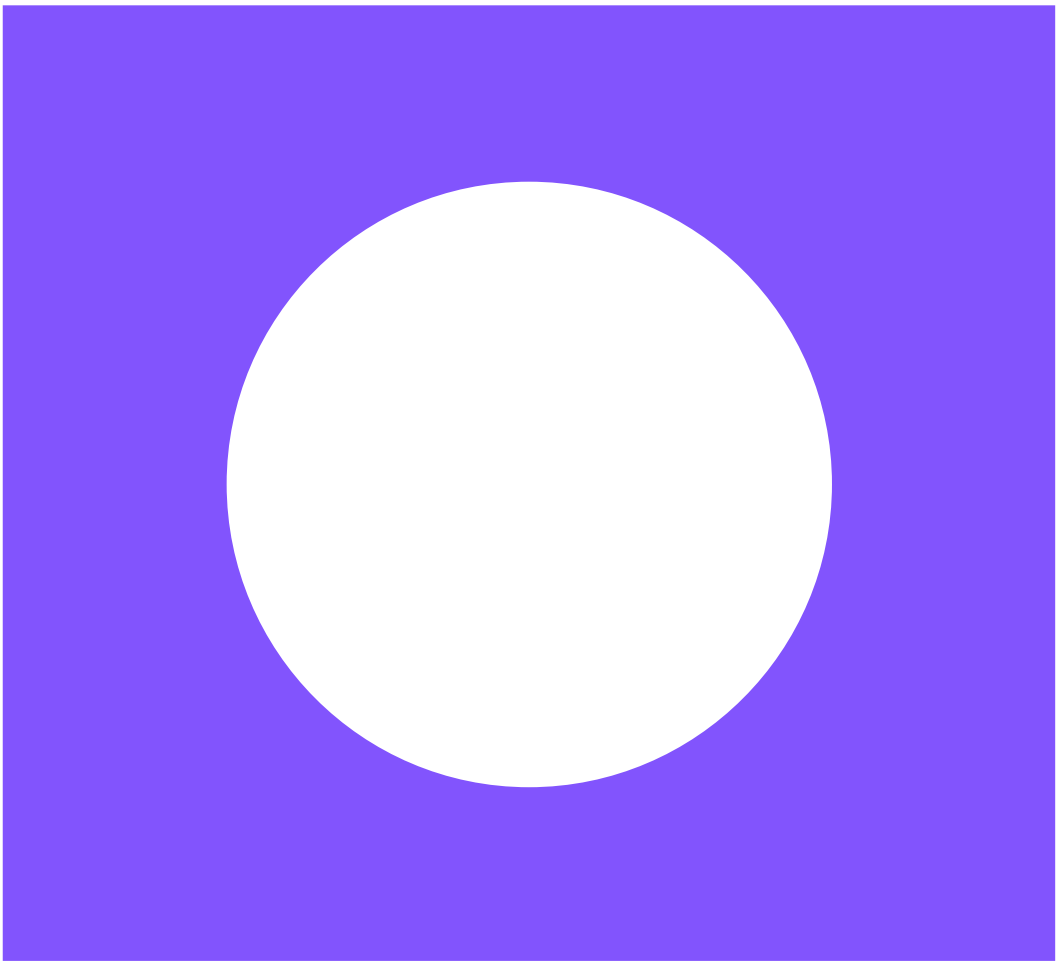
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Salisbury Diagnostic and Surgical Hub

Geotechnical and Geo-environmental Desk Study

July 2026

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Salisbury Diagnostic and Surgical Hub

