation Date: 29th October 1992 Discharge Type: Unspecified Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	772	2	435670 566630
5	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Cso At East Holborn West Opp The Holborn Rose And Crown, East Holborn, South Sheilds, Tyne And Wear, Ne33 1rn Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1644 Permit Version: 2 Effective Date: 9th April 2018 Issued Date: 9th April 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: River Tyen Estuarine Waters **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	773	2	435670 566623

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: East Holborn Pumping Station, South Shieldsd, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1646 Permit Version: 1 Effective Date: 7th August 1998 Issued Date: 7th August 1998 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	774	2	435670 566620
5	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: East Holborn East Cso, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1645 Permit Version: 1 Effective Date: 7th August 1998 Issued Date: 7th August 1998 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	774	2	435670 566620
5	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Cso At East Holborn West Opp The Holborn Rose And Crown, East Holborn, South Sheilds, Tyne And Wear, Ne33 1rn Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1644 Permit Version: 1 Effective Date: 7th August 1998 Issued Date: 7th August 1998 Revocation Date: 8th April 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	774	2	435670 566620
5	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: East Holborn Septic Tank, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1647 Permit Version: 1 Effective Date: 7th August 1998 Issued Date: 7th August 1998 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	774	2	435670 566620

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Market Dock Pumping Station, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1639 Permit Version: 1 Effective Date: 20th January 1999 Issued Date: 20th January 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	810	2	435970 567400
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Eldon Street Cso, Junction Of Eldon St And Reed St, South Shields, Tyne And Wear, Ne33 5hx Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1944 Permit Version: 2 Effective Date: 1st April 2010 Issued Date: 29th March 2010 Revocation Date: 1st December 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	953	2	435548 566381
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Eldon Street Cso, Junction Of Eldon St And Reed St, South Shields, Tyne And Wear, Ne33 5hx Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1944 Permit Version: 3 Effective Date: 2nd December 2010 Issued Date: 29th March 2010 Revocation Date: 8th April 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	953	2	435548 566381
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Temple Street Cso Junct Of 238 South Eldon Street, And Temple Street, South Shields, Tyne And Wear, Ne33 5al Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1943 Permit Version: 1 Effective Date: 28th January 2005 Issued Date: 28th January 2005 Revocation Date: 2nd December 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Corstorphine Town Cso, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1941 Permit Version: 1 Effective Date: 28th January 2005 Issued Date: 28th January 2005 Revocation Date: 21st September 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Eldon Street Cso, Junction Of Eldon St And Reed St, South Shields, Tyne And Wear, Ne33 5hx Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1944 Permit Version: 1 Effective Date: 28th January 2005 Issued Date: 28th January 2005 Revocation Date: 31st March 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Mitre Place Cso, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1940 Permit Version: 1 Effective Date: 28th January 2005 Issued Date: 28th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Smith Street Cso, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1942 Permit Version: 1 Effective Date: 28th January 2005 Issued Date: 28th January 2005 Revocation Date: 21st September 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Temple Street Cso Junct Of 238 South Eldon Street, And Temple Street, South Shields, Tyne And Wear, Ne33 5al Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/1943 Permit Version: 2 Effective Date: 3rd December 2010 Issued Date: 28th January 2005 Revocation Date: 8th April 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Smith Street Pumping Station, Jct Smith St & Corstorphine Town, South Shields, Tyne & Wear, Ne33 1qx Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1652 Permit Version: 1 Effective Date: 10th August 1998 Issued Date: 10th August 1998 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Corstorphine Town Cso, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1649 Permit Version: 1 Effective Date: 10th August 1998 Issued Date: 10th August 1998 Revocation Date: 28th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Mitre Place Cso, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1650 Permit Version: 1 Effective Date: 10th August 1998 Issued Date: 10th August 1998 Revocation Date: 28th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Smith Street Cso, South Shields, South Tyneside Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1648 Permit Version: 1 Effective Date: 10th August 1998 Issued Date: 10th August 1998 Revocation Date: 28th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Saline Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: Undefined Or Other Location: Harton High Staithes Sewer, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1176 Permit Version: 1 Effective Date: 29th October 1992 Issued Date: 29th October 1992 Revocation Date: 9th March 1999 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Eldon Street Cso, Junction Of Eldon St And Reed St, South Shields, Tyne And Wear, Ne33 5hx Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1175 Permit Version: 1 Effective Date: 2nd September 1992 Issued Date: 2nd September 1992 Revocation Date: 28th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Northumbrian Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Temple Street Cso Junct Of 238 South Eldon Street, And Temple Street, South Shields, Tyne And Wear, Ne33 5al Authority: Environment Agency, North East Region Catchment Area: Tyne (Lower)/Team/Don Reference: 235/1177 Permit Version: 1 Effective Date: 2nd September 1992 Issued Date: 2nd September 1992 Revocation Date: 28th January 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Eldon Street/Reed Street Sso, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/X/0024 Permit Version: 1 Effective Date: 18th February 1987 Issued Date: 18th February 1987 Revocation Date: 2nd September 1992 Discharge Type: Unspecified Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: Undefined Or Other Location: Temple Street, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/X/0025 Permit Version: 1 Effective Date: 18th February 1987 Issued Date: 18th February 1987 Revocation Date: 2nd September 1992 Discharge Type: Unspecified Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
7	**Discharge Consents** Operator: Redundant - Northumbrian Water Ltd Property Type: Undefined Or Other Location: Harton High Staithes Sewer, South Shields, Tyne And Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/X/0040 Permit Version: 1 Effective Date: 11th February 1987 Issued Date: 11th February 1987 Revocation Date: 29th October 1992 Discharge Type: Unspecified Discharge Environment: Saline Estuary Receiving Water: Tyne Estuary **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A7NW (W)	961	2	435540 566380
8	**Discharge Consents** Operator: Unknown, Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Whitehill Point Care Ferry Terminal, Albert Edward Dock, North Shields Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/B/0041 Permit Version: 1 Effective Date: 16th July 1965 Issued Date: 16th July 1965 Revocation Date: 25th December 1965 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Saline Estuary Receiving Water: Tyne **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12SW (W)	963	2	435500 566500
9	**Integrated Pollution Controls** Name: Tyne Dock Engineering Ltd Location: Po Box 7 Hill Street, SOUTH SHIELDS, Tyne And Wear, NE33 1RN Authority: Environment Agency, North East Region Permit Reference: BD4295 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 6.5 A (A) Coating processes and Printing within Miscellaneous Industries **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	690	2	435796 566471

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Integrated Pollution Controls** Name: Tyne Dock Engineering Ltd Location: P O Box 7, Hill Street, SOUTH SHIELDS, Tyne And Wear, NE33 1RN Authority: Environment Agency, North East Region Permit Reference: AU6889 Dated: 11th September 1996 Process Type: IPC new application Description: 6.5 A (A) Coating processes and Printing within Miscellaneous Industries **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	692	2	435796 566466
10	**Integrated Pollution Controls** Name: Tyne Dock Engineering Ltd Location: PO Box 7, Hill Street, SOUTH SHIELDS, Tyne and Wear, NE33 1RN Authority: Environment Agency, North East Region Permit Reference: BF5926 Dated: 1st March 2000 Process Type: IPC minor (non-substantial) variation to previous variation Description: 6.5 A (A) Coating processes and Printing within Miscellaneous Industries **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	743	2	435718 566536
11	**Integrated Pollution Controls** Name: Circ Realisations Ltd Location: Eldon Street, SOUTH SHIELDS, Tyne And Wear, NE33 5BU Authority: Environment Agency, North East Region Permit Reference: BB9687 Dated: 21st December 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (A) processes involving Halogens within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	856	2	435821 566127
11	**Integrated Pollution Controls** Name: Circ Realisations Ltd Location: Eldon Street, SOUTH SHIELDS, Tyne And Wear, NE33 5BU Authority: Environment Agency, North East Region Permit Reference: AV8178 Dated: 30th August 1996 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (A) processes involving Halogens within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	859	2	435821 566122
11	**Integrated Pollution Controls** Name: Circ Realisations Ltd Location: Eldon Street, SOUTH SHIELDS, Tyne And Wear, NE33 5BU Authority: Environment Agency, North East Region Permit Reference: BD6166 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (A) processes involving Halogens within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	860	2	435816 566127
11	**Integrated Pollution Controls** Name: Circ Realisations Ltd Location: Eldon Street, SOUTH SHIELDS, Tyne and Wear, NE33 5BU Authority: Environment Agency, North East Region Permit Reference: Bu0621 Dated: 5th March 2003 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (A) processes involving Halogens within the Chemical Industry **Status: Authorisation revoked** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	863	2	435816 566122
11	**Integrated Pollution Controls** Name: Circ Realisations Ltd Location: Eldon Street, SOUTH SHIELDS, Tyne and Wear, NE33 5BU Authority: Environment Agency, North East Region Permit Reference: BI1703 Dated: 23rd November 2001 Process Type: IPC major (substantial) variation Description: 4.4 A (A) processes involving Halogens within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	863	2	435816 566122

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Integrated Pollution Controls** Name: Circ Realisations Ltd Location: Eldon Street, South Shields, Tyne And Wear, NE33 5BU Authority: Environment Agency, North East Region Permit Reference: Bj9363 Dated: 20th December 2000 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (A) processes involving Halogens within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	863	2	435816 566122
11	**Integrated Pollution Controls** Name: Circ Realisations Ltd Location: Eldon Street, SOUTH SHIELDS, Tyne And Wear, NE33 5BU Authority: Environment Agency, North East Region Permit Reference: AR1914 Dated: 17th May 1995 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (A) processes involving Halogens within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	863	2	435816 566122
11	**Integrated Pollution Controls** Name: Circ Realisations Ltd Location: Eldon Street, SOUTH SHIELDS, Tyne And Wear, NE33 5BU Authority: Environment Agency, North East Region Permit Reference: AI8285 Dated: 11th August 1993 Process Type: IPC new application Description: 4.4 A (A) processes involving Halogens within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	863	2	435821 566117
11	**Integrated Pollution Controls** Name: Circ Realisations Ltd Location: Eldon Street, SOUTH SHIELDS, Tyne And Wear, NE33 5BU Authority: Environment Agency, North East Region Permit Reference: AK3048 Dated: 5th November 1993 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (A) processes involving Halogens within the Chemical Industry **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	866	2	435816 566117
12	**Local Authority Integrated Pollution Prevention And Control** Name: Circatex Ltd Location: Eldon Street, South Shields, Tyne & Wear, NE33 5BU Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: 001/6.4(a) Dated: Not Supplied Process Type: Other Activities Description: Coating plastics **Status: Application Not Yet Authorised** Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	863	3	435816 566122
13	**Local Authority Pollution Prevention and Controls** Name: Town Hall Service Station Location: Crossgate, SOUTH SHIELDS, Tyne and Wear, NE33 5QX Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: STC/EPR/005 Dated: 8th September 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A13NE (N)	56	3	436506 566814
14	**Local Authority Pollution Prevention and Controls** Name: Streamline Garages Ltd Location: Franklin Street, SOUTH SHIELDS, Tyne and Wear, NE33 Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: 0.48/6.5(b) Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles **Status: Authorised** Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	234	3	436425 566991

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Local Authority Pollution Prevention and Controls** Name: Be Modern Ltd Location: Western Approach, SOUTH SHIELDS, Tyne and Wear, NE33 5QZ Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: PPC/08/13 Dated: 1st July 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	355	3	436184 566472
15	**Local Authority Pollution Prevention and Controls** Name: Be Modern Ltd Location: Western Approach, SOUTH SHIELDS, Tyne and Wear, NE33 5QZ Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: PPC/08/13 Dated: 1st July 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG1/12 Combustion of fuel manufactured from/or comprised of, solid waste in appliances between 0.4-3MW thermal input **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	355	3	436184 566472
16	**Local Authority Pollution Prevention and Controls** Name: Reg Vardy Plc Location: Tudor Road, SOUTH SHIELDS, Tyne and Wear, NE33 4PQ Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: 021/6.5(B) Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the address or location	A12SE (SW)	379	3	436124 566512
17	**Local Authority Pollution Prevention and Controls** Name: Sutherlands Location: Coronation Street, SOUTH SHIELDS, Tyne and Wear, NE33 1AS Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: 070/1.4(B) Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Application Not Yet Authorised** Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	392	3	436162 567017
18	**Local Authority Pollution Prevention and Controls** Name: Posh Wash North East Ltd Location: 168 Sunderland Road, South Shields, Ne33 4hn Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: STC/EPR/052 Dated: 1st September 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Located by supplier to within 100m	A8NE (S)	502	3	436500 566200
19	**Local Authority Pollution Prevention and Controls** Name: J R Selby Location: Commercial Road, SOUTH SHIELDS, Tyne and Wear, NE33 1RQ Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: 028/6.5(B) Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the address or location	A12SE (SW)	630	3	435866 566459
19	**Local Authority Pollution Prevention and Controls** Name: Tyne Auto Bodies Location: Hill Street, Commercial Road, SOUTH SHIELDS, Tyne an Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: 029/6.4(B) Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	659	3	435842 566443

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**Local Authority Pollution Prevention and Controls** Name: Jennings Accident Repair Centre Location: Commercial Road, SOUTH SHIELDS, Tyne and Wear, NE33 1RW Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: 015/6.5(b) Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status: Authorisation certificate surrendered by operator** Positional Accuracy: Automatically positioned to the address	A12SW (SW)	716	3	435790 566421
21	**Local Authority Pollution Prevention and Controls** Name: Dean Clean Location: 174 Dean Road, South Shields, Ne33 4aq Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: STC/EPR/051 Dated: 1st September 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	801	3	436500 565900
22	**Local Authority Pollution Prevention and Controls** Name: Circatex Ltd Location: Eldon Street, SOUTH SHIELDS, Tyne and Wear, NE33 5BU Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: 001/6.4(A) Dated: 22nd February 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG6/23 Coating of metal and plastic **Status: Transferred to LAIPPC** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	863	3	435816 566122
	Nearest Surface Water Feature	A12NE (W)	604	-	435861 566924
23	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: SOUTH SHIELDS, Tyne And Wear Authority: Environment Agency, North East Region Pollutant: Chemicals - Acid Note: Pollution Found; No Fish Killed Incident Date: 1st October 1996 Incident Reference: NT960270 Catchment Area: Lower Tyne Receiving Water: Coastal Water Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	678	2	436000 566200
24	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: SOUTH SHIELDS Authority: Environment Agency, North East Region Pollutant: Not Given Note: Tyne Est Incident Date: 2nd September 1990 Incident Reference: 235/000280 Catchment Area: Not Given Receiving Water: Saline Estuary Cause of Incident: Sewage - Other Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	688	2	435800 567000
25	**Pollution Incidents to Controlled Waters** Property Type: Highway/Car Park Location: SOUTH SHIELDS Authority: Environment Agency, North East Region Pollutant: Not Given Note: Tyne Estuary Incident Date: 4th October 1992 Incident Reference: 235/001562 Catchment Area: Not Given Receiving Water: No Pollution Cause of Incident: Oil General Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	726	2	437200 566500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Pollution Incidents to Controlled Waters** Property Type: Vessel Location: West Dock Authority: Environment Agency, North East Region Pollutant: Not Given Note: Tyne Tidal Incident Date: 29th September 1993 Incident Reference: 235/002126 Catchment Area: Not Given Receiving Water: Saline Estuary Cause of Incident: Oil Boat/Ship Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	739	2	435700 566795
26	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: SOUTH SHIELDS Authority: Environment Agency, North East Region Pollutant: Not Given Note: Tyne Incident Date: 7th September 1992 Incident Reference: 235/001507 Catchment Area: Not Given Receiving Water: No Pollution Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	739	2	435700 566800
27	**Pollution Incidents to Controlled Waters** Property Type: Vessel Location: S Shields Ferry Landing Authority: Environment Agency, North East Region Pollutant: Not Given Note: Tyne Estuary Incident Date: 28th February 1992 Incident Reference: 235/001126 Catchment Area: Not Given Receiving Water: Saline Estuary Cause of Incident: Oil Boat/Ship Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	787	2	435800 567200
28	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: River Tyne, Royal Keys Development Shields Authority: Environment Agency, North East Region Pollutant: Other Sewage Note: No Fish Killed Incident Date: 29th August 1995 Incident Reference: NT950184 Catchment Area: Lower Tyne Receiving Water: Saline Estuary Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	846	2	435600 566600
29	**Pollution Incidents to Controlled Waters** Property Type: Construction Location: Market Dock, SOUTH SHIELDS Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Pollution Found; No Fish Killed Incident Date: 30th April 1996 Incident Reference: NT960124 Catchment Area: Lower Tyne Receiving Water: Saline Estuary Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	848	2	435900 567395
29	**Pollution Incidents to Controlled Waters** Property Type: Construction Location: Market Dock, SOUTH SHIELDS Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Inert Suspended Solids Note: No Fish Killed Incident Date: 30th April 1996 Incident Reference: NT960124 Catchment Area: Lower Tyne Receiving Water: Saline Estuary Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	852	2	435900 567400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: SOUTH SHIELDS Authority: Environment Agency, North East Region Pollutant: Not Given Note: Tyne Estuary Incident Date: 23rd October 1992 Incident Reference: 235/001584 Catchment Area: Not Given Receiving Water: Saline Estuary Cause of Incident: Oil General Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	849	2	435800 567300
31	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Jarrow / South Shields Authority: Environment Agency, North East Region Pollutant: Not Given Note: River Tyne Incident Date: 23rd May 1992 Incident Reference: 235/001314 Catchment Area: Not Given Receiving Water: Saline Estuary Cause of Incident: Other Oil Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	867	2	435600 566500
32	**Prosecutions Relating to Authorised Processes** Location: Eldon Street, South Shield, NEWCASTLE, Tyne & Wear, NE33 5BY Prosecution Text: EA News Release 13/06/1997, Failure to ensure the proper disposal of waste from the business. Prosecution Act: EPA90 Hearing Date: 13th June 1997 Verdict: Guilty Fine: 2400 Costs: 3202 Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	750	2	435909 566188
33	**Registered Radioactive Substances** Name: Aker Mcnulty Location: Commercial Road, South Shields, SOUTH SHIELDS, Tyne And Wear, NE33 1RZ Authority: Environment Agency, North East Region Permit Reference: AZ3461 Dated: 25th July 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status:** **Authorisation either revoked or cancelled** Positional Accuracy: Unknown	A12NE (NW)	427	2	436100 567000
34	**Registered Radioactive Substances** Name: Mcnulty Offshore Construction Ltd Location: Commercial Road,South Shields, SOUTH SHIELDS, Tyne And Wear, NE33 1RZ Authority: Environment Agency, North East Region Permit Reference: CC7412 Dated: 2nd September 2008 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status:** **Application has been authorised and any conditions apply to the operator** Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	490	2	435953 566648
35	**Water Abstractions** Operator: John F Hunt Regeneration Limited Licence Number: Ne/023/0003/041 Permit Version: 1 Location: Dock 3 South Shields Authority: Environment Agency, North East Region Abstraction: Construction: Dust Suppression Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 28th July 2022 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SW (W)	768	2	435684 566573

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Unproductive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13SW (SW)	0	4	436472 566731
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Problems Unlikely	A13SW (SW)	0	4	436472 566731
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (SW)	0	4	436472 566731
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SW (SW)	0	4	436472 566731
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
36	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 1792.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Tyne Catchment Name: Tyne Primacy: 1	A17SW (NW)	893	5	435689 567227
37	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 2240.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Tyne Catchment Name: Tyne Primacy: 1	A12NW (W)	927	5	435535 566951
38	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 122.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A12NW (W)	928	5	435547 567003

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	**Historical Landfill Sites** Licence Holder: West Dock Location: Commercial Road, South Shields, Costerphine Town, Tyne & Wear Name: West Dock Operator Location: Commercial Road, South Shields, Costerphine Town, Tyne & Wear Boundary Accuracy: As Supplied Provider Reference: EAHLD35707 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 67611 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A12SW (W)	805	2	435685 566440
40	**Historical Landfill Sites** Licence Holder: Borough Of South Tyneside Location: Laygate, South Shield, Tyne and Wear Name: West Holborn Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD06264 First Input Date: 1st March 1983 Last Input Date: 31st March 1983 Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: YO1/L/BOR015 WRC Ref: 4500/0293 BGS Ref: Not Supplied Other Ref: TW 104 ST, ST 038	A12SW (W)	812	2	435677 566441
41	**Historical Landfill Sites** Licence Holder: Mowlem Northern Limited Location: Wapping Street, The Lawe, South Shield, Tyne and Wear Name: Brigham and Cowans Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD06263 First Input Date: 21st October 1986 Last Input Date: 1st December 1986 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: YO1/L/MOW001 WRC Ref: 4500/0082 BGS Ref: Not Supplied Other Ref: TW 151 ST, ST 047	A17NE (NW)	912	2	435971 567522
42	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Aker Mc Nulty Ltd Licence Number: 67611 Location: West Dock, Commercial Road, Costerphine Town, South Shields, Tyne & Wear, NE33 1RZ Licence Holder: Aker Mc Nulty Ltd Authority: Environment Agency - North East Region, North East Area Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) Max Input Rate: Not Supplied **Licence Status: Inactive** Issued: 25th July 1997 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A12SW (W)	805	2	435684 566440
43	**Licensed Waste Management Facilities (Locations)** Licence Number: 67536 Location: Oyston Street, South Shields, Tyne & Wear, NE33 1AT Operator Name: Woodward David Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Metal Recycling Sites (Mixed) **Licence Status: Surrendered** Issued: 27th April 1995 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 8th February 2002 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	427	2	436100 567000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**Licensed Waste Management Facilities (Locations)** Licence Number: 67498 Location: 111 Chichester Road, South Shields, Tyne & Wear, NE33 4HE Operator Name: Arthurs Raymond Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Metal Recycling Sites (Mixed) **Licence Status: Surrendered** Issued: 23rd February 1992 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 23rd December 1994 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NE (S)	601	2	436500 566100
45	**Licensed Waste Management Facilities (Locations)** Licence Number: 67552 Location: 3 Cone Street, South Shields, Tyne & Wear, NE33 1RE Operator Name: K J Baker & P Baker Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Metal Recycling Sites (Mixed) **Licence Status: Surrendered** Issued: 27th January 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 29th March 2006 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SE (W)	637	2	435800 566700
46	**Licensed Waste Management Facilities (Locations)** Licence Number: 0 Location: South Shields, Tyne & Wear, NE33 Operator Name: Mowlem Northern Ltd Operator Location: Saltmeadows Road, East Gateshead Ind Est, Gateshead, Tyne & Wear, NE8 3AH Authority: Environment Agency - North East Region, Northumbria Area Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) **Licence Status: Surrendered** Issued: 21st October 1986 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 31st March 1994 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	932	2	435900 567500
46	**Licensed Waste Management Facilities (Locations)** Licence Number: 64533 Location: South Shields, Tyne & Wear, NE33 Operator Name: Mowlem Northern Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) **Licence Status: Surrendered** Issued: 21st October 1986 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 31st March 1994 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	932	2	435900 567500
	Local Authority Landfill Coverage Name: South Tyneside Metropolitan Borough Council - Has no landfill data to supply		0	6	436472 566731
	Local Authority Landfill Coverage Name: North Tyneside Metropolitan District Council - Has supplied landfill data		923	7	435557 567019

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**Registered Landfill Sites** Licence Holder: South Tyneside Borough Council Licence Reference: TW 104 ST Site Location: Old Electricity Works, West Holburn, Laygate, South Shields, Tyne And Wear Licence Easting: 435650 Licence Northing: 566400 Operator Location: Town Hall, South Shields, Tyne And Wear Authority: Environment Agency - North East Region, Northumbria Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence known to be surrenderedSurrendered Dated: 23rd February 1983 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Max.Waste Permitted By Licence Rock From Clay Substratum Tyne And Wear C -Rubble Tyne And Wear Di -Coh.Inorg Tyne And Wear Dii -Coh.Inorg Tyne And Wear E -Frict.Inorg	A12SW (W)	852	2	435650 566400
48	**Registered Landfill Sites** Licence Holder: Mowlem Northern Ltd Licence Reference: TW 151 ST Site Location: Brigham & Cowan Dry Dock Yard, South Shields, Tyne And Wear Licence Easting: 435930 Licence Northing: 567600 Operator Location: Saltmeadows Road, Easr Gateshead Industrial Estate, GATESHEAD, Tyne and Wear, NE8 3AH Authority: Environment Agency - North East Region, Northumbria Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence known to be surrenderedSurrendered Dated: 21st October 1986 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Tyne And Wear, Renfrew C -Rubble * Tyne And Wear,Renfrew Di -Coh.Inorg * Tyne And Wear,Renfrew Dii -Coh.Inorg * Tyne And Wear,Renfrew E -Frict.Inorg * Prohibited Waste: Waste N.O.S	A17NE (NW)	1000	2	435930 567600
49	**Registered Waste Treatment or Disposal Sites** Licence Holder: D Woodward Licence Reference: TW 340 ST Site Location: Old Gas Yard, Oyston Street, SOUTH SHIELDS, Tyne and Wear, NE33 1AT Operator Location: 108 Hardie Drive, WEST BOLDON, Tyne and Wear, NE36 0JL Authority: Environment Agency - North East Region, Northumbria Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 27th April 1995 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Motor Vehicles & Assoc.Parts Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs)N.O.S Waste N.O.S.	A13NW (NW)	296	2	436230 566950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	**Registered Waste Treatment or Disposal Sites** Licence Holder: R Arthurs Licence Reference: TW 273 ST Site Location: Chichester Metals, 111 Chichester Road, SOUTH SHIELDS, Tyne and Wear, NE33 4HE Operator Location: 2 Dunnock Drive, Ayton, Washington, Tyne And Wear Authority: Environment Agency - North East Region, Northumbria Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence known to be surrenderedSurrendered Dated: 23rd January 1992 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Asbestos Haz.Items Normally Assoc.With Vehicles Normally Less Than Oils Petrol Scrap Metal As In S.M.Dealers Act '64 Such As Batteries Prohibited Waste: Asbestos Capac'Rs/Transformers Cont. Pcb/Pct'S Clinical Wastes Flammable Solvents Liable To Cause Environmental Hazards Liquid/Sludge Wastes Medical (Misuse Of Drugs Act) Percussive/Explosive Waste Radioactive Wastes Special Wastes	A8NE (S)	531	2	436500 566170
51	**Registered Waste Treatment or Disposal Sites** Licence Holder: K J & P Baker t/a Baker Bros Licence Reference: TW 362 ST Site Location: 3 Cone Street, SOUTH SHIELDS, Tyne and Wear, NE33 1RE Operator Location: As Site Address Authority: Environment Agency - North East Region, Northumbria Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 20th December 2000 Preceded By Licence: TW 362 ST Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Maximum Waste Permitted By Licence Metal Waste/Scrap Metal (As In Post'98 E.A.Lics And Equivalent To 23.00.00) Motor Vehicle Batteries Prohibited Waste: Degradable Household/Commercial/Industrial Waste (As In Post'98 E.A.Lics And Equivalent To 22.09.00) Inert Materials (As In Post'98 E.A.Lics And Equivalent To 21.00.00) Other Waste/Waste Not Otherwise Specified Special Waste (As In Epa 1990:S62 Of 1996 Regs) Not Otherwise Specified	A12SE (W)	538	2	435900 566680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Registered Waste Treatment or Disposal Sites				
51	Licence Holder: K J & P Baker t/a Baker Bros Licence Reference: TW 362 ST Site Location: 3 Cone Street, SOUTH SHIELDS, Tyne and Wear, NE33 1RE Operator Location: As Site Address Authority: Environment Agency - North East Region, Northumbria Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: 27th January 1994 Preceded By Licence: Not Given Superseded By Licence: TW 362 ST Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Scrap Metal As In S.M.Dealers Act'64 Prohibited Waste: Asbestos Clinical Wastes Flammable Solvents Liable To Cause Environmental Hazards Medical (Misuse Of Drugs Act '71) Percussive/Explosive/Similar Waste Poisonous, Noxious, Polluting Wastes Spec.Waste (Epa'90:S62/1996 Regs) Transf./Capacitors Assumed/Cont. Pcbs Waste N.O.S.	A12SE (W)	538	2	435900 566680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	**Control of Major Accident Hazards Sites (COMAH)** Name: Transco Plc Location: South Shields Holder Station, Oyston Street, SOUTH SHIELDS, Tyne & Wear, NE33 1AT Reference: Not Supplied Type: Lower Tier **Status: Record Ceased To Be Supplied Under COMAH Regulations** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	277	8	436309 566984
53	**Notification of Installations Handling Hazardous Substances (NIHHS)** Name: Transco. Location: Oyston Street, South Shields, Tyne & Wear, Ne33 1At **Status: Not Active** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	274	8	436316 566985
54	**Planning Hazardous Substance Consents** Name: British Gas Northern Engineering Location: Gas Holder, Oyston Street, South Shields, Tyne & Wear, Ne33 2ht Authority: South Tyneside Metropolitan Borough Council, Planning Department Application Ref: ST/SC/92/02 Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Maximum Quantity: 60 Application date: 19th October 1992 **Decision: Deemed Consent GrantedGranted** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	284	6	436303 566989
54	**Planning Hazardous Substance Consents** Name: Transco Plc Location: Gas Holder, Oyston Street, South Shields, Tyne And Wear Authority: South Tyneside Metropolitan Borough Council, Planning Department Application Ref: St/0228/01/Dm Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Maximum Quantity: 0 Application date: 14th March 2001 **Decision: Unknown at time of reportUnknown** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	285	6	436309 566994
55	**Planning Hazardous Substance Consents** Name: F Lakes & Son Location: Havelock Street, South Shields, Tyne & Wear, Ne33 5dz Authority: South Tyneside Metropolitan Borough Council, Planning Department Application Ref: St/Sc/92/04/Dm Hazardous Substance: Unknown at time of report Maximum Quantity: 25 Application date: 20th November 1992 **Decision: New application refusedRefused** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	811	6	435829 566185

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13SW (SW)	0	1	436472 566731
56	**BGS Recorded Mineral Sites** Site Name: Anderson'S Brick Field Location: South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 120995 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (W)	0	1	436440 566740
57	**BGS Recorded Mineral Sites** Site Name: Anderson'S Brick Field Location: South Shields, Co. Durham Source: British Geological Survey, National Geoscience Information Service Reference: 233616 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	17	1	436509 566751
58	**BGS Recorded Mineral Sites** Site Name: Swinburne'S Brick Field Location: South Shields, Co. Durham Source: British Geological Survey, National Geoscience Information Service Reference: 233615 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (W)	99	1	436342 566768
59	**BGS Recorded Mineral Sites** Site Name: Swinburne'S Brick Field Location: South Shields, Co. Durham Source: British Geological Survey, National Geoscience Information Service Reference: 233614 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	152	1	436316 566831
60	**BGS Recorded Mineral Sites** Site Name: Swinburne'S Brick Field Location: South Shields, Co. Durham Source: British Geological Survey, National Geoscience Information Service Reference: 233613 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	197	1	436266 566837

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	**BGS Recorded Mineral Sites** Site Name: Swinburne'S Brick Field Location: South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 120994 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	231	1	436285 566912
62	**BGS Recorded Mineral Sites** Site Name: Oyston'S Brick Field Location: South Shields, Co. Durham Source: British Geological Survey, National Geoscience Information Service Reference: 233612 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (N)	240	1	436466 567004
63	**BGS Recorded Mineral Sites** Site Name: St. Hilda Colliery Location: South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 128036 Type: Underground **Status: Ceased** Operator: Ncb Northern Division, Area No. 1 (North-East Durham) Operator Location: Not Supplied Periodic Type: Carboniferous Geology: High Main Coal (Northumberland And Durham) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NW (W)	273	1	436183 566838
64	**BGS Recorded Mineral Sites** Site Name: Oyston'S Brick Field Location: South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 120993 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (N)	279	1	436415 567035
65	**BGS Recorded Mineral Sites** Site Name: Westoe Location: Westoe, South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 95988 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grindstone Post Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NW (S)	465	1	436310 566262
66	**BGS Recorded Mineral Sites** Site Name: Ballast Hills Brick Field Location: South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 120996 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	491	1	436030 566450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	**BGS Recorded Mineral Sites** Site Name: South Shields Brick And Tile Works Location: South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 95987 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SE (N)	562	1	436589 567316
68	**BGS Recorded Mineral Sites** Site Name: Carston Quarry Location: Westoe, South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 95989 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Permian Geology: Raisby Formation (Lower Magnesian Limestone) Commodity: Dolomite Positional Accuracy: Located by supplier to within 10m	A8SE (S)	696	1	436710 566047
68	**BGS Recorded Mineral Sites** Site Name: Carston Quarry Location: Westoe, South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 232868 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Permian Geology: Raisby Formation Commodity: Dolomite Positional Accuracy: Located by supplier to within 10m	A8SE (S)	737	1	436707 566002
69	**BGS Recorded Mineral Sites** Site Name: Westoe Colliery Location: Westoe, South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 4060 Type: Underground **Status: Ceased** Operator: British Coal - North East Group Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	726	1	437222 566849
70	**BGS Recorded Mineral Sites** Site Name: Leygate Brick Field Location: High Shields, South Shields, Co. Durham Source: British Geological Survey, National Geoscience Information Service Reference: 233617 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	732	1	435901 566223
71	**BGS Recorded Mineral Sites** Site Name: High Shields Clay Pit Location: High Shields, South Shields, Co. Durham Source: British Geological Survey, National Geoscience Information Service Reference: 233618 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	806	1	435715 566367

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	**BGS Recorded Mineral Sites** Site Name: West House Location: South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 95994 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grindstone Post Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SW (S)	890	1	436355 565818
73	**BGS Recorded Mineral Sites** Site Name: St Stephen'S Brick Works Location: South Shields, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 99016 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A17NE (N)	990	1	436093 567675
74	**BGS Recorded Mineral Sites** Site Name: Westoe Colliery, Crown Shaft Location: South Shields, Co. Durham Source: British Geological Survey, National Geoscience Information Service Reference: 233611 Type: Underground **Status: Ceased** Operator: British Coal - North East Group Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A15NW (E)	997	1	437502 566790
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (SW)	0	9	436472 566731
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (SW)	0	-	436472 566731
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	436472 566731
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	436496 566737
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	436472 566731
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	45	1	436397 566760
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	53	1	436511 566808
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	162	1	436619 566602
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	231	1	436481 566995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	436472 566731
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	436472 566731
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	436472 566731
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	436496 566737
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	45	1	436397 566760
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	162	1	436619 566602
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	436472 566731
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	53	1	436511 566808
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	436472 566731
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	436472 566731

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	**Contemporary Trade Directory Entries** Name: Esso Location: CROSSGATE, SOUTH SHIELDS, NE33 5QX Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	24	-	436433 566764
76	**Contemporary Trade Directory Entries** Name: S C S Location: Crossgate, SOUTH SHIELDS, Tyne and Wear, NE33 5QX Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	30	-	436484 566794
76	**Contemporary Trade Directory Entries** Name: Town Hall Service Station Location: Town Hall Filling Station, Crossgate, South Shields, Tyne and Wear, NE33 5QX Classification: Petrol Filling Stations - 24 Hour **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NE (N)	56	-	436506 566814
76	**Contemporary Trade Directory Entries** Name: Esso Location: Town Hall Filling Station, Crossgate, South Shields, Tyne and Wear, NE33 5QX Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	66	-	436514 566822
76	**Contemporary Trade Directory Entries** Name: Esso Service Station Location: Town Hall Filling Station, Crossgate, South Shields, NE33 5QX Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	67	-	436516 566821
77	**Contemporary Trade Directory Entries** Name: Speciality Mirror Shop Location: 9, St. Hilda Street, South Shields, Tyne and Wear, NE33 1QD Classification: Mirrors & Decorative Glass **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	60	-	436435 566807
77	**Contemporary Trade Directory Entries** Name: Speciality Mirror Shop Location: 9, St. Hilda Street, South Shields, Tyne and Wear, NE33 1QD Classification: Picture & Picture Frame Renovating & Restoring **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	60	-	436435 566807
77	**Contemporary Trade Directory Entries** Name: The Clutch Centre Location: Unit 1-5, Redhead Buildings, Garden Lane, South Shields, Tyne and Wear, NE33 1PS Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	83	-	436405 566816
77	**Contemporary Trade Directory Entries** Name: Bede Furnishings Ltd Location: Unit 1/5, Redhead Buildings, Garden Lane, South Shields, Tyne and Wear, NE33 1PS Classification: Upholstery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	83	-	436405 566816
77	**Contemporary Trade Directory Entries** Name: Lawnmower & Power Tool Repair Centre Location: Unit 8, Redhead Buildings, Garden Lane, South Shields, Tyne and Wear, NE33 1PS Classification: Lawnmowers & Garden Machinery - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	83	-	436405 566816
77	**Contemporary Trade Directory Entries** Name: Ocean Laundry Services Location: Unit 6/7, Redhead Buildings, Garden Lane, South Shields, Tyne and Wear, NE33 1PS Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	83	-	436405 566816

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	**Contemporary Trade Directory Entries** Name: A C Wrought Iron Location: Unit 1-5, Redhead Buildings, Garden Lane, South Shields, Tyne and Wear, NE33 1PS Classification: Wrought Ironwork **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	83	-	436405 566816
77	**Contemporary Trade Directory Entries** Name: Town Hall Tyres Ltd Location: Unit 2, Redhead Buildings, Garden Lane, South Shields, NE33 1PS Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	84	-	436438 566837
78	**Contemporary Trade Directory Entries** Name: Bollard Load Testing Ltd Location: Unit 1, Holman Court, Henry Robson Way, South Shields, NE33 1RL Classification: Engineering Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (W)	101	-	436339 566763
78	**Contemporary Trade Directory Entries** Name: The Plastic Centre Location: Unit 4, Holman Court, Henry Robson Way, South Shields, NE33 1RL Classification: PVC-U Products - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	117	-	436320 566718
78	**Contemporary Trade Directory Entries** Name: Tool Repair Centre Location: Unit 4/6, Holman Court, Henry Robson Way, South Shields, Tyne and Wear, NE33 1RL Classification: Tool Sharpening, Repairing & Servicing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	124	-	436312 566729
79	**Contemporary Trade Directory Entries** Name: Harlow Printing Ltd Location: 7-21, Maxwell Street, South Shields, NE33 4PU Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	120	-	436354 566635
79	**Contemporary Trade Directory Entries** Name: South Tyneside Auto Electrics Location: 1 Maxwell St, South Shields, Tyne and Wear, NE33 4PU Classification: Electronic Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	161	-	436314 566620
80	**Contemporary Trade Directory Entries** Name: M A C Electronics Location: 8, Derby Terrace, South Shields, NE33 4PN Classification: Electronic Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	133	-	436605 566630
81	**Contemporary Trade Directory Entries** Name: Steve'S Auto Sprays Location: 62, Garden Lane, South Shields, Tyne and Wear, NE33 1PS Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	141	-	436402 566881
81	**Contemporary Trade Directory Entries** Name: Truewood Furniture & Joinery Ltd Location: 62, Garden Lane, South Shields, Tyne and Wear, NE33 1PS Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	141	-	436402 566881
81	**Contemporary Trade Directory Entries** Name: Rolls Location: 62, Garden Lane, South Shields, Tyne and Wear, NE33 1PS Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	141	-	436402 566881

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	**Contemporary Trade Directory Entries** Name: R Cars Location: 52-56, Garden Lane, South Shields, Tyne and Wear, NE33 1PS Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	163	-	436399 566906
82	**Contemporary Trade Directory Entries** Name: Lumire Candles Location: 138, FOWLER STREET, SOUTH SHIELDS, NE33 1PZ Classification: Candle Manufacturers & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	141	-	436547 566888
83	**Contemporary Trade Directory Entries** Name: Pressit Location: Unit 306,Tedco Business Works,Henry Robson Way, South Shields, Tyne and Wear, NE33 1RF Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NW (W)	145	-	436296 566772
84	**Contemporary Trade Directory Entries** Name: Mydentist Westoe Road South Shields Location: 16-22 Westoe Road,16-22 Westoe Road, South Shields, Tyne And Wear, NE33 4LZ Classification: Hospitals **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	149	-	436635 566642
84	**Contemporary Trade Directory Entries** Name: N Print & Design Local Location: 41, Westoe Road, South Shields, Tyne and Wear, NE33 4LU Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	186	-	436673 566635
85	**Contemporary Trade Directory Entries** Name: Ironing Maids Location: 26 Westoe Rd, South Shields, Tyne and Wear, NE33 4LZ Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	152	-	436629 566629
85	**Contemporary Trade Directory Entries** Name: Websitesandprint.Com Location: 26, Westoe Road, South Shields, NE33 4LZ Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	159	-	436640 566632
85	**Contemporary Trade Directory Entries** Name: Hi-Spec Location: 34, Westoe Road, South Shields, NE33 4NA Classification: Window Frames - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	182	-	436649 566605
85	**Contemporary Trade Directory Entries** Name: Fires & Stoves Location: 45, Westoe Road, South Shields, NE33 4LU Classification: Woodburning Stoves **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	184	-	436667 566628
85	**Contemporary Trade Directory Entries** Name: The Gas Trade Centre Ltd Location: 48-50, Westoe Road, South Shields, NE33 4NA Classification: Gas Companies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	198	-	436655 566587
85	**Contemporary Trade Directory Entries** Name: Heat Uk Location: 48-50, Westoe Road, South Shields, NE33 4NA Classification: Gas Companies **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	198	-	436655 566587

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	**Contemporary Trade Directory Entries** Name: D D'S Print Shop Location: 64, Westoe Road, South Shields, Tyne and Wear, NE33 4NA Classification: T-Shirts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	233	-	436661 566544
86	**Contemporary Trade Directory Entries** Name: Euro Hire & Sales Ltd Location: Maxwell St, South Shields, Tyne and Wear, NE33 4PU Classification: Corrosion Prevention & Control **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	164	-	436352 566576
86	**Contemporary Trade Directory Entries** Name: N P S Services Location: 14, Maxwell Street, South Shields, Tyne and Wear, NE33 4PU Classification: Wrought Ironwork **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	166	-	436334 566589
86	**Contemporary Trade Directory Entries** Name: Toney Minchella Location: 18-20, Maxwell Street, South Shields, NE33 4PU Classification: Ice Cream Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	183	-	436339 566562
86	**Contemporary Trade Directory Entries** Name: M A P Engineering (Ne) Ltd Location: Maxwell St, South Shields, Tyne & Wear, NE33 4PU Classification: Mechanical Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	202	-	436336 566540
87	**Contemporary Trade Directory Entries** Name: Wickes South Shields Location: Station Road, South Shields, NE33 1RD Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (W)	168	-	436268 566723
88	**Contemporary Trade Directory Entries** Name: Multimedia Installations Location: Tedco Business Works,Henry Robson Way, South Shields, Tyne And Wear, NE33 1RF Classification: Cinema Equipment **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	184	-	436272 566820
88	**Contemporary Trade Directory Entries** Name: Levant Office Interiors Location: Unit 320 South Tedco Business Works,Henry Robson Way, South Shields, Tyne And Wear, NE33 1RF Classification: Office Furniture & Equipment **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	191	-	436266 566825
88	**Contemporary Trade Directory Entries** Name: Maxiflo Technologies Ltd Location: Unit 208,Tedco Business Works,Henry Robson Way, South Shields, Tyne and Wear, NE33 1RF Classification: Hydraulic Systems & Equipment Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	221	-	436246 566850
88	**Contemporary Trade Directory Entries** Name: Safesol Location: Unit 206, South Shields Business Works, Henry Robson Way, South Shields, NE33 1RF Classification: Chemicals - Distributors & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	222	-	436246 566852
88	**Contemporary Trade Directory Entries** Name: B-Able Ltd Location: Unit 201,Tedco Business Works,Henry Robson Way, South Shields, Tyne And Wear, NE33 1RF Classification: Disability Equipment - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	222	-	436246 566852

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	**Contemporary Trade Directory Entries** Name: The Heating Efficiency Showroom Location: 108-110, Fowler Street, South Shields, Tyne and Wear, NE33 1PZ Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	194	-	436528 566953
89	**Contemporary Trade Directory Entries** Name: The Fireplace Centre Location: 106, Fowler Street, South Shields, Tyne and Wear, NE33 1PZ Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	198	-	436523 566957
89	**Contemporary Trade Directory Entries** Name: Frame Clean Location: 100-102, Fowler Street, South Shields, Tyne and Wear, NE33 1PD Classification: Cleaning Services - Commercial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	222	-	436517 566983
89	**Contemporary Trade Directory Entries** Name: Fireplace Centre Location: 100-102, Fowler Street, South Shields, Tyne and Wear, NE33 1PD Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	222	-	436517 566983
90	**Contemporary Trade Directory Entries** Name: Leighton Motors Location: 14, Franklin Street, South Shields, NE33 1PR Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (N)	204	-	436413 566957
90	**Contemporary Trade Directory Entries** Name: Dean Printing Works Location: 11, Franklin Street, South Shields, Tyne and Wear, NE33 1PR Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	210	-	436444 566971
90	**Contemporary Trade Directory Entries** Name: Vts Location: 12, Franklin Street, South Shields, Tyne and Wear, NE33 1PR Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	215	-	436408 566967
90	**Contemporary Trade Directory Entries** Name: Eddie Burke Motor Bodies Location: 5, Franklin Street, South Shields, Tyne and Wear, NE33 1PR Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (N)	237	-	436436 566997
90	**Contemporary Trade Directory Entries** Name: Motoreay Services Location: 8, Franklin Street, South Shields, Tyne and Wear, NE33 1PR Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	240	-	436407 566993
91	**Contemporary Trade Directory Entries** Name: Tyneside Tyre Services Location: 28, Maxwell Street, South Shields, NE33 4PU Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	208	-	436340 566530
91	**Contemporary Trade Directory Entries** Name: Performance Cars Location: 29-35, Maxwell Street, South Shields, Tyne and Wear, NE33 4PU Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	209	-	436371 566513
91	**Contemporary Trade Directory Entries** Name: Maxwell Street Motors Location: 32-36, Maxwell Street, South Shields, NE33 4PU Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	242	-	436341 566490

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	**Contemporary Trade Directory Entries** Name: C M C Location: 1, Forest Road, South Shields, Tyne and Wear, NE33 1PT Classification: Photocopiers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	212	-	436320 566914
93	**Contemporary Trade Directory Entries** Name: Century Hose Location: 7, Beach Road, South Shields, NE33 2QA Classification: Hose, Tubing & Fittings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	216	-	436608 566939
93	**Contemporary Trade Directory Entries** Name: Newlife Cleaning Systems North Ltd Location: 7, Beach Road, South Shields, Tyne and Wear, NE33 2QA Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	216	-	436608 566939
93	**Contemporary Trade Directory Entries** Name: Orchid Games Studios Location: 7 Beach Rd, South Shields, Tyne and Wear, NE33 2QA Classification: Toys, Games & Sporting Goods - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	216	-	436608 566939
93	**Contemporary Trade Directory Entries** Name: At Your Service Location: 7, Beach Road, South Shields, Tyne and Wear, NE33 2QA Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	216	-	436608 566939
93	**Contemporary Trade Directory Entries** Name: South Shields Printing Location: 13, Beach Road, South Shields, Tyne and Wear, NE33 2QA Classification: Printers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	237	-	436628 566950
93	**Contemporary Trade Directory Entries** Name: Dentures Direct Location: 17a, Beach Road, South Shields, Tyne and Wear, NE33 2QA Classification: Medical & Dental Laboratories **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	249	-	436641 566955
94	**Contemporary Trade Directory Entries** Name: J W Rae Location: Unit A, Western Approach, South Shields, Tyne and Wear, NE33 5QU Classification: Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	220	-	436300 566548
94	**Contemporary Trade Directory Entries** Name: Metalpoint Ltd Location: Unit D-e, Western Approach, South Shields, Tyne and Wear, NE33 5NN Classification: Nuts, Bolts & Fixings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	251	-	436285 566519
94	**Contemporary Trade Directory Entries** Name: Arndale Engineering Location: D-E, Unit, Western Approach, South Shields, Tyne and Wear, NE33 5NN Classification: Nuts, Bolts & Fixings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	251	-	436285 566519
95	**Contemporary Trade Directory Entries** Name: Ats Euromaster Ltd Location: Western Approach, South Shields, Tyne and Wear, NE33 5QU Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	221	-	436274 566572
96	**Contemporary Trade Directory Entries** Name: Vechicle Diagnostics Location: 4 Forest Rd, South Shields, Tyne and Wear, NE33 1PT Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	226	-	436355 566952