Geotechnical and Geo-environmental Desk Study

July 2026

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Issue and Revision Record

Revision	Date	Originator	Checker	Approver	Description
P01	June 2025	E Obiora S Eyers-Young	S Eyers-Young J Southall	M Gipson	Draft for comment
P02	March 2026	E Obiora	S Eyers-Young	M Gipson	Update following amendment of scheme to the DASH
P03	April 2026	E Obiora	S Eyers-Young	M Gipson	Update following amendment to the red line boundary of the DASH
P04	April 2026	E Obiora	S Eyers-Young	M Gipson	Update following comments from the Planning Consultant
P05	June 2026	E Obiora	S Eyers-Young	M Gipson	Update following inclusion of requirement for soakaways
P06	June 2026	E Obiora	S Eyers-Young	M Gipson	Update following comments
P07	July 2026	E Obiora	S Eyers-Young	M Gipson	Update following amendment to the red line boundary
P08	July 2026	E Obiora	S Eyers-Young	M Gipson	Update following amendment to the red line boundary

Document reference: STECC-MMD-XX-XX-RP-GE-100001 | P08

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1 Introduction

1.1 Background

Mott MacDonald has been instructed by Salisbury National Health Service (NHS) Foundation Trust to provide a Geotechnical and Geo-environmental Desk Study for the new Salisbury Diagnostic and Surgical Hub (DASH) at the Salisbury District Hospital.

1.2 Objectives

The purpose of this report is to summarise the available ground-related information for the site and identify potential geotechnical and geo-environmental hazards that may constrain the proposed development. These hazards may pose a risk to the proposed development itself, human health, or the environment. By identifying these risks at an early stage, opportunity is provided to consider them while undertaking the optioneering process and thereby minimise or take into account abnormal development costs associated with ground related risks.

Recommendations are provided at the end of this report to aid the management of the identified ground-related risks.

1.3 Proposed Works

This report is based on the latest scheme proposal available at the time of writing and could require update should significant changes be proposed at a later date.

The proposed works comprises a split-level building due to the site's topography, presenting as two storeys in the southern side increasing to three storeys in the north.

The proposed works will consist of;

- A diagnostics and surgical hub which includes imaging, endoscopy unit, theatres, staff spaces, plant room and an entrance with associated infrastructure such as access roads and external plant compound [1] [2] [3].
- Soakaways will be utilised to disperse surface water run-off from buildings and hardstanding areas.

1.4 Limitations and Uncertainties

This report is based primarily on information collated from desk-based activities, with no site visit undertaken. Therefore, those using or relying on the information herein should recognise the uncertainties associated with desk-based assessment of information.

This document is issued for the party which commissioned it (Salisbury NHS Foundation Trust) and for specific purposes connected with the above-captioned project only. It should not be relied upon by any other party or used for any other purpose.

Mott MacDonald is not insured for toxic mould or asbestos. Should the presence of asbestos or toxic mould be suspected during the study, Mott MacDonald would recommend the appointment of a specialist contractor to address the issue and would not provide advice on risk or remedial measures. The assessment of radiation is out with the scope of this report.

2 General Site Information

2.1 Site Location

The site is within the grounds of Salisbury District Hospital which is approximately 3km south of the centre of the city of Salisbury. The site is bordered to the west by the Victoria Drive East Road, to the north and south by the hospital's Car Park 9 and 10 respectively, and the east by underdeveloped agricultural land. The site is centred at an approximate National Grid Reference of 415121 and 127244. Figure 2.1 shows the site's location.

Figure 2.1: Site Location



Source: Mott MacDonald 2026

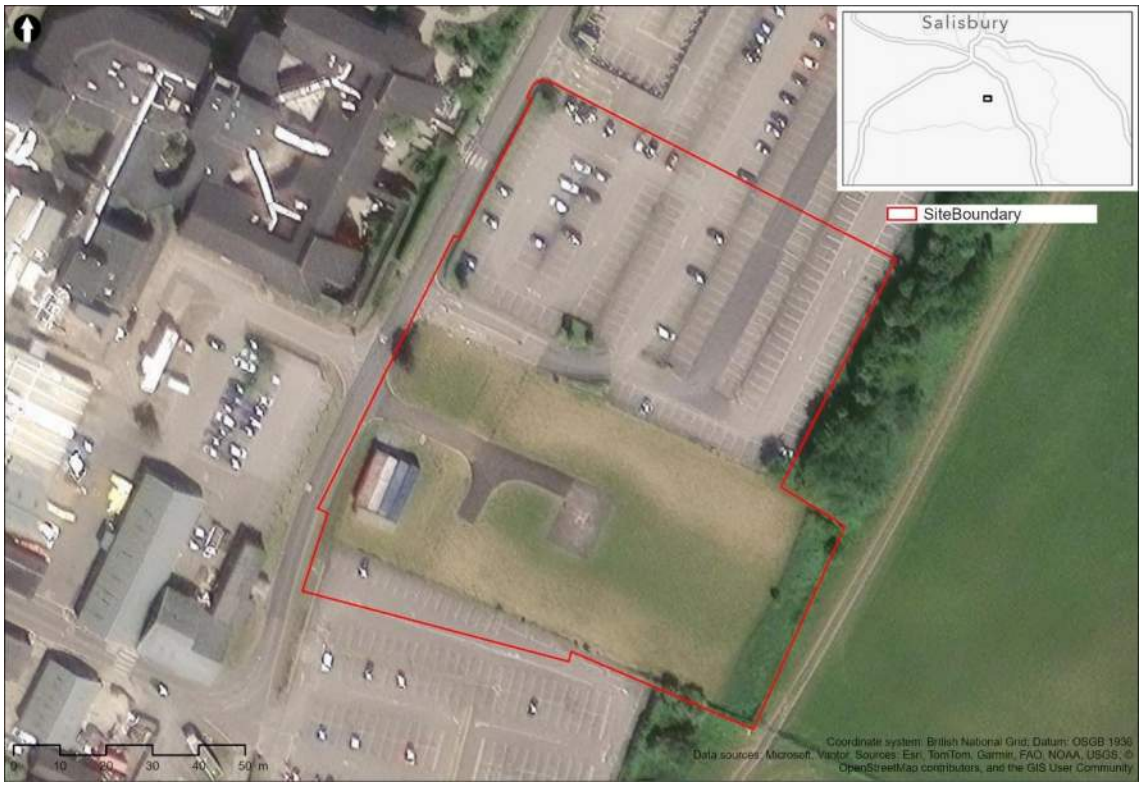
2.2 Site Description

The site comprises a combination of areas of existing hardstanding used as the hospital's Carpark 9. The land use in the southern half of the site comprises of the hospital's emergency helipad surrounded by grassland and some containers are present in the southwestern corner. The hospital's Car Park 9 is in the northern half of the site.

There is dense tree vegetation adjacent to the northeastern part of the site which separates the carpark and open agricultural land.

Review of aerial imagery indicates some reworked areas around the helipad in the southern half of the site. Figure 2.2 shows the site's layout.