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	**Contemporary Trade Directory Entries** Name: Colourclear Ltd Location: 3-4, Forest Road, South Shields, Tyne and Wear, NE33 1PT Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	227	-	436356 566953
96	**Contemporary Trade Directory Entries** Name: Colourclear Location: 3-4 Forest Rd, South Shields, Tyne and Wear, NE33 1PT Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	228	-	436338 566944
97	**Contemporary Trade Directory Entries** Name: Home Style Location: Fowler St, South Shields, Tyne And Wear, NE33 1NU Classification: Cookers - Sales & Service **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13NE (N)	246	-	436558 566998
98	**Contemporary Trade Directory Entries** Name: Frank Lake & Sons Ltd Location: 86, Fowler Street, South Shields, Tyne and Wear, NE33 1PD Classification: Hardware **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	259	-	436512 567022
98	**Contemporary Trade Directory Entries** Name: Re-Design 4 U Location: 84-86, Fowler Street, South Shields, Tyne and Wear, NE33 1PD Classification: Recycling Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	259	-	436512 567022
98	**Contemporary Trade Directory Entries** Name: Super Tech International Location: 80-82, Fowler Street, South Shields, Tyne and Wear, NE33 1PD Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (N)	274	-	436508 567037
98	**Contemporary Trade Directory Entries** Name: Flair Blinds Location: 85, Fowler Street, South Shields, Tyne and Wear, NE33 1NT Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	279	-	436547 567036
99	**Contemporary Trade Directory Entries** Name: Henderson Motors Location: Maxwell St, South Shields, Tyne and Wear, NE33 4PU Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	260	-	436354 566464
99	**Contemporary Trade Directory Entries** Name: Carmeleon Concepts Location: 39, Maxwell Street, South Shields, NE33 4PU Classification: Car Customisation & Conversion Specialists **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (S)	261	-	436375 566455
99	**Contemporary Trade Directory Entries** Name: Gary Tuck Workshops Ltd Location: 38, Maxwell Street, South Shields, NE33 4PU Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	269	-	436341 566460
99	**Contemporary Trade Directory Entries** Name: G & N'S Location: Maxwell St, South Shields, Tyne & Wear, NE33 4PU Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	270	-	436354 566454
99	**Contemporary Trade Directory Entries** Name: Beacon Safety Showers Location: Beacon House,Maxwell St, South Shields, Tyne and Wear, NE33 4PU Classification: Glass Fibre Moulding, Materials & Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (S)	277	-	436355 566446

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	**Contemporary Trade Directory Entries** Name: Screwfix South Shields Location: Unit G, Western Approach, SOUTH SHIELDS, Tyne and Wear, NE33 5QU Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	288	-	436299 566462
99	**Contemporary Trade Directory Entries** Name: C V N Print Location: 42, Maxwell Street, South Shields, Tyne and Wear, NE33 4PU Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	295	-	436331 566436
99	**Contemporary Trade Directory Entries** Name: Lees Premier Cleaning Ltd Location: 43, Maxwell Street, South Shields, NE33 4PU Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (S)	298	-	436365 566419
99	**Contemporary Trade Directory Entries** Name: Lees Premier Cleaning Location: 43 Maxwell st, South Shields, Tyne And Wear, NE33 4PU Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SW (S)	300	-	436364 566418
99	**Contemporary Trade Directory Entries** Name: S M H Products Location: 29-35, Maxwell Street, South Shields, Tyne and Wear, NE33 4PU Classification: Hygiene & Cleansing Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	315	-	436327 566416
100	**Contemporary Trade Directory Entries** Name: Crown Location: Crown House, Western Approach, South Shields, NE33 5QU Classification: PVC-U Products - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	263	-	436221 566576
100	**Contemporary Trade Directory Entries** Name: Travis Perkins Plc Location: Unit 1, Western Approach Trade Park, Western Approach, South Shields, NE33 5QY Classification: Builders' Merchants **Status: Active** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	294	-	436201 566550
100	**Contemporary Trade Directory Entries** Name: Toolstation Ltd Location: Unit 3, Western Approach Trade Park, Western Approach, South Shields, NE33 5QY Classification: Hardware **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	319	-	436195 566516
100	**Contemporary Trade Directory Entries** Name: Toolstation Ltd Location: Unit 3, Western Approach Trade Park, Western Approach, South Shields, NE33 5QY Classification: Hardware **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	319	-	436195 566516
101	**Contemporary Trade Directory Entries** Name: 3d Location: 51, Newmarket Walk, South Shields, Tyne and Wear, NE33 4NP Classification: Breakdown and Recovery **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	267	-	436564 566449
102	**Contemporary Trade Directory Entries** Name: Snug Fit Doors & Windows Location: 2-6 Franklin St, South Shields, Tyne and Wear, NE33 1PR Classification: Window Frames - Sales & Service **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NW (N)	267	-	436404 567020

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	**Contemporary Trade Directory Entries** Name: The Window Fitter Warehouse Location: 2-8, Franklin Street, South Shields, Tyne and Wear, NE33 1PR Classification: Window Frames - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	267	-	436404 567020
103	**Contemporary Trade Directory Entries** Name: Motor Vehicle Solutions Location: 1, Robinson Street, South Shields, NE33 4PR Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	277	-	436684 566506
103	**Contemporary Trade Directory Entries** Name: Gordon Briggs Location: Domestic Appliance Centre, 87, Westoe Road, South Shields, Tyne and Wear, NE33 4LX Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	295	-	436721 566516
103	**Contemporary Trade Directory Entries** Name: Kazway Location: 84, WESTOE ROAD, SOUTH SHIELDS, NE33 4NA Classification: Hardware **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	306	-	436694 566477
103	**Contemporary Trade Directory Entries** Name: Metcalfe'S Home Decor Location: 101, Westoe Road, South Shields, NE33 4LX Classification: Wallpapers & Wall Coverings **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	318	-	436724 566487
104	**Contemporary Trade Directory Entries** Name: Bizzy (Uk) Location: 129, Victoria Road, South Shields, Tyne and Wear, NE33 4LP Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	284	-	436506 566419
104	**Contemporary Trade Directory Entries** Name: Bizzy Location: 129, Victoria Road, South Shields, Tyne and Wear, NE33 4LP Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	284	-	436506 566419
105	**Contemporary Trade Directory Entries** Name: D Woodward Location: Car Dismantlers, Oyston Street, South Shields, Tyne and Wear, NE33 1AT Classification: Scrap Metal Merchants **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (NW)	287	-	436236 566943
106	**Contemporary Trade Directory Entries** Name: G W Foreman Location: Unit 2, St. Hilda Industrial Estate, Station Road, South Shields, Tyne and Wear, NE33 1RA Classification: Metal Workers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (W)	298	-	436144 566795
106	**Contemporary Trade Directory Entries** Name: Wizz Print Location: Unit 5, St. Hilda Industrial Estate, Station Road, South Shields, Tyne and Wear, NE33 1RA Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	314	-	436132 566815
106	**Contemporary Trade Directory Entries** Name: Eternal Flame Location: Unit 7, St. Hilda Industrial Estate, Station Road, SOUTH SHIELDS, Tyne and Wear, NE33 1RA Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	329	-	436120 566829

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	**Contemporary Trade Directory Entries** Name: Washington Patterns Ltd Location: Unit 8, St. Hilda Industrial Estate, Station Road, South Shields, Tyne and Wear, NE33 1RA Classification: Wood Products, Except Furniture - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	340	-	436112 566841
107	**Contemporary Trade Directory Entries** Name: Sutherlands Location: Coronation St, South Shields, Tyne & Wear, NE33 1AZ Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	316	-	436296 567022
108	**Contemporary Trade Directory Entries** Name: Photo-Fast Location: 64, Fowler Street, South Shields, Tyne and Wear, NE33 1PG Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	326	-	436485 567091
108	**Contemporary Trade Directory Entries** Name: Photo Fast Location: 64, Fowler Street, South Shields, Tyne and Wear, NE33 1PG Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	326	-	436485 567091
109	**Contemporary Trade Directory Entries** Name: North Eastern Distribution Location: Western Approach, South Shields, Tyne and Wear, NE33 5QZ Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	355	-	436184 566472
110	**Contemporary Trade Directory Entries** Name: John Carey Motor Services Location: 8, William Street, South Shields, NE33 1PQ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	360	-	436396 567114
111	**Contemporary Trade Directory Entries** Name: Klick Location: 50, Fowler Street, South Shields, Tyne and Wear, NE33 1PG Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	366	-	436483 567131
111	**Contemporary Trade Directory Entries** Name: The Jewellery Repair Centre Location: 44, Fowler Street, South Shields, Tyne and Wear, NE33 1PG Classification: Jewellery Manufacturers & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	379	-	436477 567143
112	**Contemporary Trade Directory Entries** Name: Tandem Beck Location: Amne Buildings,Tudor Rd, South Shields, Tyne and Wear, NE33 5RD Classification: Textile Manufacturing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	371	-	436100 566570
112	**Contemporary Trade Directory Entries** Name: Automotive Maintenance Co Location: Unit 2, Amna Buildings, Tudor Road, South Shields, NE33 4PQ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	371	-	436100 566570
113	**Contemporary Trade Directory Entries** Name: Harkers M O T Location: Tudor Road, SOUTH SHIELDS, Tyne and Wear, NE33 4PQ Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	372	-	436128 566519

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	**Contemporary Trade Directory Entries** Name: Tyneside Car Sales Ltd Location: Tudor Road, South Shields, Tyne and Wear, NE33 5RD Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	386	-	436126 566496
113	**Contemporary Trade Directory Entries** Name: Tyneside Car Sales Location: Tudor Road, South Shields, Tyne and Wear, NE33 5RD Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	386	-	436126 566496
113	**Contemporary Trade Directory Entries** Name: Tudor Road Garage Location: Tudor Rd, South Shields, Tyne & Wear, NE33 4PQ Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12SE (SW)	401	-	436092 566522
114	**Contemporary Trade Directory Entries** Name: Motortune Location: Rear Of, 35, Beach Road, South Shields, Tyne and Wear, NE33 2QU Classification: Car Engine Tuning & Diagnostic Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	377	-	436740 567037
115	**Contemporary Trade Directory Entries** Name: Halfords Autocentre South Shields Location: SECRETAN WAY, SOUTH SHIELDS, NE33 1RB Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	405	-	436039 566816
115	**Contemporary Trade Directory Entries** Name: Aa Service Centre Location: Station Road, South Shields, Tyne and Wear, NE33 1ED Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	406	-	436038 566814
116	**Contemporary Trade Directory Entries** Name: Steward Site Engineering Ltd Location: 28, Frost Mews, South Shields, Tyne and Wear, NE33 4AL Classification: Agricultural Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	434	-	436463 566267
117	**Contemporary Trade Directory Entries** Name: Warm Protection Ltd Location: 51, Beach Road, South Shields, Tyne and Wear, NE33 2QU Classification: Roller Shutter Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	437	-	436811 567050
117	**Contemporary Trade Directory Entries** Name: Warm Protection Location: 51, Beach Road, South Shields, Tyne and Wear, NE33 2QU Classification: Roller Shutter Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	437	-	436811 567050
117	**Contemporary Trade Directory Entries** Name: L A Autos Location: South Shields, NE33 2QU Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	467	-	436821 567084
118	**Contemporary Trade Directory Entries** Name: Johnson Cleaners (Uk) Ltd Location: 17, Denmark Centre, South Shields, Tyne and Wear, NE33 2LR Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	443	-	436487 567207
119	**Contemporary Trade Directory Entries** Name: The Laundrette Location: 81, Broughton Road, South Shields, Tyne and Wear, NE33 2RR Classification: Laundries & Launderettes **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	450	-	436877 566977

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	**Contemporary Trade Directory Entries** Name: Northern Energy Solutions Location: 6, Waterloo Vale, South Shields, NE33 1BS Classification: Electricity Generating & Distributing Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	476	-	436226 567166
120	**Contemporary Trade Directory Entries** Name: Currys Location: 87, King Street, South Shields, Tyne and Wear, NE33 1DP Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	494	-	436197 567170
121	**Contemporary Trade Directory Entries** Name: Westoe Electricals Location: 1, Madeira Terrace, South Shields, Tyne and Wear, NE33 3AQ Classification: Electrical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	476	-	436816 566358
122	**Contemporary Trade Directory Entries** Name: Eclipse Technology Uk Ltd Location: 27, Smithy Street, South Shields, Tyne and Wear, NE33 1BT Classification: Computer Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	478	-	436364 567228
122	**Contemporary Trade Directory Entries** Name: Klick Photopoint Location: 24, King Street, South Shields, Tyne and Wear, NE33 1HT Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	518	-	436346 567264
122	**Contemporary Trade Directory Entries** Name: Klick Location: 24, King Street, South Shields, Tyne and Wear, NE33 1HT Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	518	-	436346 567264
123	**Contemporary Trade Directory Entries** Name: Decorflair Location: 39-41, King Street, South Shields, Tyne and Wear, NE33 1DA Classification: Wallpapers & Wall Coverings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	481	-	436312 567214
124	**Contemporary Trade Directory Entries** Name: Decorative Shades 2 Location: 14, New Green Street, SOUTH SHIELDS, Tyne and Wear, NE33 5DL Classification: Painting & Decorating Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (SW)	481	-	436168 566318
125	**Contemporary Trade Directory Entries** Name: Malac Trading Ltd Location: Commercial Rd, South Shields, Tyne and Wear, NE33 1RP Classification: Marine Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	485	-	435956 566656
125	**Contemporary Trade Directory Entries** Name: Riverview Cars Location: 1a The Foundry, Commercial Road, South Shields, Tyne And Wear, NE33 5TE Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	501	-	435944 566633
126	**Contemporary Trade Directory Entries** Name: Homefair Blinds Uk Ltd Location: 4, Fowler Street, South Shields, Tyne and Wear, NE33 1NF Classification: Blinds, Awnings & Canopies **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (N)	489	-	436417 567249

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	**Contemporary Trade Directory Entries** Name: Supasnaps Location: 2, Denmark Centre, South Shields, Tyne and Wear, NE33 2LR Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	497	-	436450 567261
127	**Contemporary Trade Directory Entries** Name: Mill Dam Garage Location: 133 Mill Dam, South Shields, Tyne And Wear, NE33 1EQ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	501	-	435935 566742
128	**Contemporary Trade Directory Entries** Name: Currys Digital Location: 111, King Street, South Shields, Tyne and Wear, NE33 1DP Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	503	-	436134 567140
128	**Contemporary Trade Directory Entries** Name: M I Dickson Ltd Location: 107, King Street, South Shields, Tyne and Wear, NE33 1DP Classification: Meat Product Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	540	-	436128 567181
128	**Contemporary Trade Directory Entries** Name: Brighthouse Location: 116, King Street, South Shields, NE33 1JE Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	549	-	436093 567166
129	**Contemporary Trade Directory Entries** Name: Carabao Location: Commercial Road, South Shields, Tyne and Wear, NE33 1RQ Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	504	-	435968 566541
130	**Contemporary Trade Directory Entries** Name: Merry Maids Location: 130, Westoe Road, South Shields, NE33 3PF Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	532	-	436809 566282
130	**Contemporary Trade Directory Entries** Name: Merry Maids Location: 130, Westoe Road, South Shields, Tyne and Wear, NE33 3PF Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	534	-	436807 566278
130	**Contemporary Trade Directory Entries** Name: Servicemaster Contract Services Location: 130, Westoe Road, South Shields, Tyne and Wear, NE33 3PF Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	534	-	436807 566278
131	**Contemporary Trade Directory Entries** Name: Osbrown Engineering Services Ltd Location: 21, Osborne Avenue, South Shields, Tyne and Wear, NE33 3DQ Classification: Mechanical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	544	-	436969 566431
132	**Contemporary Trade Directory Entries** Name: Tyne Slipway & Engineering Location: Commercial Rd, South Shields, Tyne and Wear, NE33 1RP Classification: Ship Builders, Repairs & Fittings **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12SE (W)	559	-	435880 566675
132	**Contemporary Trade Directory Entries** Name: Falcon Engineering Location: 4, Cone Street, South Shields, Tyne and Wear, NE33 1RE Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	567	-	435876 566639

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	**Contemporary Trade Directory Entries** Name: C K Property Services Location: Moorgate House, 5, Mile End Road, South Shields, NE33 1TA Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (N)	560	-	436374 567314
133	**Contemporary Trade Directory Entries** Name: C K Cleaning Uk Location: Moorgate House, 5, Mile End Road, South Shields, NE33 1TA Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (N)	560	-	436374 567314
134	**Contemporary Trade Directory Entries** Name: Stans Auto Services Location: Commercial Road, South Shields, NE33 1RQ Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	563	-	435925 566492
134	**Contemporary Trade Directory Entries** Name: Trinity Motors Location: A, 140, Commercial Road, South Shields, Tyne and Wear, NE33 1RQ Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	575	-	435899 566523
134	**Contemporary Trade Directory Entries** Name: Stan'S Car Sales Location: A, 140, Commercial Road, South Shields, Tyne and Wear, NE33 1RQ Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	575	-	435899 566523
134	**Contemporary Trade Directory Entries** Name: J R Selby Engineering Ltd Location: Commercial Road, South Shields, Tyne and Wear, NE33 1RQ Classification: Sheet Metal Work **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	578	-	435913 566481
134	**Contemporary Trade Directory Entries** Name: J R Selby Coachworks Ltd Location: Commercial Road, South Shields, Tyne and Wear, NE33 1RQ Classification: Commercial Vehicle Bodybuilders & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	579	-	435913 566481
135	**Contemporary Trade Directory Entries** Name: Bizzy Uk Cleaning Services Location: 146 Westoe Rd, South Shields, Tyne & Wear, NE33 3PH Classification: Cleaning Services - Commercial **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	585	-	436836 566236
136	**Contemporary Trade Directory Entries** Name: Flagg Court Dental Practice Location: FLAGG COURT, SOUTH SHIELDS, NE33 2LS Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	597	-	436687 567324
137	**Contemporary Trade Directory Entries** Name: Community Design & Print Location: 9-13, Frederick Street, South Shields, Tyne and Wear, NE33 5DY Classification: Photocopiers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	615	-	436123 566186
137	**Contemporary Trade Directory Entries** Name: Buyproducts Location: 17, Frederick Street, South Shields, Tyne and Wear, NE33 5DY Classification: Hardware **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	642	-	436117 566159
138	**Contemporary Trade Directory Entries** Name: C J Print Location: Riverside Ho,Commercial Rd, South Shields, Tyne & Wear, NE33 1RW Classification: Printers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	625	-	435862 566480

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	**Contemporary Trade Directory Entries** Name: Aquila Systems Location: Aquila House, 283, Laygate, SOUTH SHIELDS, Tyne and Wear, NE33 4QN Classification: Computer Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NW (S)	629	-	436333 566086
140	**Contemporary Trade Directory Entries** Name: Kwik Fit - South Shields Location: 132, Laygate, South Shields, Tyne and Wear, NE33 4JD Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NW (S)	647	-	436262 566087
141	**Contemporary Trade Directory Entries** Name: I T C Location: Nile Street, South Shields, Tyne and Wear, NE33 1RH Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	657	-	435798 566575
141	**Contemporary Trade Directory Entries** Name: Blades Location: Unit 8, 12, Nile Street, South Shields, Tyne and Wear, NE33 1RH Classification: Tool Sharpening, Repairing & Servicing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	659	-	435801 566551
141	**Contemporary Trade Directory Entries** Name: Bm Screen Location: Unit 8, 12, Nile Street, South Shields, Tyne and Wear, NE33 1RH Classification: Screen Process Printers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12SE (W)	659	-	435801 566551
142	**Contemporary Trade Directory Entries** Name: Intertank Services Location: 16, Mowbray Road, South Shields, Tyne and Wear, NE33 3AU Classification: Tank Cleaning & Repairing **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	677	-	437038 566299
143	**Contemporary Trade Directory Entries** Name: Timber Line (Diy) Ltd Location: 38, Frederick Street, South Shields, Tyne and Wear, NE33 5EA Classification: Fencing Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	690	-	436070 566132
144	**Contemporary Trade Directory Entries** Name: Tyne Auto Location: Hill Street, South Shields, Tyne and Wear, NE33 1RN Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	690	-	435811 566436
144	**Contemporary Trade Directory Entries** Name: Jennings Of South Shields Location: Commercial Road, South Shields, Tyne and Wear, NE33 1RW Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (SW)	716	-	435790 566421
145	**Contemporary Trade Directory Entries** Name: Charles W Taylor & Son Ltd Location: 30 Hill St, South Shields, Tyne & Wear, NE33 1RN Classification: Foundries **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	700	-	435781 566480
145	**Contemporary Trade Directory Entries** Name: Baps Location: Hill Street, South Shields, Tyne and Wear, NE33 1RN Classification: Packaging & Wrapping Equipment & Supplies **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A12SW (W)	707	-	435763 566512
145	**Contemporary Trade Directory Entries** Name: Cammell Laird Location: Hill St, South Shields, Tyne & Wear, NE33 1RN Classification: Ship Builders, Repairs & Fittings **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	712	-	435765 566490

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	**Contemporary Trade Directory Entries** Name: Peterson Printers Location: 12, Laygate, South Shields, Tyne and Wear, NE33 5RP Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	701	-	435883 566293
147	**Contemporary Trade Directory Entries** Name: 1st Call Cleaning Services Location: Westoe Rd, South Shields, Tyne and Wear, NE33 3PW Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	707	-	436931 566154
148	**Contemporary Trade Directory Entries** Name: Plastic Cladding Centre Location: 45, Frederick Street, South Shields, NE33 5DY Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	717	-	436097 566083
149	**Contemporary Trade Directory Entries** Name: Garage & Recovery Location: 6, Laygate, South Shields, Tyne and Wear, NE33 1SH Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	724	-	435835 566323
149	**Contemporary Trade Directory Entries** Name: Mvh Motors Location: 6, Laygate, South Shields, Tyne and Wear, NE33 1SH Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	724	-	435835 566323
149	**Contemporary Trade Directory Entries** Name: D M Auto Services Location: 6, Laygate, South Shields, Tyne and Wear, NE33 1SH Classification: Mechanical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	724	-	435835 566323
149	**Contemporary Trade Directory Entries** Name: Premier Motor Co Location: 6, Laygate, South Shields, Tyne and Wear, NE33 1SH Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	724	-	435835 566323
149	**Contemporary Trade Directory Entries** Name: John Nicol Fabrications Location: 4, Laygate, South Shields, Tyne and Wear, NE33 1SH Classification: Metal Products - Fabricated **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	728	-	435829 566325
150	**Contemporary Trade Directory Entries** Name: The Direct Group Ltd Location: 7, Broad Landing, South Shields, Tyne and Wear, NE33 1JL Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	734	-	435997 567326
151	**Contemporary Trade Directory Entries** Name: Tilone Subsea Uk Ltd Location: Unit G.19, One Trinity Green, Eldon Street, South Shields, NE33 1SA Classification: Oil & Gas Exploration Supplies & Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	748	-	435882 566220
151	**Contemporary Trade Directory Entries** Name: Armstrong Priestley Location: UNIT 2.26, ONE TRINITY GREEN, ELDON STREET, SOUTH SHIELDS, NE33 1SA Classification: Firefighting Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	748	-	435882 566220

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	**Contemporary Trade Directory Entries** Name: Domestic Appliance Repairs Location: 29, Seaview Terrace, SOUTH SHIELDS, Tyne and Wear, NE33 2NW Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	751	-	437042 567263
152	**Contemporary Trade Directory Entries** Name: Domestic Appliance Repairs Location: 29, Seaview Terrace, South Shields, NE33 2NW Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	753	-	437043 567264
153	**Contemporary Trade Directory Entries** Name: Fresh As Daisy'S Location: 87, St. Vincent Street, South Shields, NE33 3AS Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	771	-	437175 566334
154	**Contemporary Trade Directory Entries** Name: Newcoats Location: 77, Frederick Street, South Shields, Tyne and Wear, NE33 5ED Classification: Plaster Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	778	-	436097 566013
154	**Contemporary Trade Directory Entries** Name: New Coates Location: 77 Frederick St, South Shields, Tyne and Wear, NE33 5ED Classification: Plaster Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	784	-	436087 566012
154	**Contemporary Trade Directory Entries** Name: The Creations Workshop Location: 89, Frederick Street, SOUTH SHIELDS, Tyne and Wear, NE33 5ED Classification: Wrought Ironwork **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	799	-	436092 565992
155	**Contemporary Trade Directory Entries** Name: Dean Clean Location: 174, Dean Road, South Shields, Tyne and Wear, NE33 4AQ Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	788	-	436539 565916
155	**Contemporary Trade Directory Entries** Name: Country Apparel Location: 172, Dean Road, South Shields, NE33 4AQ Classification: Clothing & Fabrics - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	795	-	436549 565910
156	**Contemporary Trade Directory Entries** Name: T W Holdsworth Location: 134, Dean Road, South Shields, Tyne and Wear, NE33 4AP Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	789	-	436662 565935
156	**Contemporary Trade Directory Entries** Name: Laundrymat Laundriy Location: 126, Dean Road, South Shields, Tyne and Wear, NE33 4AW Classification: Laundries & Launderettes **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	793	-	436674 565934
157	**Contemporary Trade Directory Entries** Name: Soapsuds Location: 147-151, Coston Drive, South Shields, Tyne and Wear, NE33 2DU Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	789	-	436593 567545

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	**Contemporary Trade Directory Entries** Name: Scrap Cars Vans Caravans Buyer Location: Eldon House, Rekendyke Industrial Estate, South Shields, Tyne and Wear, NE33 5BZ Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	793	-	435877 566159
159	**Contemporary Trade Directory Entries** Name: Jadnet Designs Location: 26, Roman Road, South Shields, Tyne and Wear, NE33 2HA Classification: T-Shirts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	793	-	436783 567498
160	**Contemporary Trade Directory Entries** Name: Mydentist Dean Road South Shields Location: South Shields, Tyne And Wear, Ne33 4ar Classification: Hospitals **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	821	-	436751 565929
161	**Contemporary Trade Directory Entries** Name: Abc Motor Co Location: 14-16, Dean Road, South Shields, Tyne and Wear, NE33 3PT Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	851	-	436992 566020
161	**Contemporary Trade Directory Entries** Name: Picture This Location: 14-16, Dean Road, South Shields, Tyne and Wear, NE33 3PT Classification: Printers Textile **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	851	-	436992 566020
162	**Contemporary Trade Directory Entries** Name: E C F Composites Location: East Coast Fibreglass Supplies Ltd, West Walpole Street, South Shields, NE33 5BY Classification: Glass Fibre Moulding, Materials & Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	858	-	435841 566103
162	**Contemporary Trade Directory Entries** Name: Hedley (Engineering Services) Ltd Location: Havelock Street, South Shields, Tyne and Wear, NE33 5DZ Classification: Engineers - General **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	863	-	435816 566122
162	**Contemporary Trade Directory Entries** Name: Eldon Street Factory The Location: Eldon Street, South Shields, Tyne and Wear, NE33 5BU Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	863	-	435816 566122
162	**Contemporary Trade Directory Entries** Name: Circatex Location: Eldon Street, South Shields, Tyne and Wear, NE33 5BU Classification: Printed Circuit Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	863	-	435816 566122
162	**Contemporary Trade Directory Entries** Name: Simply Food Solutions Location: Eldon Street, South Shields, Tyne and Wear, NE33 5BU Classification: Food Products - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	863	-	435816 566122
162	**Contemporary Trade Directory Entries** Name: E C F Composites Location: West Walpole Street, South Shields, Tyne and Wear, NE33 5BY Classification: Glass Fibre Moulding, Materials & Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	864	-	435842 566094

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	**Contemporary Trade Directory Entries** Name: Hi Spec Location: West Walpole St, South Shields, Tyne And Wear, NE33 5BY Classification: Mould Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	883	-	435830 566079
162	**Contemporary Trade Directory Entries** Name: C-Tech North East Location: Unit 2, Rekendyke Industrial Estate, South Shields, Tyne and Wear, NE33 5BZ Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	884	-	435802 566107
163	**Contemporary Trade Directory Entries** Name: General Laboratory Services Location: Unit 1b, Rekendyke Industrial Estate, South Shields, Tyne and Wear, NE33 5BZ Classification: Sheet Metal Work **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	875	-	435887 566038
164	**Contemporary Trade Directory Entries** Name: Marias Location: 76, Dacre Street, South Shields, Tyne and Wear, NE33 5QB Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	883	-	436329 565828
165	**Contemporary Trade Directory Entries** Name: Lister Mouldings Ltd Location: Rekendyke Industrial Estate, South Shields, Tyne and Wear, NE33 5BZ Classification: Plastics - Injection Moulding **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	928	-	435810 566035
165	**Contemporary Trade Directory Entries** Name: Dinamic Enterprise Location: Rekendyke Ind Est, South Shields, Tyne And Wear, NE33 5BZ Classification: Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	941	-	435824 566005
165	**Contemporary Trade Directory Entries** Name: W Bertram & Sons Ltd Location: Rekendyke Industrial Estate, South Shields, Tyne And Wear, NE33 5BZ Classification: Tank Cleaning & Repairing **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	941	-	435824 566005
165	**Contemporary Trade Directory Entries** Name: Ians Auto Repairs Location: Unit 10b, Rekendyke Industrial Estate, South Shields, NE33 5BZ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	949	-	435812 566005
165	**Contemporary Trade Directory Entries** Name: Colin Sinclair Motors Location: Unit 10d, Rekendyke Industrial Estate, South Shields, NE33 5BZ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	949	-	435812 566005
165	**Contemporary Trade Directory Entries** Name: Daves Car Care Centre Location: Unit 10c, Rekendyke Industrial Estate, South Shields, NE33 5BZ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	949	-	435812 566005
165	**Contemporary Trade Directory Entries** Name: Ian'S Location: Unit 10B, Rekendyke Industrial Estate, South Shields, Tyne and Wear, NE33 5BZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	952	-	435809 566004

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	**Contemporary Trade Directory Entries** Name: Mike Jermy Motors Location: Unit 10A, Rekendyke Industrial Estate, South Shields, Tyne and Wear, NE33 5BZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	957	-	435802 566004
165	**Contemporary Trade Directory Entries** Name: Warm Protection Ltd Location: Unit 11d Rekendyke Industrial Estate, South Shields, Tyne And Wear, NE33 5BZ Classification: Roller Shutter Manufacturers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A7SE (SW)	970	-	435816 565974
165	**Contemporary Trade Directory Entries** Name: Box Clever Location: Unit 11A,Rekendyke Ind Est, South Shields, Tyne and Wear, NE33 5BZ Classification: Boxes & Cartons **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A7SE (SW)	973	-	435822 565964
165	**Contemporary Trade Directory Entries** Name: T M B Electronics Location: Unit 11f, Rekendyke Industrial Estate, South Shields, Tyne and Wear, NE33 5BZ Classification: Electronic Component Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	980	-	435814 565962
166	**Contemporary Trade Directory Entries** Name: Canterbury Motors Location: 16, HARTINGTON TERRACE, SOUTH SHIELDS, NE33 4DF Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	932	-	436773 565819
167	**Contemporary Trade Directory Entries** Name: Select Car Centre N E Ltd Location: Commercial Road, South Shields, NE33 1RW Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	942	-	435657 566198
168	**Contemporary Trade Directory Entries** Name: Susan Hawes Design Location: 26, Lawe Road, South Shields, Tyne and Wear, NE33 2EX Classification: Wallpapers & Wall Coverings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	946	-	436848 567636
169	**Contemporary Trade Directory Entries** Name: Stagecoach Location: Dean Road, South Shields, Tyne and Wear, NE33 4HZ Classification: Bus & Coach Operators & Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	952	-	436350 565756
169	**Contemporary Trade Directory Entries** Name: Stagecoach Location: Dean Road, South Shields, Tyne and Wear, NE33 4HZ Classification: Bus & Coach Operators & Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	952	-	436350 565756
170	**Contemporary Trade Directory Entries** Name: Tyne & Wear Access Location: Plot C Portberry Way, South Shields, Tyne and Wear, NE33 1SB Classification: Scaffolding & Work Platforms **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NW (SW)	953	-	435690 566132
170	**Contemporary Trade Directory Entries** Name: Ford & Vauxhall Spares Location: Portberry St, South Shields, Tyne & Wear, NE33 1QX Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NW (SW)	990	-	435666 566102

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	**Contemporary Trade Directory Entries** Name: Sutherlands Tyres Location: Unit A, Portberry Street, South Shields, Tyne and Wear, NE33 1QX Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	993	-	435689 566070
170	**Contemporary Trade Directory Entries** Name: Architectural Entrance Systems Location: Unit 41, Portberry Street, SOUTH SHIELDS, Tyne and Wear, NE33 1QX Classification: Machine Shops **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	995	-	435647 566119
170	**Contemporary Trade Directory Entries** Name: D & T Autospray Location: Unit 1, Portberry Street, South Shields, NE33 1QX Classification: Car Painters & Sprayers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	1000	-	435651 566106
171	**Fuel Station Entries** Name: Rss Town Hall Location: Cross Gate , , South Shields, Tyne And Wear, NE33 5QX Brand: Esso Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	55	-	436508 566812
172	**Fuel Station Entries** Name: Asda South Shields Automat Location: Coronation Street , , South Shields, Tyne And Wear, NE33 1AZ Brand: Asda Premises Type: Hypermarket **Status: Open** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	276	-	436265 566954
173	**Fuel Station Entries** Name: Garden Lane Service Station Location: Garden Lane , , South Shields, Tyne And Wear, NE33 1PS Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	316	-	436297 567023

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
174	**World Heritage Sites** Name: Frontiers of the Roman Empire (Hadrian's Wall) Reference: 1000098 Area(m²): 449252785.96 Source: Historic England Designation Date: 1st January 1987	A18SE (N)	590	11	436571 567347

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Environment Agency - Head Office	June 2020	Annually
City of Newcastle upon Tyne Council - Environmental Health Department	November 2017	Annual Rolling Update
Sunderland City Metropolitan Borough Council - Environmental Health Department	October 2017	Annually
North Tyneside Metropolitan Borough Council - Environmental Health Department	September 2017	Annual Rolling Update
South Tyneside Metropolitan Borough Council - Neighbourhood Services	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - North East Region	April 2023	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North East Region	March 2013	
Integrated Pollution Controls		
Environment Agency - North East Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - North East Region	January 2023	Quarterly
Local Authority Integrated Pollution Prevention And Control		
North Tyneside Metropolitan Borough Council - Environmental Health Department	April 2014	Variable
City of Newcastle upon Tyne Council - Environmental Health Department	January 2015	Variable
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2016	Variable
South Tyneside Metropolitan Borough Council - Environmental Health Department	September 2012	Variable
Local Authority Pollution Prevention and Controls		
North Tyneside Metropolitan Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
City of Newcastle upon Tyne Council - Environmental Health Department	January 2015	Not Applicable
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2016	Annual Rolling Update
South Tyneside Metropolitan Borough Council - Environmental Health Department	September 2012	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
North Tyneside Metropolitan Borough Council - Environmental Health Department	April 2014	Variable
City of Newcastle upon Tyne Council - Environmental Health Department	January 2015	Variable
Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2016	Variable
South Tyneside Metropolitan Borough Council - Environmental Health Department	September 2012	Variable
Nearest Surface Water Feature		
Ordnance Survey	April 2023	
Pollution Incidents to Controlled Waters		
Environment Agency - North East Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - North East Region	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - North East Region	March 2013	
Registered Radioactive Substances		
Environment Agency - North East Region	June 2016	As notified
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register		
Environment Agency - North East Region - North East Area	April 2023	Quarterly
Environment Agency - North East Region - Northumbria Area	April 2023	Quarterly
Water Abstractions		
Environment Agency - North East Region	April 2023	Quarterly
Water Industry Act Referrals		
Environment Agency - North East Region	October 2017	

Data Currency

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2023	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2023	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2023	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	April 2023	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Environment Agency - Head Office	March 2023	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - North East Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - North East Region - North East Area	January 2023	Quarterly
Environment Agency - North East Region - Northumbria Area	January 2023	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region - North East Area	January 2023	Quarterly
Environment Agency - North East Region - Northumbria Area	January 2023	Quarterly
Local Authority Landfill Coverage		
City of Newcastle upon Tyne Council - Environmental Health Department	February 2003	Not Applicable
North Tyneside Metropolitan Borough Council - Environmental Health Department	February 2003	Not Applicable
South Tyneside Metropolitan Borough Council - Planning Department	February 2003	Not Applicable
Sunderland City Metropolitan Borough Council - Environmental Health Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
City of Newcastle upon Tyne Council - Environmental Health Department	October 2018	
North Tyneside Metropolitan Borough Council - Environmental Health Department	October 2018	
South Tyneside Metropolitan Borough Council - Planning Department	October 2018	
Sunderland City Metropolitan Borough Council - Environmental Health Department	October 2018	
Registered Landfill Sites		
Environment Agency - North East Region - North East Area	March 2006	Not Applicable
Environment Agency - North East Region - Northumbria Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North East Region - North East Area	April 2018	
Environment Agency - North East Region - Northumbria Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency - North East Region - North East Area	June 2015	
Environment Agency - North East Region - Northumbria Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
North Tyneside Metropolitan Borough Council - Development Function	February 2016	Variable
City of Newcastle upon Tyne Council	June 2023	Variable
South Tyneside Metropolitan Borough Council - Planning Department	June 2023	Variable
Sunderland City Metropolitan Borough Council - Planning	June 2023	Variable
Planning Hazardous Substance Consents		
City of Newcastle upon Tyne Council	February 2016	Variable
North Tyneside Metropolitan Borough Council - Development Function	February 2016	Variable
South Tyneside Metropolitan Borough Council - Planning Department	February 2016	Variable
Sunderland City Metropolitan Borough Council - Planning	February 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2023	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	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	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	April 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	June 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Underground Electrical Cables National Grid	February 2023	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	April 2023	Bi-Annually
Areas of Adopted Green Belt		
City of Newcastle upon Tyne Council	July 2022	Quarterly
North Tyneside Metropolitan Borough Council	July 2022	Quarterly
South Tyneside Metropolitan Borough Council - Planning Department	July 2022	Quarterly
Sunderland City Metropolitan Borough Council - Planning	July 2022	Quarterly
Areas of Unadopted Green Belt		
City of Newcastle upon Tyne Council	July 2022	Quarterly
North Tyneside Metropolitan Borough Council	July 2022	Quarterly
South Tyneside Metropolitan Borough Council - Planning Department	July 2022	Quarterly
Sunderland City Metropolitan Borough Council - Planning	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	April 2023	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Natural England	March 2023	Bi-Annually
Marine Nature Reserves		
Natural England	April 2023	Bi-Annually
National Nature Reserves		
Natural England	February 2023	Bi-Annually
National Parks		
Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas		
Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	
Environment Agency - Head Office	March 2023	Bi-Annually
Ramsar Sites		
Natural England	March 2023	Bi-Annually
Sites of Special Scientific Interest		
Natural England	March 2023	Bi-Annually
Special Areas of Conservation		
Natural England	April 2023	Bi-Annually
Special Protection Areas		
Natural England	April 2023	Bi-Annually
World Heritage Sites		
Historic England	April 2023	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**South Tyneside Metropolitan Borough Council - Environmental Health Department** Central Library Building, Prince George Square, South Shields, Tyne And Wear, NE33 2PE	Telephone: 0191 427 1717 Fax: 0191 427 7171 Website: www.s-tyneside-mbc.gov.uk
4	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**South Tyneside Metropolitan Borough Council - Planning Department** Town Hall & Civic Offices, Westoe Road, South Shields, Tyne & Wear, NE33 2RL	Telephone: 0191 427 1717 Fax: 0191 427 7171 Website: www.s-tyneside-mbc.gov.uk
7	**North Tyneside Metropolitan Borough Council - Environmental Health Department** D1 Quadrant 1L, Quadrant East, Silverlink North,, Cobalt Business Park, North Tyneside, North Shields, NE27 0BY	Telephone: 0345 2000 101 Email: contact.us@northtyneside.gov.uk Website: www.northtyneside.gov.uk
8	**Health and Safety Executive** 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
9	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
10	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
11	**Historic England** 1 Waterhouse Square, 138 - 142 Holborn, London, EC1N 2ST	Telephone: 0370 333 0607 Email: customers@historicengland.org.uk Website: www.historicengland.org.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

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

1:10,000 Raster Mapping

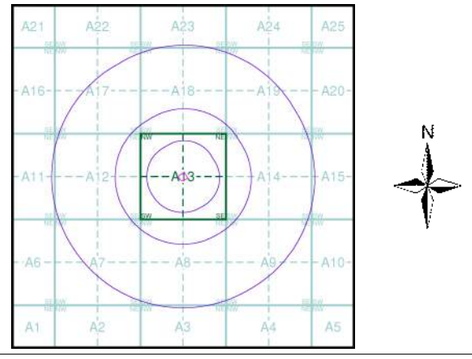
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or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

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Durham	1:10,560	1862	2
Northumberland	1:10,560	1864 - 1865	3
Durham	1:10,560	1898	4
Northumberland	1:10,560	1899	5
Durham	1:10,560	1921	6
Durham	1:10,560	1938	7
Ordnance Survey Plan	1:10,000	1952	8
Ordnance Survey Plan	1:10,000	1967	9
Ordnance Survey Plan	1:10,000	1976	10
Ordnance Survey Plan	1:10,000	1986	11
Ordnance Survey Plan	1:10,000	1993	12
10K Raster Mapping	1:10,000	2000	13
Street View	Variable		14

Historical Map - Slice A



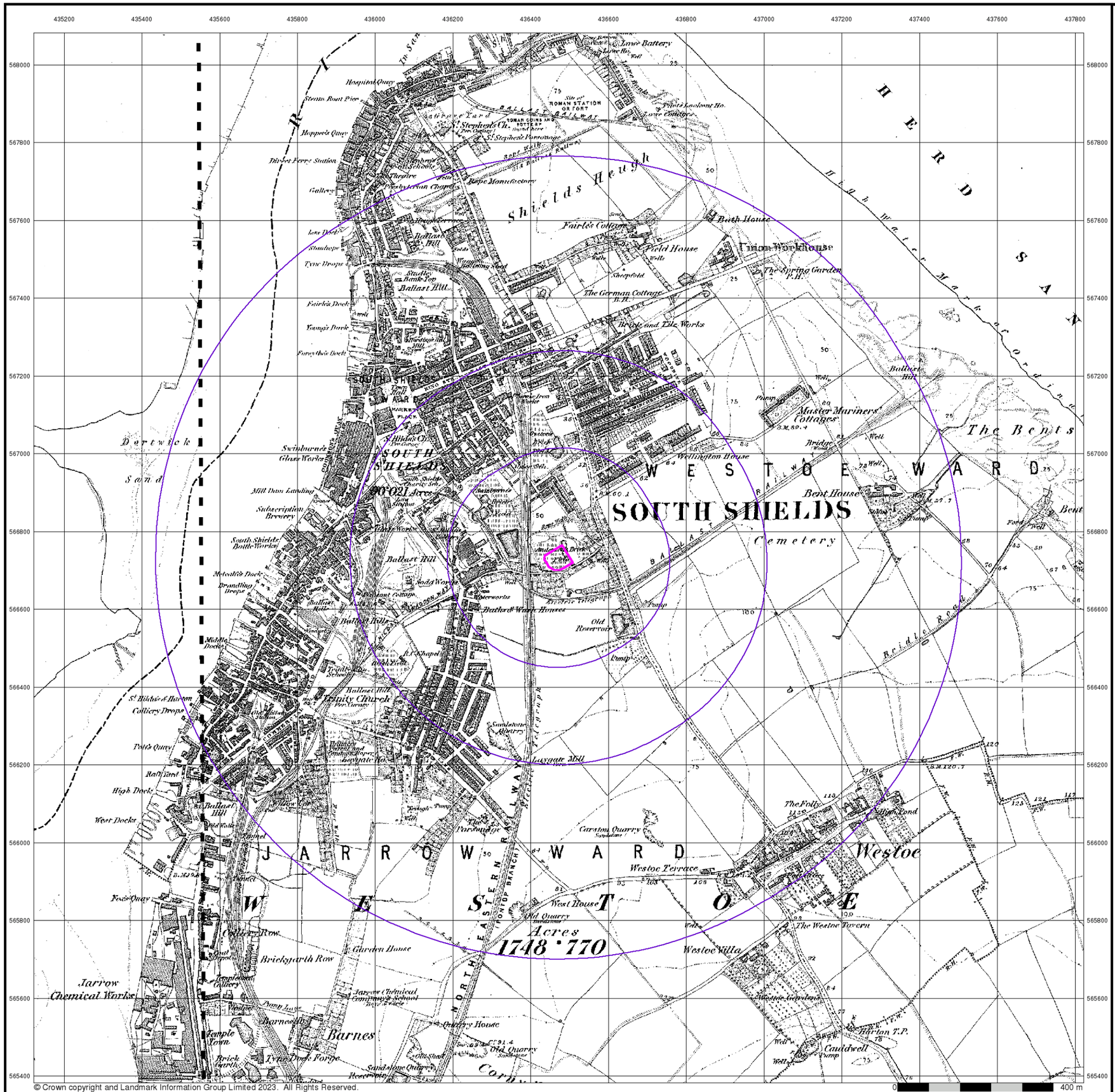
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Customer Ref: G23017
National Grid Reference: 436470, 566730
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

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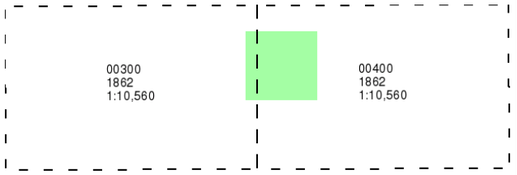
Durham

Published 1862

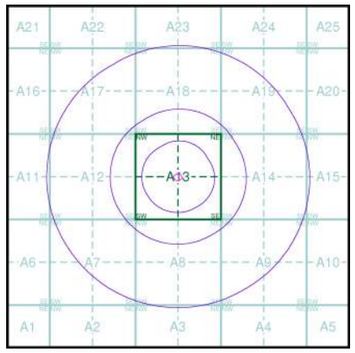
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