Figure 2.2: Site Layout



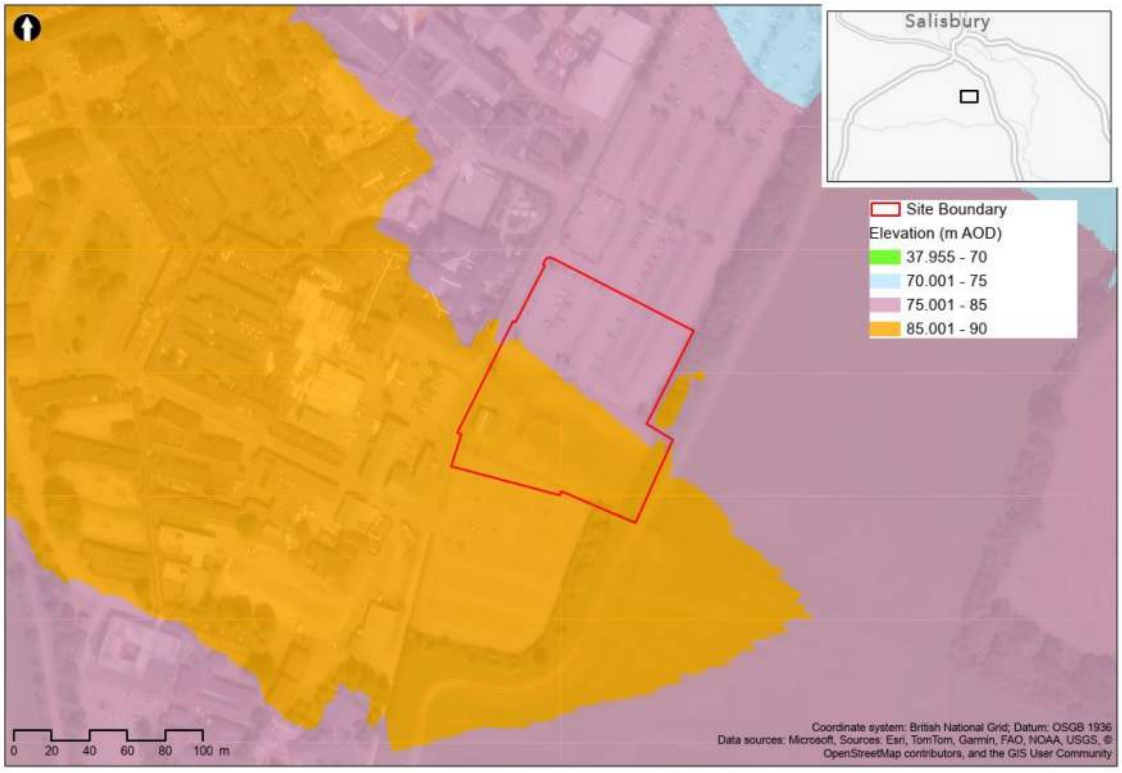
Source: Mott MacDonald 2026

2.3 Topography

Ordnance Survey mapping and Lidar imagery shows that the site's topography is approximately between 82 and 87.3m AOD sloping gently from southwest/south to the north/northeast, with the highest point on the site being in the west at approximately 87m AOD and the lowest point in the northeast.

A topographical survey [4] [5] undertaken for the site indicates that the site level ranges approximately from 87m AOD to 83m AOD sloping from southwest to northeast. The area of the helipad is approximately 85.70m AOD and with the lowest elevation within the site being at northeast at 82.4m AOD. The topographical drawings are presented in Appendix D.

Figure 2.3: Site Topography from Lidar Imagery



Source: Mott MacDonald Ltd (2026). Contains open-source Lidar imagery © Crown Copyright 2026. [6]

2.4 Utilities

A C2 utility search [7] carried out on the site, indicates that there is a sewage line within the western end of the site, parallel to the western boundary – south. There are underground telecommunication and electrical cables along the Victoria Drive East Road approximately 4m west of the site boundary.

Furthermore, a utility survey [8] has also been undertaken on the site, this indicates that the site is site is underlain by underground electric and telecommunication cables, surface water sewers, and drainage. Traffic controls cables were also present along the western boundary of the site. Please refer to Appendix C for the utility survey plans of the site.

3 Published Geology

The following sources of information were consulted when assessing the geology of the site:

- British Geological Survey, GeoIndex Onshore Viewer [9]
- British Geological Survey, 1:50,000 England and Wales Sheet 298 Salisbury. Bedrock and Superficial Deposits [10]
- British Geological Survey, 1:10,000 Geology Series Sheet SU12NE (Alderbury) [11].
- British Geological Survey, Geology of the Salisbury district. Sheet description of the British Geological Survey 1:50 000 Series Sheet 298 (England and Wales) [12].
- Landmark Envirocheck Report [13] (presented in Appendix A).

3.1 Artificial Ground

According to the BGS 1:10,000 geological mapping, Landscaped Ground is present beneath the all of the site. Landscaped Ground is defined by the BGS as an area of modified ground where the land surface (natural or artificial) has been lowered or raised because of man-made excavations such as roads and pavements. Based on the site current use it is likely that reworked materials will be encountered on site in relation to the car parks and helipad.