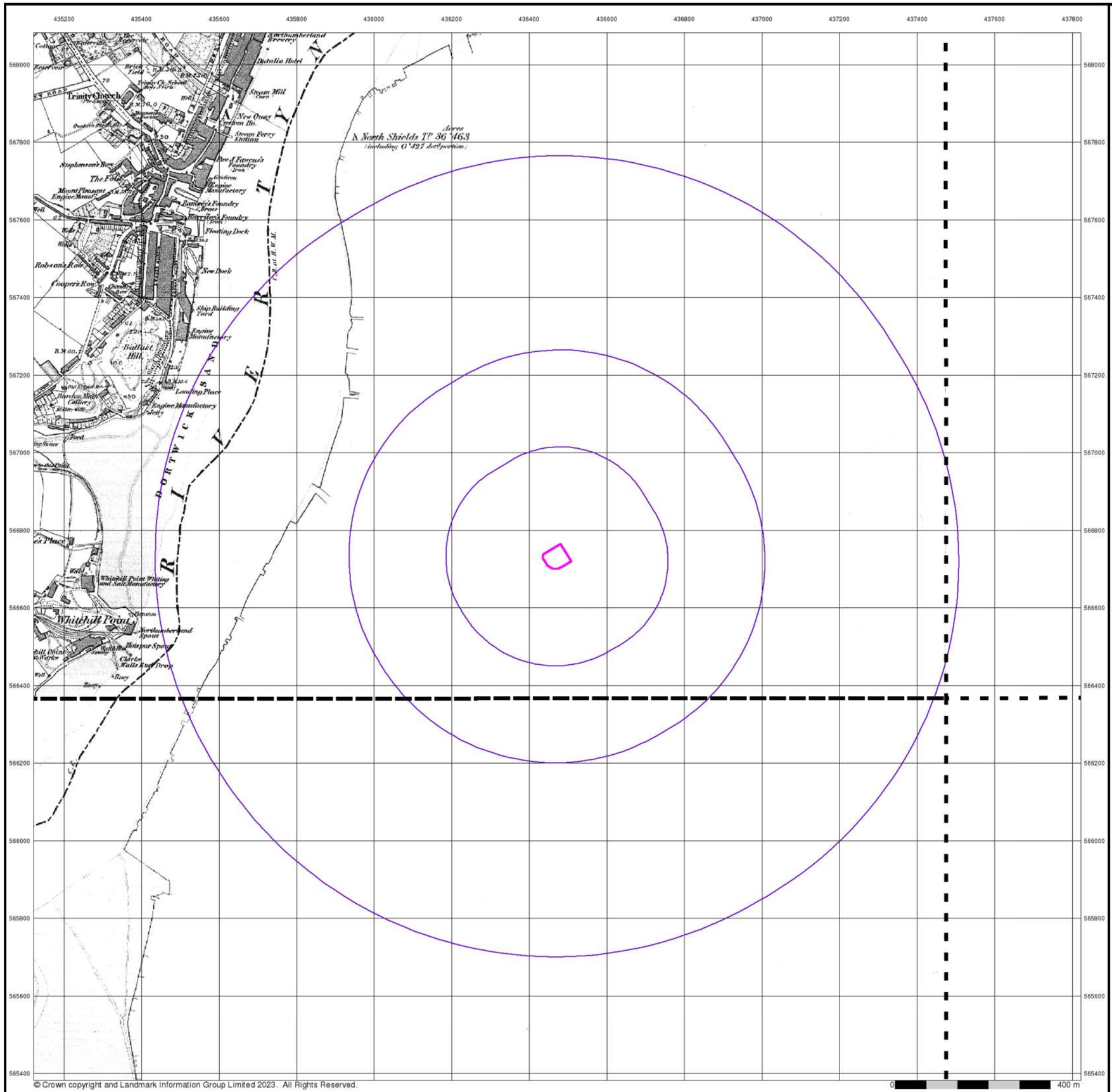
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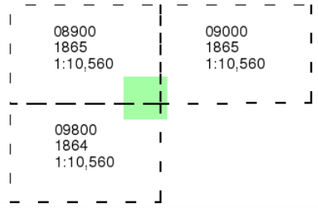
Northumberland

Published 1864 - 1865

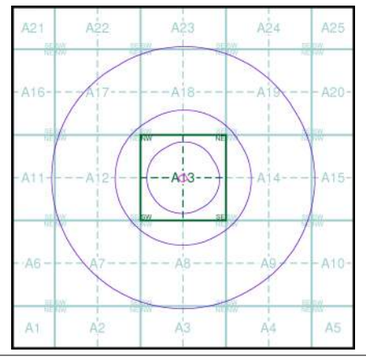
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Map Name(s) and Date(s)



Historical Map - Slice A



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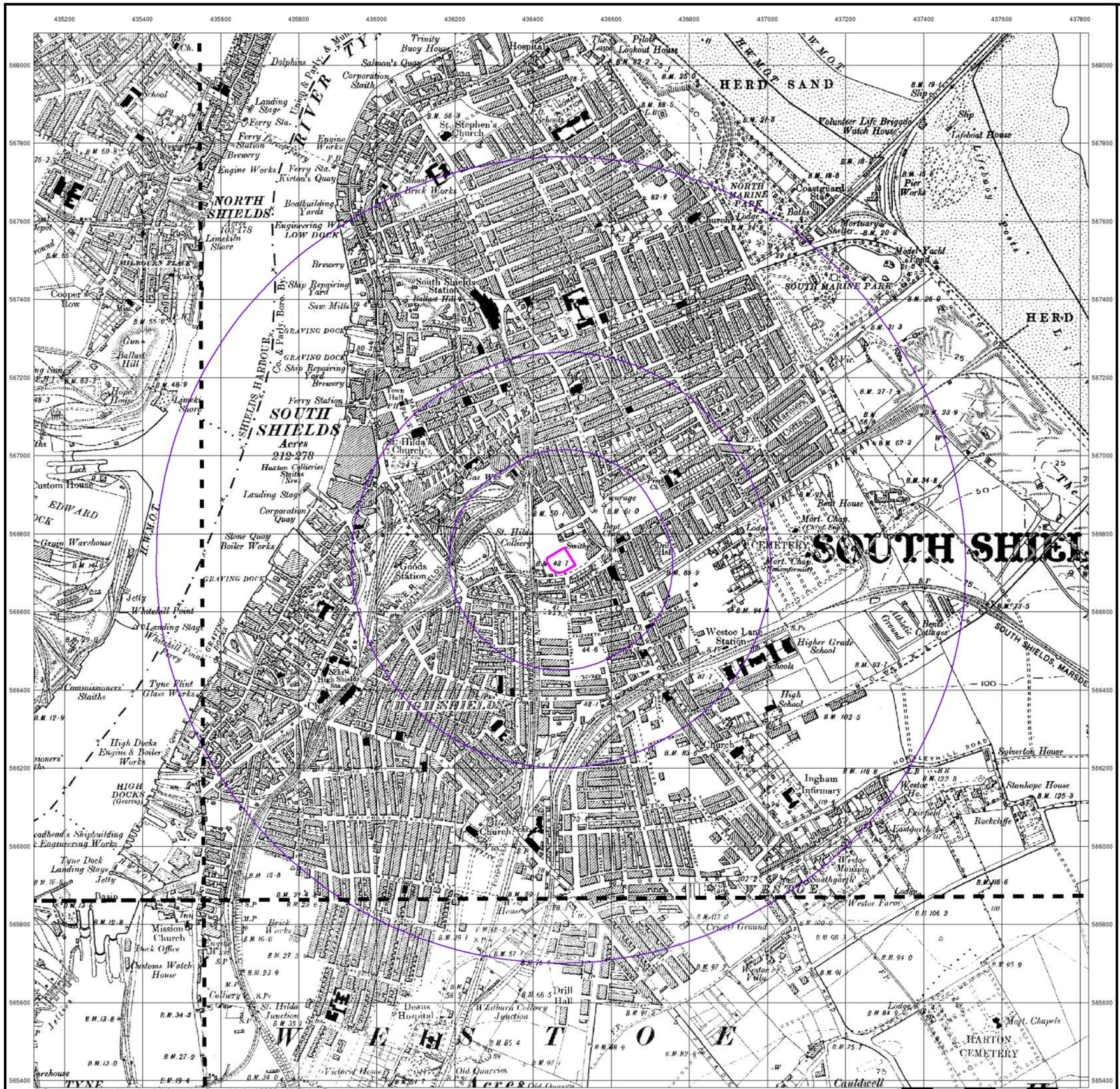
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Site Area (Ha):	0.29
Search Buffer (m):	1000

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Durham

Published 1898

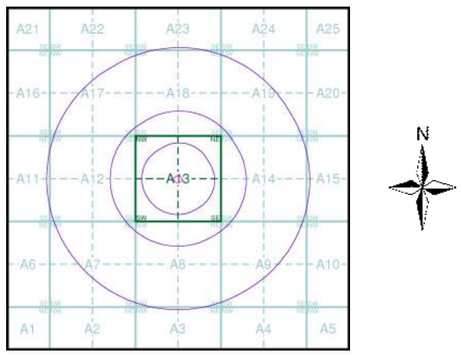
Source map scale - 1:10,560

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Map Name(s) and Date(s)

003NE 1898 1:10,560	004NW 1898 1:10,560
003SE 1898 1:10,560	004SW 1898 1:10,560

Historical Map - Slice A



Order Details

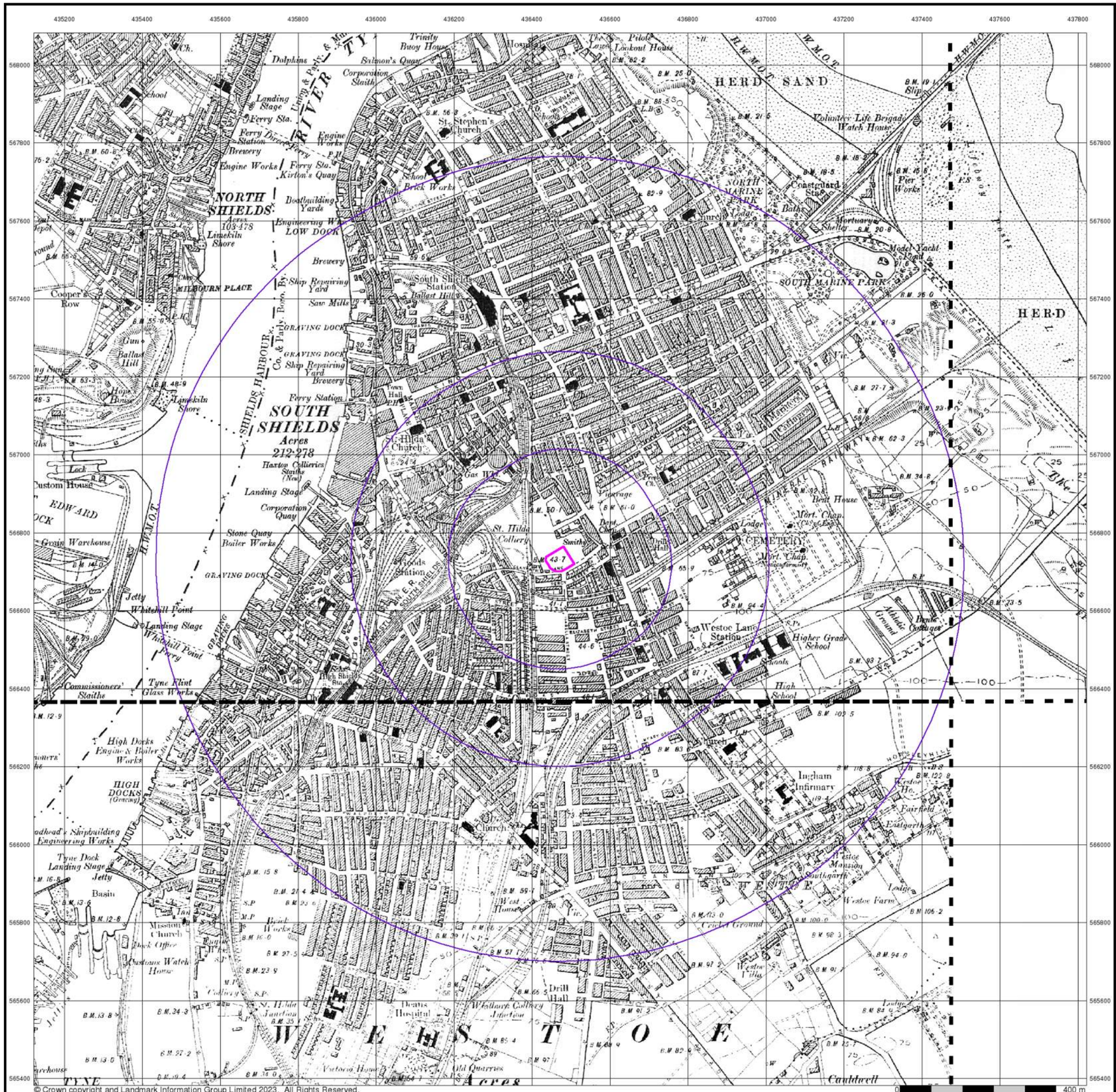
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Search Buffer (m):	1000

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Northumberland

Published 1899

Source map scale - 1:10,560

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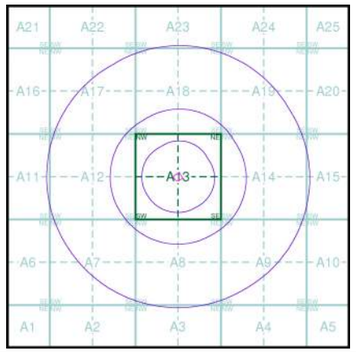
Map Name(s) and Date(s)

089SE
1899
1:10,560

090SW
1899
1:10,560

098NE
1899
1:10,560

Historical Map - Slice A



Order Details

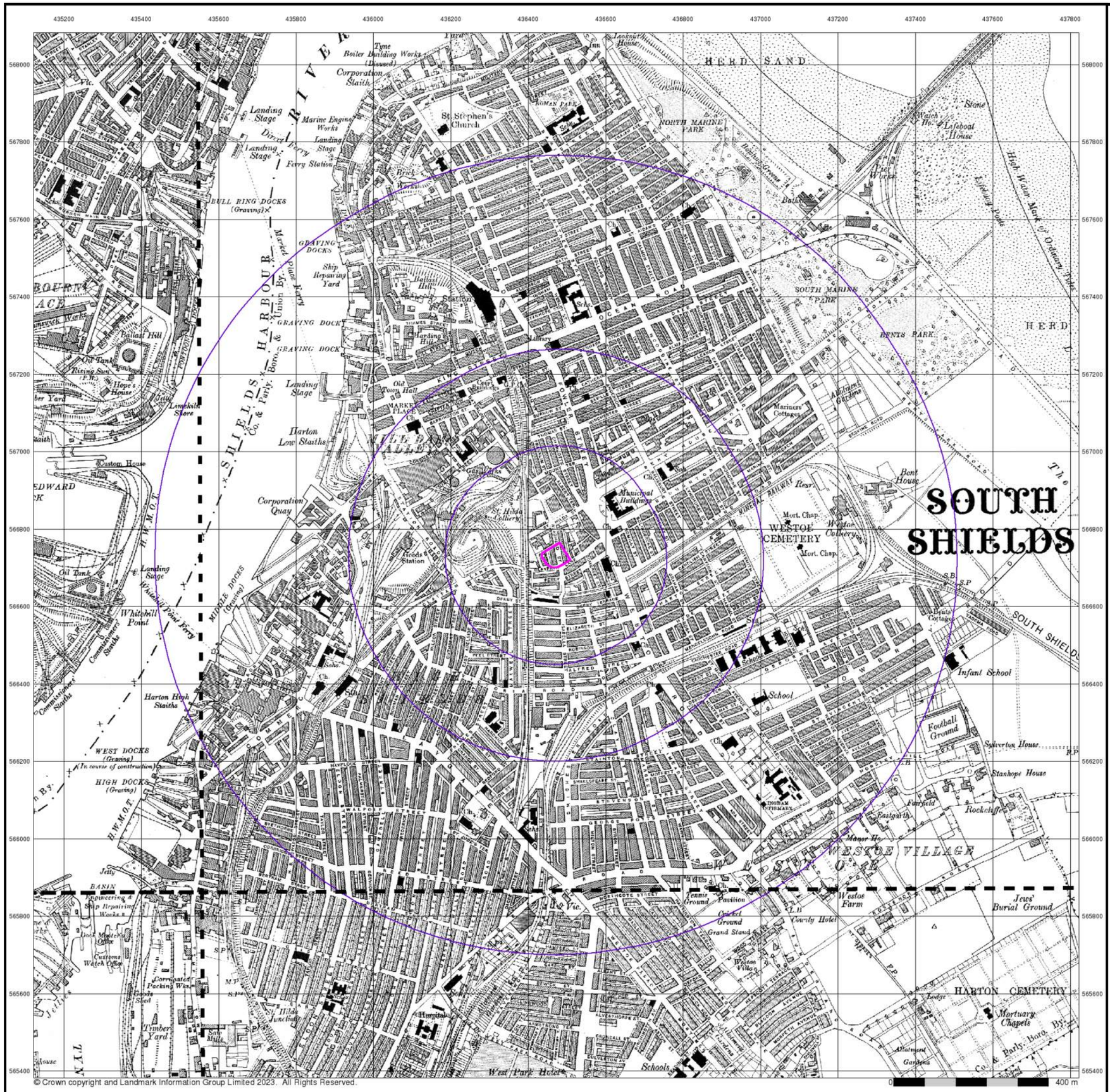
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Slice:	A
Site Area (Ha):	0.29
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Durham

Published 1921

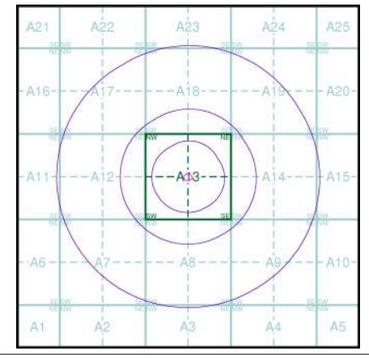
Source map scale - 1:10,560

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Map Name(s) and Date(s)

003NE 1921 1:10,560	004NW 1921 1:10,560
003SE 1921 1:10,560	004SW 1921 1:10,560

Historical Map - Slice A



Order Details

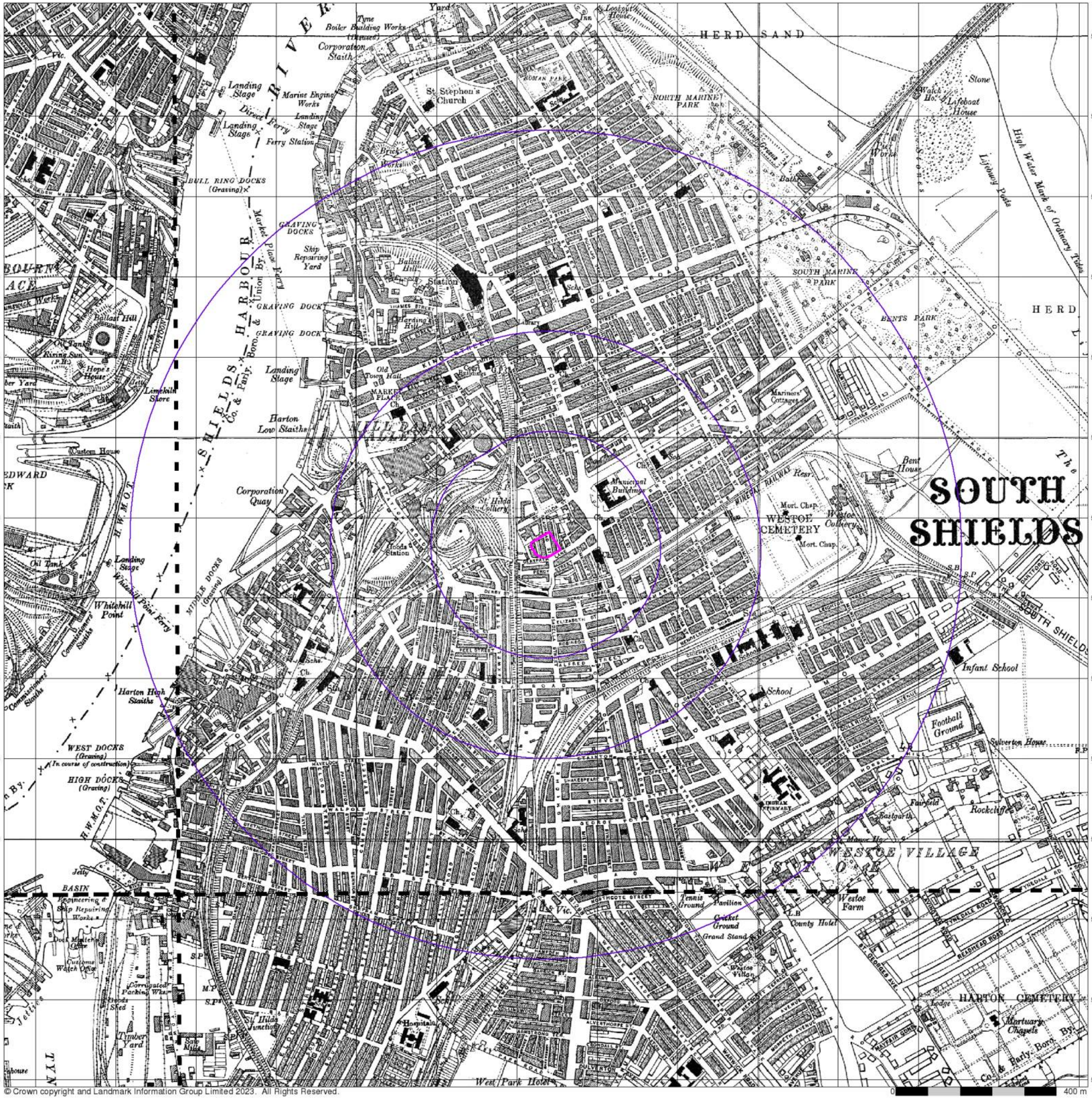
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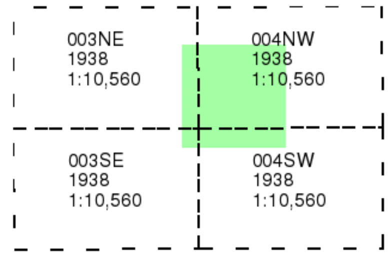
Durham

Published 1938

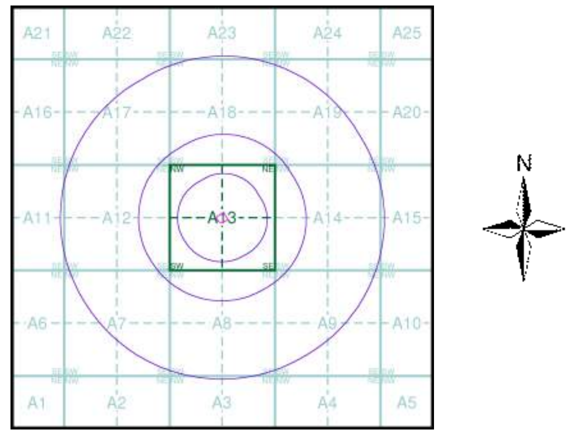
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 313523724_1_1
Customer Ref: G23017
National Grid Reference: 436470, 566730
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1952

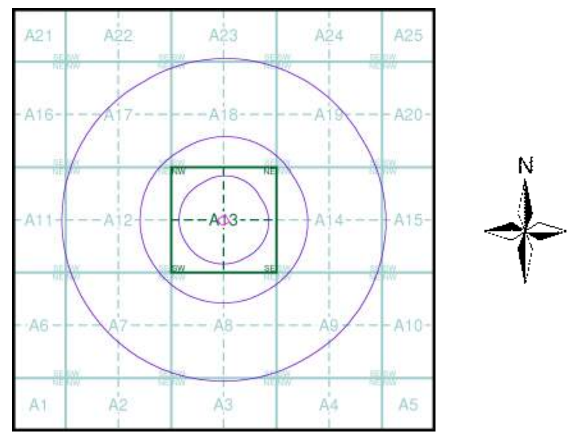
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Map Name(s) and Date(s)

NZ36NE
1952
1:10,560

Historical Map - Slice A



Order Details

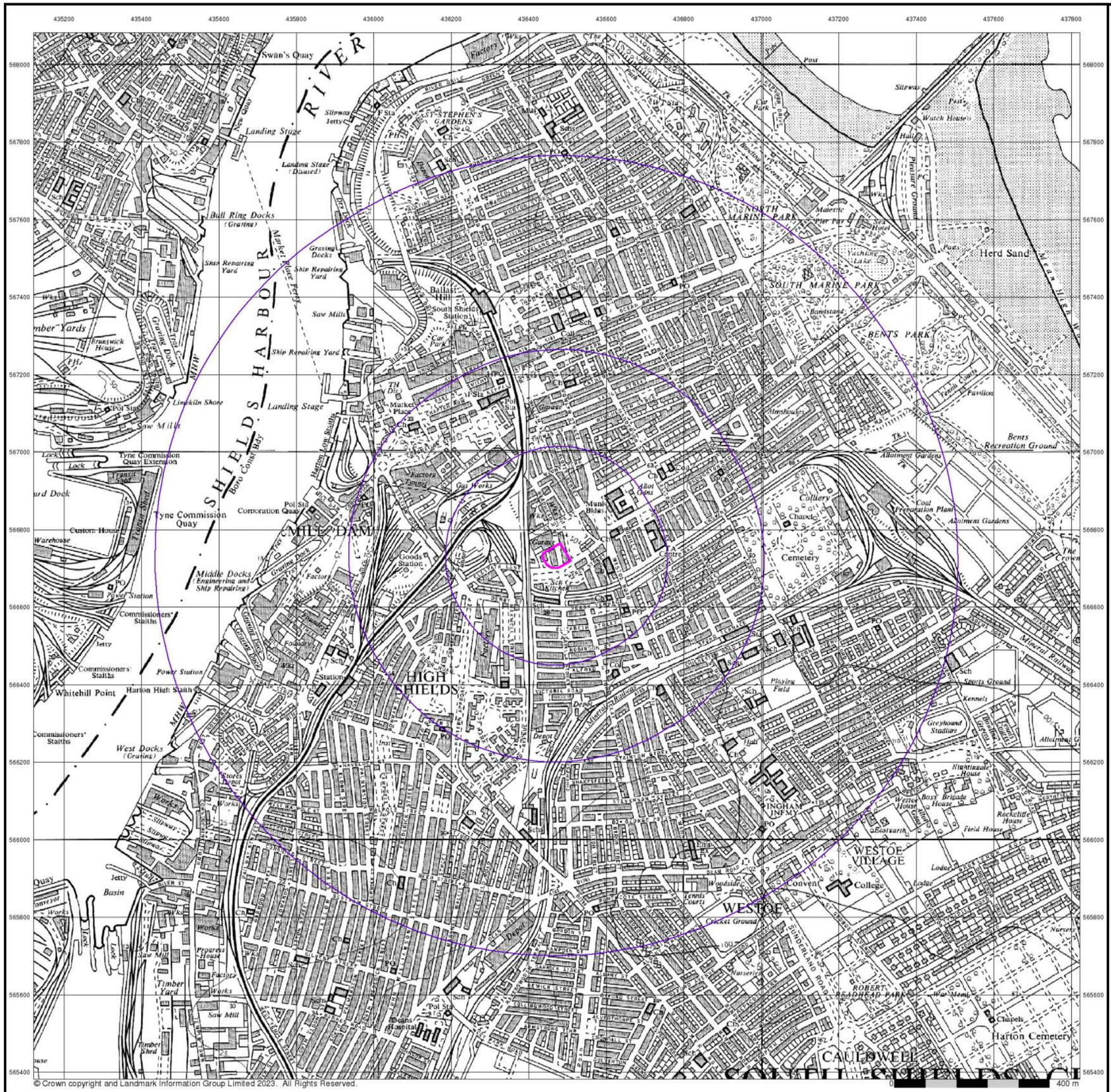
Order Number:	313523724_1_1
Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

Crossgate, SOUTH SHIELDS, NE33 4NU

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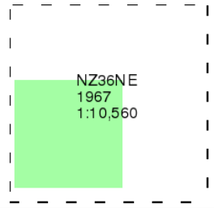
Ordnance Survey Plan

Published 1967

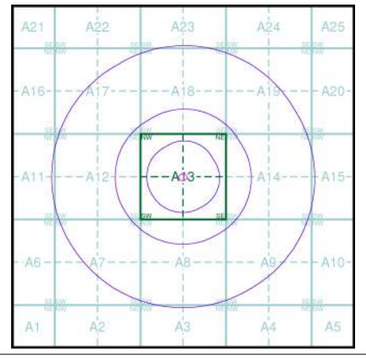
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



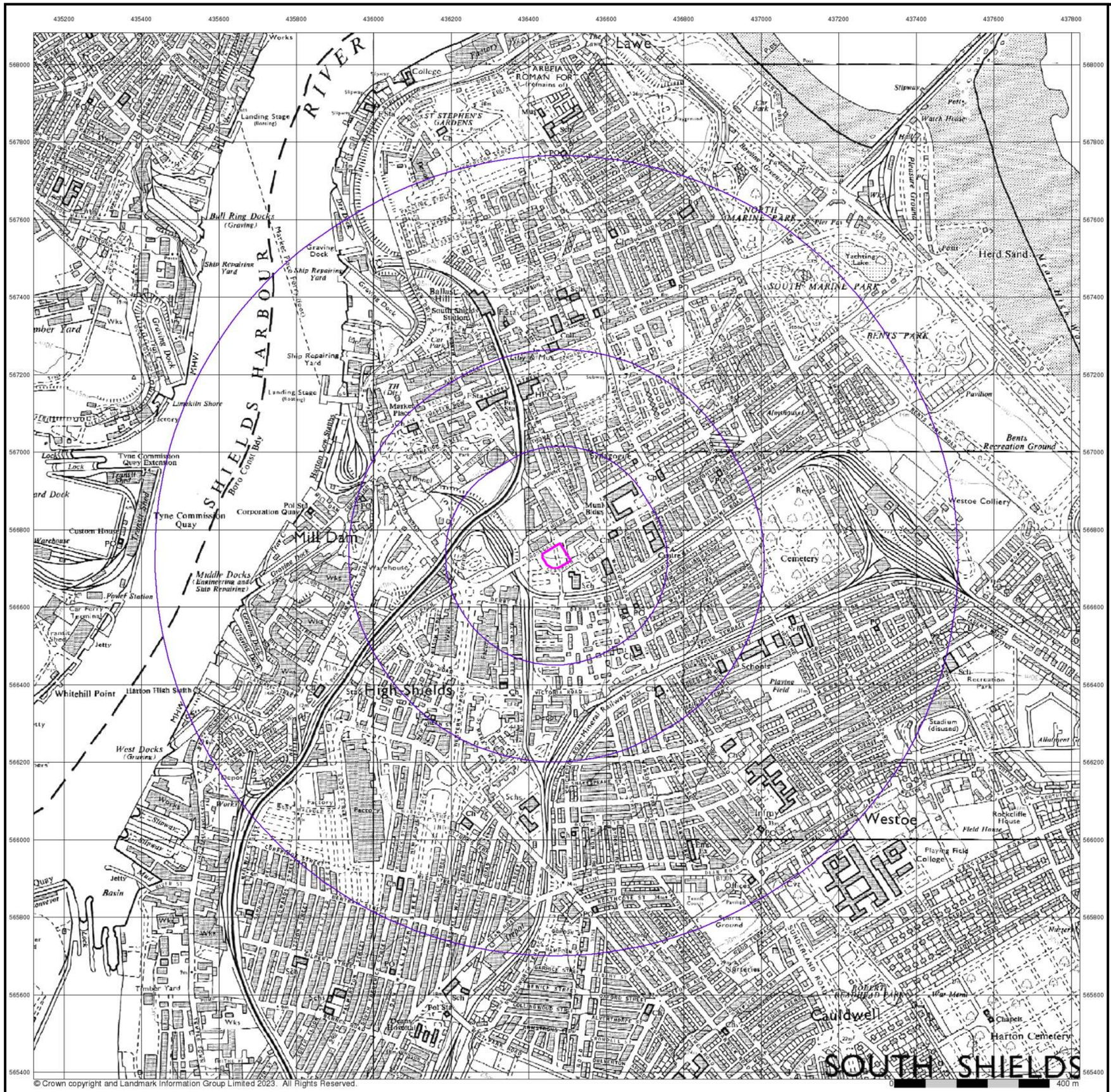
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Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

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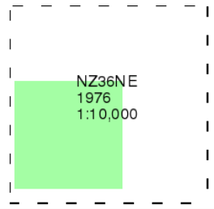
Ordnance Survey Plan

Published 1976

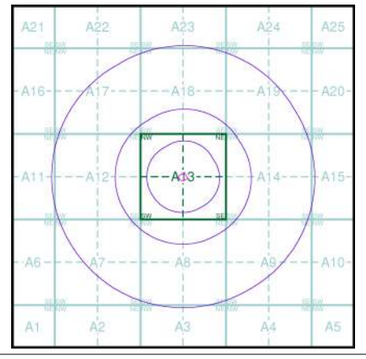
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

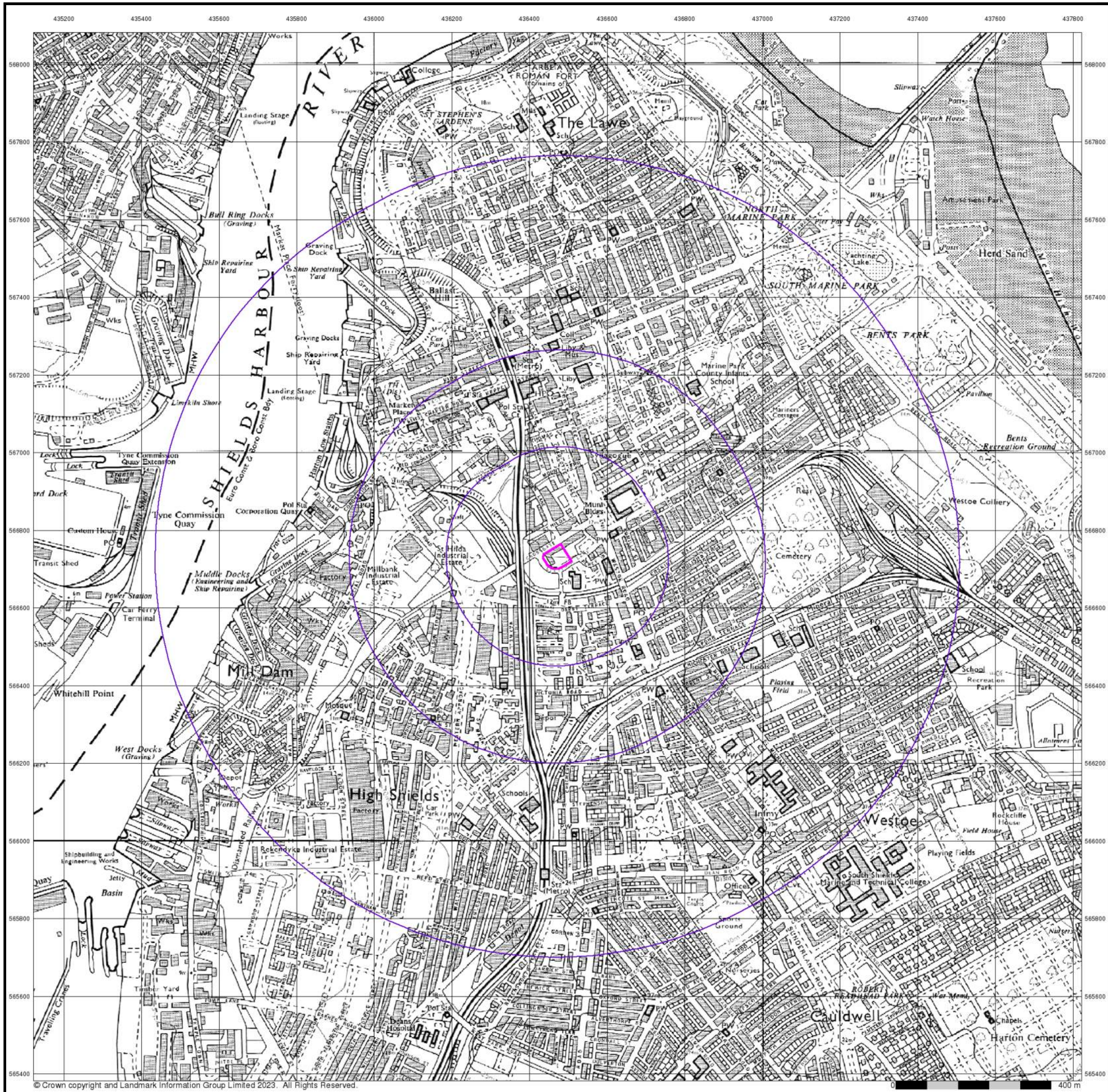
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National Grid Reference:	436470, 566730
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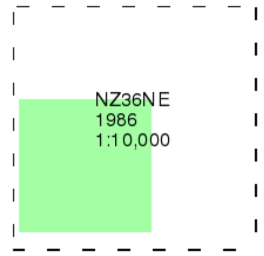
Ordnance Survey Plan

Published 1986

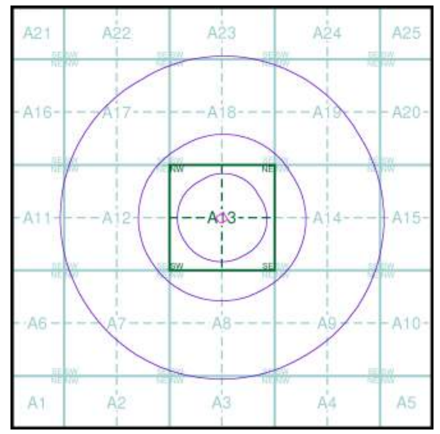
Source map scale - 1:10,000

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

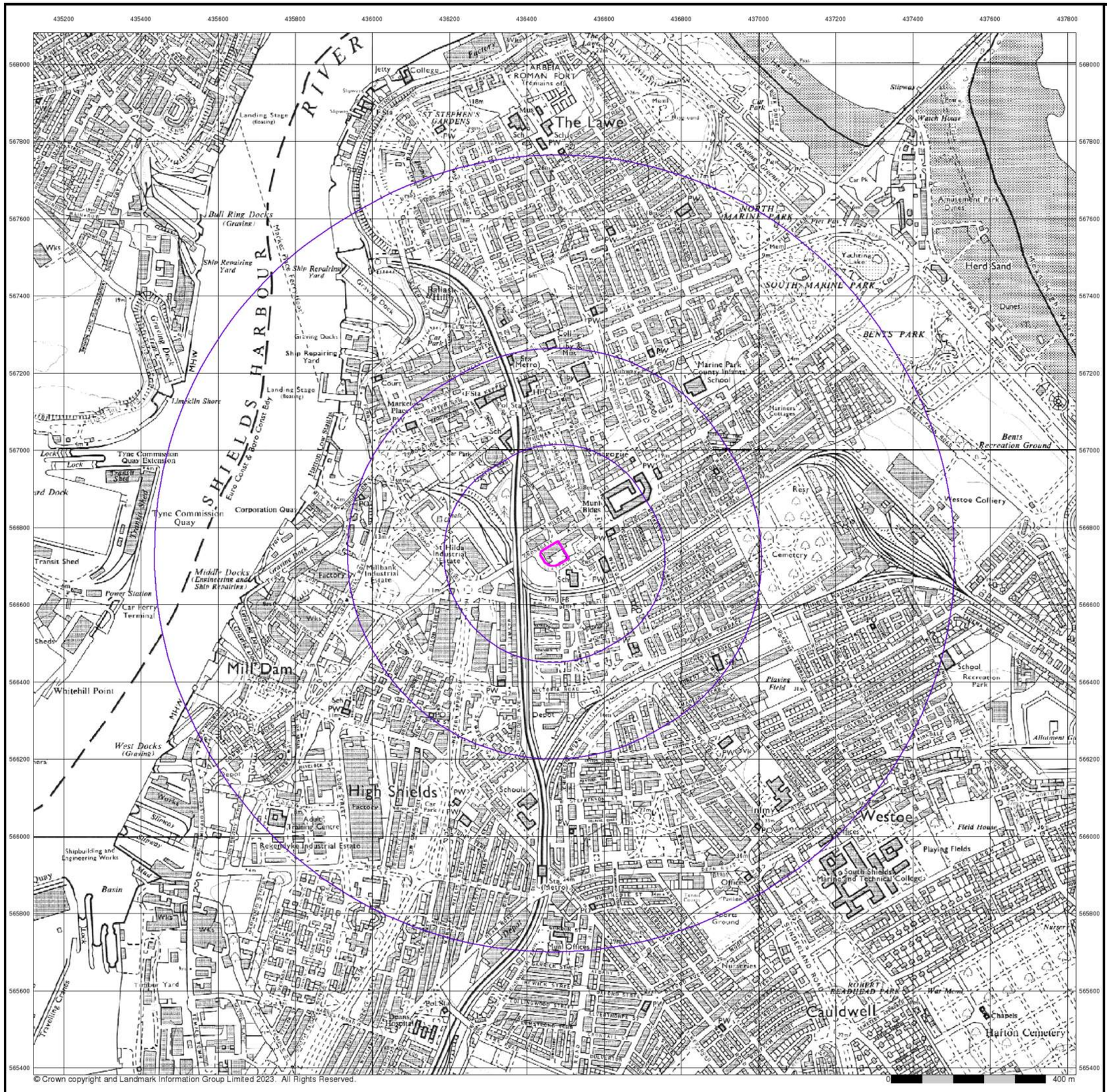
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Customer Ref: G23017
National Grid Reference: 436470, 566730
Slice: A
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Search Buffer (m): 1000

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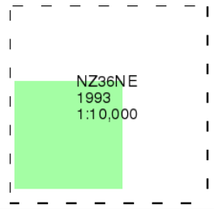
Ordnance Survey Plan

Published 1993

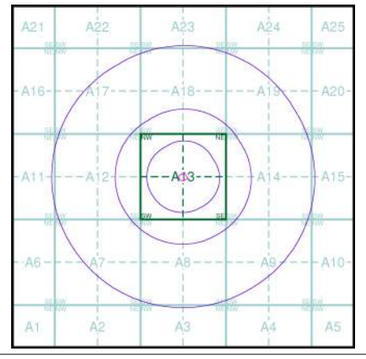
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

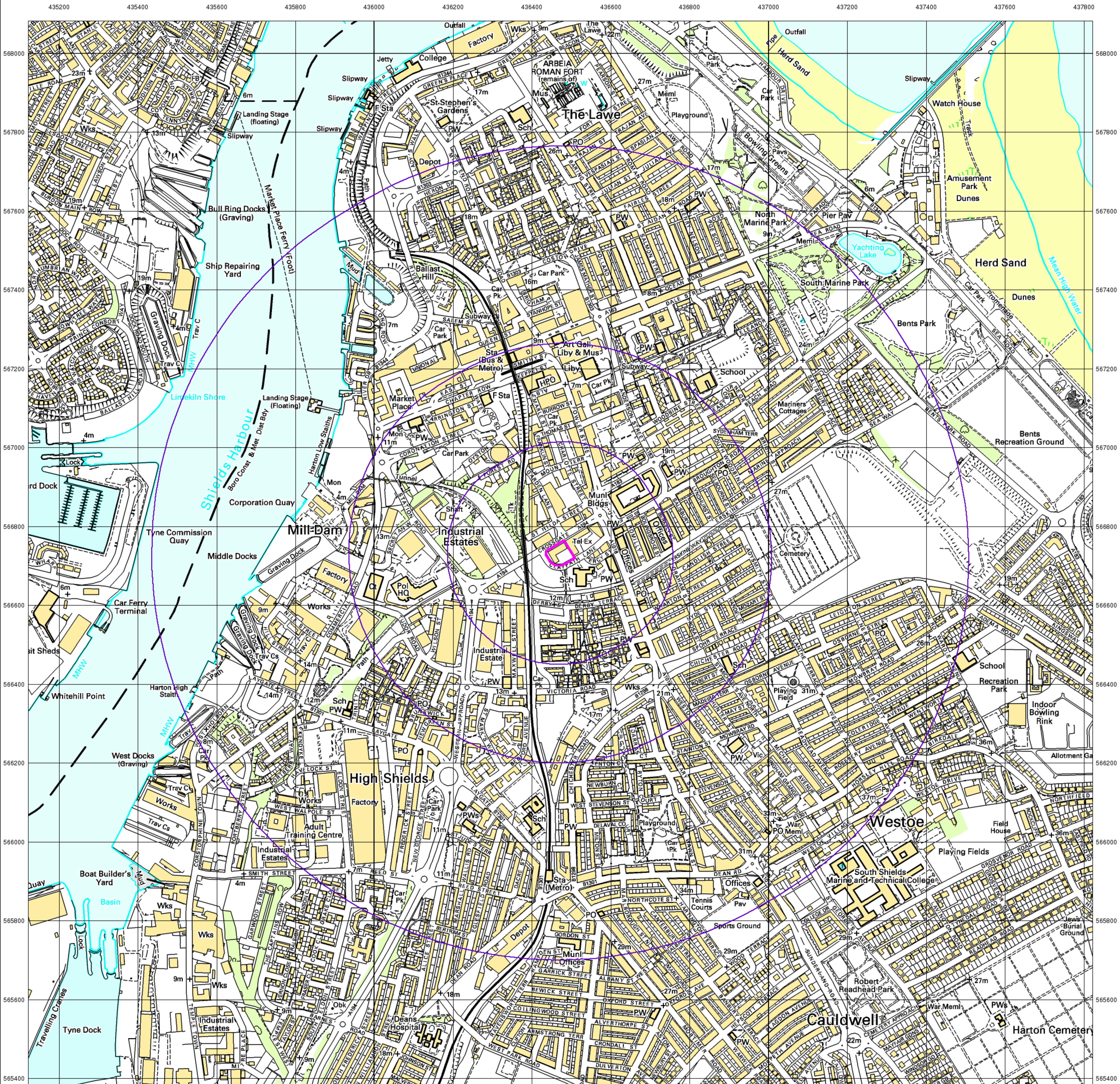
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Customer Ref:	G23017
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Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

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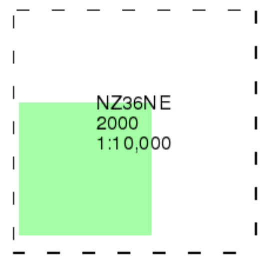
10k Raster Mapping

Published 2000

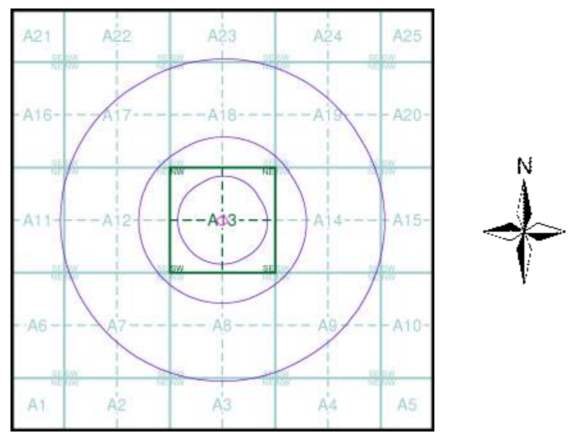
Source map scale - 1:10,000

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: 313523724_1_1
Customer Ref: G23017
National Grid Reference: 436470, 566730
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