Figure 3.1: Artificial Ground

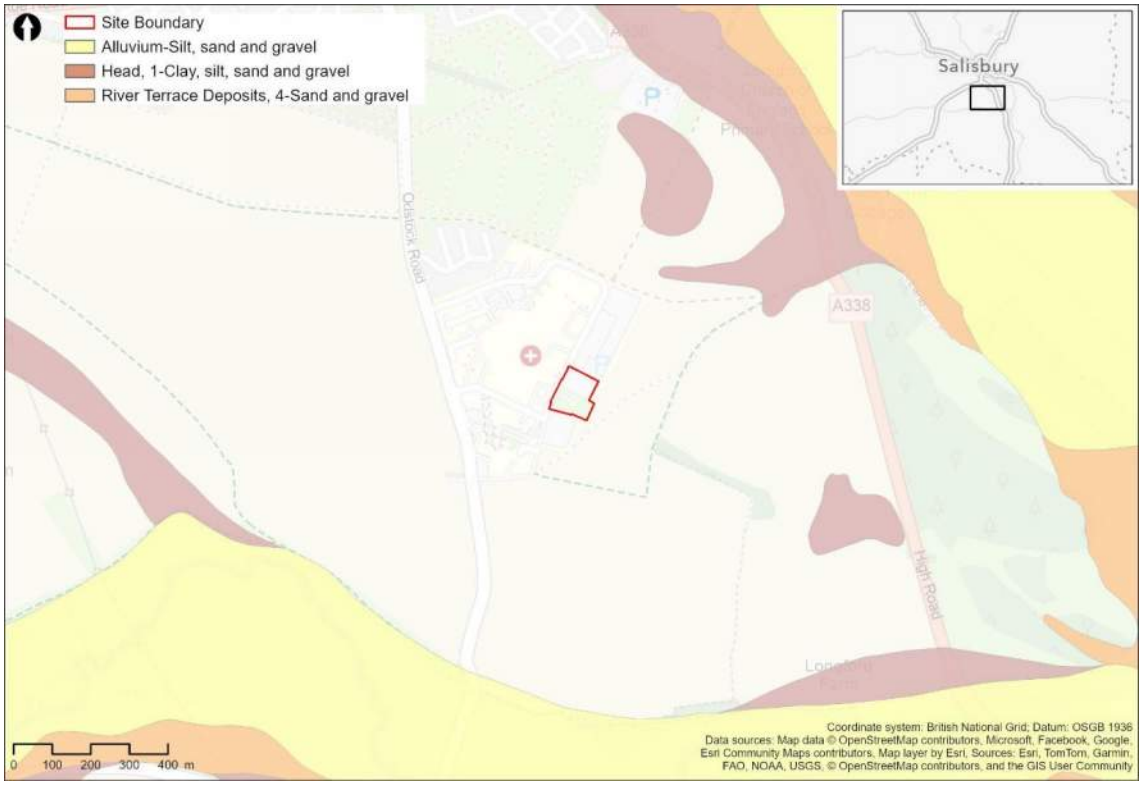


Source: data extracted from British Geological Survey. 1:50,000 England and Wales Sheet 298 Salisbury. Bedrock and Superficial Deposit. Contains British Geological Survey materials © NERC [2026]

3.2 Superficial Geology

The BGS mapping indicates that there are no mapped superficial strata within the footprint of the proposed site (Figure 3.2), with the closest superficial deposits is mapped approximately 310m northeast of the site (Head Deposits). Lack of mapped superficial strata suggests that rockhead could be at or near the current ground level.

Figure 3.2: Superficial Geology



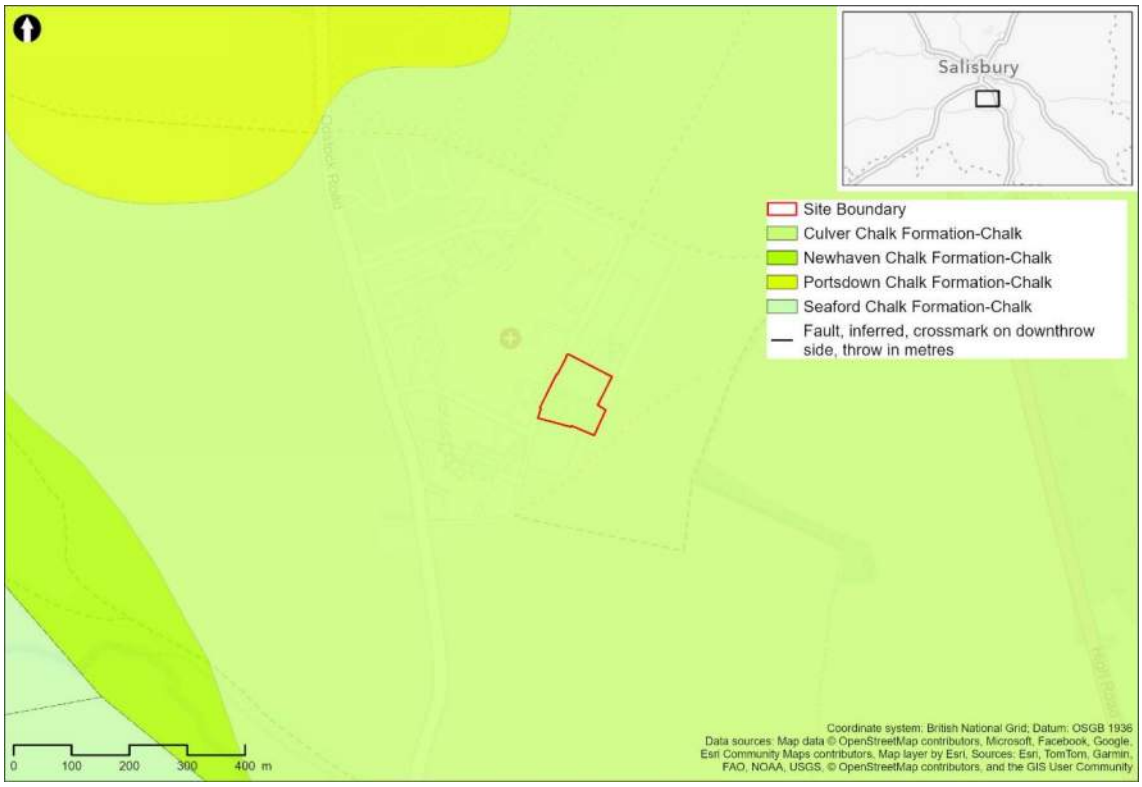
Source: Mott MacDonald Ltd (2026). Contains British Geological Survey materials © NERC [2026] .

3.3 Bedrock Geology

The BGS mapping indicates that the entire site and the surrounding area is underlain by the Culver Chalk Formation (Figure 3.3), likely at or near surface due to the lack of mapped superficial deposits. The unit is gently dipping to the southeast

The Culver Chalk Formation forms part of the White Chalk Subgroup is composed of soft white chalk with large nodular flint seams and many thin marl seams [11]. The lower boundary is conformable where the unit overlies the Newhaven Chalk Formation. The upper boundary is conformable at the Portsdown Marls of the overlying Portsdown Chalk Formation. The BGS geological memoir indicates that the unit is between 35 and 45m thick within the Salisbury area [12].

Figure 3.3: Bedrock Geology



Source: Mott MacDonald Ltd (2026),. Contains British Geological Survey materials © NERC [2026] .

3.4 Structural Geology

BGS mapping [9] records no structural features (e.g. faults) within the site boundary or within a 500m radius of the site, with the nearest fault (Mere Fault) mapped approximately 900m south west of the site. Although no features are recorded below the site, this does not preclude the potential presence of small and/or unmapped faults and folds.

3.5 Hydrogeology

3.5.1 Aquifer Designation

The BGS GeoIndex [9] and the Envirocheck Report [13] indicated that the site is underlain by a Principal aquifer which is Culver Chalk Formation (White Chalk Subgroup). Principal aquifers are defined by the Environment Agency as aquifers that provide significant quantities of drinking water, and water for business needs. They may also support rivers, lakes and wetlands [14].

3.5.2 Groundwater Vulnerability

The site is within an area of high vulnerability of groundwater within the Principal Bedrock Aquifer (Culver Chalk Formation). The site is not within a groundwater Source Protection Zone.