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Street View

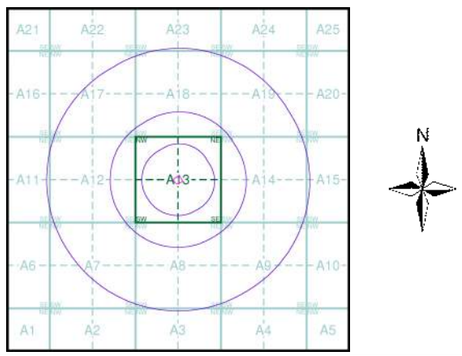
Published 2023

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

Street View Map - Slice A



Order Details

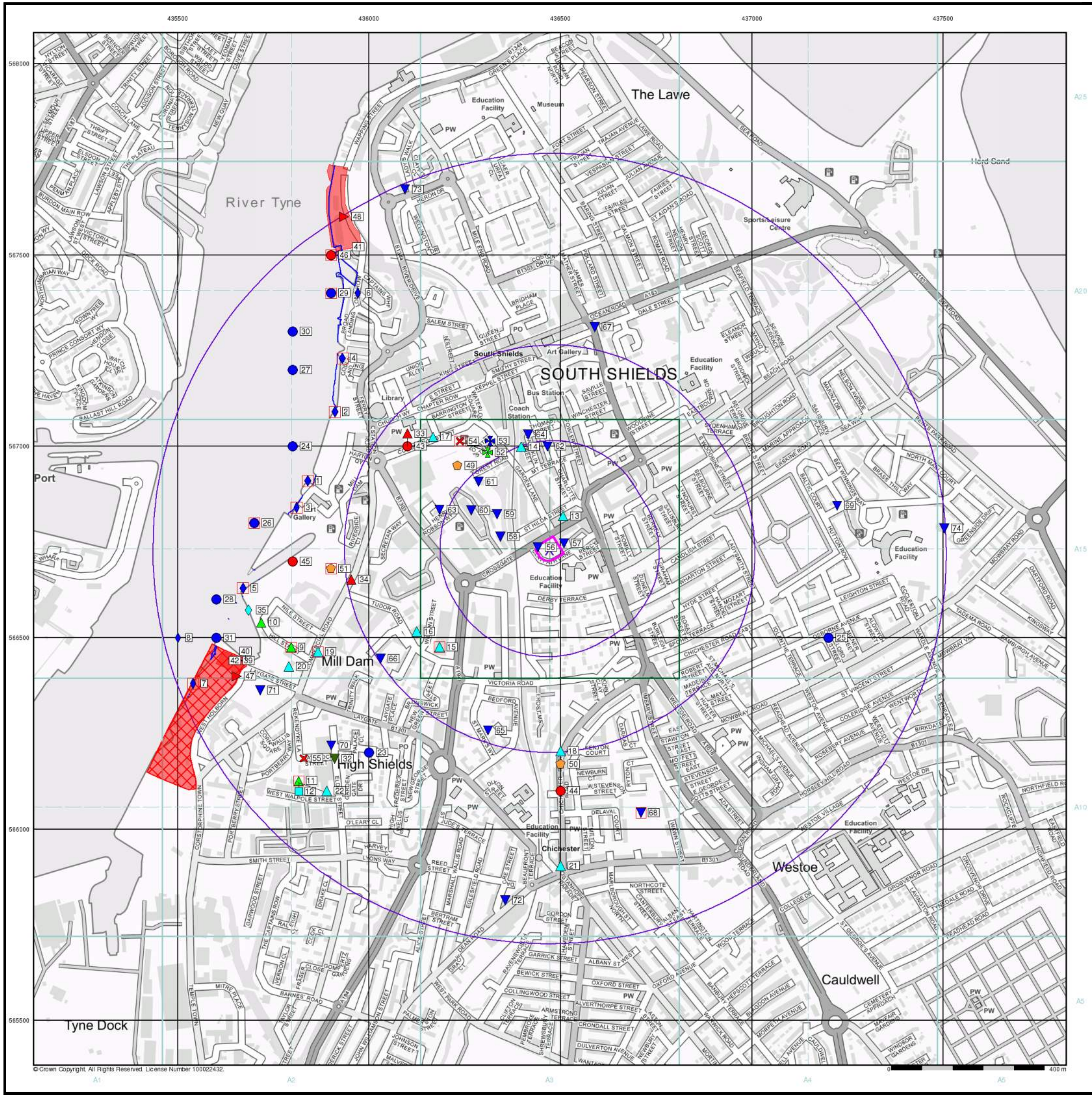
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Customer Ref:	G23017
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Site Area (Ha):	0.29
Search Buffer (m):	1000

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General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

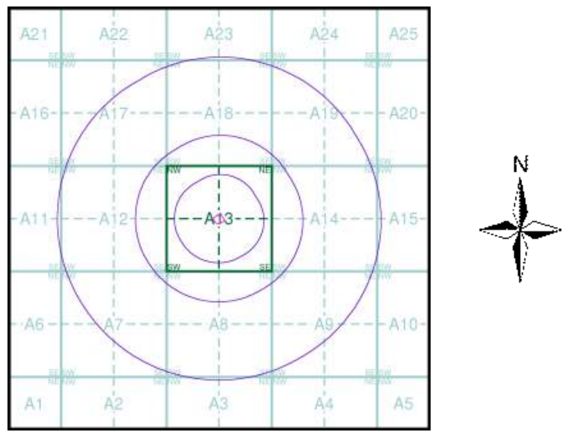
Waste

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

Hazardous Substances

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

Site Sensitivity Map - Slice A



Order Details

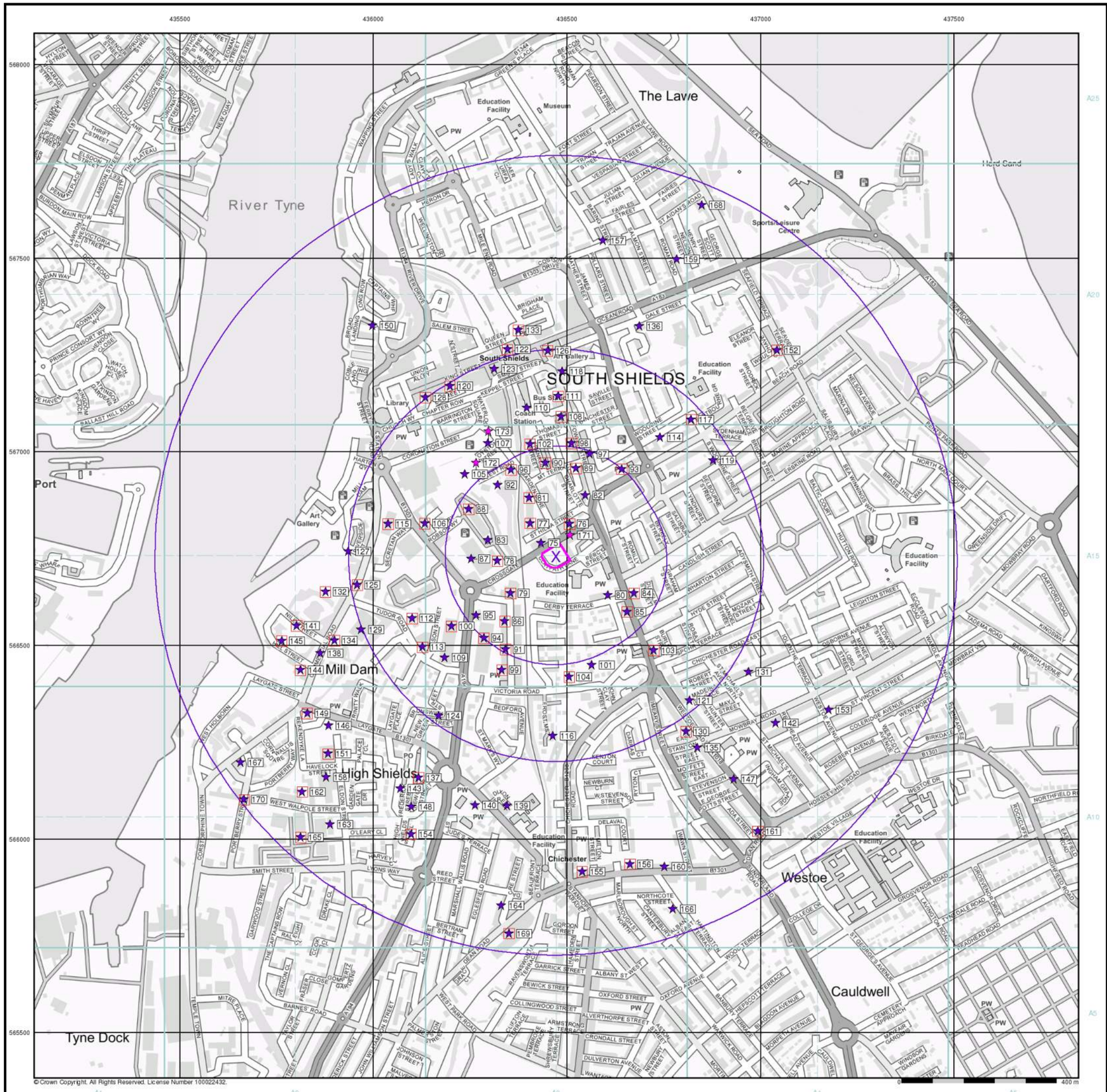
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National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

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Industrial Land Use Map

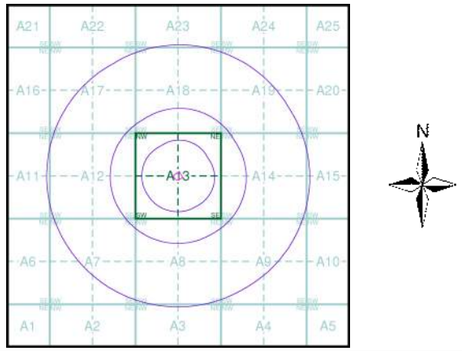
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

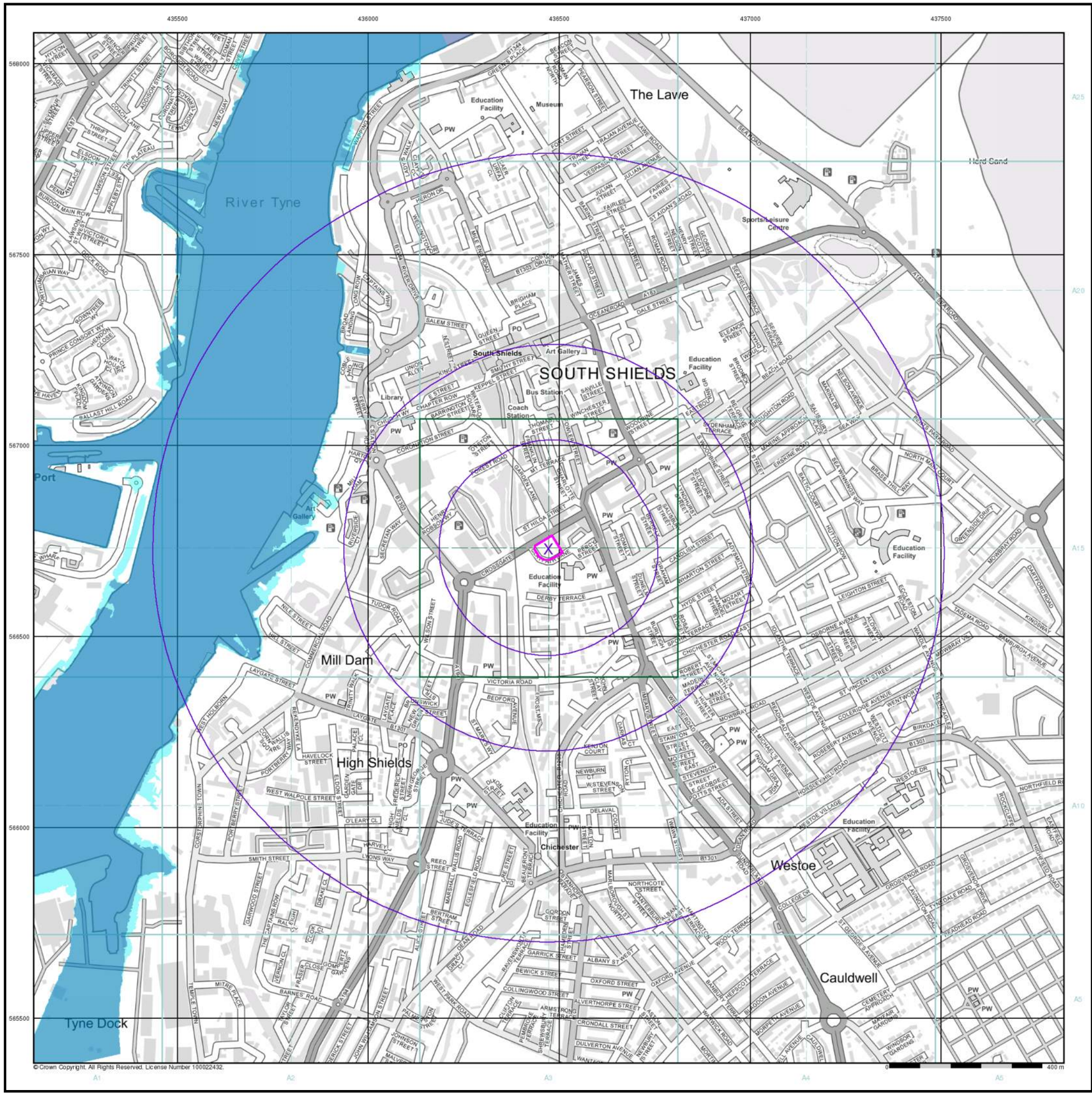
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Customer Ref:	G23017
National Grid Reference:	436470, 566730
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Search Buffer (m):	1000

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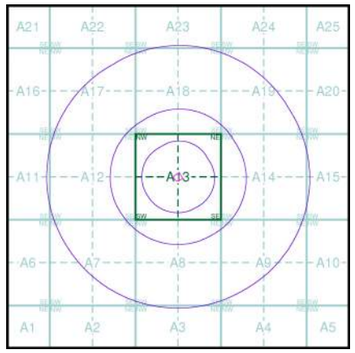
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

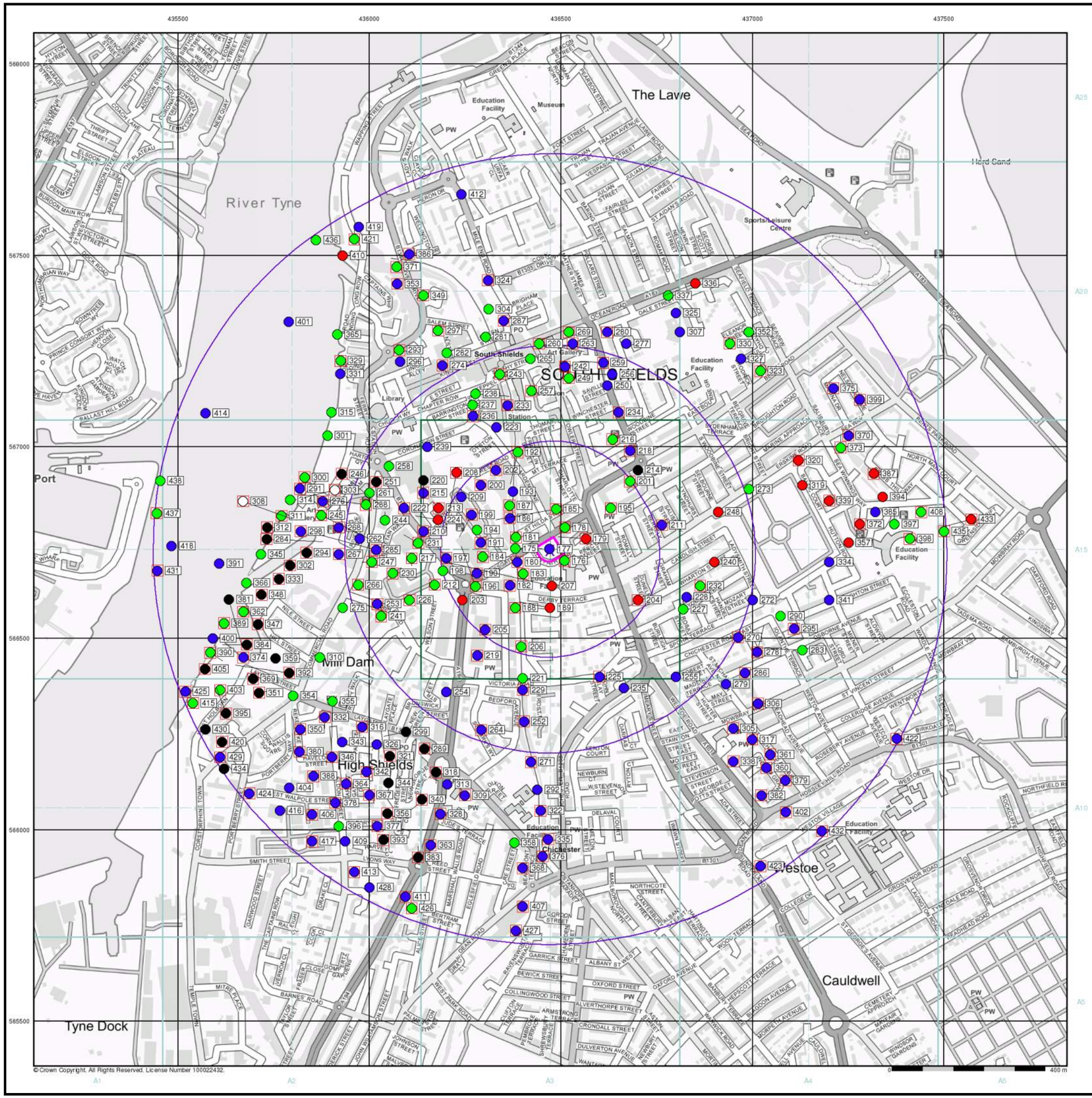
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Site Details

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General

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

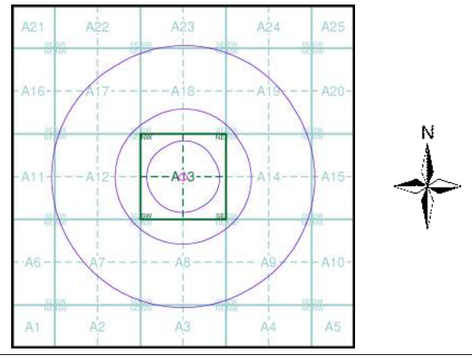
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

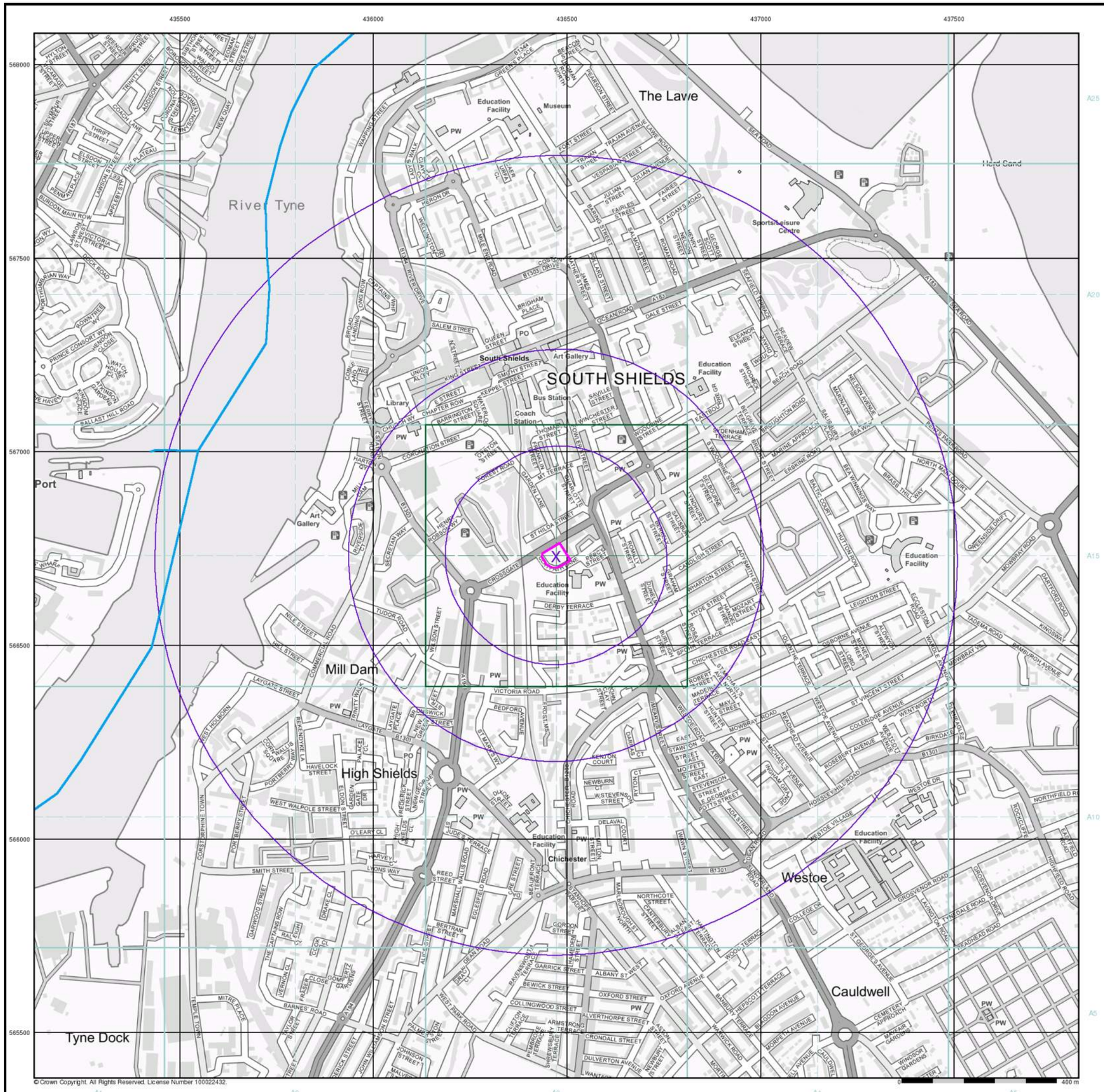
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Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

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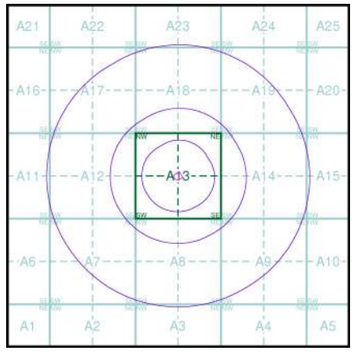
General

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

OS Water Network Data

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

OS Water Network Map - Slice A



Order Details

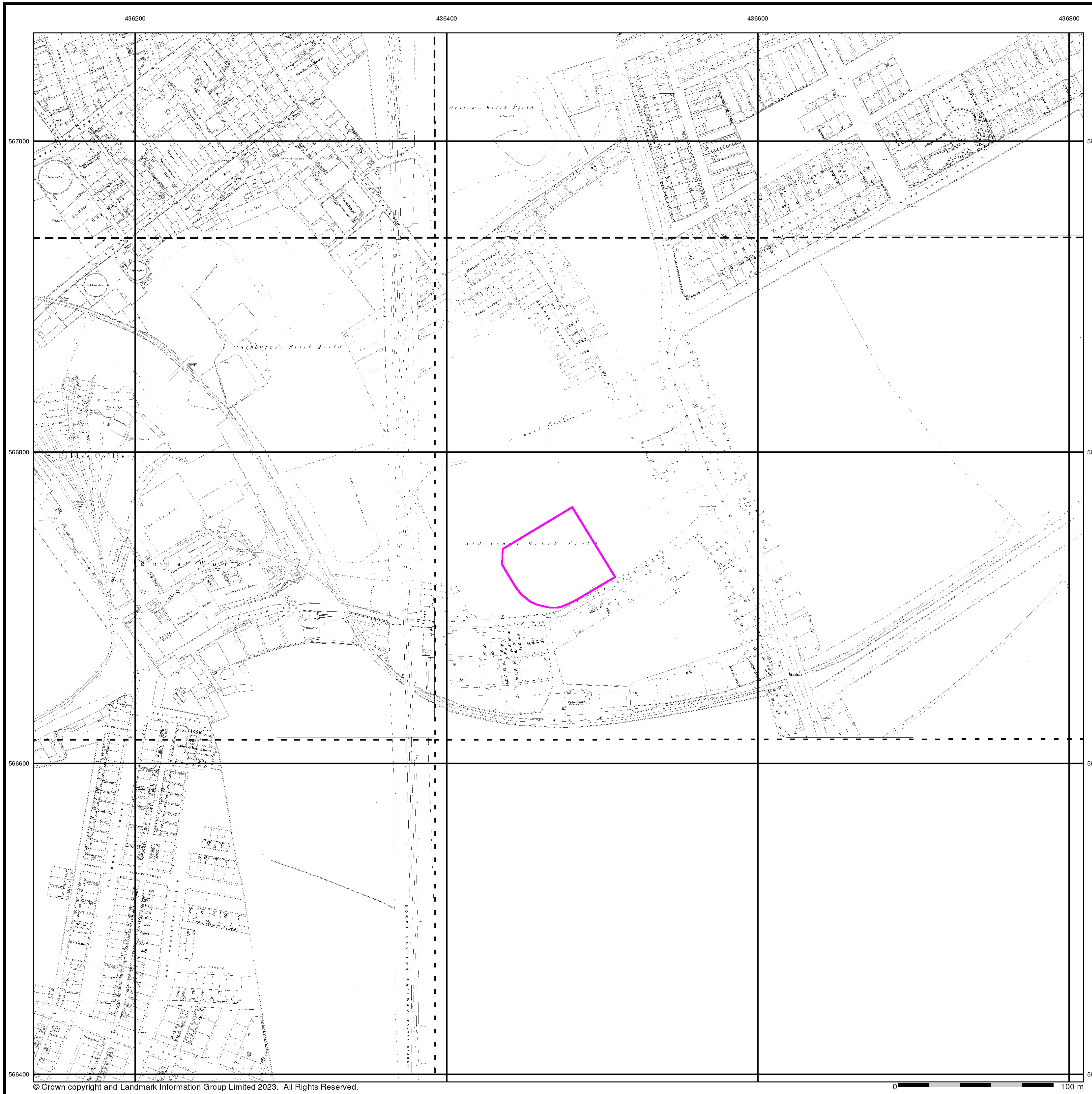
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Northumberland

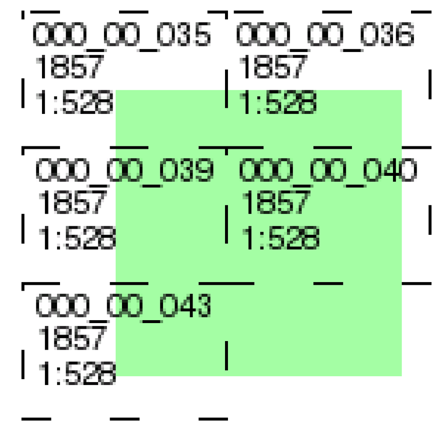
Published 1857

Source map scale - 1:528

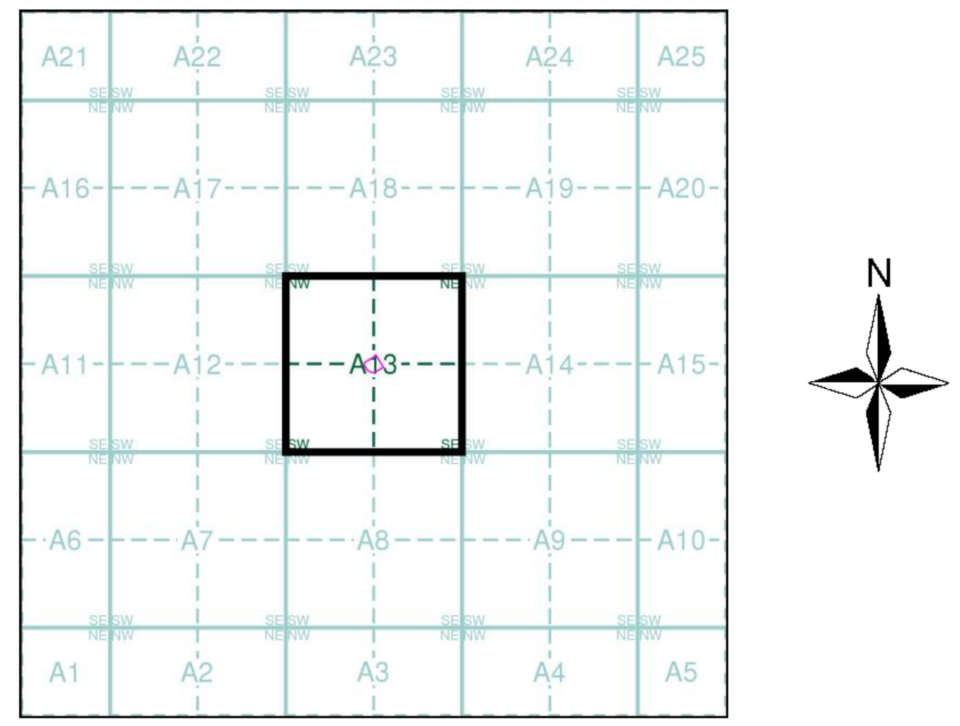
The 1:528 scale Ordnance Survey mapping was adopted in 1850 as an alternative to the 1:1056 scale, that had been deemed to be inadequate for sanitary planning, which had come very much to the fore following the passing of the Public Health Act of 1948. Around 29 towns in England and Wales were surveyed at this scale, the bulk of which were undertaken between 1850 and 1855. These were predominantly towns that were outside the areas being surveyed at 1:10,560 or 1:2500 scale. As well as showing the details characteristic of the later 1:500 plans, they show features of sanitary interest such as privies, taps, cow houses, cess pits, brew and bake houses and cart sheds and stables.

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

Map Name(s) and Date(s)



Historical Town Plan - Segment A13

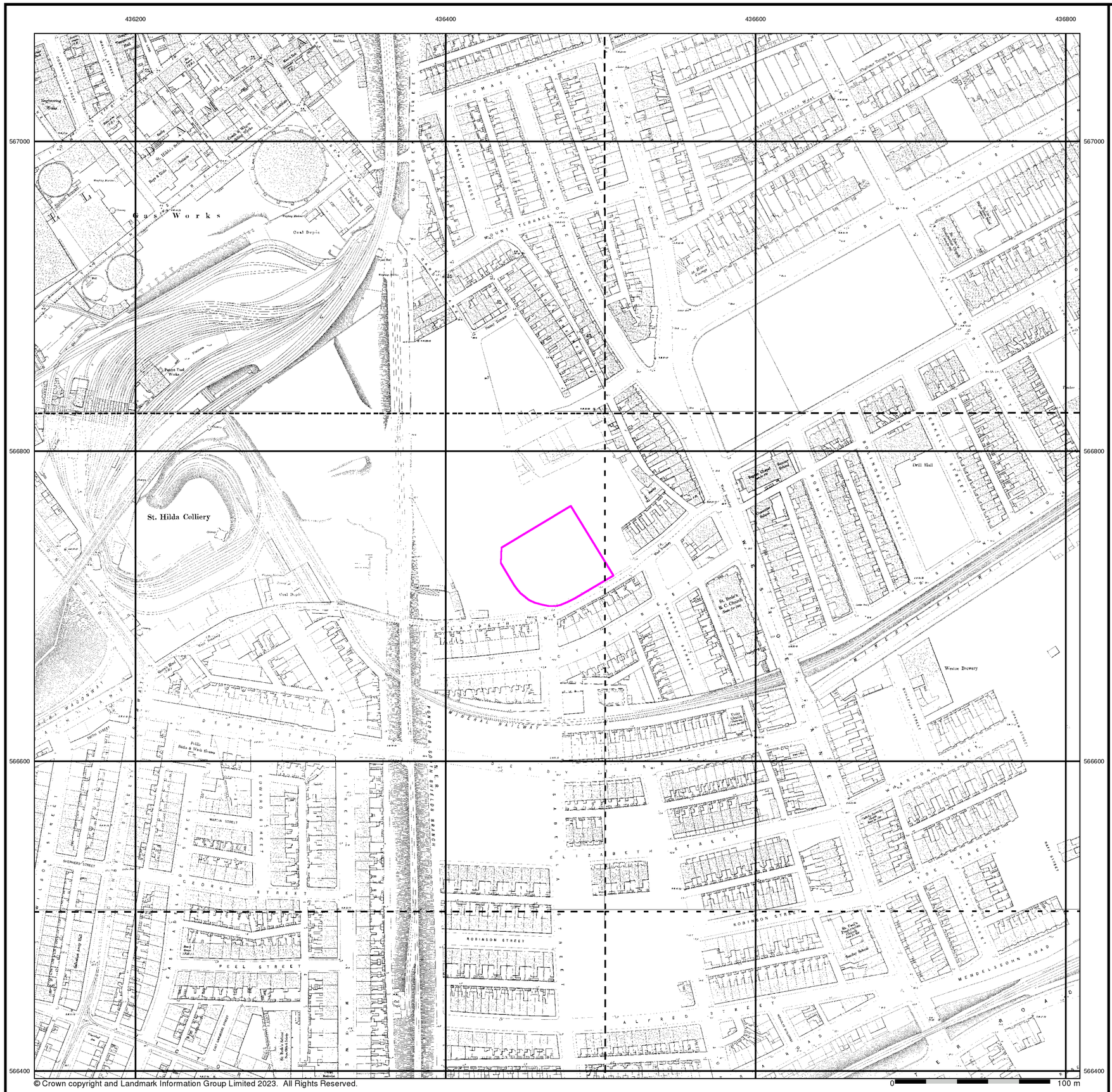


Order Details

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Customer Ref: G23017
National Grid Reference: 436470, 566730
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 0

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Northumberland

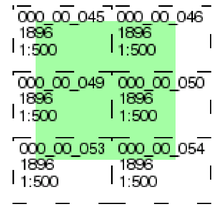
Published 1896

Source map scale - 1:500

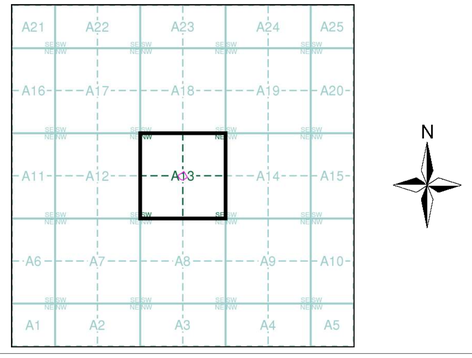
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped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

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

Map Name(s) and Date(s)



Historical Town Plan - Segment A13



Order Details

Order Number:	313523724_1_1
Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	0

Site Details

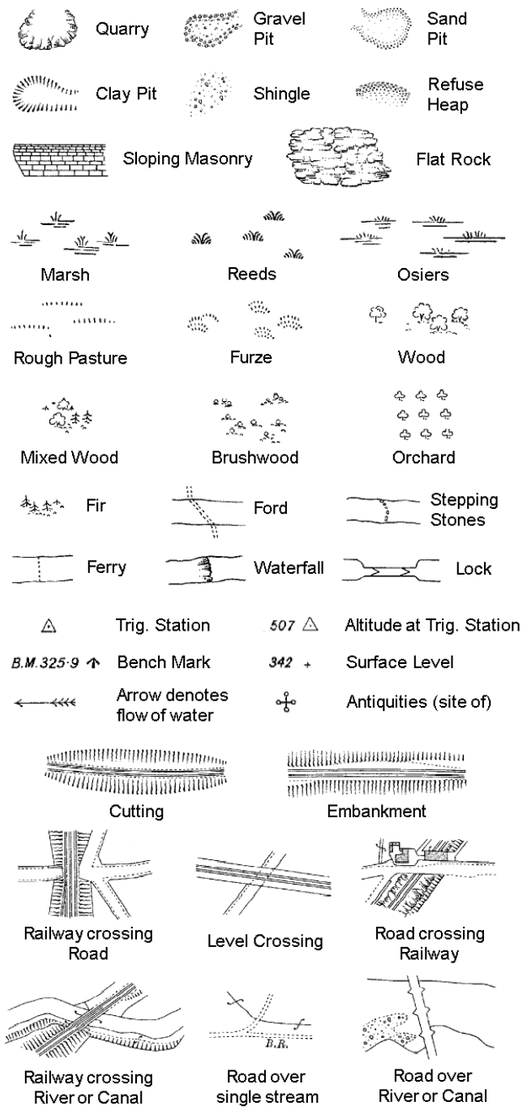
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Historical Mapping Legends

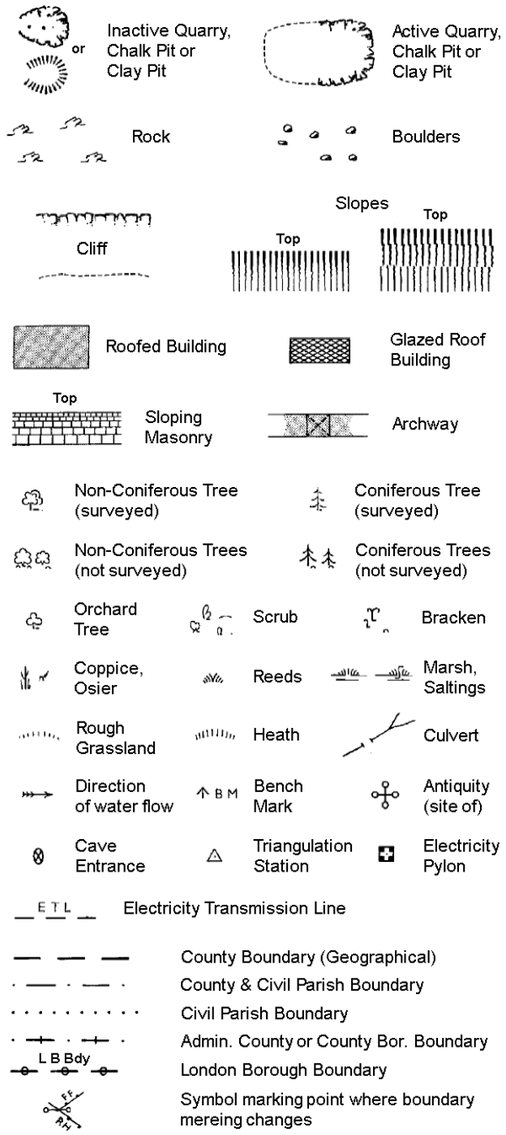
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

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

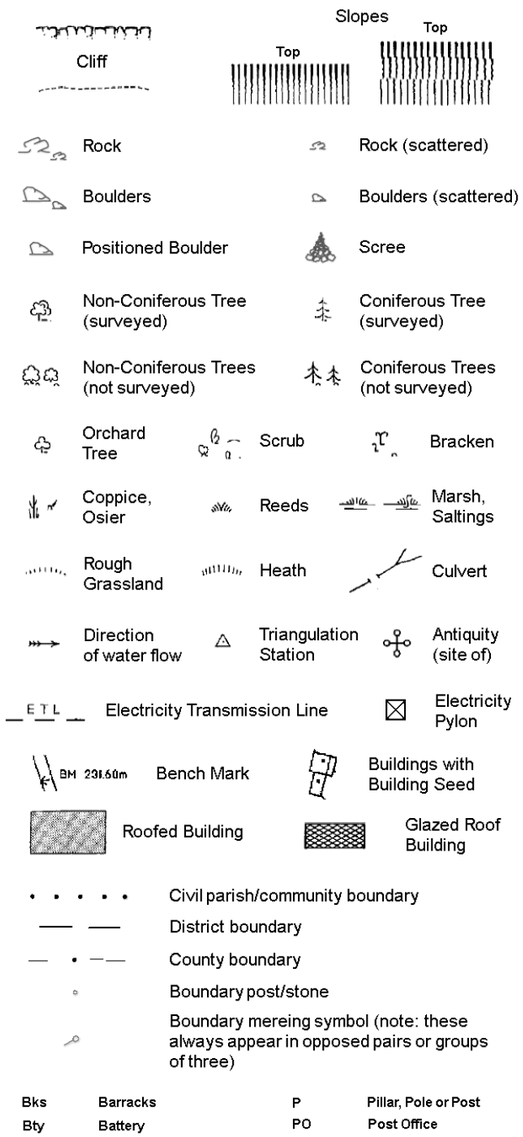
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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

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

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



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

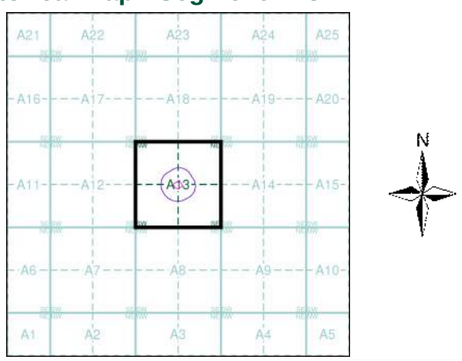
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity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

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Durham	1:2,500	1858	2
Northumberland	1:2,500	1861	3
Durham	1:2,500	1897	4
Durham	1:2,500	1915	5
Ordnance Survey Plan	1:1,250	1956	6
Ordnance Survey Plan	1:2,500	1956	7
Ordnance Survey Plan	1:1,250	1963 - 1975	8
Ordnance Survey Plan	1:1,250	1968 - 1989	9
Ordnance Survey Plan	1:2,500	1970	10
Ordnance Survey Plan	1:1,250	1975 - 1990	11
Additional SIMs	1:1,250	1977 - 1986	12
Additional SIMs	1:1,250	1989 - 1991	13
Additional SIMs	1:1,250	1992	14
Large-Scale National Grid Data	1:1,250	1993	15
Large-Scale National Grid Data	1:1,250	1994 - 1995	16
Large-Scale National Grid Data	1:1,250	1996	17

Historical Map - Segment A13



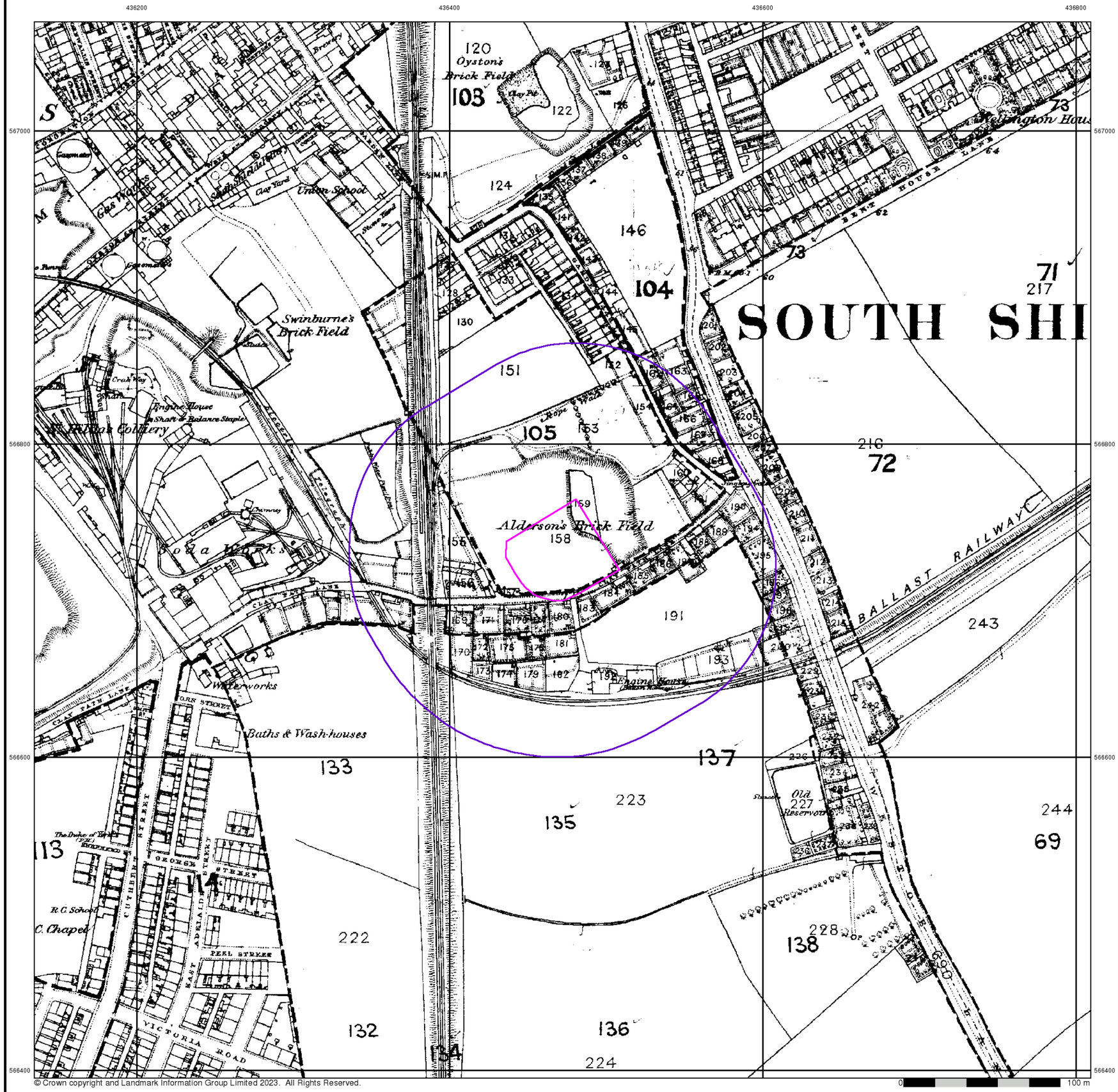
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Site Area (Ha):	0.29
Search Buffer (m):	100

Site Details

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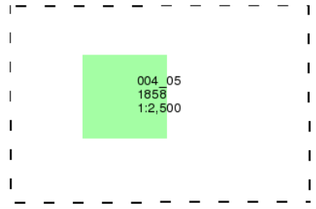
Durham

Published 1858

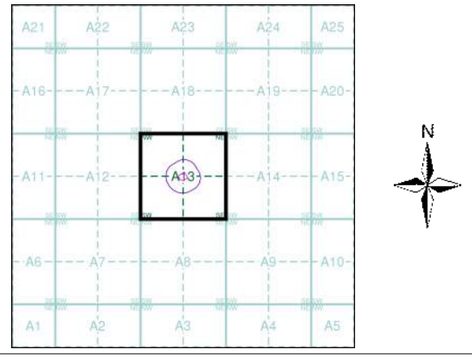
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

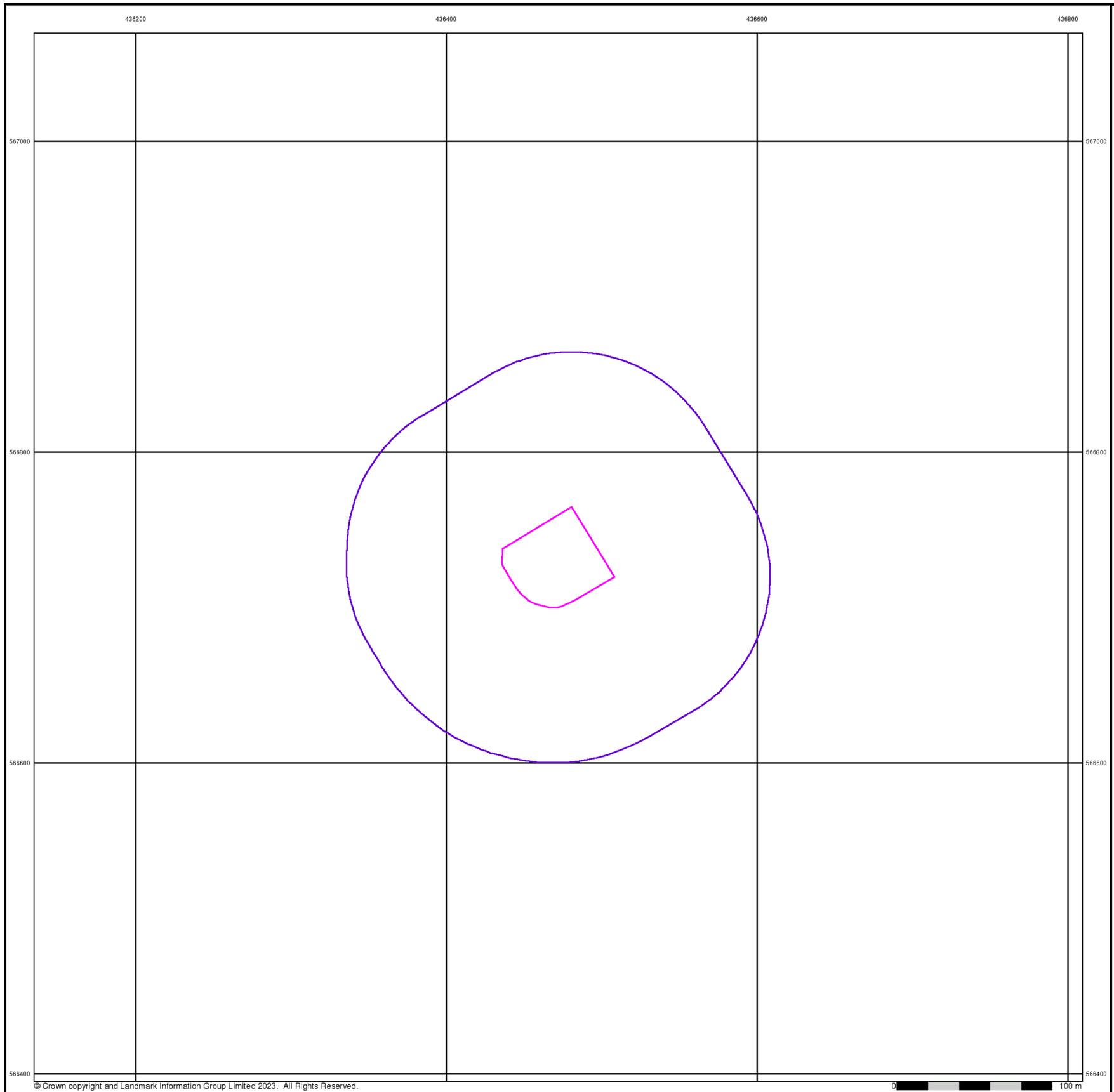
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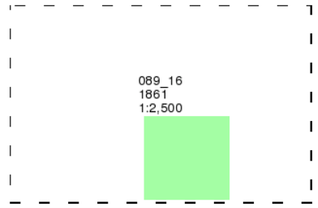
Northumberland

Published 1861

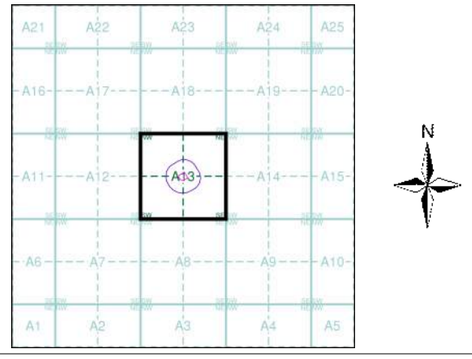
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



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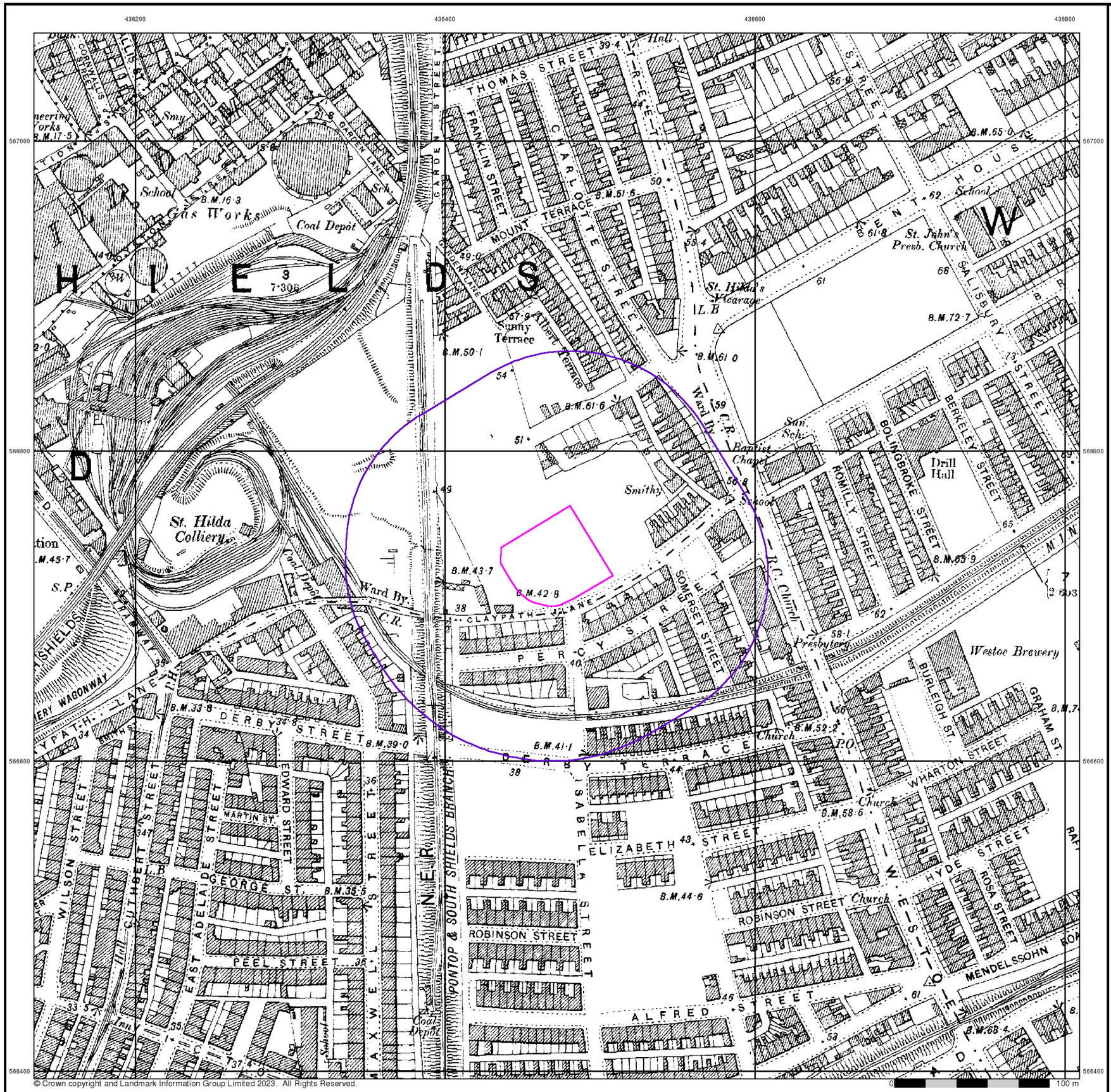
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Slice:	A
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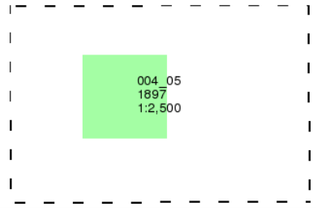
Durham

Published 1897

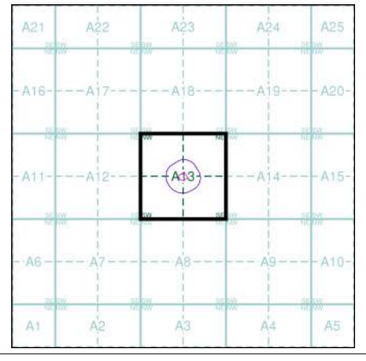
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



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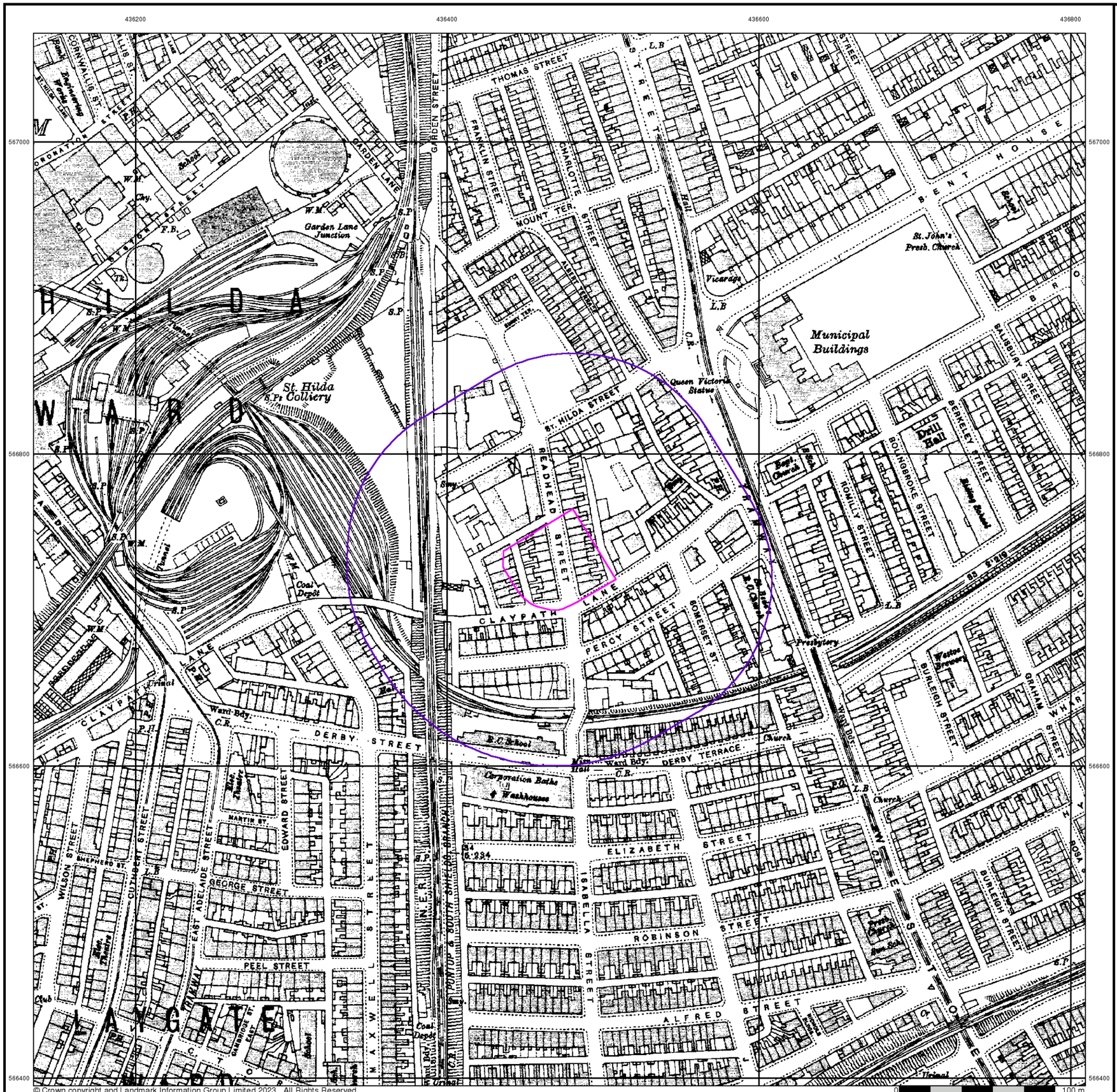
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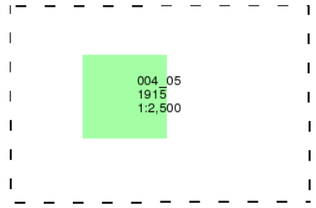
Durham

Published 1915

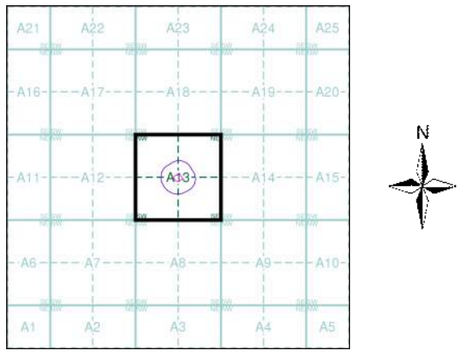
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



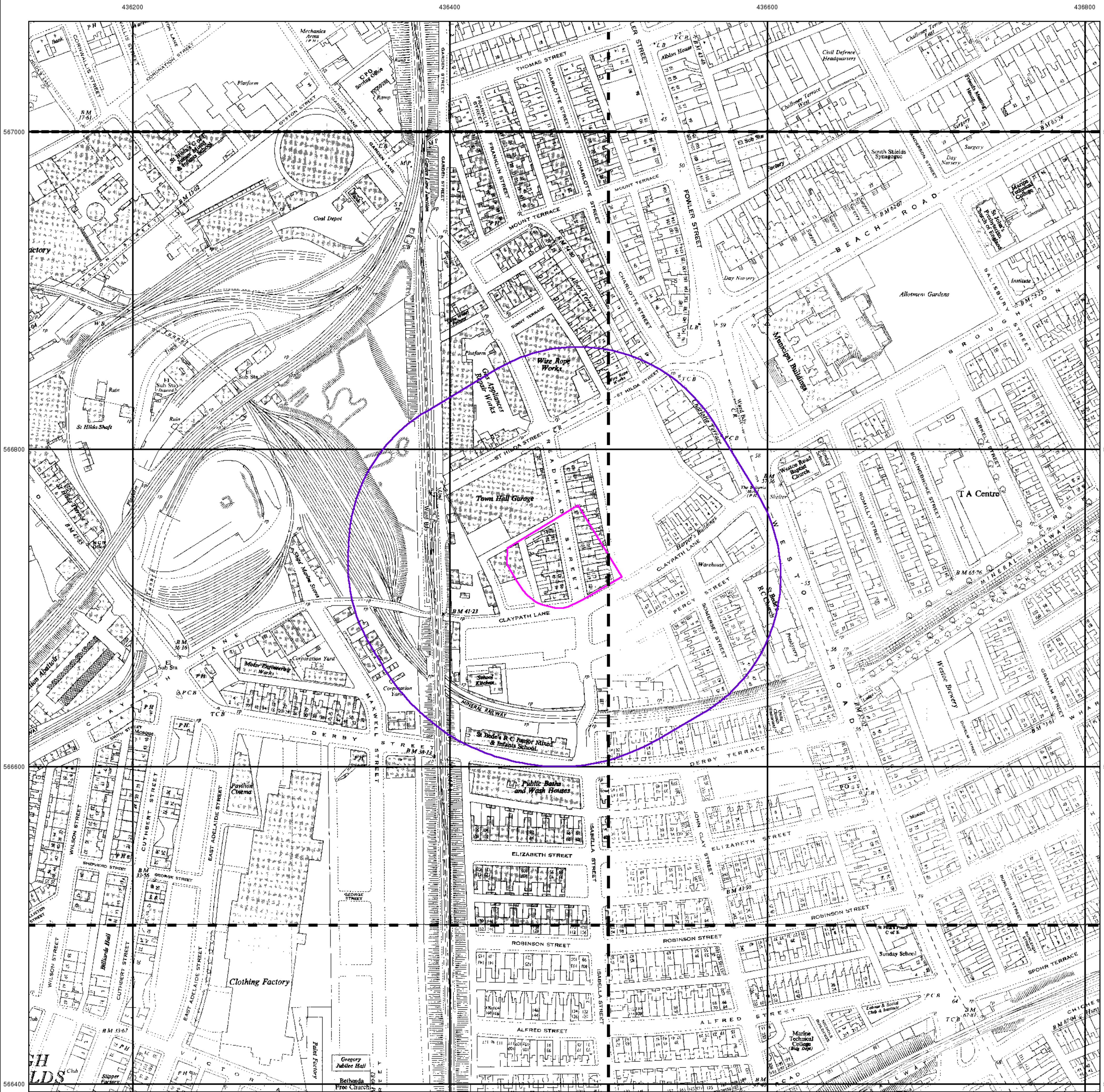
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Ordnance Survey Plan

Published 1956

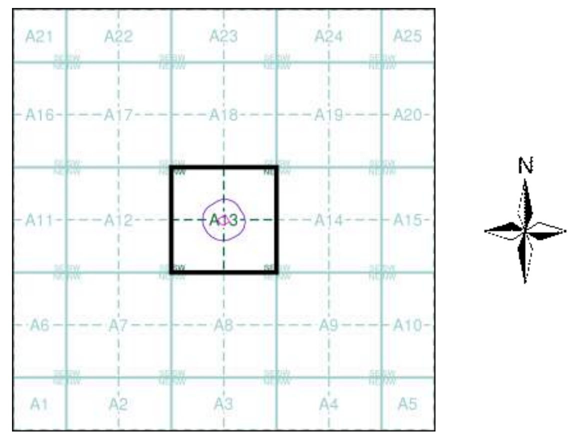
Source map scale - 1:1,250

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Map Name(s) and Date(s)

NZ3667SW 1956 1:1,250	NZ3667SE 1956 1:1,250
NZ3666NW 1956 1:1,250	NZ3666NE 1956 1:1,250
NZ3666SW 1956 1:1,250	NZ3666SE 1956 1:1,250

Historical Map - Segment A13

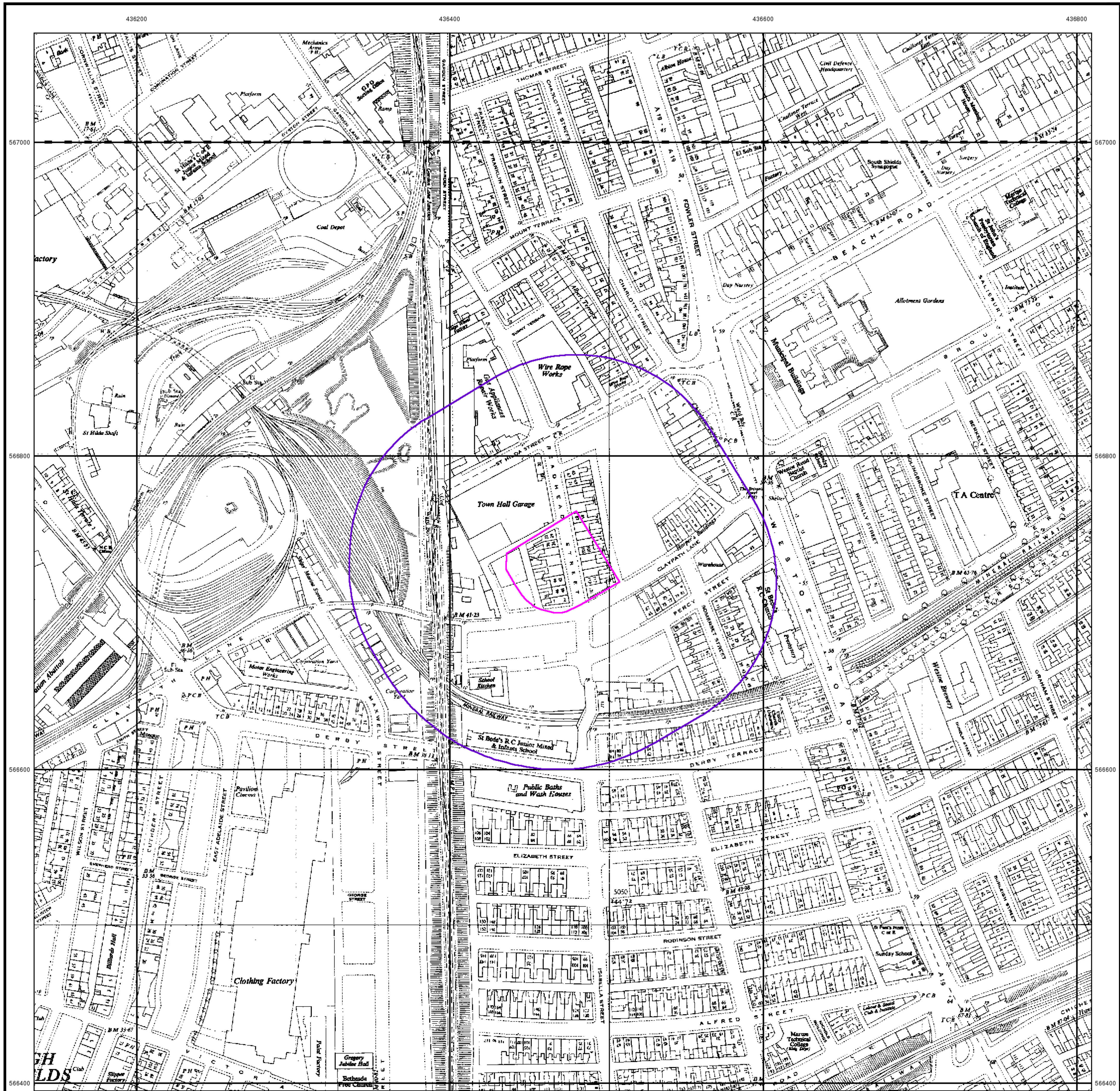


Order Details

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Site Details

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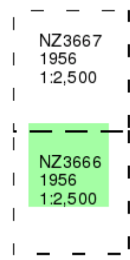
Ordnance Survey Plan

Published 1956

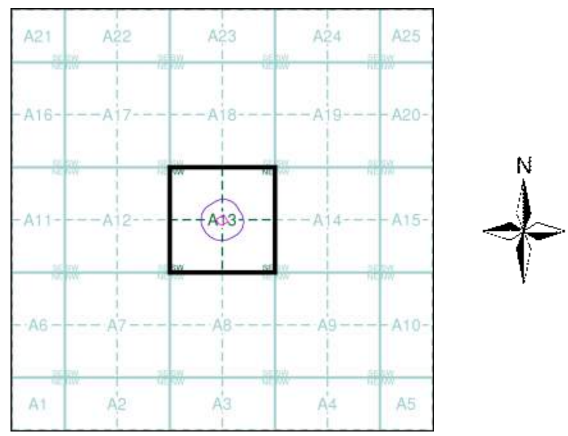
Source map scale - 1:2,500

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Historical Map - Segment A13



Order Details

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0 100 m

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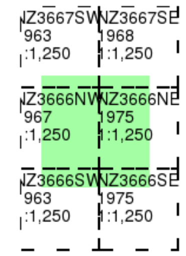
Ordnance Survey Plan

Published 1963 - 1975

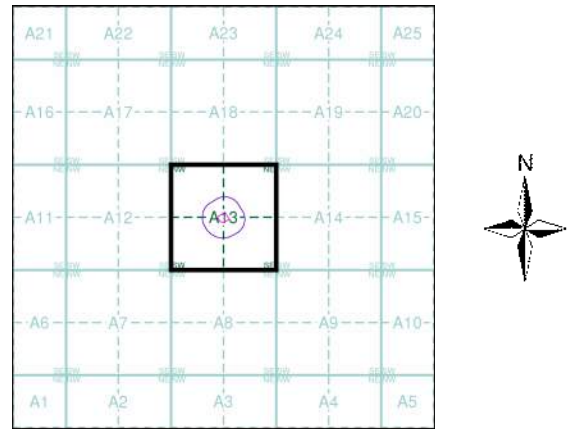
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Map Name(s) and Date(s)



Historical Map - Segment A13



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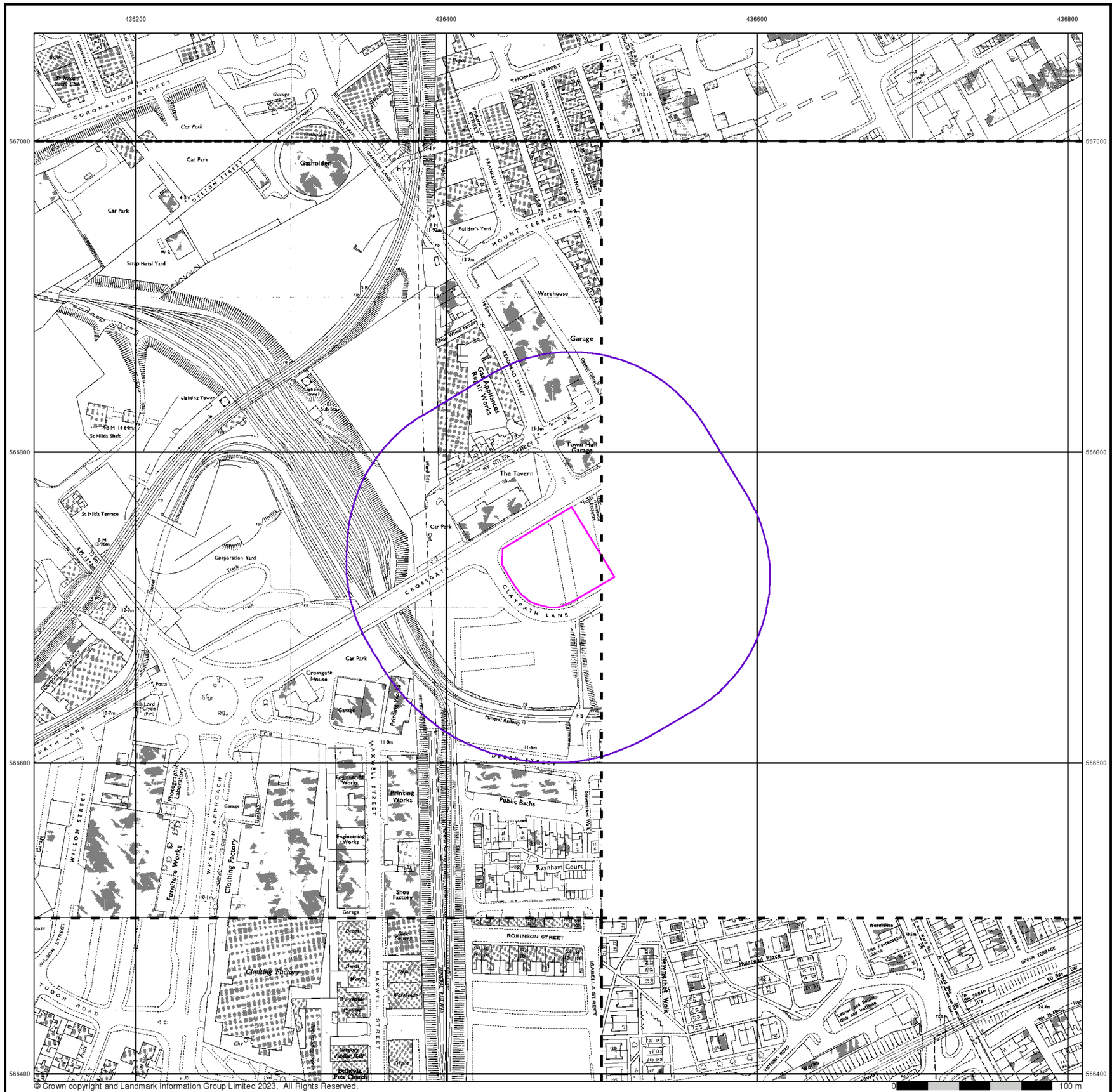
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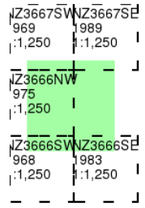
Ordnance Survey Plan

Published 1968 - 1989

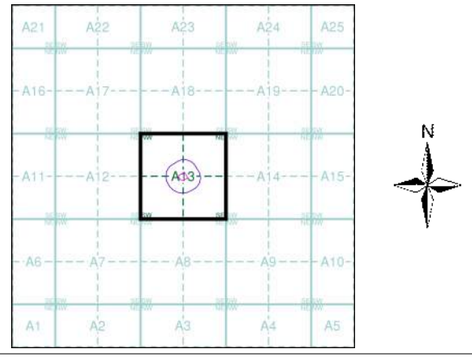
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Historical Map - Segment A13



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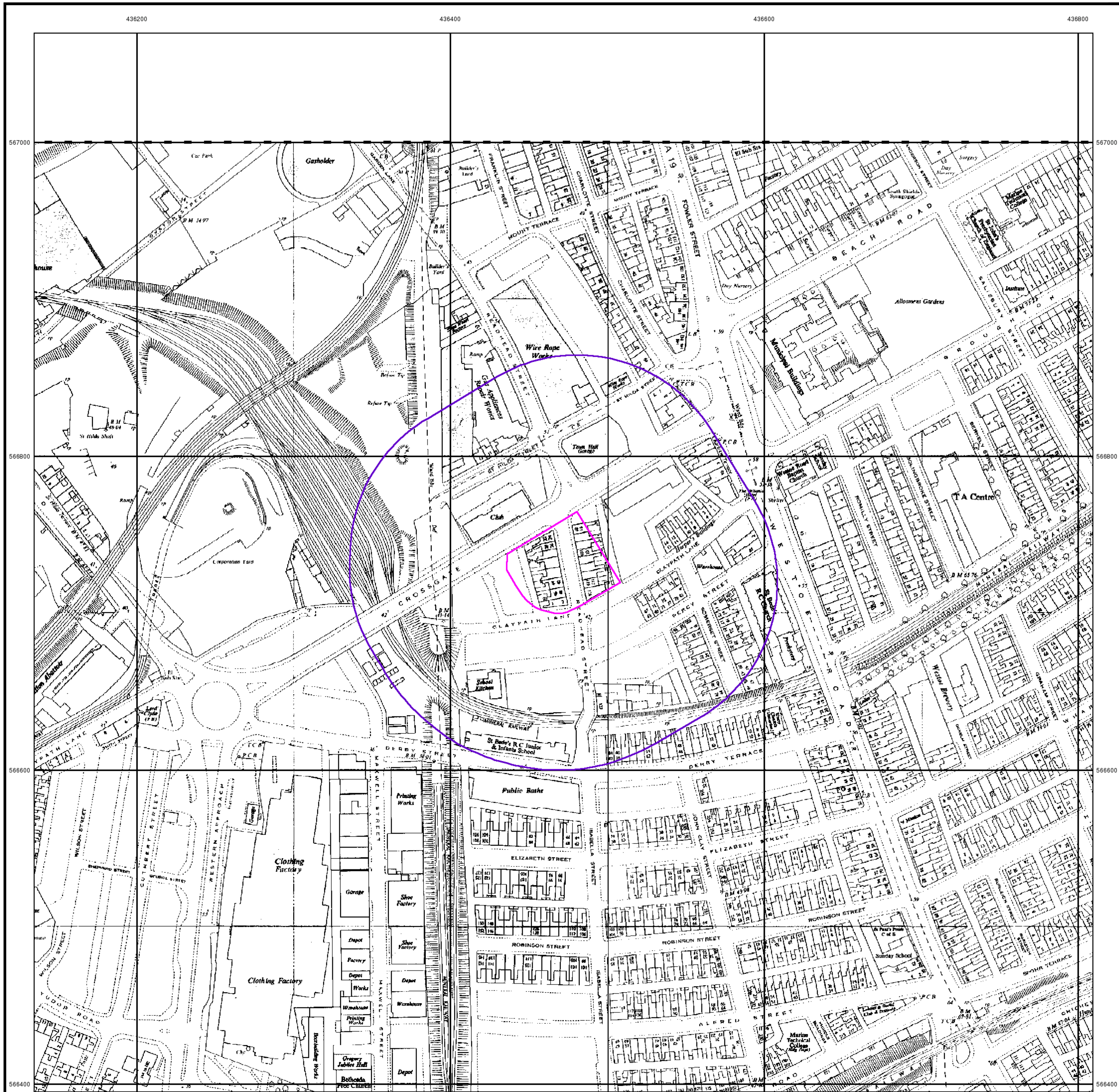
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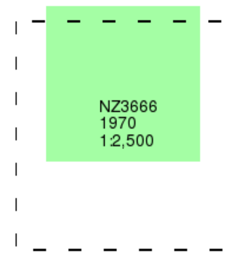
Ordnance Survey Plan

Published 1970

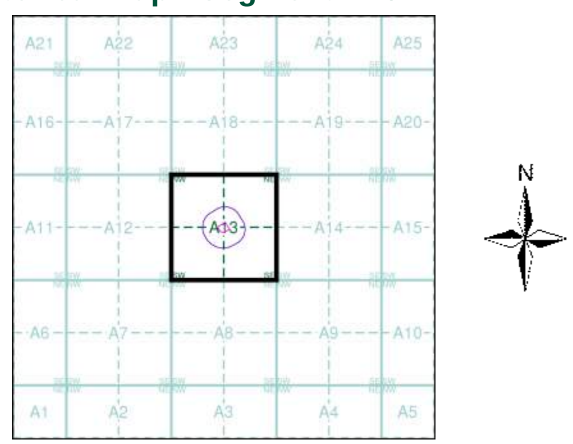
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 313523724_1_1
Customer Ref: G23017
National Grid Reference: 436470, 566730
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

Crossgate, SOUTH SHIELDS, NE33 4NU

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Ordnance Survey Plan

Published 1975 - 1990

Source map scale - 1:1,250

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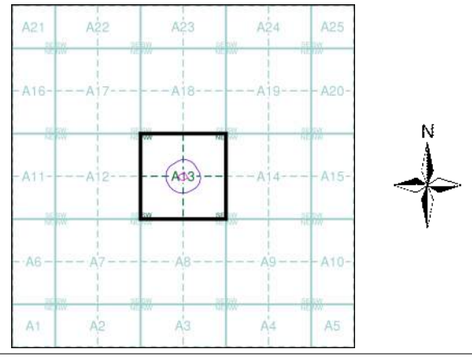
Map Name(s) and Date(s)

NZ3667SW
990
1:1,250

NZ3666NW
989
1:1,250

NZ3666SW
975
1:1,250

Historical Map - Segment A13



Order Details

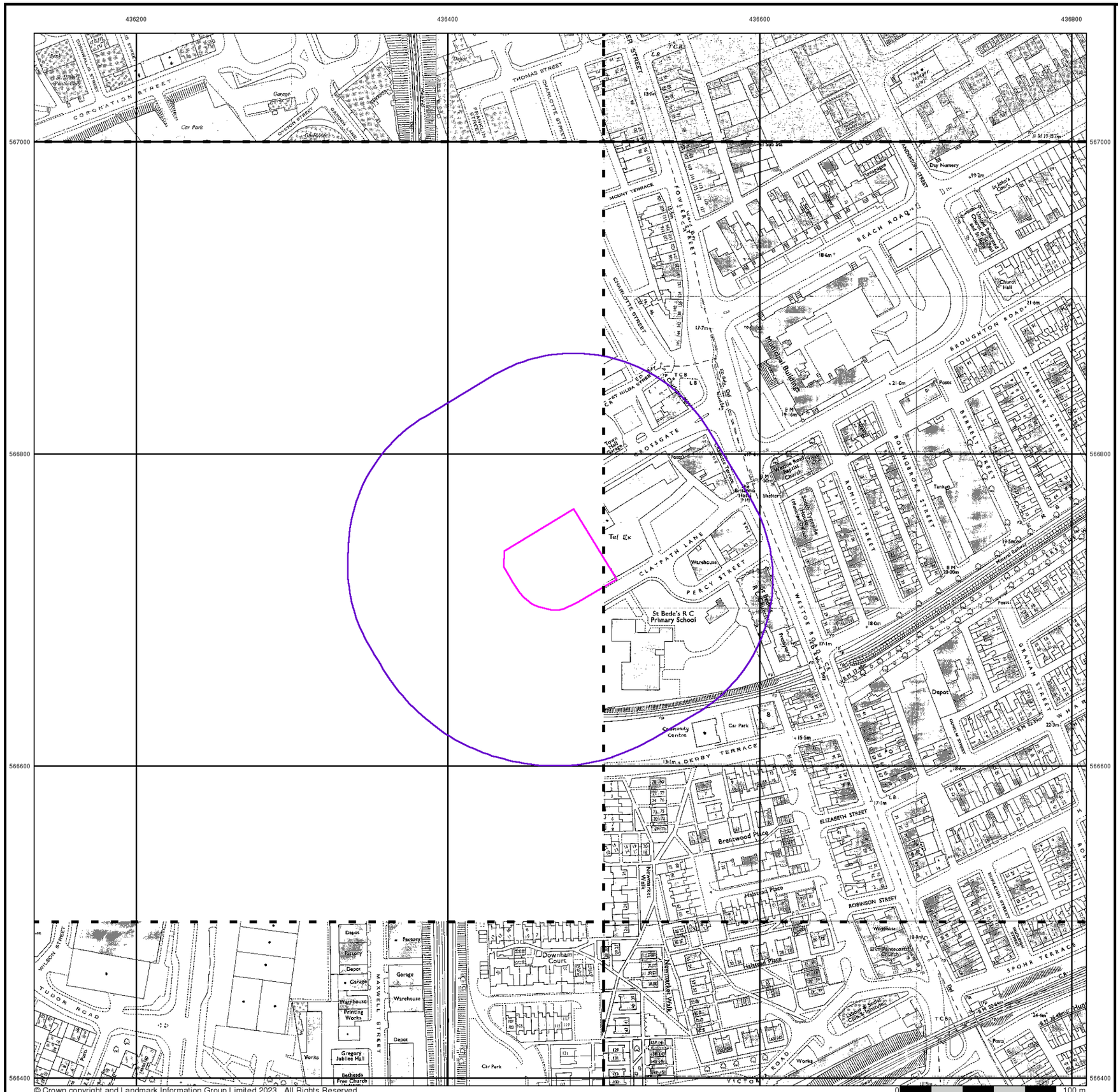
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Site Area (Ha):	0.29
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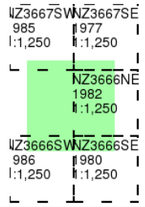
Additional SIMs

Published 1977 - 1986

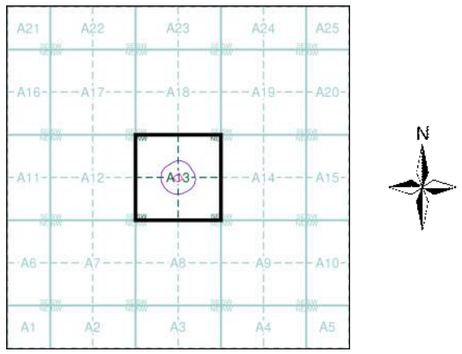
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

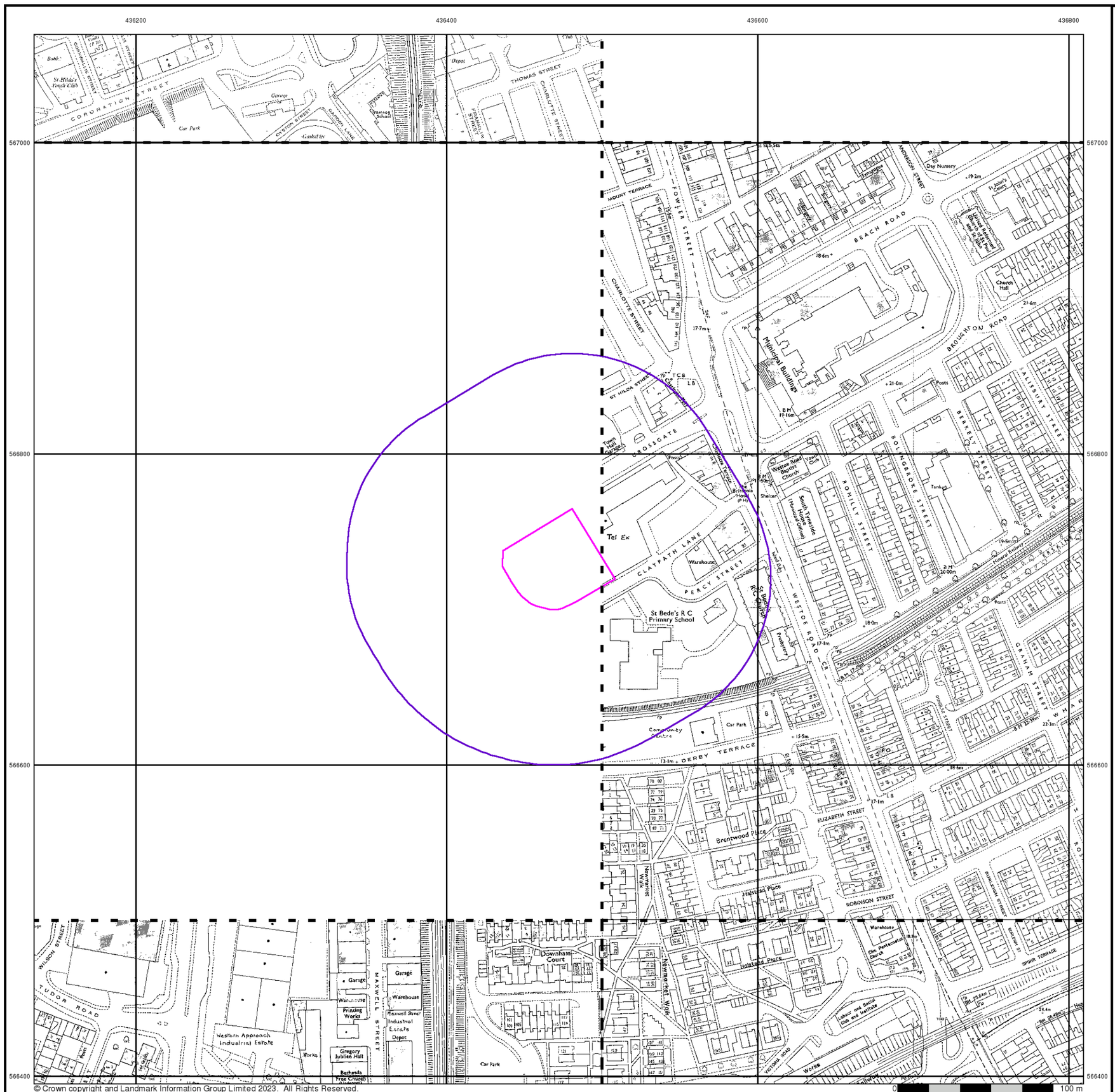
Order Number:	313523724_1_1
Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	100

Site Details

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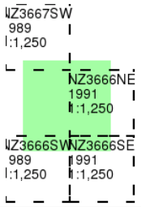
Additional SIMs

Published 1989 - 1991

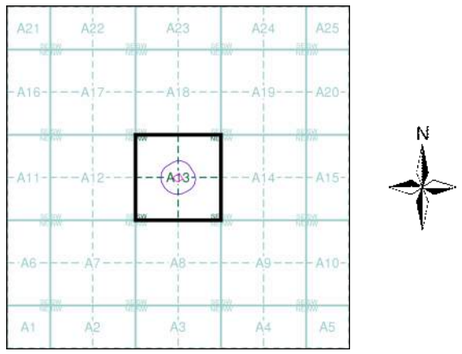
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

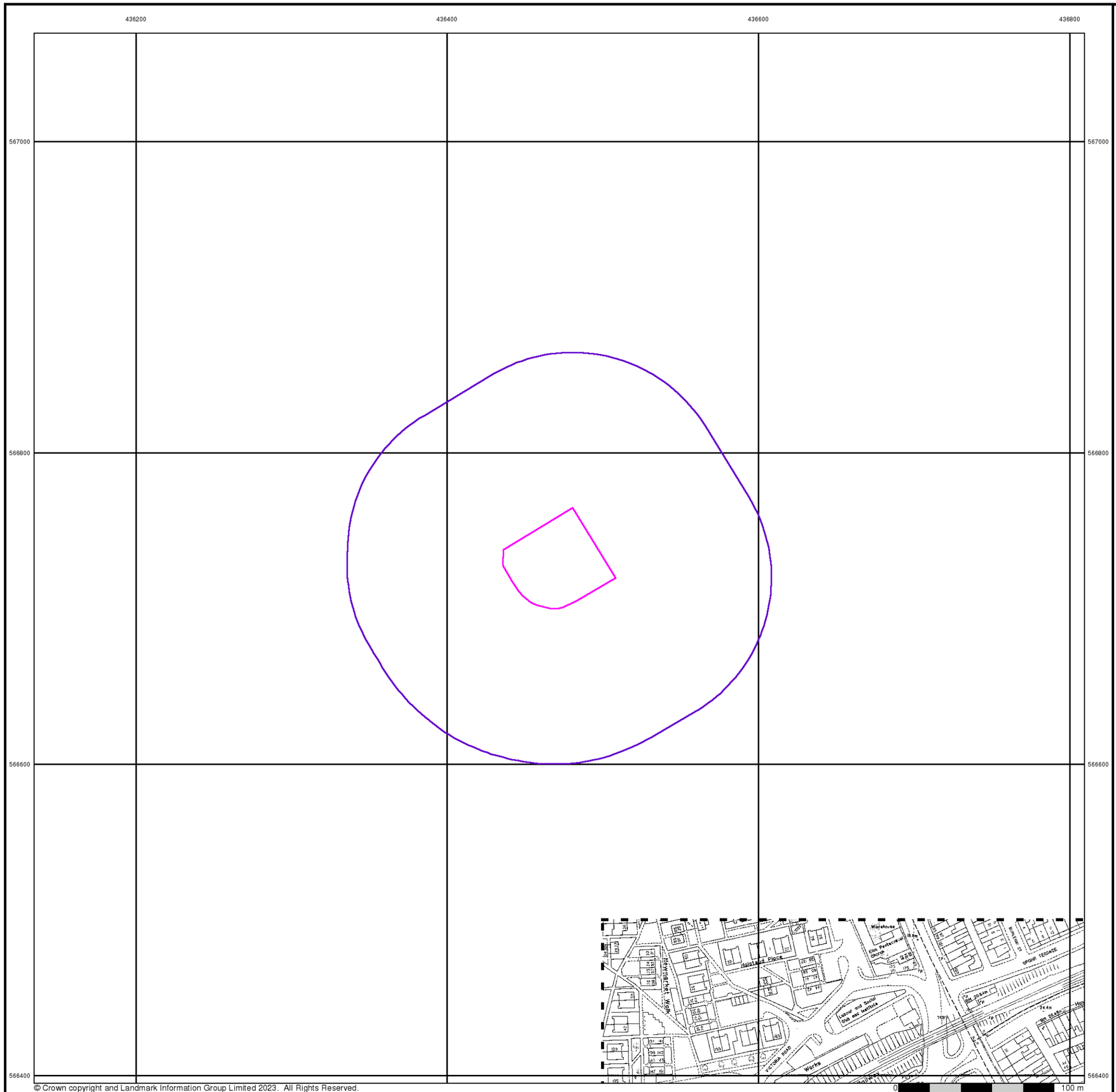
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Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	100

Site Details

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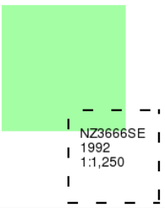
Additional SIMs

Published 1992

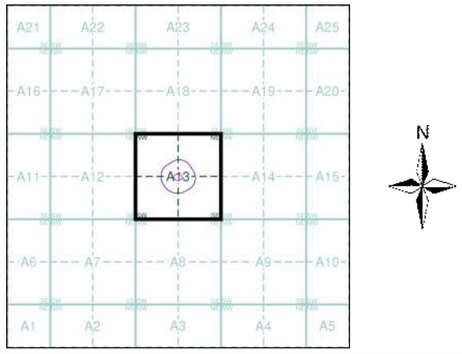
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

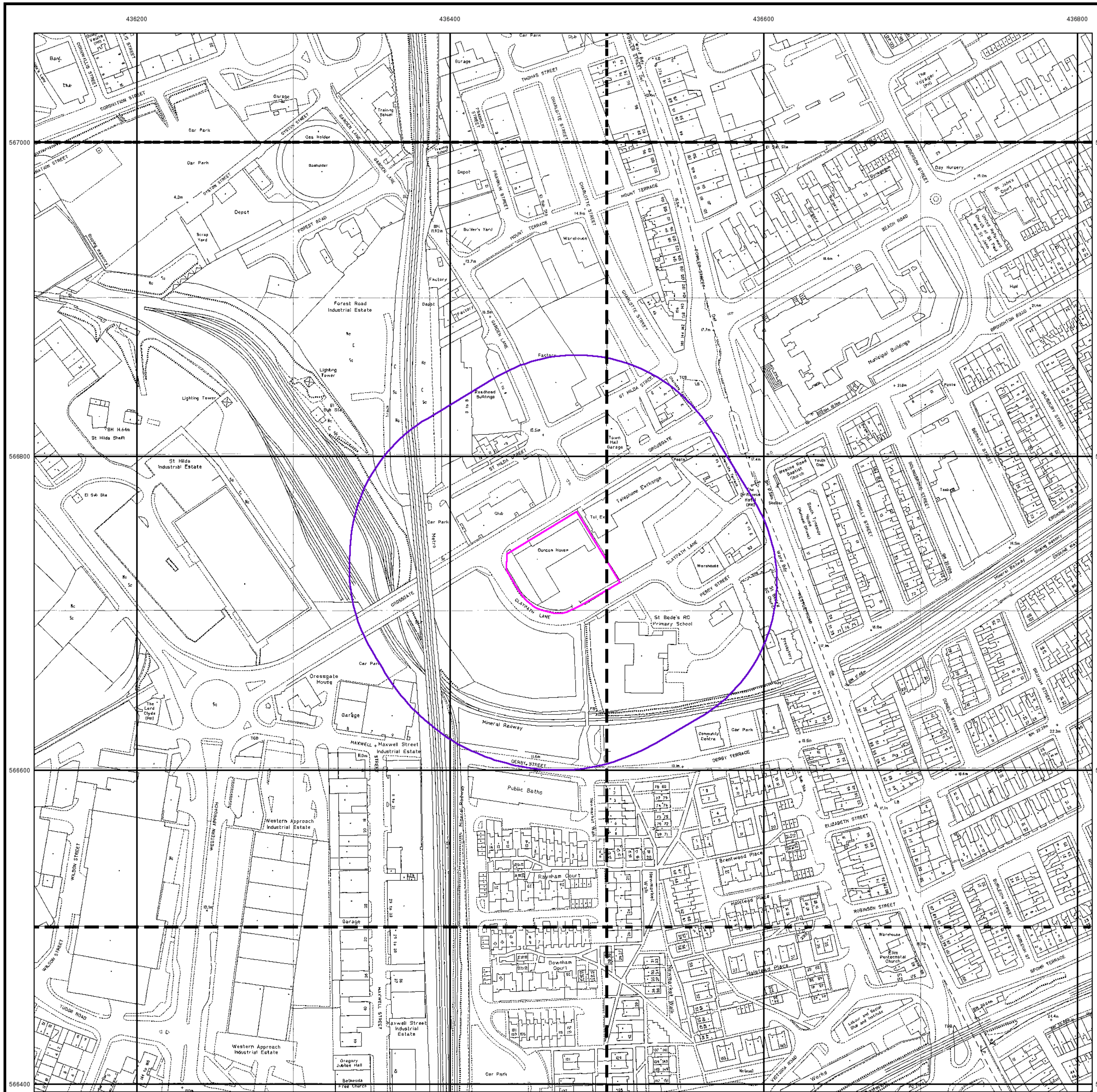
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Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	100

Site Details

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Large-Scale National Grid Data

Published 1993

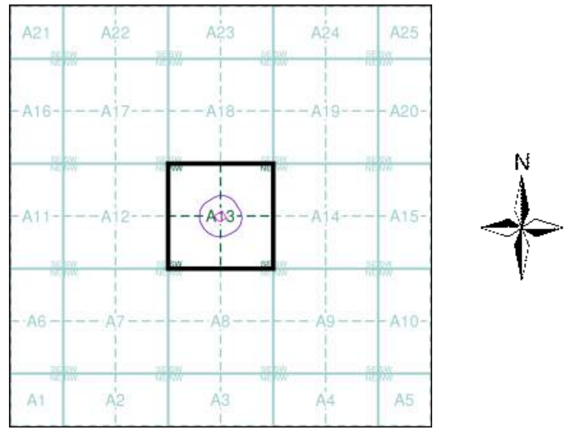
Source map scale - 1:1,250

'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)

NZ3667SW 1993 1:1,250	NZ3667SE 1993 1:1,250
NZ3666NW 1993 1:1,250	NZ3666NE 1993 1:1,250
NZ3666SW 1993 1:1,250	NZ3666SE 1993 1:1,250

Historical Map - Segment A13



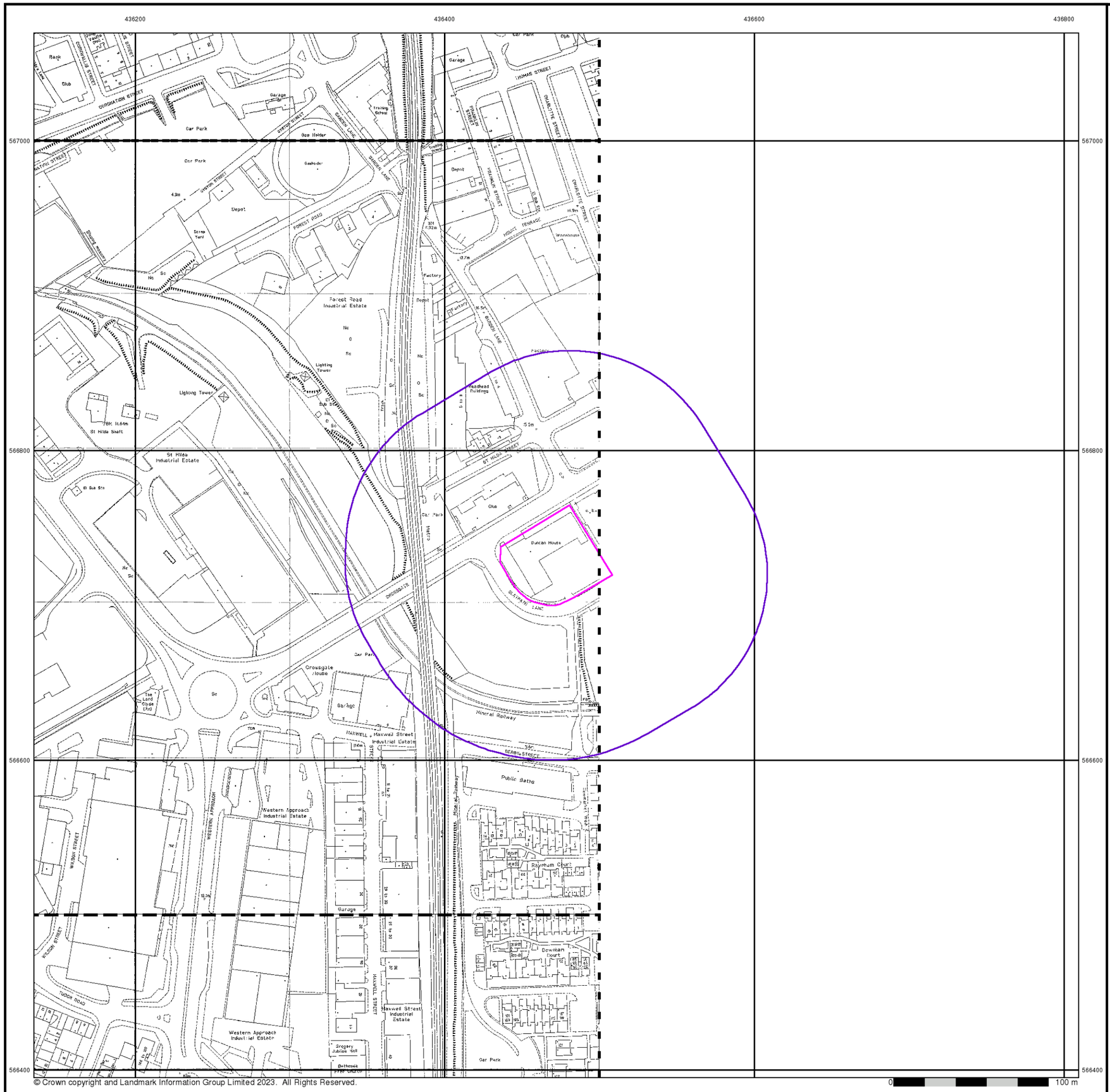
Order Details

Order Number: 313523724_1_1
Customer Ref: G23017
National Grid Reference: 436470, 566730
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1994 - 1995

Source map scale - 1:1,250

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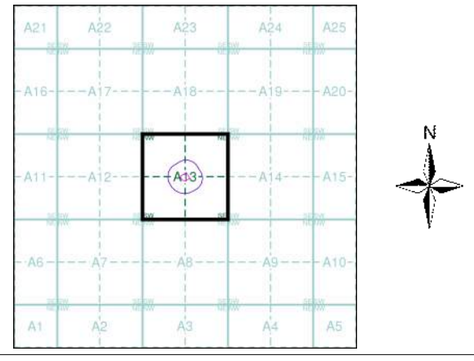
Map Name(s) and Date(s)

NZ3667SW
994
1:1,250

NZ3666NW
995
1:1,250

NZ3666SW
994
1:1,250

Historical Map - Segment A13



Order Details

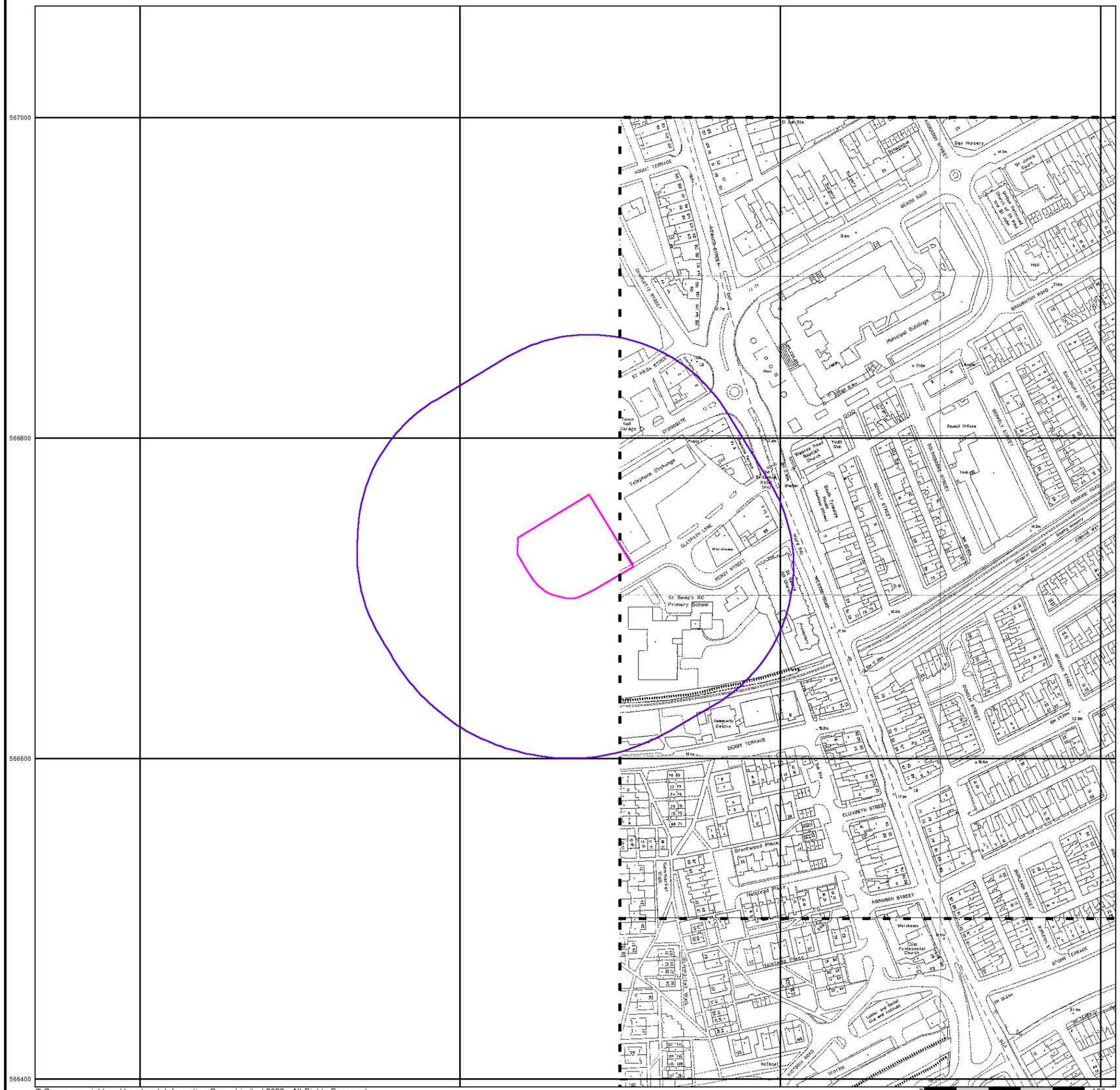
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Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	100

Site Details

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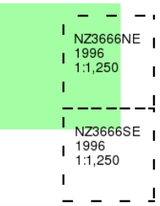
Large-Scale National Grid Data

Published 1996

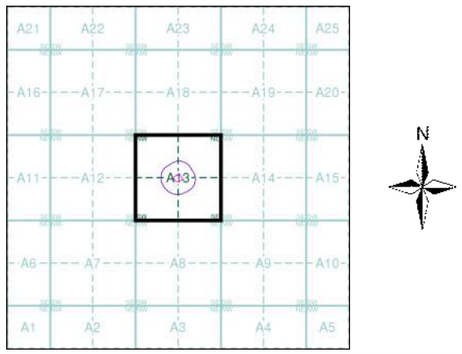
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

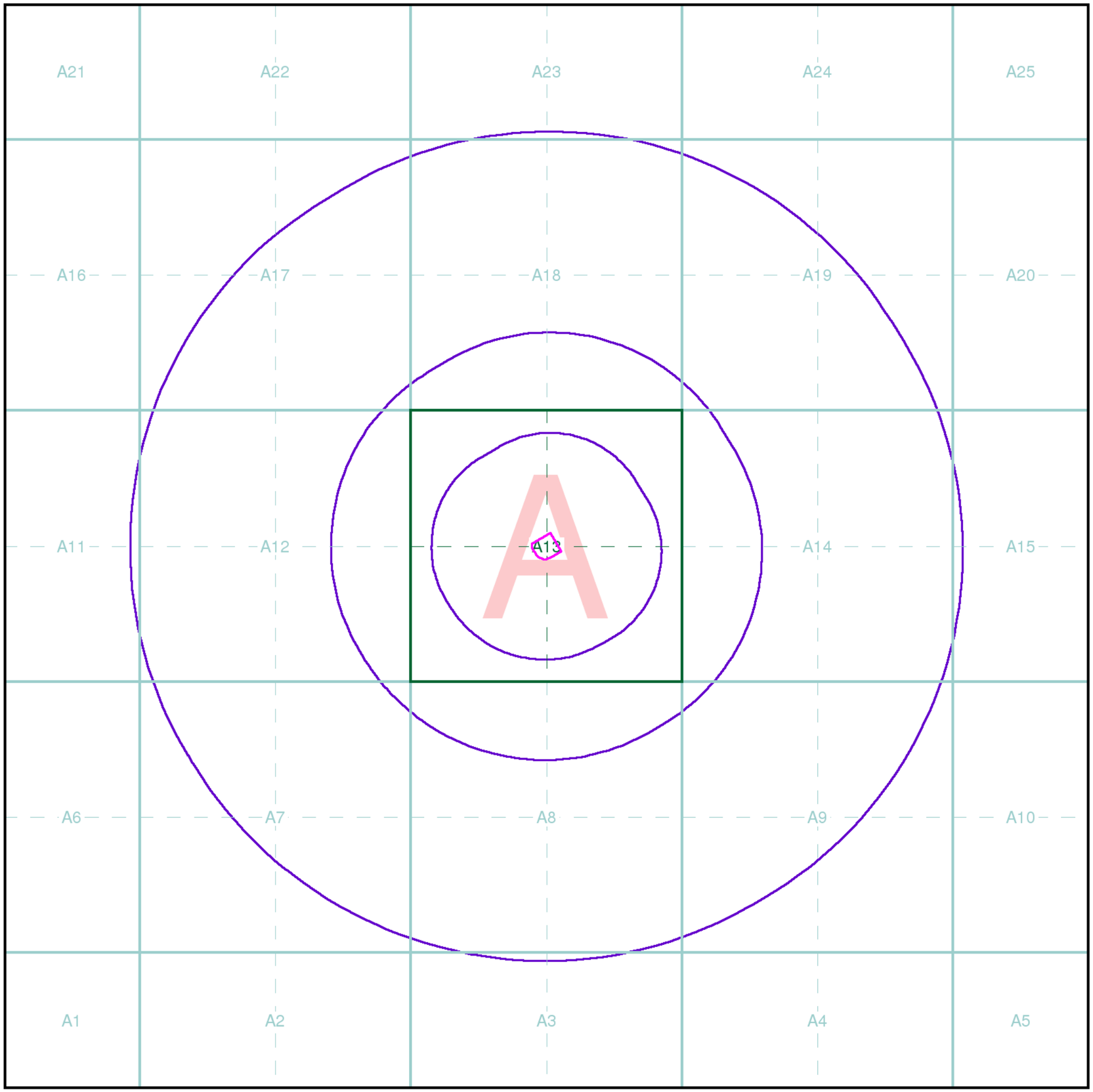
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Customer Ref:	G23017
National Grid Reference:	436470, 566730
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	100

Site Details

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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms A Baird, RWO Associates (Geotechnical) Ltd, Offices 5 & 6 Navigation House, 16 Ellerbeck Way, Stokesley, North Yorkshire, TS9 5JZ

Order Details

Order Number:	313523724_1_1
Customer Ref:	G23017
National Grid Reference:	436470, 566730
Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

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The Coal Authority

Consultants

Coal Mining Report

Crossgate
South Shields
South Tyneside
NE33 4PE

Date of enquiry:	**29 June 2023**
Date enquiry received:	**29 June 2023**
Issue date:	**29 June 2023**
Our reference:	**51003364168001**
Your reference:	**G23017**



Consultants

Coal Mining Report

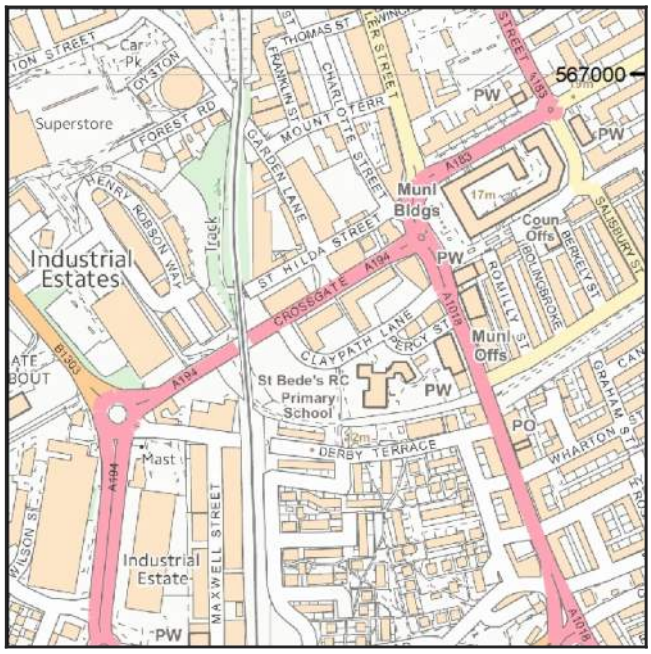
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

RWO ASSOCIATES (GEOTECHNICAL) LTD

Enquiry address

Crossgate
South Shields
South Tyneside
NE33 4PE



Approximate position of property

Map data

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How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

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

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
MANOR WALLSEND	HIGH MAIN	Coal	517O	150	Beneath Property	3.5	North	216	1825
WESTON	MAUDLIN	Coal	512W	225	Beneath Property	4.8	North	183	1925
WESTON	YARD	Coal	513L	227	South-East	2.2	South-West	100	1924
WESTON	BRASS THILL	Coal	3LU8	268	Beneath Property	1.2	North-West	110	1919
WESTON	HUTTON	Coal	3QCB	280	Beneath Property	2.4	South	203	1913

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

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

D389	11303	15028
0	16288	D841
D455	D1255	D27

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

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

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

Distance to gas incident/remediation (m)	Direction
303.0	East
276.3	East

See Section 4 for further information.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

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

Court orders
None recorded.

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

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

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

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

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Section 4 – Further information

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

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

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

Mine gas remedial works

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

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

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

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Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

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

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

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

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

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

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

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

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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

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

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

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

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

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

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

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

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

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The Coal Authority

Summary of findings

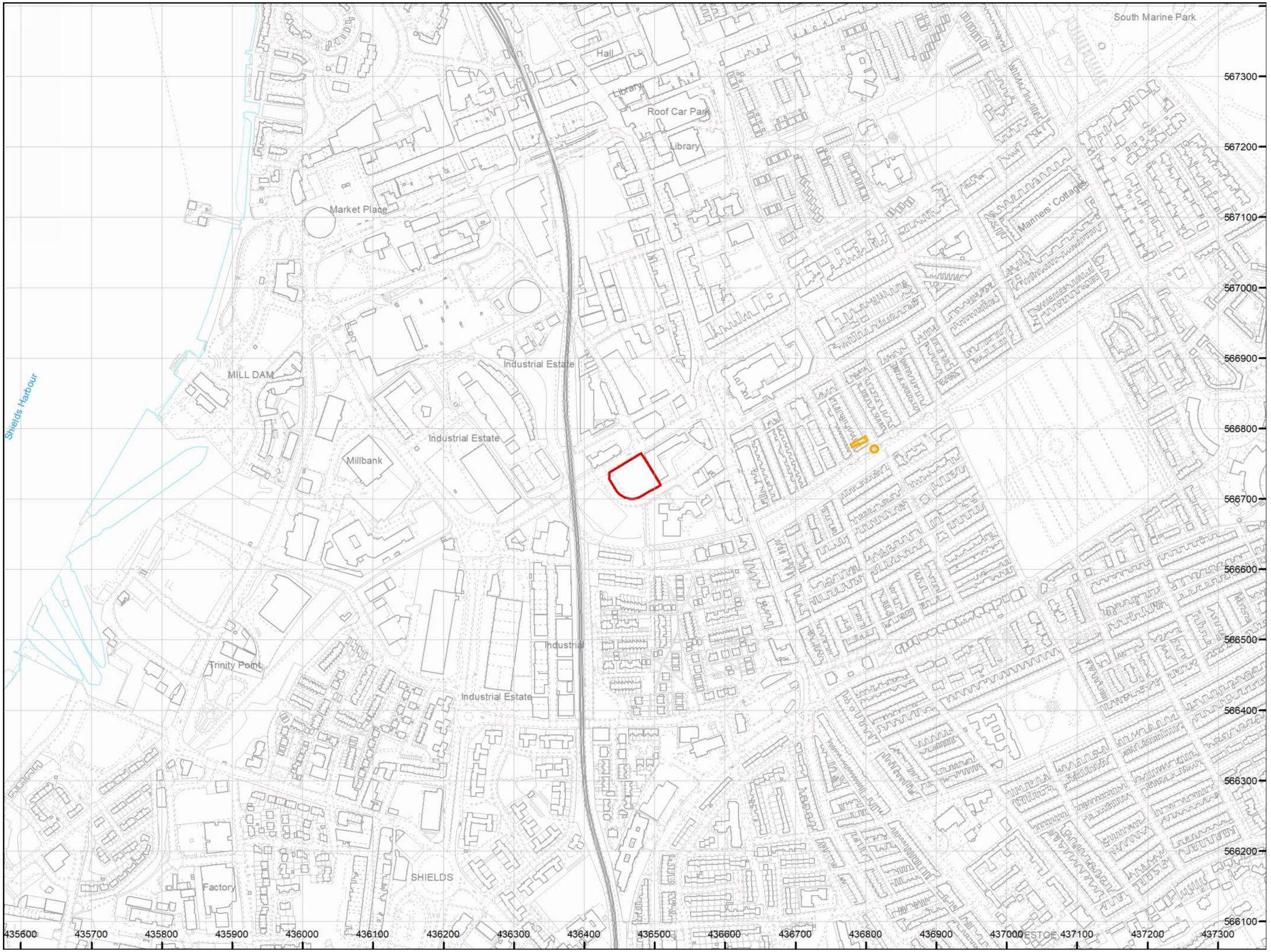
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The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown

Mine gas remedial works



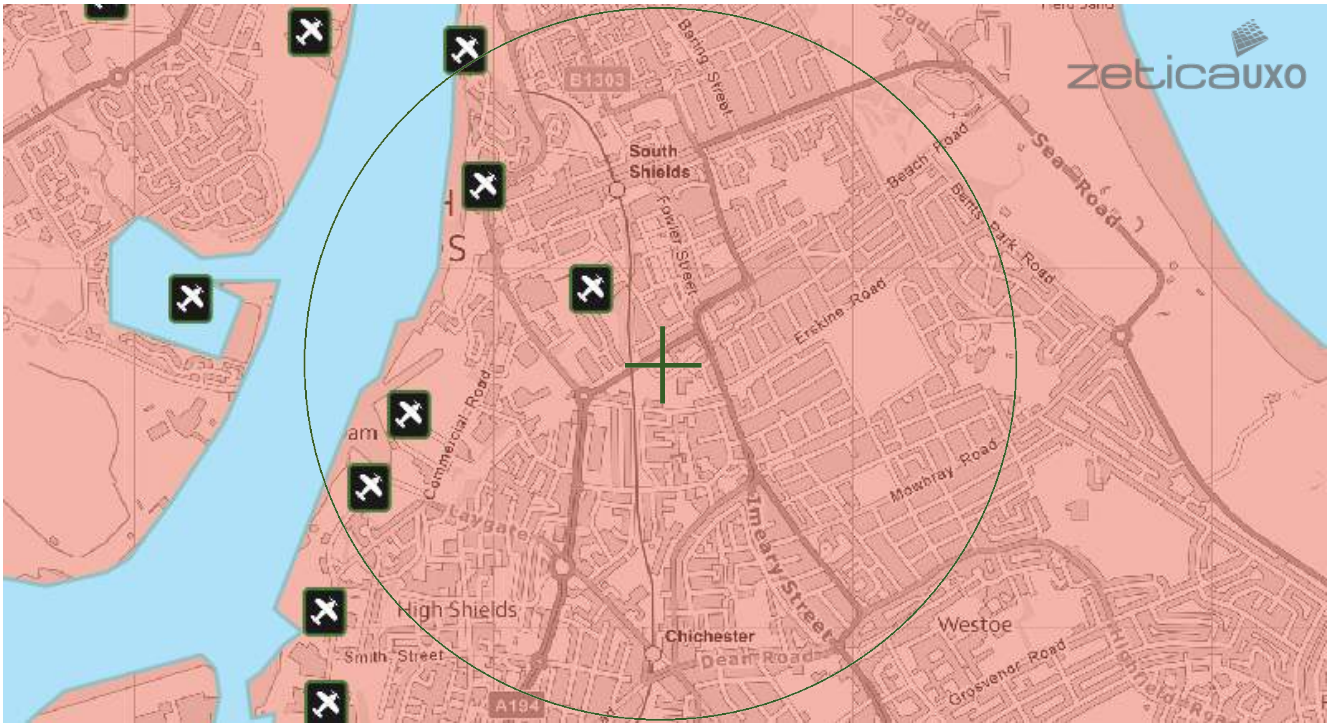
How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

Appendix C UXO Risk Map

UNEXPLODED BOMB RISK MAP

SITE LOCATION

Map Centre: 436476,566733



LEGEND

- **High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- **Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- **Low:** Areas indicated as having 15 bombs per 1000acre or less.

miltary	**industry**	**UXO find**
transport	**dock**	**Luftwaffe targets**
utilities	**Bombing decoy**	**other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: **(https://zeticauxo.com/downloads-and-resources/risk-maps/)**

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Pre-Desk Study Assessment

Site:	Claypath Lane, Southshields, Tyne & Wear
Client:	RWO Group
Contact:	Daniel Porritt
Date:	5th July 2023
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	None identified.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Shields Harbour. ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including engineering and metal works. ■ Royal Flying Corps (RFC) Cleadon, RFC Tynemouth and Royal Naval Air Service (RNAS) South Shields. ■ Military barracks, camps, and training areas. ■ Anti-Aircraft (AA) defences.
WWI Bombing	None identified on the Site.
Interwar Military Activity on or Affecting the Site	None identified.
WWII Military Activity on or Affecting the Site	None identified.
WWII Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Shields Harbour. ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including engineering and metal works. ■ Military camps and training areas. ■ AA and anti-invasion defences.
WWII Bombing Decoys (within 5km of Site)	1No. located approximately 4.7km east-southeast of the Site.
WWII Bombing	During WWII the Site was located in the County Borough (CB) of South Shields, which officially recorded 212No. High Explosive (HE) bombs with a bombing density of 51.6 bombs per 405 hectares (ha). Readily available records have been found to indicate that several HE bombs fell in close proximity to the Site.
Post-WWII Military Activity on or Affecting the Site	None identified.
Recommendation	It is recommended that a detailed desk study is commissioned to assess, and potentially zone, the Unexploded Ordnance (UXO) hazard level on the Site.

Further information	For information about Zetica's detailed UXO desk studies and other UXO services, please visit our website: www.zeticauxo.com. Details and downloadable resources covering the most common sources of UXO hazard affecting sites in the UK can be found **here**. If you have any further queries, please don't hesitate to get in contact with us at uxo@zetica.com or 01993 886 682.

This summary is based on a cursory review of readily available records. Caution is advised if you plan to action work based on this summary.

It should be noted that where a potentially significant source of UXO hazard has been identified on the Site, the requirement for a detailed desk study and risk assessment has been confirmed and no further research will be undertaken at this stage. It is possible that further in-depth research as part of a detailed UXO desk study and risk assessment may identify other potential sources of UXO hazard on the Site.

Appendix D RWOs Risk Assessment and CSM Process

RWO'S RISK ASSESSMENT AND CONCEPTUAL SITE MODEL PROCESS

The following pages outline RWO Associates Ltd's (RWO's) approach to the Risk Assessment (RA) and derivation of Conceptual Site Models (CSMs) processes for sites in general compliance with in various guidance documents and standards which includes: BS10175:2011+A2:2017 - Investigation of potentially contaminated sites, BS EN ISO 21365:2020 – Soil quality – Conceptual site models for potentially contaminated sites, CIRIA C552 - Contaminated land risk assessment - A guide to good practice, the Environmental Agency (EA) Land Contamination Risk Management (LCRM) web pages and the National Planning Policy Framework (NPPF).

The Preliminary (desk study) and Revised (post intrusive ground investigation) Conceptual Site Models (CSMs) consider the Source(hazard)-Pathway-Receptor linkages present alongside the probability, consequence and risk level as defined within the tables below to establish if there is the potential for unacceptable risk.

Identification of potential contaminant linkages process

Identify potential site specific sources, pathways and receptors (S-P-R).

A contaminant linkage must be present for there to be a S-P-R relationship. Without a linkage, there is not a risk – even if a contaminant is present.

Conceptual Site Models (CSMs)

The information collected from the desk study and/or from intrusive ground investigation is used to develop the conceptual site model.

A conceptual site model is a representation of the characteristics of the site. It shows the possible relationships between contaminant sources, pathways and receptors.

The conceptual site model can be presented in different ways, such as a:

- written description of the site;
- tabular or matrix description/assessment: or; and
- drawing or other diagrammatic illustration.

One or more of these formats may be used or combined.

CSMs will show:

- contaminant linkages – presence and relationship between contaminants, preferential pathways and receptors;
- the subsurface – geology and hydrogeology; and
- more detailed information as it becomes available such as complex flow regimes and solute transport mechanisms.

CSMs can also determine and show:

- what risks (high, moderate or low) may result from the identified contaminant linkages;
- uncertainties and gaps in information and any further assessment needed to address them; and
- Any requirement for remediation.

RISK DEFINITIONS

The following tables define consequences to receptors, probability and the risk matrix process.

Consequence to Receptors

Consequence	Human Health	Controlled Waters	Buildings
Severe	Acute risk to the human health likely to result in significant and/or permanent harm.	Sensitive controlled water pollution ongoing, or just about to occur with potential for irreversible effect.	Catastrophic damage to buildings / property.
Moderate	Chronic permanent impact on human health	Gradual pollution of sensitive controlled water	Degradation of materials
Mild	Chronic short-term impact on human health	Gradual pollution of low sensitivity Controlled water.	Some noticeable change, but non-structural

Probability Definitions

Probability	Explanation
High	Definitive evidence of source, pathway and receptor.
Moderate	Suspected source, pathway, receptor.
Low	No evidence of source, pathway, receptor.

Risk Assessment Matrix

	Severe Consequence	Moderate Consequence	Mild Consequence
High Probability	Very High Risk	High Risk	Moderate Risk
Moderate Probability	High Risk	Moderate Risk	Low Risk
Low Probability	Moderate Risk	Low Risk	Very Low Risk

Risk Matrix Definitions

Matrix Assessment	Explanation
Very High Risk	Severe consequence source, high likelihood of source, pathway and receptor linkage.
High	Moderate source, definitive evidence of source, pathway and receptor linkage; or Severe consequence source, moderate likelihood of source, pathway and receptor linkage.
Moderate	Severe consequence source, low likelihood of source, pathway and receptor linkage; Moderate consequence source, moderate likelihood of source, pathway and receptor linkage; or Mild consequence source, high likelihood of source, pathway and receptor linkage.
Low	Moderate source, no evidence of source, pathway, receptor linkage; or Mild source with suspected source, pathway, receptor linkage.
Very Low Risk	No significant source, no evidence of source, pathway, receptor linkage

Appendix E Geology Legend, Exploratory Hole Logs and SPT Calibration Certificates

Percussion Drilling Log

Project Name: Crossgate	Client: Modo Bloc Ltd	Date: 18/07/2023 - 20/07/2023
Location: Claypath Lane, South Shields	Contractor: Clay Drilling Ltd	Co-ords: E436457.00 N566722.00
Project No. : G23017	Crew Name: Paul Kirsop, Brad Chapman	Drilling Equipment: Dando 4000+Beretta T41

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
CP01	CP+RC	14.00m AoD	D Porritt	1:50	Sheet 1 of 2

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30	13.70		Grey reinforced CONCRETE.
					0.50	13.50		MADE GROUND: light brown sandy subangular fine to coarse gravel of dolomite (sub base).
								MADE GROUND: Reddish brown sandy gravelly cobbles of brick and concrete. Gravel is angular to subangular fine to coarse of brick fragments, concrete, coal and clinker.
					1.70	12.30		
		1.80 - 2.25	D					MADE GROUND: Dark grey gravelly fine to coarse sand with a low subangular cobble content of brick. Gravel is angular to subangular fine to coarse of brick, concrete, coal and ash.
		1.80	SPT	N=11 (2,2/2,3,3,3)				
		2.00	ES					
		2.80	ES					
		2.90 - 3.35	D		2.90	11.10		MADE GROUND: Firm greyish brown and dark grey sandy gravelly clay. Gravel is angular to subangular fine to coarse of brick, concrete, coal and mudstone.
		2.90	SPT	N=4 (1,2/1,1,1,1)				
		3.80	ES					
		3.90 - 4.35	D					
		3.90	SPT	N=10 (2,3/2,2,3,3)				
		4.50 - 4.80	B		4.50	9.50		Firm to stiff brown grey sandy CLAY of high plasticity.
		4.60	D					
		4.80	ES					
		4.90 - 5.35	U	Ublow=20				*Triaxial Result = 33kPa.*
		5.35 - 5.55	D					
		6.00 - 6.45	B					
		6.00 - 6.45	D					
		6.00	SPT	N=10 (2,2/3,2,3,2)				
		7.50 - 7.95	U	Ublow=22				*Triaxial Result = 61kPa.*
		7.95 - 8.15	D					
		9.20 - 9.50	B		9.20	4.80		Stiff grey slightly sandy slightly gravelly CLAY of intermediate plasticity. Gravel is subangular to rounded fine to coarse of mudstone, sandstone, limestone, quartzite and coal.
		9.30	D					
		9.50 - 9.95	B					
		9.50 - 9.95	D					

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
11.50	150	4.50	150								
17.50	105										

Remarks

1. The borehole location was scanned at surface and at the base of a hand dug inspection pit by RWO using a Cable Avoidance Tool (CAT).
2. The borehole location was also scanned at surface and downhole in stages by a certified UXO Specialist.

Percussion Drilling Log

Project Name: Crossgate	Client: Modo Bloc Ltd	Date: 18/07/2023 - 20/07/2023
Location: Claypath Lane, South Shields	Contractor: Clay Drilling Ltd	Co-ords: E436457.00 N566722.00
Project No. : G23017	Crew Name: Paul Kirsop, Brad Chapman	Drilling Equipment: Dando 4000+Beretta T41

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
CP01	CP+RC	14.00m AoD	D Porritt	1:50	Sheet 2 of 2

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		9.50	SPT	N=30 (3,5/6,6,8,10)				Stiff grey slightly sandy slightly gravelly CLAY of intermediate plasticity. Gravel is subangular to rounded fine to coarse of mudstone, sandstone, limestone, quartzite and coal.
		10.80	D		10.80	3.20		
		10.80 - 11.00	B					Very weak light grey thickly laminated MUDSTONE.
		11.00 - 11.35	B					
		11.00 - 11.35	D					
		11.00	SPT	50 (7,9/50 for 195mm)				
		11.50	SPT	50 (25 for 75mm/50 for 25mm) 105mm				
			6		12.14	1.86		
		11.50 - 13.00		97 91 76	12.30	1.70		Black non-intact bituminous COAL.
			5		12.64	1.36		Very weak light grey thinly laminated MUDSTONE.
				105mm				Very weak reddish brown thickly laminated to thinly bedded MUDSTONE and SILTSTONE.
								Thinly laminated.
		13.00 - 14.50		100 92 53	13.62	0.38		
			5					Medium strong to strong reddish brown thinly to thickly bedded medium to coarse grained micaceous SANDSTONE.
				105mm				
			9					
		14.50 - 16.00		76 76 68				
			8					
				105mm				
			2		16.13	-2.13		Strong orangish brown thinly to thickly bedded coarse grained SANDSTONE.
		16.00 - 17.50		100 100 100				
			2					*Slight reddish brown tinge.*
					17.50	-3.50		End of Borehole at 17.500m
			Type/FI	TCR SCR RQD	D/R/(SPT)			

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
11.50 17.50	150 105	4.50	150								

Remarks

1. The borehole location was scanned at surface and at the base of a hand dug inspection pit by RWO using a Cable Avoidance Tool (CAT).
2. The borehole location was also scanned at surface and downhole in stages by a certified UXO Specialist.

Header Sheet

Project Name: Crossgate		Client: Modo Bloc Ltd		Date: 18/07/2023 - 20/07/2023	
Location: Claypath Lane, South Shields		Contractor: Clay Drilling Ltd		Co-ords: E436457.00 N566722.00	
Project No.: G23017		Crew Name: Paul Kirsop, Brad Chapman		Drilling Equipment: Dando 4000+Beretta T41	
Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
CP01	CP+RC	14.00m AoD	D Porritt	1:50	Sheet 1 of 1



Core Runs: 11.50m-14.50m



Core Runs: 14.50m-17.50m

Percussion Drilling Log

Project Name: Crossgate	Client: Modo Bloc Ltd	Date: 17/07/2023 - 18/07/2023
Location: Claypath Lane, South Shields	Contractor: Clay Drilling Ltd	Co-ords: E436482.00 N566738.00
Project No. : G23017	Crew Name: Paul Kirsop, Brad Chapman	Drilling Equipment: Dando 4000

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
CP02A	CP	13.00m AoD	D Porritt	1:50	Sheet 1 of 2

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10	12.90		Dark grey TARMACADAM.
		0.30	D		0.25	12.75		MADE GROUND: light brown sandy subangular fine to coarse gravel of dolomite (sub base).
		0.50	ES					MADE GROUND: Dark grey and brown slightly clayey gravelly fine to coarse sand with a medium subangular cobble content of brick. Gravel is angular to subangular fine to coarse of brick, ash, concrete, ceramic, coal, clinker and sandstone.
		1.00	D		0.90	12.10		
		1.20 - 1.65	D					MADE GROUND: Light brown mottled grey clayey medium sand.
		1.20	SPT	N=9 (3 for 84mm/2,2,2,3)	1.40	11.60		MADE GROUND: Firm dark grey and brown sandy gravelly clay. Gravel is angular to subangular fine to coarse of brick fragments, concrete, clinker, coal and sandstone.
		1.50	ES					
		2.00 - 2.45	D					
		2.00	SPT	N=2 (1,0/1,0,0,1)				
		2.50	ES					
		3.00 - 3.45	D					
		3.00	SPT	N=6 (1,1/1,2,2,1)				
		3.50	ES					
		4.00 - 4.45	D					
		4.00 - 4.50	B		4.10	8.90		Firm to stiff greyish brown sandy CLAY of high plasticity.
		4.00	SPT	N=9 (2,1/2,2,2,3)				
		4.50	ES					
		5.00 - 5.65	U	Ublow=18				
		5.70 - 6.15	B					
		5.70 - 6.15	D					
		5.70	SPT	N=13 (2,2/3,3,4,3)				
		6.50 - 6.95	B					
		6.50 - 6.95	D					
		6.50	SPT	N=11 (5,2/3,3,2,3)				
		8.00 - 8.45	U	Ublow=22				*Triaxial Result = 61kPa.*
		8.45 - 8.65	D		8.50	4.50		Stiff greyish brown slightly gravelly sandy CLAY of low plasticity. Gravel is angular to subrounded fine to coarse of mudstone, sandstone and coal.
		8.70 - 9.00	B					
		9.50 - 9.95	B					
		9.50 - 9.95	D					
		9.50	SPT	N=43 (10,5/9,10,12,12)				

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
11.28	150	6.10	150								

Remarks

1. The borehole location was scanned at surface and at the base of a hand dug inspection pit by RWO using a Cable Avoidance Tool (CAT).
2. The borehole location was also scanned at surface and downhole in stages by a certified UXO Specialist.

Percussion Drilling Log

Project Name: Crossgate	Client: Modo Bloc Ltd	Date: 17/07/2023 - 18/07/2023
Location: Claypath Lane, South Shields	Contractor: Clay Drilling Ltd	Co-ords: E436482.00 N566738.00
Project No. : G23017	Crew Name: Paul Kirsop, Brad Chapman	Drilling Equipment: Dando 4000

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
CP02A	CP	13.00m AoD	D Porritt	1:50	Sheet 2 of 2

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.10 - 10.40	B		10.10	2.90		Stiff greyish brown slightly gravelly sandy CLAY of low plasticity. Gravel is angular to subrounded fine to coarse of mudstone, sandstone and coal. Very weak light grey MUDSTONE.
		10.20	D					
		10.90 - 11.28	D					
		10.90	SPT	N=50 (25 for 130mm/50 for 230mm)	11.28	1.72		End of Borehole at 11.280m

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
11.28	150	6.10	150								

Remarks

1. The borehole location was scanned at surface and at the base of a hand dug inspection pit by RWO using a Cable Avoidance Tool (CAT).
2. The borehole location was also scanned at surface and downhole in stages by a certified UXO Specialist.

Percussion Drilling Log

Project Name: Crossgate	Client: Modo Bloc Ltd	Date: 18/07/2023 - 20/07/2023
Location: Claypath Lane, South Shields	Contractor: Clay Drilling Ltd	Co-ords: E436491.00 N566732.00
Project No. : G23017	Crew Name: Paul Kirsop, Brad Chapman	Drilling Equipment: Dando 4000+Beretta T41

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
CP03	CP+RC	13.00m AoD	D Porritt	1:50	Sheet 1 of 2

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.10	12.90		Dark grey TARMACADAM.
					0.30	12.70		MADE GROUND: light brown sandy subangular fine to coarse gravel of dolomite (sub base).
		0.50	D					MADE GROUND: Dark grey and brown angular to subangular fine to coarse gravel of brick fragments, concrete, breezeblock fragments, ash, mudstone and coal.
		0.50	ES					
		1.20 - 1.65	D					
		1.20	SPT	N=2 (1,1/0,1,0,1)				
		1.50	ES					
					1.90	11.10		
		2.00 - 2.45	B					MADE GROUND: Firm greyish brown and dark grey sandy gravelly clay. Gravel is angular to subrounded fine to coarse of brick fragments, clinker, coal and sandstone.
		2.00 - 2.45	D					
		2.00	SPT	N=3 (1,1/0,1,1,1)				
		2.50	ES					
		3.00 - 3.45	D					
		3.00	SPT	N=12 (5,3/2,3,4,3)				
					3.30	9.70		Stiff greyish brown slightly sandy silty CLAY of high plasticity.
		3.50	ES					
		3.50 - 3.80	B					
		4.00 - 4.45	U	Ublow=26				*Triaxial Result = 38kPa.*
		4.45 - 4.65	D					
		5.00 - 5.45	B					
		5.00 - 5.45	D					
		5.00	SPT	N=12 (2,3/2,3,4,3)				
		6.50 - 6.95	U	Ublow=28				*Triaxial Result = 79kPa.*
		6.95 - 7.15	D					
		7.20 - 7.50	B		7.00	6.00		Stiff greyish brown slightly gravelly sandy CLAY of low to intermediate plasticity. Gravel is angular to subrounded fine to coarse of mudstone, sandstone and coal.
		8.00 - 8.45	B					
		8.00 - 8.45	D					
		8.00	SPT	N=20 (3,4/5,4,5,6)				
		9.00	D					
		9.00 - 9.40	B		8.90	4.10		Very weak light grey MUDSTONE.
		9.50 - 9.95	B					
		9.50 - 9.95	D					

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
11.90	150	4.50	150								
17.90	105										

Remarks

1. The borehole location was scanned at surface and at the base of a hand dug inspection pit by RWO using a Cable Avoidance Tool (CAT).
2. The borehole location was also scanned at surface and downhole in stages by a certified UXO Specialist.

Percussion Drilling Log

Project Name: Crossgate	Client: Modo Bloc Ltd	Date: 18/07/2023 - 20/07/2023
Location: Claypath Lane, South Shields	Contractor: Clay Drilling Ltd	Co-ords: E436491.00 N566732.00
Project No. : G23017	Crew Name: Paul Kirsop, Brad Chapman	Drilling Equipment: Dando 4000+Beretta T41

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
CP03	CP+RC	13.00m AoD	D Porritt	1:50	Sheet 2 of 2

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	TCR	SCR	RQD	D/R/(SPT)	Depth (m)	Level (m)	Legend	Stratum Description
		9.50	SPT	N=50 (6,8/50 for 290mm)								Very weak light grey MUDSTONE.
		11.00 - 11.43	D									
		11.00 - 11.50	B									
		11.00	SPT	N=50 (6,8/50 for 285mm)								
		11.80 - 11.92	D									
		11.80	SPT	50 (25 for 65mm/50 for 55mm)				105mm	11.90	1.10		Very weak reddish brown thickly laminated to thinly bedded MUDSTONE and SILTSTONE.
		11.90 - 13.40	8, 10, 10		100	60	50		13.04	-0.04		Medium strong thinly to thickly bedded orangish brown medium grained SANDSTONE.
		13.40 - 14.90	8, 5, 10, 10		100	42	33	105mm	13.75	-0.75		Medium strong to strong thinly to thickly laminated reddish brown micaceous medium to coarse grained SANDSTONE.
		14.90 - 16.40	7		100	35	6	105mm	15.10	-2.10		Strong orangish brown thinly to thickly bedded coarse grained SANDSTONE. Heavily fractured with frequent discontinuities, Occasional laminations of reddish brown coarse grained sandstone. *Subvertical discontinuity (approx 85 degrees) with reddish brown staining on fracture surface.*
		16.40 - 17.90	9, 3		100	75	55	105mm				*Subvertical discontinuity (approx 85 degrees).*
									17.90	-4.90		End of Borehole at 17.900m
			Type/FI	TCR	SCR	RQD	D/R/(SPT)					

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
11.90 17.90	150 105	4.50	150								

Remarks

1. The borehole location was scanned at surface and at the base of a hand dug inspection pit by RWO using a Cable Avoidance Tool (CAT).
2. The borehole location was also scanned at surface and downhole in stages by a certified UXO Specialist.

Header Sheet

Project Name: Crossgate		Client: Modo Bloc Ltd		Date: 18/07/2023 - 20/07/2023	
Location: Claypath Lane, South Shields		Contractor: Clay Drilling Ltd		Co-ords: E436491.00 N566732.00	
Project No.: G23017		Crew Name: Paul Kirsop, Brad Chapman		Drilling Equipment: Dando 4000+Beretta T41	
Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
CP03	CP+RC	13.00m AoD	D Porritt	1:50	Sheet 1 of 1



Core Runs: 11.90m-14.90m



Core Runs: 14.90m-17.90m

Trial Pit Log

Project Name: Crossgate	Client: Modo Bloc Ltd	Date: 17/07/2023
Location: Claypath Lane, South Shields	Contractor: Clay Drilling Ltd	Co-ords: E436450.00 N566730.00
Project No. : G23017	Crew Name: D Porritt	Equipment: 8T 360

Location Number	Location Type	Level	Logged By	Scale	Page Number
TP01	TP	14.00m AoD	D Porritt	1:25	Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.50	ES					MADE GROUND: Grey gravelly fine to coarse sand with a high subangular cobble content of concrete with rebar.
					0.80	14.00		Grey reinforced CONCRETE.
					1.10	13.20		MADE GROUND: Reddish brown sandy gravelly cobbles and boulders of brick, sandstone and concrete. Gravel is angular to subangular fine to coarse of concrete, brick, sandstone and coal.
					1.80	12.90		MADE GROUND: Dark grey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of brick fragments, concrete, ash and concrete.
		2.00	ES					
					2.90	12.20		End of Borehole at 2.900m

1 2 3 4 5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
3.50	0.70	Unstable from 1.10m to base of pit.					

Remarks

1. The trial pit location was scanned at surface by RWO using a Cable Avoidance Tool (CAT) prior to excavation.
2. The trial pit location was also scanned at surface and downhole in stages by a certified UXO Specialist.

Header Sheet

Project Name: Crossgate		Client: Modo Bloc Ltd		Date: 17/07/2023	
Location: Claypath Lane, South Shields		Contractor: Clay Drilling Ltd		Co-ords: E436450.00 N566730.00	
Project No.: G23017		Crew Name: D Porritt		Drilling Equipment: 8T 360	
Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
TP01	TP	14.00m AoD	D Porritt	1:50	Sheet 1 of 1



Pit



Pit (2)

Trial Pit Log

Project Name: Crossgate	Client: Modo Bloc Ltd	Date: 17/07/2023
Location: Claypath Lane, South Shields	Contractor: Clay Drilling Ltd	Co-ords: E436466.00 N566720.00
Project No. : G23017	Crew Name: D Porritt	Equipment: 8T 360

Location Number	Location Type	Level	Logged By	Scale	Page Number
TP02	TP	13.00m AoD	D Porritt	1:25	Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10	13.00		Dark grey TARMACADAM.
								MADE GROUND: light brown sandy subangular fine to coarse gravel of dolomite (sub base).
					0.55	12.90		
		0.70	ES					MADE GROUND: Dark grey gravelly fine to coarse sand with a high subangular cobble content of brick and concrete. Gravel is angular to subangular fine to coarse of brick, concrete, ash and coal.
					1.30	12.45		End of Borehole at 1.300m

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
3.50	0.70	Stable					

Remarks

1. The trial pit location was scanned at surface by RWO using a Cable Avoidance Tool (CAT) prior to excavation.
2. The TP was terminated 1.30m due to encountering a potentially redundant duct of cables at 1.20m and concern for further services.
3. The trial pit location was also scanned at surface and downhole in stages by a certified UXO Specialist.

Header Sheet

Project Name: Crossgate		Client: Modo Bloc Ltd		Date: 17/07/2023	
Location: Claypath Lane, South Shields		Contractor: Clay Drilling Ltd		Co-ords: E436466.00 N566720.00	
Project No.: G23017		Crew Name: D Porritt		Drilling Equipment: 8T 360	
Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
TP02	TP	13.00m AoD	D Porritt	1:50	Sheet 1 of 2



Pit



Pit/Redundant Cables

Header Sheet

Project Name: Crossgate		Client: Modo Bloc Ltd		Date: 17/07/2023	
Location: Claypath Lane, South Shields		Contractor: Clay Drilling Ltd		Co-ords: E436466.00 N566720.00	
Project No.: G23017		Crew Name: D Porritt		Drilling Equipment: 8T 360	
Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
TP02	TP	13.00m AoD	D Porritt	1:50	Sheet 2 of 2



Pit (2)

Trial Pit Log

Project Name: Crossgate	Client: Modo Bloc Ltd	Date: 17/07/2023
Location: Claypath Lane, South Shields	Contractor: Clay Drilling Ltd	Co-ords: E436497.00 N566725.00
Project No. : G23017	Crew Name: D Porritt	Equipment: 8T 360

Location Number	Location Type	Level	Logged By	Scale	Page Number
TP06	TP	13.00m AoD	D Porritt	1:25	Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10	13.00		Dark grey TARMACADAM.
					0.30	12.90		MADE GROUND: Light brown sandy subangular fine to coarse gravel of dolomite (sub base).
		0.50	ES					MADE GROUND: Dark grey gravelly fine to coarse sand with a high subangular cobble content of brick, concrete and clinker. Gravel is angular to subangular fine to coarse of coal, clinker, brick fragments and concrete. *Potential redundant gas pipe running roughly SE/ NW.*
		1.50	ES					
					2.90	12.70		MADE GROUND: Firm brown mottled grey slightly sandy slightly gravelly silty clay. Gravel is angular to subrounded fine to coarse of brick fragments, coal, concrete, ceramic and sandstone.
					3.20	10.10		End of Borehole at 3.200m

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
3.50	0.70	Unstable - from 1.00m to base of pit.					

Remarks

1. The trial pit location was scanned at surface by RWO using a Cable Avoidance Tool (CAT) prior to excavation.
2. The TP was terminated 3.20m due to an inflow of water from 2.90m which rose to 2.60m.
3. The trial pit location was also scanned at surface and downhole in stages by a certified UXO Specialist.

Header Sheet

Project Name: Crossgate		Client: Modo Bloc Ltd		Date: 17/07/2023	
Location: Claypath Lane, South Shields		Contractor: Clay Drilling Ltd		Co-ords: E436497.00 N566725.00	
Project No.: G23017		Crew Name: D Porritt		Drilling Equipment: 8T 360	
Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
TP06	TP	13.00m AoD	D Porritt	1:50	Sheet 1 of 2



Pit



Pit (2)

Header Sheet

Project Name: Crossgate		Client: Modo Bloc Ltd		Date: 17/07/2023	
Location: Claypath Lane, South Shields		Contractor: Clay Drilling Ltd		Co-ords: E436497.00 N566725.00	
Project No.: G23017		Crew Name: D Porritt		Drilling Equipment: 8T 360	
Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
TP06	TP	13.00m AoD	D Porritt	1:50	Sheet 2 of 2



Spoil



Pit (3)

Trial Pit Log

Project Name: Crossgate	Client: Modo Bloc Ltd	Date: 17/07/2023
Location: Claypath Lane, South Shields	Contractor: Clay Drilling Ltd	Co-ords: E436479.00 N566720.00
Project No. : G23017	Crew Name: D Porritt	Equipment: 8T 360

Location Number	Location Type	Level	Logged By	Scale	Page Number
TP08	TP	13.00m AoD	D Porritt	1:25	Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10	13.00		Dark grey TARMACADAM.
					0.15	12.90		MADE GROUND: Light brown sandy subangular fine to coarse gravel of dolomite (sub base).
		0.30	ES		0.25	12.85		Grey CONCRETE.
								MADE GROUND: Light brown sandy subangular gravel and cobbles of dolomite.
					0.60	12.75		MADE GROUND: Dark grey slightly clayey fine to coarse sand, gravel and cobbles. Gravel is angular to subangular fine to coarse of brick, concrete, sandstone, coal and mudstone. Cobbles are angular of brick and concrete. Frequent pockets of black ash.
▼		0.90	ES					*Lenses of firm brown clay.*
					1.70	12.40		MADE GROUND: Firm brown mottled grey slightly sandy slightly gravelly silty clay. Gravel is angular to subrounded fine to coarse of brick fragments, coal, concrete, ceramic and sandstone.
		1.90	D					*Low subangular cobble content of brick.*
▼		2.20	ES					
					2.70	11.30		Stiff brown mottled grey sandy silty CLAY of high plasticity.
		2.80		HVP=99				
		3.00	D					
		3.30		HVP=112	3.30	10.30		End of Borehole at 3.300m

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
4.00	0.70	Stable					

Remarks

1. The trial pit location was scanned at surface by RWO using a Cable Avoidance Tool (CAT) prior to excavation.
2. The trial pit location was also scanned at surface and downhole in stages by a certified UXO Specialist.

Appendix F Geotechnical Results

LABORATORY REPORT

Contract Number: PSL23/6096

Report Date: 17 August 2023

Client's Reference: G23017

Client Name: RWO
19-20 Brenkley Way
Newcastle upon Tyne
NE13 6DS

For the attention of: Dan Porritt

Contract Title: Crossgate

Date Received: 26/7/2023
Date Commenced: 26/7/2023
Date Completed: 17/8/2023

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins (Director)	R Berriman (Quality Manager)	S Royle (Laboratory Manager)
L Knight (Assistant Laboratory Manager)	S Eyre (Senior Technician)	T Watkins (Senior Technician)

5 – 7 Hexthorpe Road,
Hexthorpe,
Doncaster,
DN4 0AR
Tel: 01302 768098
Email: rberriman@prosoils.co.uk
awatkins@prosoils.co.uk

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP08		D	3.00	-	Brown slightly sandy CLAY.
CP01		D	4.60	-	Brown slightly sandy CLAY.
CP01		U	4.90	5.35	Soft brown slightly gravelly slightly sandy CLAY.
CP01		D	6.00	6.45	Brown slightly gravelly slightly sandy CLAY.
CP01		U	7.50	7.95	Firm brown slightly sandy CLAY.
CP01		D	7.95	8.15	Brown slightly gravelly slightly sandy CLAY.
CP01		B	9.50	9.95	Brown slightly gravelly sandy CLAY.
CP02A		B	5.70	6.15	Brown slightly sandy CLAY.
CP02A		B	6.50	6.95	Brown slightly gravelly slightly sandy CLAY.
CP02A		U	8.00	8.45	Firm brown slightly sandy CLAY.
CP02A		B	8.70	9.00	Brown slightly gravelly slightly sandy CLAY.
CP03		B	3.50	3.80	Brown slightly sandy CLAY.
CP03		U	4.00	4.45	Soft brown slightly sandy CLAY.
CP03		B	5.00	5.45	Brown slightly gravelly slightly sandy CLAY.
CP03		U	6.50	6.95	Stiff brown slightly sandy CLAY.
CP03		D	6.95	7.15	Brown sandy CLAY.
CP03		B	8.00	8.45	Brown very sandy CLAY.

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP08		D	3.00	-	29			55	25	30	100	High Plasticity CH
CP01		D	4.60	-	31			52	24	28	100	High Plasticity CH
CP01		D	6.00	6.45	28			60	26	34	95	High Plasticity CH
CP01		D	7.95	8.15	28			53	25	28	96	High Plasticity CH
CP01		B	9.50	9.95	12			40	20	20	91	Intermediate Plasticity CI
CP02A		B	5.70	6.15	33			62	27	35	100	High Plasticity CH
CP02A		B	6.50	6.95	31			63	27	36	92	High Plasticity CH
CP02A		B	8.70	9.00	16			34	17	17	90	Low Plasticity CL
CP03		B	3.50	3.80	29			54	25	29	100	High Plasticity CH
CP03		B	5.00	5.45	34			56	25	31	80	High Plasticity CH
CP03		D	6.95	7.15	18			43	21	22	100	Intermediate Plasticity CI
CP03		B	8.00	8.45	16			33	16	17	100	Low Plasticity CL

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

UKAS TESTING 4043

PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY

Crossgate

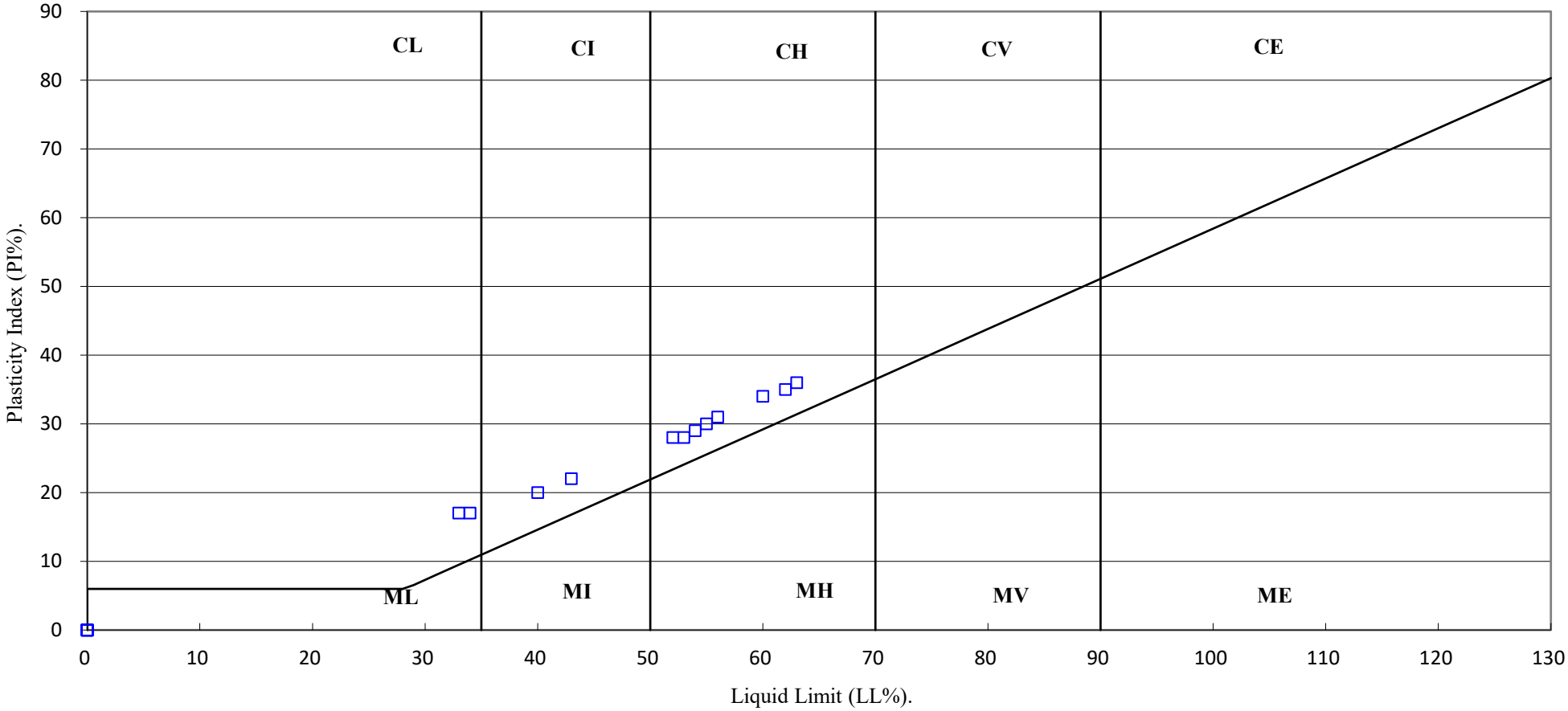
Contract No:

PSL23/6096

Client Ref:

G23017

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043 / PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY	Crossgate	Contract No: PSL23/6096 Client Ref: G23017

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

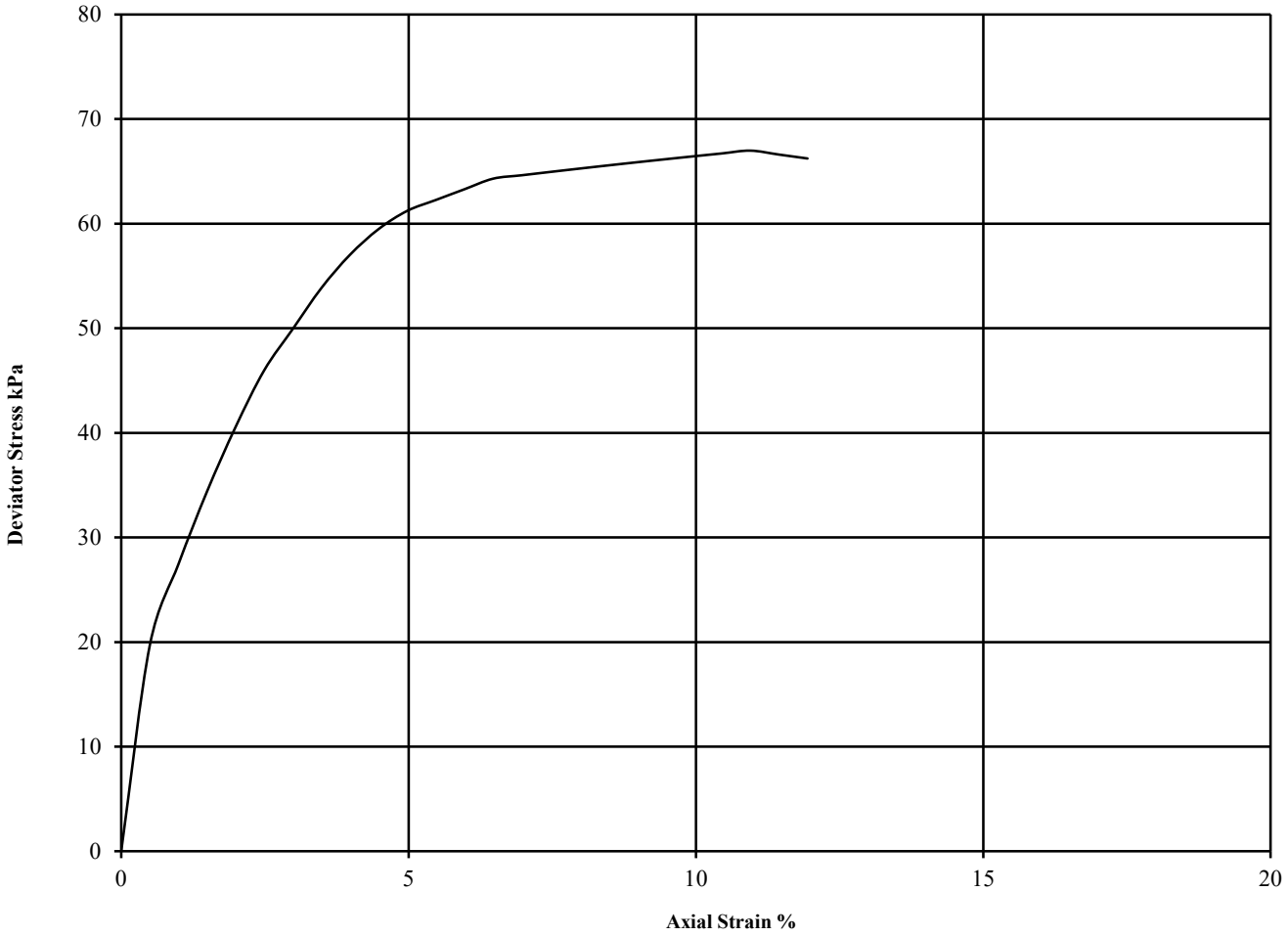
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP01** **Top Depth (m):** **4.90**

Sample Number: **Base Depth (m):** **5.35**

Sample Type **U**



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35
1	31	1.86	1.42	90	67	33	10.9	Plastic	See summary of soil descriptions

UKAS TESTING 4043

PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY

Crossgate

Contract No: **PSL23/6096**

Client Ref: **G23017**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

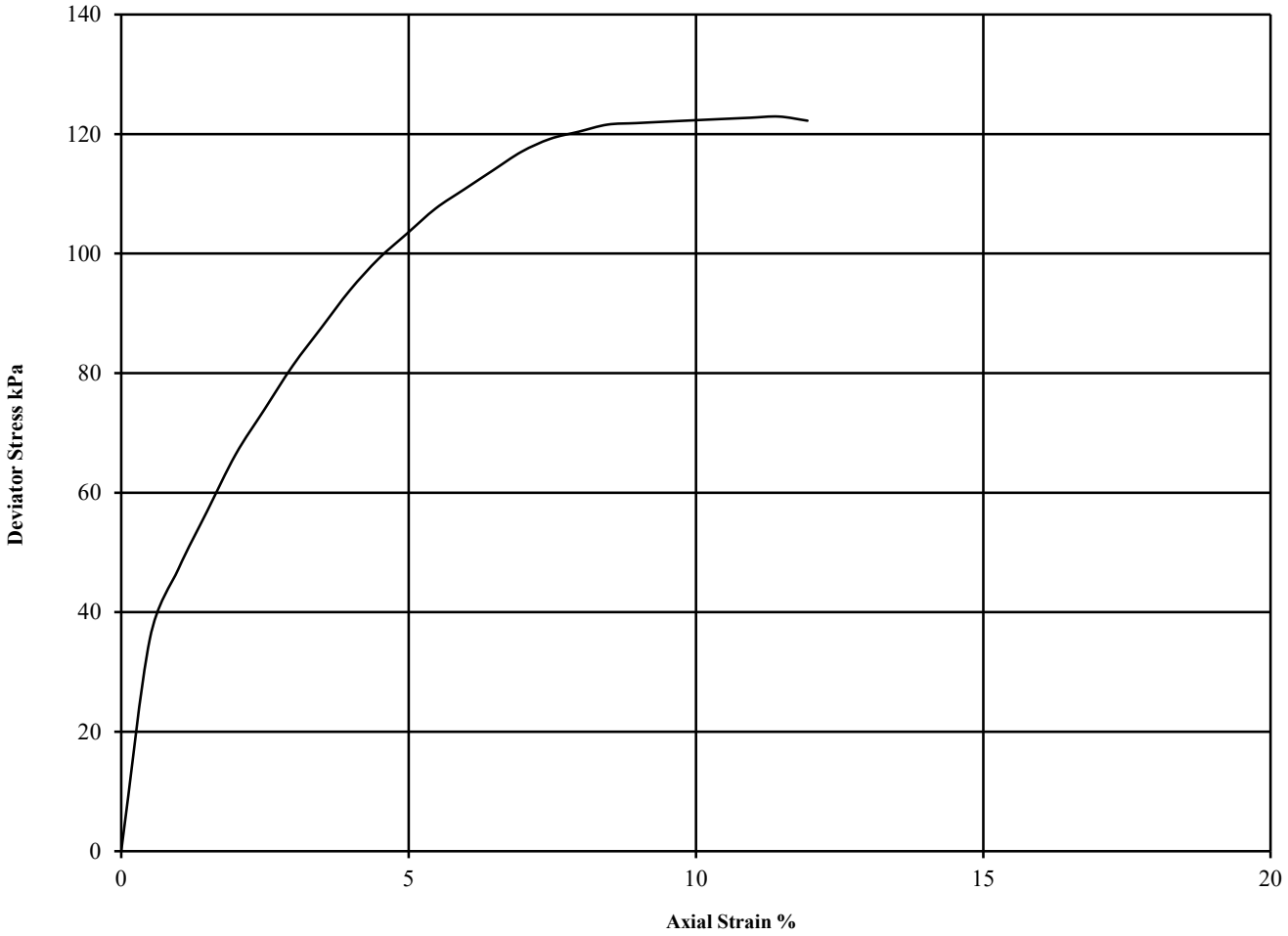
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: CP01 **Top Depth (m):** 7.50

Sample Number: **Base Depth (m):** 7.95

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35
1	28	1.88	1.47	150	123	61	11.4	Plastic	See summary of soil descriptions

UKAS TESTING 4043

PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY

Crossgate

Contract No: PSL23/6096

Client Ref: G23017

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

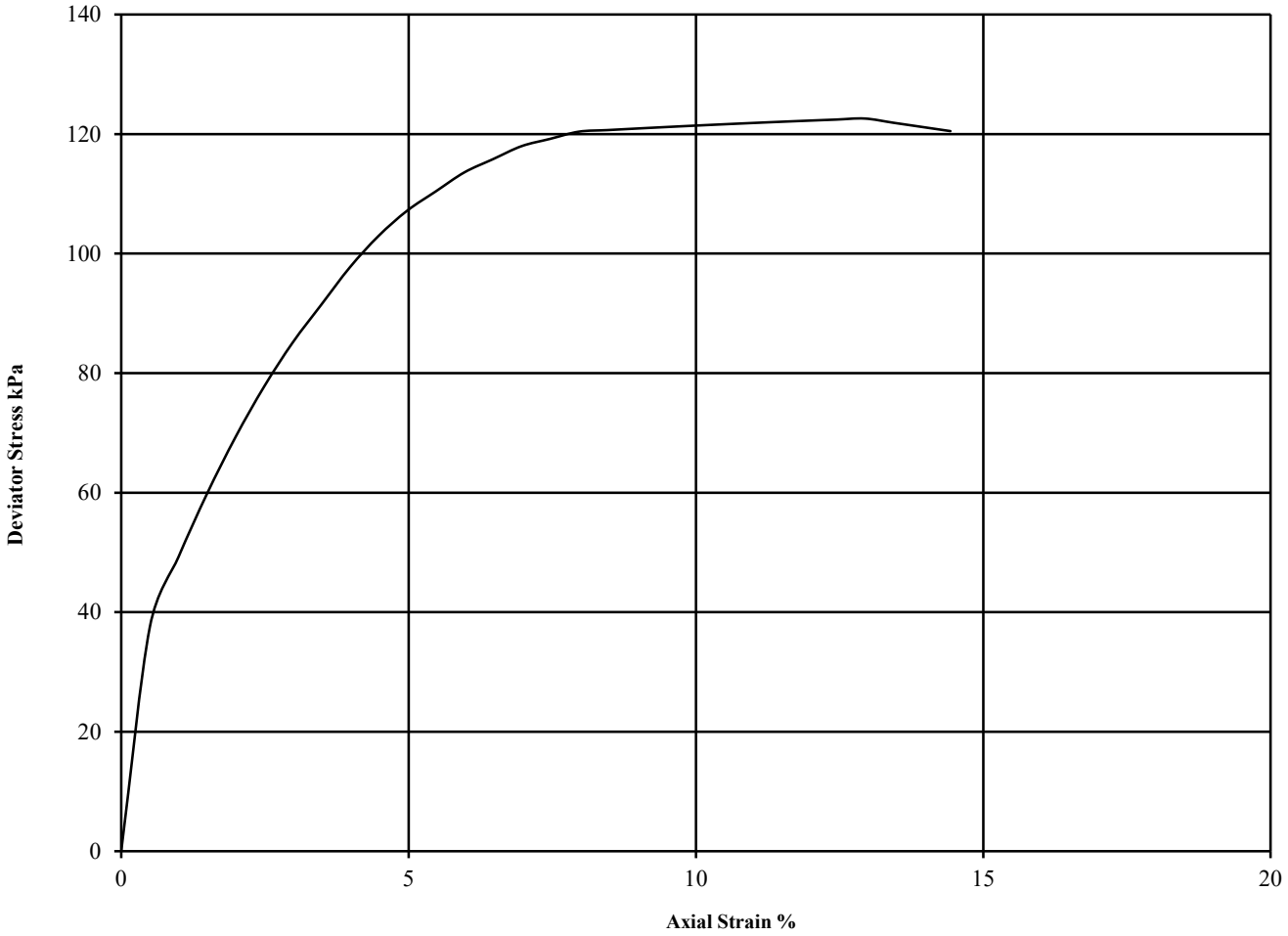
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP02A** **Top Depth (m):** **8.00**

Sample Number: **Base Depth (m):** **8.45**

Sample Type **U**



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	29	1.90	1.47	160	123	61	12.9	Plastic	See summary of soil descriptions

UKAS TESTING 4043

PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY

Crossgate

Contract No: **PSL23/6096**

Client Ref: **G23017**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

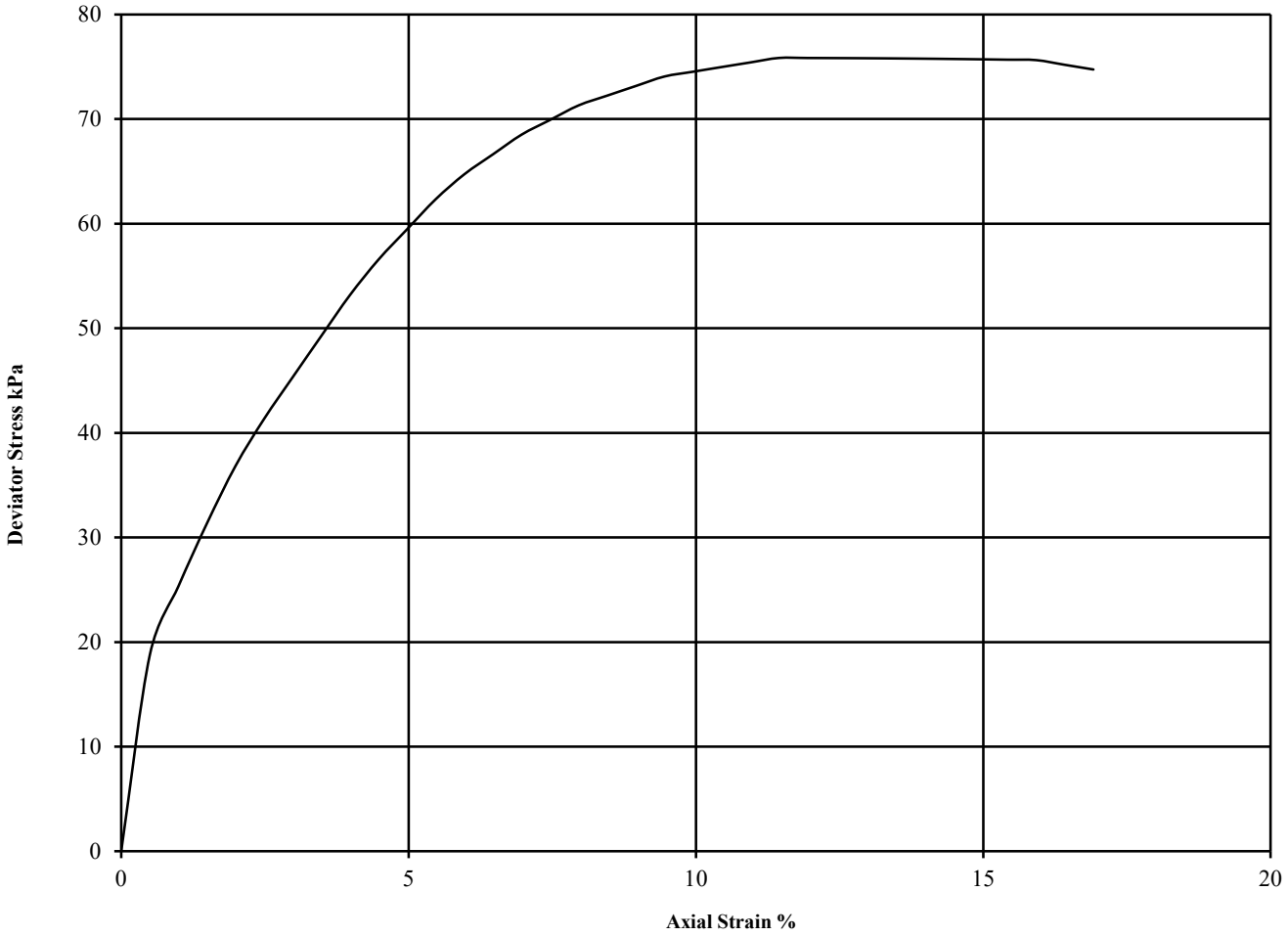
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: CP03 **Top Depth (m):** 4.00

Sample Number: **Base Depth (m):** 4.45

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35
1	29	1.96	1.52	70	76	38	11.4	Plastic	See summary of soil descriptions

UKAS TESTING 4043

PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY

Crossgate

Contract No: PSL23/6096

Client Ref: G23017

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

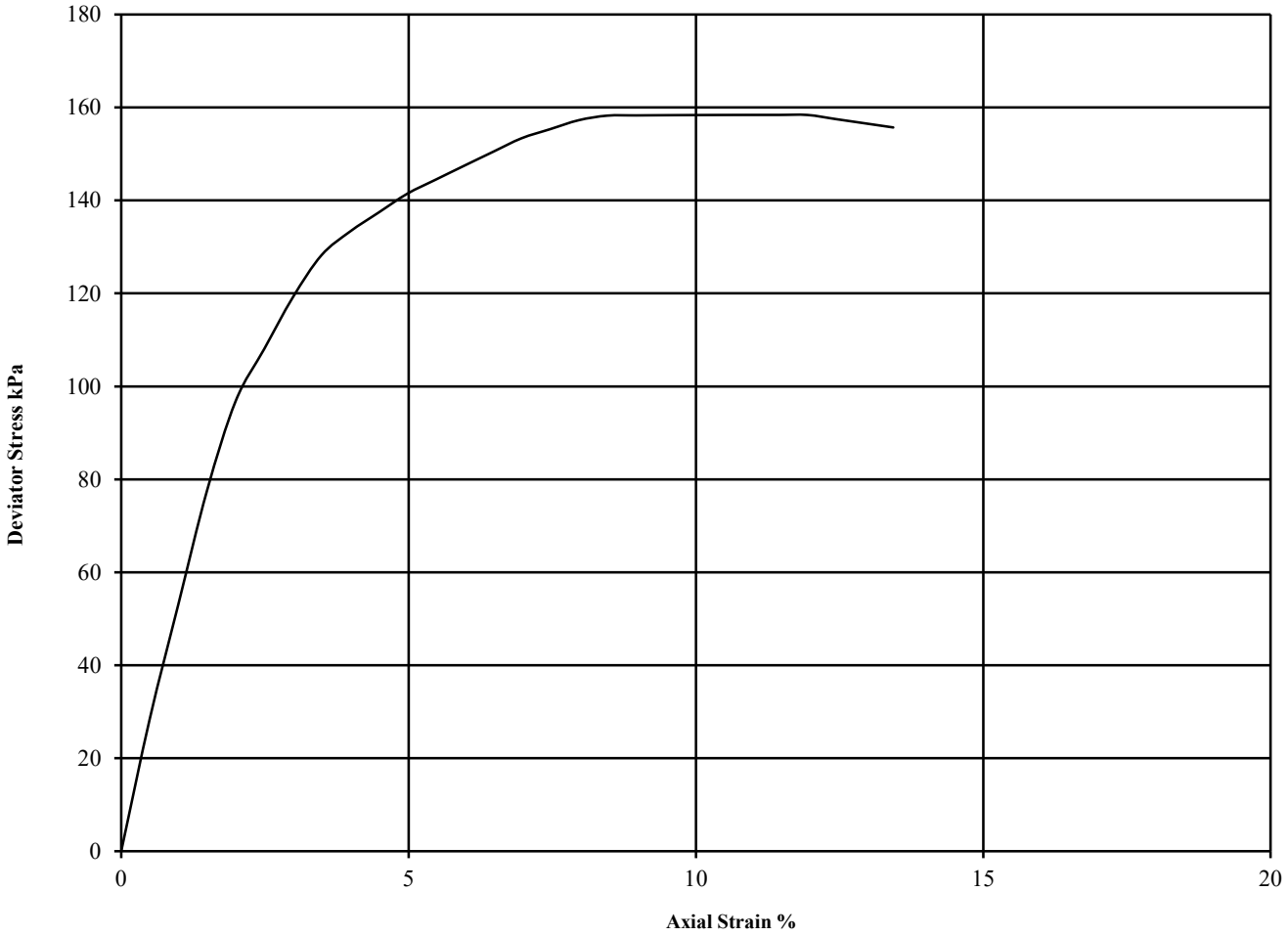
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: CP03 **Top Depth (m):** 6.50

Sample Number: **Base Depth (m):** 6.95

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35
1	28	1.92	1.50	130	158	79	11.4	Plastic	See summary of soil descriptions

UKAS TESTING 4043

PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY

Crossgate

Contract No: PSL23/6096

Client Ref: G23017

7 - 11 Harding Street
Leicester
LE1 4DH

Professional Soils Laboratory
5/7 Hexthorpe Road
Hexthorpe
Doncaster
DN4 0AR

Analytical Test Report:	**L23/04303/PSL - 23-36302**

Your Project Reference:	**PSL23/6096 Crossgate**		
Your Order Number:	PSL23/6096	Samples Received / Instructed:	10/08/2023 / 10/08/2023
Report Issue Number:	1	Sample Tested:	10/08 to 17/08/2023
Samples Analysed:	11 soil samples	Report issued:	17/08/2023

Signed



James Gane
Analytical Services Manager
CTS Group

Notes:

General

Please refer to Methodologies page for details pertaining to the analytical methods undertaken.

Samples will be retained for 14 days after issue of this report unless otherwise requested.

Moisture Content was determined in accordance with CTS method statement MS - CL - Sample Prep, oven dried at <30˚C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Samples were supplied by customer, results apply to the samples as received.

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Date of Issue: 26.07.23

Issued by: J. Gane

Issue No: 4

Rev No: 2

CTS Group
7 - 11 Harding Street
Leicester
LE1 4DH

L23/04303/PSL - 23-36302

Project Reference - PSL23/6096 Crossgate

Analytical Test Results - Soil

Lab Reference			309382	309383	309384	309385	309386	309387	309388
Client Sample ID			-	-	-	-	-	-	-
Client Sample Location			TP08	CP01	CP01	CP01	CP01	CP02A	CP02A
Client Sample Type			D	D	D	D	B	B	B
Client Sample Number			-	-	-	-	-	-	-
Depth - Top (m)			3.00	4.60	6.00	7.95	9.50	5.70	6.50
Depth - Bottom (m)			3.00	4.60	6.45	8.15	9.95	6.15	6.95
Date of Sampling			-	-	-	-	-	-	-
Time of Sampling			-	-	-	-	-	-	-
Sample Matrix			Clay	Clay	Clay	Clay	Clay	Clay	Clay
Determinant	**Units**	**Accreditation**							
pH	pH Units	MCERTS	8.2	8.0	8.1	8.0	8.4	8.2	8.3
Sulphate (Water soluble as SO_4)	(mg/l)	u	290	850	670	700	200	350	330

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L23/04303/PSL - 23-36302

Project Reference - PSL23/6096 Crossgate

Analytical Test Results - Soil

Lab Reference			309389	309390	309391	309392
Client Sample ID			-	-	-	-
Client Sample Location			CP02A	CP03	CP03	CP03
Client Sample Type			B	B	B	D
Client Sample Number			-	-	-	-
Depth - Top (m)			8.70	3.50	5.00	6.95
Depth - Bottom (m)			9.00	3.80	5.45	7.15
Date of Sampling			-	-	-	-
Time of Sampling			-	-	-	-
Sample Matrix			Clay	Clay	Clay	Clay
Determinant	**Units**	**Accreditation**				
pH	pH Units	MCERTS	8.4	8.3	8.2	8.5
Sulphate (Water soluble as SO_4)	(mg/l)	u	440	340	420	200

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L23/04303/PSL - 23-36302

Project Reference - PSL23/6096 Crossgate

Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
309382	-	TP08	D	-	Greyish dark brown silty clay	-	-	100
309383	-	CP01	D	-	Greyish dark brown silty clay	-	-	100
309384	-	CP01	D	-	Greyish dark brown slightly gravelly silty clay	-	-	100
309385	-	CP01	D	-	Greyish dark brown silty clay	-	-	100
309386	-	CP01	B	-	Greyish dark brown slightly gravelly silty clay	-	-	95
309387	-	CP02A	B	-	Greyish dark brown silty clay	-	-	100
309388	-	CP02A	B	-	Greyish dark brown silty clay	-	-	100
309389	-	CP02A	B	-	Greyish dark brown slightly gravelly silty clay	-	-	99
309390	-	CP03	B	-	Greyish dark brown silty clay	-	-	100
309391	-	CP03	B	-	Greyish dark brown silty clay	-	-	100
309392	-	CP03	D	-	Greyish dark brown silty clay	-	-	99

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L23/04303/PSL - 23-36302

Project Reference - PSL23/6096 Crossgate

Sample Comments

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
309382	-	TP08	D	-	
309383	-	CP01	D	-	
309384	-	CP01	D	-	
309385	-	CP01	D	-	
309386	-	CP01	B	-	
309387	-	CP02A	B	-	
309388	-	CP02A	B	-	
309389	-	CP02A	B	-	
309390	-	CP03	B	-	
309391	-	CP03	B	-	
309392	-	CP03	D	-	

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Project Reference - PSL23/6096 Crossgate

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preperation	Test Details
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis

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Project Reference - PSL23/6096 Crossgate

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided
C - Received in inappropriate container
H - Contains headspace
T - Temperature on receipt exceeds storage temperature
R - Date of sampling to receipt insufficient to allow analysis to be completed without deviation, Please note this is only a deviation if 'X' is also recorded against the sample

Observations whist in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
309382	-	TP08	D	-		A
309383	-	CP01	D	-		A
309384	-	CP01	D	-		A
309385	-	CP01	D	-		A
309386	-	CP01	B	-		A
309387	-	CP02A	B	-		A
309388	-	CP02A	B	-		A
309389	-	CP02A	B	-		A
309390	-	CP03	B	-		A
309391	-	CP03	B	-		A
309392	-	CP03	D	-		A

Appendix G Chemical Analysis

Daniel Porritt
RWO Associates (Geotechnical) Ltd
Offices 5 & 6 Navigation House
16 Ellerbeck way
Stokesley
North Yorkshire
TS9 5JZ

t: 01642 927420

e: dporritt@rwo.group

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 23-46715

Replaces Analytical Report Number: 23-46715, issue no. 1
Client sampling date amended.
Sampling Date Added as per clients request

Project / Site name:	Crossgate, South Shields	**Samples received on:**	24/07/2023
Your job number:	G23017	**Samples instructed on/ Analysis started on:**	24/07/2023
Your order number:		**Analysis completed by:**	31/07/2023
Report Issue Number:	2	**Report issued on:**	08/08/2023
Samples Analysed:	15 soil samples		

Signed: JSzwagrak

Joanna Szwagrzak
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 23-46715
Project / Site name: Crossgate, South Shields

Lab Sample Number				2757965	2757966	2757967	2757968	2757969
Sample Reference				CP01	CP01	CP02A	CP02A	CP02A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	3.80	0.50	1.50	2.50
Date Sampled				18/07/2023	18/07/2023	17/07/2023	17/07/2023	17/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	17	14	12	13
Total mass of sample received	kg	0.001	NONE	1.2	1.3	1	1	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SPU	SPU	SPU	SPU	SPU
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.1	7.9	8.3	8.2	7.8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	3500	750	830	1200	940
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	2800	460	240	320	380
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	1.4	0.23	0.12	0.16	0.19
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1410	232	121	161	190
Sulphide	mg/kg	1	MCERTS	20	1.1	1.1	140	6
Organic Matter (automated)	%	0.1	MCERTS	7.1	2.2	1.9	2.5	3
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.74	< 0.05	0.19	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.5	0.11	0.51	0.36	0.37
Anthracene	mg/kg	0.05	MCERTS	0.21	< 0.05	0.11	0.05	0.08
Fluoranthene	mg/kg	0.05	MCERTS	1.6	0.09	1.2	0.3	0.47
Pyrene	mg/kg	0.05	MCERTS	1.6	0.1	1.1	0.32	0.45
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.1	0.05	0.72	0.2	0.26
Chrysene	mg/kg	0.05	MCERTS	1	0.07	0.68	0.24	0.27
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.3	0.07	1.1	0.29	0.26
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.5	< 0.05	0.43	0.13	0.18
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.99	0.05	1.1	0.22	0.24
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.7	< 0.05	0.8	0.15	0.16
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.16	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.72	< 0.05	0.97	0.17	0.17
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	12.1	< 0.80	8.83	2.43	2.91

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Analytical Report Number: 23-46715
Project / Site name: Crossgate, South Shields

Lab Sample Number				2757965	2757966	2757967	2757968	2757969
Sample Reference				CP01	CP01	CP02A	CP02A	CP02A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	3.80	0.50	1.50	2.50
Date Sampled				18/07/2023	18/07/2023	17/07/2023	17/07/2023	17/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	10	8.5	21	18
Barium (aqua regia extractable)	mg/kg	1	MCERTS	810	170	170	420	220
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	6.4	1.1	0.95	2.4	0.9
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.8	0.5	0.7	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	41	22	15	19	15
Copper (aqua regia extractable)	mg/kg	1	MCERTS	180	32	30	58	41
Lead (aqua regia extractable)	mg/kg	1	MCERTS	93	180	78	260	290
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	0.4	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	97	27	23	40	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	260	37	27	56	40
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	65	60	49	48
Monoaromatics & Oxygenates~								
Benzene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
p & m-xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
o-xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	< 5.0	-	-	< 5.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.1	NONE	-	< 0.10	-	-	< 0.10
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.1	NONE	-	< 0.10	-	-	< 0.10
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.1	NONE	-	< 0.10	-	-	< 0.10
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	-	< 2.0	-	-	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	< 8.0	-	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	< 8.0	-	-	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	< 8.4	-	-	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	< 10	-	-	< 10
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	< 10	-	-	< 10
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.1	NONE	-	< 0.10	-	-	< 0.10
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.1	NONE	-	< 0.10	-	-	< 0.10
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.1	NONE	-	< 0.10	-	-	< 0.10
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	-	< 2.0	-	-	2.5
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	< 10	-	-	< 10
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	< 10	-	-	< 10
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	< 8.4	-	-	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	< 10	-	-	12
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	< 10	-	-	12

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Analytical Report Number: 23-46715
Project / Site name: Crossgate, South Shields

Lab Sample Number				2757970	2757971	2757972	2757973	2757974
Sample Reference				CP02A	CP03	CP03	TP08	TP08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.50	0.50	1.50	0.30	0.90
Date Sampled				17/07/2023	19/07/2023	19/07/2023	17/07/2023	17/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	39	< 0.1	62
Moisture Content	%	0.01	NONE	18	13	10	9.8	12
Total mass of sample received	kg	0.001	NONE	1	1.1	1.1	0.5	0.5
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	ASE	ASE	ASE	ASE	ASE
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8	8.2	8	9.6	7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	3.7
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	3.7
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	1300	1600	1400	840	6000
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	570	190	380	260	3600
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.29	0.094	0.19	0.13	1.8
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	287	93.9	190	132	1800
Sulphide	mg/kg	1	MCERTS	25	15	7.2	25	14
Organic Matter (automated)	%	0.1	MCERTS	3.5	2.3	3.2	2.4	12
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.33	0.14	2.3
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.12	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.39	0.18	0.53	0.36	2
Anthracene	mg/kg	0.05	MCERTS	0.08	< 0.05	0.19	0.1	0.14
Fluoranthene	mg/kg	0.05	MCERTS	0.48	0.18	0.7	0.61	0.88
Pyrene	mg/kg	0.05	MCERTS	0.42	0.2	0.63	0.59	0.88
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.3	0.1	0.39	0.31	0.59
Chrysene	mg/kg	0.05	MCERTS	0.31	0.11	0.39	0.32	0.62
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.31	0.1	0.43	0.4	0.52
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.12	< 0.05	0.1	0.19	0.24
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.23	0.08	0.3	0.29	0.39
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.14	< 0.05	0.18	0.21	0.24
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.17	< 0.05	0.17	0.23	0.32
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.95	0.95	4.34	3.87	9.07

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Analytical Report Number: 23-46715
Project / Site name: Crossgate, South Shields

Lab Sample Number				2757970	2757971	2757972	2757973	2757974
Sample Reference				CP02A	CP03	CP03	TP08	TP08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.50	0.50	1.50	0.30	0.90
Date Sampled				17/07/2023	19/07/2023	19/07/2023	17/07/2023	17/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	16	17	5	68
Barium (aqua regia extractable)	mg/kg	1	MCERTS	230	190	230	150	83
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.4	2	1.1	0.46	3.3
Boron (water soluble)	mg/kg	0.2	MCERTS	1.4	< 0.2	0.4	0.2	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.3	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	25	28	12	23
Copper (aqua regia extractable)	mg/kg	1	MCERTS	46	62	50	39	240
Lead (aqua regia extractable)	mg/kg	1	MCERTS	370	140	120	43	160
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.4	< 0.3	< 0.3	1.9
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	30	26	12	70
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	52	74	84	35	150
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	61	120	82	160	130
Monoaromatics & Oxygenates~								
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
o-xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.1	NONE	-	-	< 0.10	-	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.1	NONE	-	-	< 0.10	-	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.1	NONE	-	-	< 0.10	-	-
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	-	< 8.4	-	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	-	< 10	-	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	-	< 10	-	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.1	NONE	-	-	< 0.10	-	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.1	NONE	-	-	< 0.10	-	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.1	NONE	-	-	< 0.10	-	-
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	-	< 8.4	-	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	-	< 10	-	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	-	< 10	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Analytical Report Number: 23-46715
Project / Site name: Crossgate, South Shields

Lab Sample Number				2757975	2757976	2757977	2757978	2757979
Sample Reference				TP08	TP06	TP06	TP02	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20	0.50	1.50	0.70	0.50
Date Sampled				17/07/2023	17/07/2023	17/07/2023	17/07/2023	17/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	67	< 0.1	61
Moisture Content	%	0.01	NONE	19	16	6.3	12	17
Total mass of sample received	kg	0.001	NONE	0.5	0.9	0.9	0.8	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SPU	SPU	SPU	SPU	SPU
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.2	8	8.5	8.8	9.7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	790	4100	1100	2000	19000
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	180	470	130	240	3200
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.088	0.23	0.063	0.12	1.6
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	87.6	233	62.6	118	1590
Sulphide	mg/kg	1	MCERTS	2.4	5.1	14	41	4.5
Organic Matter (automated)	%	0.1	MCERTS	2.3	9.8	3.1	2.3	1.8
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	1.5	0.3	0.39	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.19	0.13	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.09	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.09	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.12	1.5	2.4	2.6	0.07
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.15	0.59	0.49	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.13	1.3	4.8	4.7	0.09
Pyrene	mg/kg	0.05	MCERTS	0.13	1.1	3.7	3.8	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.07	0.74	2.6	2.2	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.07	0.72	2.8	2.2	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.09	0.78	3.4	2.7	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.33	1.4	1.2	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.05	0.56	2	2.1	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.33	1.6	1.5	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.12	< 0.05	0.39	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.43	1.5	1.6	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	9.48	27.4	25.9	< 0.80

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Analytical Report Number: 23-46715
Project / Site name: Crossgate, South Shields

Lab Sample Number				2757975	2757976	2757977	2757978	2757979
Sample Reference				TP08	TP06	TP06	TP02	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20	0.50	1.50	0.70	0.50
Date Sampled				17/07/2023	17/07/2023	17/07/2023	17/07/2023	17/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	25	59	42	26	9.6
Barium (aqua regia extractable)	mg/kg	1	MCERTS	220	920	210	420	210
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	2.2	0.97	1.1	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2	< 0.2	0.5	< 0.2	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	0.4
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	19	12	13	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	54	140	84	66	30
Lead (aqua regia extractable)	mg/kg	1	MCERTS	140	140	210	190	34
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.4	0.8	2.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	57	19	21	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	78	120	39	44	43
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	64	87	120	170	110
Monoaromatics & Oxygenates~								
Benzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	-
p & m-xylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	-
o-xylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	-	< 5.0	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.1	NONE	< 0.10	-	< 0.10	-	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.1	NONE	< 0.10	-	< 0.10	-	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.1	NONE	< 0.10	-	< 0.10	-	-
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	< 2.0	-	< 2.0	-	-
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	-	-
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	-	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	-	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10	-	< 10	-	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.1	NONE	< 0.10	-	< 0.10	-	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.1	NONE	< 0.10	-	< 0.10	-	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.1	NONE	< 0.10	-	< 0.10	-	-
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	< 2.0	-	4.6	-	-
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	< 10	-	13	-	-
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	< 10	-	28	-	-
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	-	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	< 10	-	46	-	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	< 10	-	47	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Analytical Report Number : 23-46715
Project / Site name: Crossgate, South Shields

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2757965	CP01	None Supplied	2	Brown gravely sand with clinker and brick.
2757966	CP01	None Supplied	3.8	Brown clay and sand with gravel.
2757967	CP02A	None Supplied	0.5	Brown clay and sand with gravel.
2757968	CP02A	None Supplied	1.5	Brown clay and sand with gravel.
2757969	CP02A	None Supplied	2.5	Brown clay and sand with gravel and rubble.
2757970	CP02A	None Supplied	3.5	Brown clay and sand with gravel and rubble.
2757971	CP03	None Supplied	0.5	Brown sandy loam with gravel.
2757972	CP03	None Supplied	1.5	Brown clay and sand with gravel and stones.
2757973	TP08	None Supplied	0.3	Brown sandy loam with gravel and vegetation.
2757974	TP08	None Supplied	0.9	Brown sandy clay with gravel and stones.
2757975	TP08	None Supplied	2.2	Brown clay and sand with gravel.
2757976	TP06	None Supplied	0.5	Brown sandy clay with gravel.
2757977	TP06	None Supplied	1.5	Brown loam and clay with gravel and stones.
2757978	TP02	None Supplied	0.7	Brown clay and sand with gravel.
2757979	TP01	None Supplied	0.5	Brown sand with gravel and stones.

Analytical Report Number : 23-46715
Project / Site name: Crossgate, South Shields

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

Analytical Report Number : 23-46715
Project / Site name: Crossgate, South Shields

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

~ - Quality control surrogate recovery outside of limits, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.

Sample Deviation Report

Analytical Report Number : 23-46715
Project / Site name: Crossgate, South Shields

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
CP02A	None Supplied	S	2757967	c	Sulphide in soil	L010-PL	c
CP02A	None Supplied	S	2757968	c	Sulphide in soil	L010-PL	c
CP02A	None Supplied	S	2757969	c	Sulphide in soil	L010-PL	c
CP02A	None Supplied	S	2757970	c	Sulphide in soil	L010-PL	c
TP01	None Supplied	S	2757979	c	Sulphide in soil	L010-PL	c
TP02	None Supplied	S	2757978	c	Sulphide in soil	L010-PL	c
TP06	None Supplied	S	2757976	c	Sulphide in soil	L010-PL	c
TP06	None Supplied	S	2757977	c	Sulphide in soil	L010-PL	c
TP08	None Supplied	S	2757973	c	Sulphide in soil	L010-PL	c
TP08	None Supplied	S	2757974	c	Sulphide in soil	L010-PL	c
TP08	None Supplied	S	2757975	c	Sulphide in soil	L010-PL	c
CP03	None Supplied	S	2757971	c	Sulphide in soil	L010-PL	c
CP03	None Supplied	S	2757972	c	Sulphide in soil	L010-PL	c
CP01	None Supplied	S	2757965	c	Sulphide in soil	L010-PL	c
CP01	None Supplied	S	2757966	c	Sulphide in soil	L010-PL	c

Appendix H HWOL Assessment

HazWasteOnline™

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

INBUR-224KF-6134R

Job name

Crossgate

Description/Comments

Site Investigation

Project

Crossgate

Site

Crossgate, Claypath Lane

Classified by

Name:
Daniel Porritt
Date:
29 Aug 2023 10:03 GMT
Telephone:
01642 927420

Company:
RWO Associates Ltd
Offices 5 & 6 Navigation House, 16 Ellerbeck Way
Stokesley
TS9 5JZ

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	08 Dec 2022

Next 3 year Refresher due by Dec 2025

Purpose of classification

4 - Classification of Waste Products

Address of the waste

Claypath Lane, South Shields **Post Code** NE33 5QX

SIC for the process giving rise to the waste

41201 Construction of commercial buildings

Description of industry/producer giving rise to the waste

Redevelopment of area for Commercial/Retail Building

Description of the specific process, sub-process and/or activity that created the waste

Waste created during construction works.

Description of the waste

Made ground soils including demolition waste.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	CP01---2.00		Non Hazardous		3
2	CP01---3.80		Non Hazardous		5
3	CP02A---0.50		Non Hazardous		8
4	CP02A---1.50		Non Hazardous		10
5	CP02A---2.50		Non Hazardous		12
6	CP02A---3.50		Non Hazardous		15
7	CP03---0.50		Non Hazardous		17
8	CP03---1.50		Non Hazardous		19
9	TP08---0.30		Non Hazardous		22
10	TP08---0.90		Non Hazardous		24
11	TP08---2.20		Non Hazardous		26
12	TP06---0.50		Non Hazardous		29
13	TP06---1.50		Non Hazardous		31
14	TP02---0.70		Non Hazardous		34
15	TP01---0.50		Non Hazardous		36

Related documents

#	Name	Description
1	23-46715_HWOL_Results.hwol	i2 Analytical .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Daniel Porritt

Created date: 29 Aug 2023 10:03 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	38
Appendix B: Rationale for selection of metal species	40
Appendix C: Version	40

Classification of sample: CP01---2.00

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
CP01---2.00
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15	mg/kg	1.32	17.626	mg/kg	0.00176 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		6.4	mg/kg	2.775	15.808	mg/kg	0.00158 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.5	mg/kg	3.22	1.433	mg/kg	0.000143 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		41	mg/kg	1.462	53.332	mg/kg	0.00533 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		180	mg/kg	1.126	180.367	mg/kg	0.018 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	93	mg/kg	1.56	129.106	mg/kg	0.00828 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		97	mg/kg	2.976	256.941	mg/kg	0.0257 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		110	mg/kg	2.774	271.589	mg/kg	0.0272 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
14	pH			PH		8.1	pH		8.1	pH	8.1 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.74	mg/kg		0.659	mg/kg	0.0000659 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				1.5	mg/kg		1.335	mg/kg	0.000133 %	✓	
			201-581-5	85-01-8									
20		anthracene				0.21	mg/kg		0.187	mg/kg	0.0000187 %	✓	
			204-371-1	120-12-7									
21		fluoranthene				1.6	mg/kg		1.424	mg/kg	0.000142 %	✓	
			205-912-4	206-44-0									
22		pyrene				1.6	mg/kg		1.424	mg/kg	0.000142 %	✓	
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.1	mg/kg		0.979	mg/kg	0.0000979 %	✓	
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1	mg/kg		0.89	mg/kg	0.000089 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.3	mg/kg		1.157	mg/kg	0.000116 %	✓	
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.5	mg/kg		0.445	mg/kg	0.0000445 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.99	mg/kg		0.881	mg/kg	0.0000881 %	✓	
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.7	mg/kg		0.623	mg/kg	0.0000623 %	✓	
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.16	mg/kg		0.142	mg/kg	0.0000142 %	✓	
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.72	mg/kg		0.641	mg/kg	0.0000641 %	✓	
			205-883-8	191-24-2									
31		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
32		barium { barium sulphide }				810	mg/kg	1.233	889.226	mg/kg	0.0889 %	✓	
		016-002-00-X	244-214-4	21109-95-5									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				260	mg/kg	1.785	413.092	mg/kg	0.0413 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.22 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: CP01---3.80

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
CP01---3.80
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	10.959 mg/kg	0.0011 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	2.534 mg/kg	0.000253 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.8 mg/kg	3.22	2.138 mg/kg	0.000214 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	26.688 mg/kg	0.00267 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32 mg/kg	1.126	29.904 mg/kg	0.00299 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	180 mg/kg	1.56	233.036 mg/kg	0.0149 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.976	66.698 mg/kg	0.00667 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		65 mg/kg	2.774	149.665 mg/kg	0.015 %	✓	
13	TPH (C6 to C40) petroleum group			TPH		<36.8 mg/kg		<36.8 mg/kg	<0.00368 %		<**LOD**
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**
15	benzene	601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**
16	toluene	601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20		pH			PH		7.9	pH		7.9	pH	7.9 pH		
21		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
22		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		phenanthrene		201-581-5	85-01-8		0.11	mg/kg		0.0913	mg/kg	0.00000913 %	✓	
26		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		fluoranthene		205-912-4	206-44-0		0.09	mg/kg		0.0747	mg/kg	0.00000747 %	✓	
28		pyrene		204-927-3	129-00-0		0.1	mg/kg		0.083	mg/kg	0.0000083 %	✓	
29		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.05	mg/kg		0.0415	mg/kg	0.00000415 %	✓	
30		chrysene	601-048-00-0	205-923-4	218-01-9		0.07	mg/kg		0.0581	mg/kg	0.00000581 %	✓	
31		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.07	mg/kg		0.0581	mg/kg	0.00000581 %	✓	
32		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.05	mg/kg		0.0415	mg/kg	0.00000415 %	✓	
34		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
35		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
36		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
38		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		170	mg/kg	1.233	174.046	mg/kg	0.0174 %	✓	
39		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		37	mg/kg	1.785	54.823	mg/kg	0.00548 %	✓	
											Total:	0.0715 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: CP02A---0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
CP02A---0.50
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.5 mg/kg	1.32	9.652 mg/kg	0.000965 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.95 mg/kg	2.775	2.267 mg/kg	0.000227 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.5 mg/kg	3.22	1.385 mg/kg	0.000138 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	18.854 mg/kg	0.00189 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30 mg/kg	1.126	29.048 mg/kg	0.0029 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	78 mg/kg	1.56	104.632 mg/kg	0.00671 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.4 mg/kg	1.353	0.466 mg/kg	0.0000466 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.976	58.871 mg/kg	0.00589 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		60 mg/kg	2.774	143.146 mg/kg	0.0143 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
14	pH			PH		8.3 pH		8.3 pH	8.3 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.19 mg/kg		0.163 mg/kg	0.0000163 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
17		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
18		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		phenanthrene		201-581-5	85-01-8		0.51	mg/kg		0.439	mg/kg	0.0000439 %	✓	
20		anthracene		204-371-1	120-12-7		0.11	mg/kg		0.0946	mg/kg	0.00000946 %	✓	
21		fluoranthene		205-912-4	206-44-0		1.2	mg/kg		1.032	mg/kg	0.000103 %	✓	
22		pyrene		204-927-3	129-00-0		1.1	mg/kg		0.946	mg/kg	0.0000946 %	✓	
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.72	mg/kg		0.619	mg/kg	0.0000619 %	✓	
24		chrysene	601-048-00-0	205-923-4	218-01-9		0.68	mg/kg		0.585	mg/kg	0.0000585 %	✓	
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.1	mg/kg		0.946	mg/kg	0.0000946 %	✓	
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.43	mg/kg		0.37	mg/kg	0.000037 %	✓	
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.1	mg/kg		0.946	mg/kg	0.0000946 %	✓	
28		indeno[123-cd]pyrene		205-893-2	193-39-5		0.8	mg/kg		0.688	mg/kg	0.0000688 %	✓	
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		benzo[ghi]perylene		205-883-8	191-24-2		0.97	mg/kg		0.834	mg/kg	0.0000834 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
32		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		170	mg/kg	1.233	180.337	mg/kg	0.018 %	✓	
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		27	mg/kg	1.785	41.452	mg/kg	0.00415 %	✓	
											Total:	0.057 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: CP02A---1.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
CP02A---1.50
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21 mg/kg	1.32	24.4 mg/kg	0.00244 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		2.4 mg/kg	2.775	5.862 mg/kg	0.000586 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	1.983 mg/kg	0.000198 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	24.437 mg/kg	0.00244 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		58 mg/kg	1.126	57.465 mg/kg	0.00575 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	260 mg/kg	1.56	356.886 mg/kg	0.0229 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		40 mg/kg	2.976	104.765 mg/kg	0.0105 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		49 mg/kg	2.774	119.621 mg/kg	0.012 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
14	pH			PH		8.2 pH		8.2 pH	8.2 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
17		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
18		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		phenanthrene		201-581-5	85-01-8		0.36	mg/kg		0.317	mg/kg	0.0000317 %	✓	
20		anthracene		204-371-1	120-12-7		0.05	mg/kg		0.044	mg/kg	0.0000044 %	✓	
21		fluoranthene		205-912-4	206-44-0		0.3	mg/kg		0.264	mg/kg	0.0000264 %	✓	
22		pyrene		204-927-3	129-00-0		0.32	mg/kg		0.282	mg/kg	0.0000282 %	✓	
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.2	mg/kg		0.176	mg/kg	0.0000176 %	✓	
24		chrysene	601-048-00-0	205-923-4	218-01-9		0.24	mg/kg		0.211	mg/kg	0.0000211 %	✓	
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.29	mg/kg		0.255	mg/kg	0.0000255 %	✓	
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.13	mg/kg		0.114	mg/kg	0.0000114 %	✓	
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.22	mg/kg		0.194	mg/kg	0.0000194 %	✓	
28		indeno[123-cd]pyrene		205-893-2	193-39-5		0.15	mg/kg		0.132	mg/kg	0.0000132 %	✓	
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		benzo[ghi]perylene		205-883-8	191-24-2		0.17	mg/kg		0.15	mg/kg	0.000015 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
32		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		420	mg/kg	1.233	455.899	mg/kg	0.0456 %	✓	
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		56	mg/kg	1.785	87.974	mg/kg	0.0088 %	✓	
											Total:	0.112 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: CP02A---2.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
CP02A---2.50
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	20.676 mg/kg	0.00207 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.9 mg/kg	2.775	2.173 mg/kg	0.000217 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.5 mg/kg	3.22	1.401 mg/kg	0.00014 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	19.073 mg/kg	0.00191 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		41 mg/kg	1.126	40.16 mg/kg	0.00402 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	290 mg/kg	1.56	393.541 mg/kg	0.0252 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.976	54.376 mg/kg	0.00544 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		48 mg/kg	2.774	115.848 mg/kg	0.0116 %	✓	
13	TPH (C6 to C40) petroleum group			TPH		12 mg/kg		10.44 mg/kg	0.00104 %	✓	
14	confirm TPH has NOT arisen from diesel or petrol					☑					
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
20		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
21		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
22		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				0.37	mg/kg		0.322	mg/kg	0.0000322 %	✓	
			201-581-5	85-01-8									
27		anthracene				0.08	mg/kg		0.0696	mg/kg	0.00000696 %	✓	
			204-371-1	120-12-7									
28		fluoranthene				0.47	mg/kg		0.409	mg/kg	0.0000409 %	✓	
			205-912-4	206-44-0									
29		pyrene				0.45	mg/kg		0.391	mg/kg	0.0000391 %	✓	
			204-927-3	129-00-0									
30		benzo[a]anthracene				0.26	mg/kg		0.226	mg/kg	0.0000226 %	✓	
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				0.27	mg/kg		0.235	mg/kg	0.0000235 %	✓	
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				0.26	mg/kg		0.226	mg/kg	0.0000226 %	✓	
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				0.18	mg/kg		0.157	mg/kg	0.0000157 %	✓	
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				0.24	mg/kg		0.209	mg/kg	0.0000209 %	✓	
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				0.16	mg/kg		0.139	mg/kg	0.0000139 %	✓	
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				0.17	mg/kg		0.148	mg/kg	0.0000148 %	✓	
			205-883-8	191-24-2									
38		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
39		barium { barium sulphide }				220	mg/kg	1.233	236.091	mg/kg	0.0236 %	✓	
		016-002-00-X	244-214-4	21109-95-5									
40		vanadium { divanadium pentaoxide; vanadium pentoxide }				40	mg/kg	1.785	62.124	mg/kg	0.00621 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0828 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free phase liquids within strata - soils are dry at this depth.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00104%)

Classification of sample: CP02A---3.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
CP02A---3.50
Moisture content:
18%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19	mg/kg	1.32	20.571	mg/kg	0.00206 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.4	mg/kg	2.775	3.186	mg/kg	0.000319 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.4	mg/kg	3.22	3.696	mg/kg	0.00037 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	21.573	mg/kg	0.00216 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		46	mg/kg	1.126	42.469	mg/kg	0.00425 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	370	mg/kg	1.56	473.248	mg/kg	0.0303 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26	mg/kg	2.976	63.454	mg/kg	0.00635 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		61	mg/kg	2.774	138.763	mg/kg	0.0139 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
14	pH			PH		8	pH		8	pH	8pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
17		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
18		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		phenanthrene		201-581-5	85-01-8		0.39	mg/kg		0.32	mg/kg	0.000032 %	✓	
20		anthracene		204-371-1	120-12-7		0.08	mg/kg		0.0656	mg/kg	0.00000656 %	✓	
21		fluoranthene		205-912-4	206-44-0		0.48	mg/kg		0.394	mg/kg	0.0000394 %	✓	
22		pyrene		204-927-3	129-00-0		0.42	mg/kg		0.344	mg/kg	0.0000344 %	✓	
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.3	mg/kg		0.246	mg/kg	0.0000246 %	✓	
24		chrysene	601-048-00-0	205-923-4	218-01-9		0.31	mg/kg		0.254	mg/kg	0.0000254 %	✓	
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.31	mg/kg		0.254	mg/kg	0.0000254 %	✓	
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.12	mg/kg		0.0984	mg/kg	0.00000984 %	✓	
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.23	mg/kg		0.189	mg/kg	0.0000189 %	✓	
28		indeno[123-cd]pyrene		205-893-2	193-39-5		0.14	mg/kg		0.115	mg/kg	0.0000115 %	✓	
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		benzo[ghi]perylene		205-883-8	191-24-2		0.17	mg/kg		0.139	mg/kg	0.0000139 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
32		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		230	mg/kg	1.233	232.637	mg/kg	0.0233 %	✓	
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		52	mg/kg	1.785	76.12	mg/kg	0.00761 %	✓	
											Total:	0.0919 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: CP03---0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
CP03---0.50
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16	mg/kg	1.32	18.379	mg/kg	0.00184 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		2	mg/kg	2.775	4.829	mg/kg	0.000483 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<0.2	mg/kg	3.22	<0.644	mg/kg	<0.0000644 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25	mg/kg	1.462	31.789	mg/kg	0.00318 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		62	mg/kg	1.126	60.73	mg/kg	0.00607 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	140	mg/kg	1.56	189.985	mg/kg	0.0122 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.4	mg/kg	1.353	0.471	mg/kg	0.0000471 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		30	mg/kg	2.976	77.681	mg/kg	0.00777 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		120	mg/kg	2.774	289.621	mg/kg	0.029 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
14	pH			PH		8.2	pH		8.2	pH	8.2 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
17		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
18		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		phenanthrene		201-581-5	85-01-8		0.18	mg/kg		0.157	mg/kg	0.0000157 %	✓	
20		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		fluoranthene		205-912-4	206-44-0		0.18	mg/kg		0.157	mg/kg	0.0000157 %	✓	
22		pyrene		204-927-3	129-00-0		0.2	mg/kg		0.174	mg/kg	0.0000174 %	✓	
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.1	mg/kg		0.087	mg/kg	0.0000087 %	✓	
24		chrysene	601-048-00-0	205-923-4	218-01-9		0.11	mg/kg		0.0957	mg/kg	0.00000957 %	✓	
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.1	mg/kg		0.087	mg/kg	0.0000087 %	✓	
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.08	mg/kg		0.0696	mg/kg	0.00000696 %	✓	
28		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
32		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		190	mg/kg	1.233	203.897	mg/kg	0.0204 %	✓	
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		74	mg/kg	1.785	114.93	mg/kg	0.0115 %	✓	
											Total:	0.0936 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: CP03---1.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
CP03---1.50
Moisture content:
10%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 10% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17	mg/kg	1.32	20.201	mg/kg	0.00202 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1	mg/kg	2.775	2.748	mg/kg	0.000275 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.4	mg/kg	3.22	1.159	mg/kg	0.000116 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28	mg/kg	1.462	36.831	mg/kg	0.00368 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		50	mg/kg	1.126	50.665	mg/kg	0.00507 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	120	mg/kg	1.56	168.46	mg/kg	0.0108 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26	mg/kg	2.976	69.645	mg/kg	0.00696 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		82	mg/kg	2.774	204.732	mg/kg	0.0205 %	✓	
13	TPH (C6 to C40) petroleum group			TPH		<36.8	mg/kg		<36.8	mg/kg	<0.00368 %		<**LOD**
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
15	benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
16	toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20		pH			PH		8	pH		8	pH	8pH		
21		naphthalene	601-052-00-2	202-049-5	91-20-3		0.33	mg/kg		0.297	mg/kg	0.0000297 %	✓	
22		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		phenanthrene		201-581-5	85-01-8		0.53	mg/kg		0.477	mg/kg	0.0000477 %	✓	
26		anthracene		204-371-1	120-12-7		0.19	mg/kg		0.171	mg/kg	0.0000171 %	✓	
27		fluoranthene		205-912-4	206-44-0		0.7	mg/kg		0.63	mg/kg	0.000063 %	✓	
28		pyrene		204-927-3	129-00-0		0.63	mg/kg		0.567	mg/kg	0.0000567 %	✓	
29		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.39	mg/kg		0.351	mg/kg	0.0000351 %	✓	
30		chrysene	601-048-00-0	205-923-4	218-01-9		0.39	mg/kg		0.351	mg/kg	0.0000351 %	✓	
31		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.43	mg/kg		0.387	mg/kg	0.0000387 %	✓	
32		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.1	mg/kg		0.09	mg/kg	0.000009 %	✓	
33		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.3	mg/kg		0.27	mg/kg	0.000027 %	✓	
34		indeno[123-cd]pyrene		205-893-2	193-39-5		0.18	mg/kg		0.162	mg/kg	0.0000162 %	✓	
35		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
36		benzo[ghi]perylene		205-883-8	191-24-2		0.17	mg/kg		0.153	mg/kg	0.0000153 %	✓	
37		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
38		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		230	mg/kg	1.233	255.333	mg/kg	0.0255 %	✓	
39		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		84	mg/kg	1.785	134.96	mg/kg	0.0135 %	✓	
											Total:	0.0935 %		

Classification of sample: TP08---0.30

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP08---0.30
Moisture content:
9.8%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.8% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5 mg/kg	1.32	5.955 mg/kg	0.000595 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.46 mg/kg	2.775	1.152 mg/kg	0.000115 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.2 mg/kg	3.22	0.581 mg/kg	0.0000581 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.309 mg/kg	0.0000309 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	15.82 mg/kg	0.00158 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		39 mg/kg	1.126	39.606 mg/kg	0.00396 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	43 mg/kg	1.56	60.499 mg/kg	0.00388 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		12 mg/kg	2.976	32.215 mg/kg	0.00322 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		160 mg/kg	2.774	400.365 mg/kg	0.04 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
14	pH			PH		9.6 pH		9.6 pH	9.6 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.14 mg/kg		0.126 mg/kg	0.0000126 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
17		acenaphthene		201-469-6	83-32-9		0.12	mg/kg		0.108	mg/kg	0.0000108 %	✓	
18		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
19		phenanthrene		201-581-5	85-01-8		0.36	mg/kg		0.325	mg/kg	0.0000325 %	✓	
20		anthracene		204-371-1	120-12-7		0.1	mg/kg		0.0902	mg/kg	0.00000902 %	✓	
21		fluoranthene		205-912-4	206-44-0		0.61	mg/kg		0.55	mg/kg	0.000055 %	✓	
22		pyrene		204-927-3	129-00-0		0.59	mg/kg		0.532	mg/kg	0.0000532 %	✓	
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.31	mg/kg		0.28	mg/kg	0.000028 %	✓	
24		chrysene	601-048-00-0	205-923-4	218-01-9		0.32	mg/kg		0.289	mg/kg	0.0000289 %	✓	
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.4	mg/kg		0.361	mg/kg	0.0000361 %	✓	
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.19	mg/kg		0.171	mg/kg	0.0000171 %	✓	
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.29	mg/kg		0.262	mg/kg	0.0000262 %	✓	
28		indeno[123-cd]pyrene		205-893-2	193-39-5		0.21	mg/kg		0.189	mg/kg	0.0000189 %	✓	
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
30		benzo[ghi]perylene		205-883-8	191-24-2		0.23	mg/kg		0.207	mg/kg	0.0000207 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
32		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		150	mg/kg	1.233	166.892	mg/kg	0.0167 %	✓	
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		35	mg/kg	1.785	56.358	mg/kg	0.00564 %	✓	
											Total:	0.0772 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP08---0.90

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP08---0.90
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		68 mg/kg	1.32	79.008 mg/kg	0.0079 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		3.3 mg/kg	2.775	8.06 mg/kg	0.000806 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.3 mg/kg	3.22	0.85 mg/kg	0.000085 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	29.582 mg/kg	0.00296 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		240 mg/kg	1.126	237.788 mg/kg	0.0238 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	160 mg/kg	1.56	219.622 mg/kg	0.0141 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.9 mg/kg	1.353	2.263 mg/kg	0.000226 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		70 mg/kg	2.976	183.338 mg/kg	0.0183 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		130 mg/kg	2.774	317.362 mg/kg	0.0317 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				3.7 mg/kg	1.884	6.134 mg/kg	0.000613 %	✓	
14	pH			PH		7 pH		7 pH	7pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		2.3 mg/kg		2.024 mg/kg	0.000202 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
17		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
18		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		phenanthrene		201-581-5	85-01-8		2	mg/kg		1.76	mg/kg	0.000176 %	✓	
20		anthracene		204-371-1	120-12-7		0.14	mg/kg		0.123	mg/kg	0.0000123 %	✓	
21		fluoranthene		205-912-4	206-44-0		0.88	mg/kg		0.774	mg/kg	0.0000774 %	✓	
22		pyrene		204-927-3	129-00-0		0.88	mg/kg		0.774	mg/kg	0.0000774 %	✓	
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.59	mg/kg		0.519	mg/kg	0.0000519 %	✓	
24		chrysene	601-048-00-0	205-923-4	218-01-9		0.62	mg/kg		0.546	mg/kg	0.0000546 %	✓	
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.52	mg/kg		0.458	mg/kg	0.0000458 %	✓	
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.24	mg/kg		0.211	mg/kg	0.0000211 %	✓	
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.39	mg/kg		0.343	mg/kg	0.0000343 %	✓	
28		indeno[123-cd]pyrene		205-893-2	193-39-5		0.24	mg/kg		0.211	mg/kg	0.0000211 %	✓	
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		benzo[ghi]perylene		205-883-8	191-24-2		0.32	mg/kg		0.282	mg/kg	0.0000282 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
32		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		83	mg/kg	1.233	90.094	mg/kg	0.00901 %	✓	
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		150	mg/kg	1.785	235.644	mg/kg	0.0236 %	✓	
											Total:	0.135 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP08---2.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP08---2.20
Moisture content:
19%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25 mg/kg	1.32	26.737 mg/kg	0.00267 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.6 mg/kg	2.775	3.597 mg/kg	0.00036 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.2 mg/kg	3.22	0.522 mg/kg	0.0000522 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21 mg/kg	1.462	24.861 mg/kg	0.00249 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		54 mg/kg	1.126	49.246 mg/kg	0.00492 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	140 mg/kg	1.56	176.883 mg/kg	0.0113 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		40 mg/kg	2.976	96.431 mg/kg	0.00964 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		64 mg/kg	2.774	143.812 mg/kg	0.0144 %	✓	
13	TPH (C6 to C40) petroleum group			TPH		<36.8 mg/kg		<36.8 mg/kg	<0.00368 %		<LOD
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
15	benzene	601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	toluene	601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
20		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
21		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
23		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-469-6	83-32-9									
24		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
25		phenanthrene				0.12	mg/kg		0.0972	mg/kg	0.00000972 %	✓	
			201-581-5	85-01-8									
26		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-371-1	120-12-7									
27		fluoranthene				0.13	mg/kg		0.105	mg/kg	0.0000105 %	✓	
			205-912-4	206-44-0									
28		pyrene				0.13	mg/kg		0.105	mg/kg	0.0000105 %	✓	
			204-927-3	129-00-0									
29		benzo[a]anthracene				0.07	mg/kg		0.0567	mg/kg	0.00000567 %	✓	
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				0.07	mg/kg		0.0567	mg/kg	0.00000567 %	✓	
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				0.09	mg/kg		0.0729	mg/kg	0.00000729 %	✓	
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				0.05	mg/kg		0.0405	mg/kg	0.00000405 %	✓	
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-883-8	191-24-2									
37		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
38		barium { barium sulphide }				220	mg/kg	1.233	219.809	mg/kg	0.022 %	✓	
		016-002-00-X	244-214-4	21109-95-5									
39		vanadium { divanadium pentaoxide; vanadium pentoxide }				78	mg/kg	1.785	112.788	mg/kg	0.0113 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0839 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP06---0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP06---0.50
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		59	mg/kg	1.32	65.435	mg/kg	0.00654 %	✓	
2		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		2.2	mg/kg	2.775	5.129	mg/kg	0.000513 %	✓	
3		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<0.2	mg/kg	3.22	<0.644	mg/kg	<0.0000644 %		<**LOD**
4		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19	mg/kg	1.462	23.326	mg/kg	0.00233 %	✓	
6		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		140	mg/kg	1.126	132.404	mg/kg	0.0132 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	140	mg/kg	1.56	183.434	mg/kg	0.0118 %	✓	
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.4	mg/kg	1.353	0.455	mg/kg	0.0000455 %	✓	
10		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		57	mg/kg	2.976	142.504	mg/kg	0.0143 %	✓	
11		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		87	mg/kg	2.774	202.735	mg/kg	0.0203 %	✓	
13		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
14		pH			PH		8	pH		8	pH	8pH		
15		naphthalene	601-052-00-2	202-049-5	91-20-3		1.5	mg/kg		1.26	mg/kg	0.000126 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
17		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
18		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		phenanthrene		201-581-5	85-01-8		1.5	mg/kg		1.26	mg/kg	0.000126 %	✓	
20		anthracene		204-371-1	120-12-7		0.15	mg/kg		0.126	mg/kg	0.0000126 %	✓	
21		fluoranthene		205-912-4	206-44-0		1.3	mg/kg		1.092	mg/kg	0.000109 %	✓	
22		pyrene		204-927-3	129-00-0		1.1	mg/kg		0.924	mg/kg	0.0000924 %	✓	
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.74	mg/kg		0.622	mg/kg	0.0000622 %	✓	
24		chrysene	601-048-00-0	205-923-4	218-01-9		0.72	mg/kg		0.605	mg/kg	0.0000605 %	✓	
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.78	mg/kg		0.655	mg/kg	0.0000655 %	✓	
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.33	mg/kg		0.277	mg/kg	0.0000277 %	✓	
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.56	mg/kg		0.47	mg/kg	0.000047 %	✓	
28		indeno[123-cd]pyrene		205-893-2	193-39-5		0.33	mg/kg		0.277	mg/kg	0.0000277 %	✓	
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.12	mg/kg		0.101	mg/kg	0.0000101 %	✓	
30		benzo[ghi]perylene		205-883-8	191-24-2		0.43	mg/kg		0.361	mg/kg	0.0000361 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
32		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		920	mg/kg	1.233	953.244	mg/kg	0.0953 %	✓	
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		120	mg/kg	1.785	179.947	mg/kg	0.018 %	✓	
											Total:	0.184 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP06---1.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP06---1.50
Moisture content:
6.3%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.3% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		42 mg/kg	1.32	51.96 mg/kg	0.0052 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.97 mg/kg	2.775	2.522 mg/kg	0.000252 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.5 mg/kg	3.22	1.509 mg/kg	0.000151 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	16.434 mg/kg	0.00164 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		84 mg/kg	1.126	88.616 mg/kg	0.00886 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	210 mg/kg	1.56	306.925 mg/kg	0.0197 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.8 mg/kg	1.353	1.015 mg/kg	0.000101 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.976	52.986 mg/kg	0.0053 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		120 mg/kg	2.774	311.925 mg/kg	0.0312 %	✓	
13	TPH (C6 to C40) petroleum group			TPH		46 mg/kg		43.102 mg/kg	0.00431 %	✓	
14	confirm TPH has NOT arisen from diesel or petrol					☑					
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
20		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
21		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
22		naphthalene				0.3	mg/kg		0.281	mg/kg	0.0000281 %	✓	
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				0.19	mg/kg		0.178	mg/kg	0.0000178 %	✓	
			205-917-1	208-96-8									
24		acenaphthene				0.09	mg/kg		0.0843	mg/kg	0.00000843 %	✓	
			201-469-6	83-32-9									
25		fluorene				0.09	mg/kg		0.0843	mg/kg	0.00000843 %	✓	
			201-695-5	86-73-7									
26		phenanthrene				2.4	mg/kg		2.249	mg/kg	0.000225 %	✓	
			201-581-5	85-01-8									
27		anthracene				0.59	mg/kg		0.553	mg/kg	0.0000553 %	✓	
			204-371-1	120-12-7									
28		fluoranthene				4.8	mg/kg		4.498	mg/kg	0.00045 %	✓	
			205-912-4	206-44-0									
29		pyrene				3.7	mg/kg		3.467	mg/kg	0.000347 %	✓	
			204-927-3	129-00-0									
30		benzo[a]anthracene				2.6	mg/kg		2.436	mg/kg	0.000244 %	✓	
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				2.8	mg/kg		2.624	mg/kg	0.000262 %	✓	
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				3.4	mg/kg		3.186	mg/kg	0.000319 %	✓	
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				1.4	mg/kg		1.312	mg/kg	0.000131 %	✓	
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				2	mg/kg		1.874	mg/kg	0.000187 %	✓	
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				1.6	mg/kg		1.499	mg/kg	0.00015 %	✓	
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				1.5	mg/kg		1.406	mg/kg	0.000141 %	✓	
			205-883-8	191-24-2									
38		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
39		barium { barium sulphide }				210	mg/kg	1.233	242.715	mg/kg	0.0243 %	✓	
		016-002-00-X	244-214-4	21109-95-5									
40		vanadium { divanadium pentaoxide; vanadium pentoxide }				39	mg/kg	1.785	65.236	mg/kg	0.00652 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.111 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free phase liquids within strata - soils are dry at this depth.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00431%)

Classification of sample: TP02---0.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP02---0.70
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		26 mg/kg	1.32	30.209 mg/kg	0.00302 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	2.687 mg/kg	0.000269 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<0.2 mg/kg	3.22	<0.644 mg/kg	<0.0000644 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	16.72 mg/kg	0.00167 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		66 mg/kg	1.126	65.392 mg/kg	0.00654 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	190 mg/kg	1.56	260.801 mg/kg	0.0167 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2.3 mg/kg	1.353	2.739 mg/kg	0.000274 %	✓	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.976	55.001 mg/kg	0.0055 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		170 mg/kg	2.774	415.012 mg/kg	0.0415 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
14	pH			PH		8.8 pH		8.8 pH	8.8 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.39 mg/kg		0.343 mg/kg	0.0000343 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		acenaphthylene		205-917-1	208-96-8		0.13	mg/kg		0.114	mg/kg	0.0000114 %	✓	
17		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
18		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
19		phenanthrene		201-581-5	85-01-8		2.6	mg/kg		2.288	mg/kg	0.000229 %	✓	
20		anthracene		204-371-1	120-12-7		0.49	mg/kg		0.431	mg/kg	0.0000431 %	✓	
21		fluoranthene		205-912-4	206-44-0		4.7	mg/kg		4.136	mg/kg	0.000414 %	✓	
22		pyrene		204-927-3	129-00-0		3.8	mg/kg		3.344	mg/kg	0.000334 %	✓	
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.2	mg/kg		1.936	mg/kg	0.000194 %	✓	
24		chrysene	601-048-00-0	205-923-4	218-01-9		2.2	mg/kg		1.936	mg/kg	0.000194 %	✓	
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.7	mg/kg		2.376	mg/kg	0.000238 %	✓	
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.2	mg/kg		1.056	mg/kg	0.000106 %	✓	
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.1	mg/kg		1.848	mg/kg	0.000185 %	✓	
28		indeno[123-cd]pyrene		205-893-2	193-39-5		1.5	mg/kg		1.32	mg/kg	0.000132 %	✓	
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.39	mg/kg		0.343	mg/kg	0.0000343 %	✓	
30		benzo[ghi]perylene		205-883-8	191-24-2		1.6	mg/kg		1.408	mg/kg	0.000141 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
32		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		420	mg/kg	1.233	455.899	mg/kg	0.0456 %	✓	
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		44	mg/kg	1.785	69.122	mg/kg	0.00691 %	✓	
											Total:	0.131 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP01---0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP01---0.50
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.6 mg/kg	1.32	10.52 mg/kg	0.00105 %	✓	
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	2.534 mg/kg	0.000253 %	✓	
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	1.871 mg/kg	0.000187 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.379 mg/kg	0.0000379 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	21.836 mg/kg	0.00218 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30 mg/kg	1.126	28.035 mg/kg	0.0028 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	34 mg/kg	1.56	44.018 mg/kg	0.00282 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.976	51.876 mg/kg	0.00519 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		110 mg/kg	2.774	253.28 mg/kg	0.0253 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
14	pH			PH		9.7 pH		9.7 pH	9.7 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
17		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
18		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
19		phenanthrene		201-581-5	85-01-8		0.07	mg/kg		0.0581	mg/kg	0.00000581 %	✓	
20		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		fluoranthene		205-912-4	206-44-0		0.09	mg/kg		0.0747	mg/kg	0.00000747 %	✓	
22		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
32		barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5		210	mg/kg	1.233	214.998	mg/kg	0.0215 %	✓	
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		43	mg/kg	1.785	63.713	mg/kg	0.00637 %	✓	
											Total:	0.0688 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

- **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

- **pH** (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

- **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

- **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

- **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

- **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 £ conc. < 3 % , Eye Irrit. 2; H319 1 £ conc. < 3 % , Aquatic Chronic 2; H411

barium sulphide (EC Number: 244-214-4, CAS Number: 21109-95-5)

GB MCL index number: 016-002-00-X
Description/Comments:
Additional Hazard Statement(s): EUH031 >= 0.8 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH031 >= 0.8 % hazard statement sourced from: WM3, Table C12.2

divanadium pentaoxide; vanadium pentoxide (EC Number: 215-239-8, CAS Number: 1314-62-1)

GB MCL index number: 023-001-00-8
Description/Comments: Hazard statements H301, H330, H350 added by HazWasteOnline due to ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be Carc. 1B; H350. The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List]. Substance has therefore been self-classified.
Additional Hazard Statement(s): Carc. 1B; H350 , Acute Tox. 3; H301 , Acute Tox. 2; H330
Reason for additional Hazards Statement(s):
20 Sep 2022 - Carc. 1B; H350 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be Carc. 1B; H350. The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List]. Substance has therefore been self-classified.
28 Sep 2022 - Acute Tox. 3; H301 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 3; H301". The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List]. Substance has therefore been self-classified.
28 Sep 2022 - Acute Tox. 2; H330 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 2; H330". The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List]. Substance has therefore been self-classified.

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

confirm TPH has NOT arisen from diesel or petrol

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics (edit as required)

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species based on hazard statements/molecular weight (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

barium {barium sulphide}

Not enough chromium to make chromate

vanadium {divanadium pentaoxide; vanadium pentoxide}

Only option

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2023.237.5731.10565 (25 Aug 2023)
HazWasteOnline Database: 2023.237.5731.10565 (25 Aug 2023)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix I Monitoring Results

GAS MONITORING RECORD

Job Name: Crossgate
Job No. G23017

BH No.	Date	Time	Time of High Tide	Atmospheric Pressure (mB)	Gas Levels									Flow (l/hr)	Water Level (m, bgl)	Base of Monitoring Well	Comments/Remarks	Weather
					CH_4 (%vol)		CO_2 (%vol)		O_2 (%vol)		CO (ppm)	H_2S (ppm)	LEL (%)					
					Peak	Steady	Peak	Steady	Peak	Steady								
CP01	04/08/2023	07:05		1012	-0.2	-0.2	0.7	0.7	19	18.9	0	0	<<<	0.0	3.3	4.66	Rising pressure	Overcast
	09/08/2023	14:15		1010	0.0	0.0	0.9	0.9	18.7	18.7	0	0	0	0.0	3.28	4.66	Rising pressure	Cloudy Dry
	14/08/2023	14:30		1003	0.0	0.0	0.0	0.0	20.5	20.5	0	0	0	0.0	3.22	4.65	Falling pressure	Rain
	23/08/2023	07:25		1011	0.0	0.0	0.8	0.8	19.4	19.4	0	0	0	0.0	3.29	4.65	Falling pressure	Overcast
CP02A	04/08/2023	07:15		1012	0.0	0.0	3.8	3.8	20.1	14.4	0	0	<<<	0.0	2.32	3.85	Rising pressure	Overcast
	09/08/2023	14:20		1010	0.0	0.0	4.4	4.4	13.7	13.7	0	0	0	0.0	2.33	3.85	Rising pressure	Cloudy Dry
	14/08/2023	14:35		1003	0.0	0.0	3.1	3.1	16.8	16.8	0	0	0	0.0	2.35	3.85	Falling pressure	Rain
	23/08/2023	07:35		1011	0.0	0.0	3.7	3.7	16.1	16.1	0	0	0	0.0	2.34	3.85	Falling pressure	Overcast
CP03	04/08/2023	07:20		1012	-0.2	-0.2	0.1	0.0	20.0	20.0	0	0	<<<	0.0	2.41	7.83	Rising pressure	Overcast
	09/08/2023	14:25		1010	0.0	0.0	0.0	0.0	20.7	20.7	0	0	0	0.0	2.4	7.82	Rising pressure	Cloudy Dry
	14/08/2023	14:45		1003	0.0	0.0	0.0	0.0	20.1	20.1	0	0	0	0.0	2.4	7.82	Falling pressure	Rain
	23/08/2023	07:40		1011	0.0	0.0	0.1	0.0	20.8	20.8	0	0	0	0.0	2.36	7.82	Falling pressure	Overcast
Max				1012	0	0	4.4	4.4	20.8	20.8	0	0	0	0	3.3	7.83		
Min				1003	-0.2	-0.2	0	0	13.7	13.7	0	0	0	0	2.32	3.85		

Stokesley Office
Offices 8 Navigation House
16 Ellerbeck Way
Stokesley
North Yorkshire
TS9 5JZ
Tel: +44 (0)1642 927420
info@rwo.group
www.rwo.group