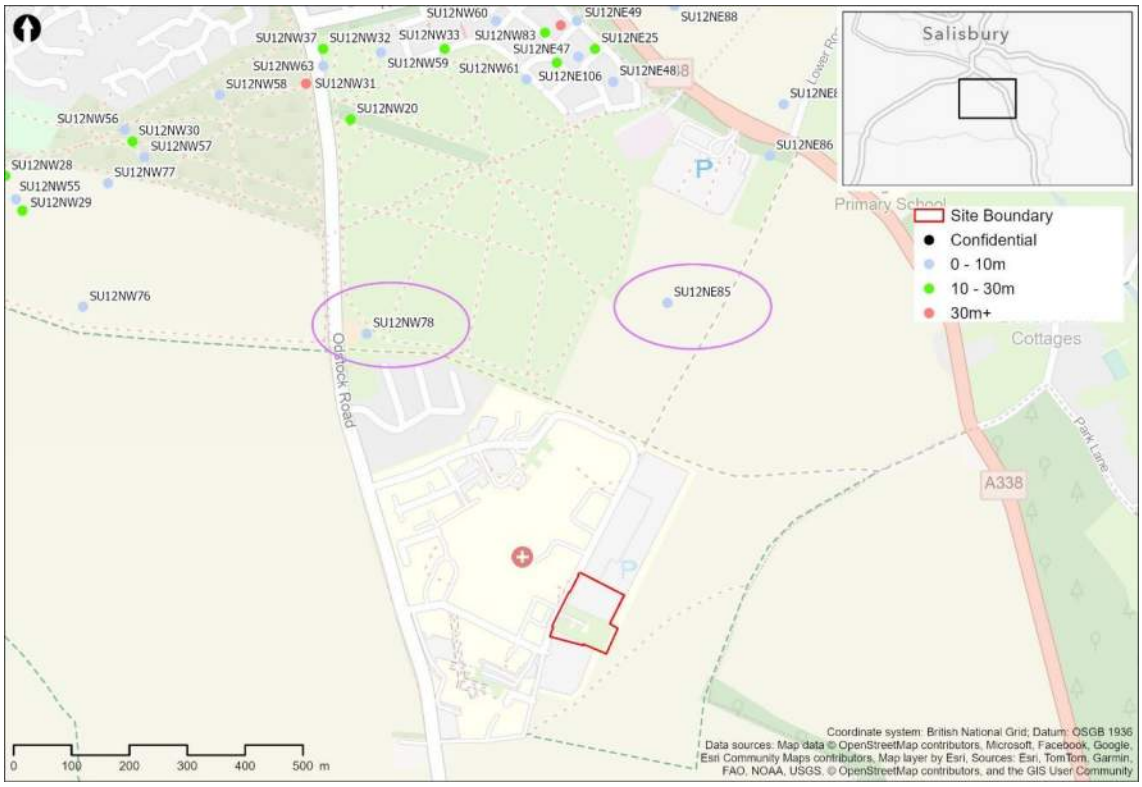
3.6 Historical BGS Exploratory Records

Following a review of the BGS GeoIndex onshore viewer [9] the nearest two exploratory holes (SU12NE85 and SU12NW78) have been reviewed and are summarised in Table 3.1 (and shown in Figure 3.4).

Table 3.1: Summary of Reviewed BGS Exploratory Holes

BGS Reference	Easting	Northing	Distance from Site (m)	Compass Direction	Elevation (m AOD)	Depth (m bgl)
SU12NE85	415195.8E	127791	473	NW	76.35	4.1
SU12NW78	414675	127738	548	NW	88.53	4.0

Figure 3.4: Locations of exploratory holes.



Source: Mott MacDonald Ltd (2026). Contains British Geological Survey materials © NERC [2026]

3.7 Mines and Quarries

3.7.1 BGS Recorded Mineral Sites

There are two BGS records within 1km of the site, Manor Farm Gravel Pit 520m north and Bridge Farm Chalk Pit 771m northwest [13]. Full details are presented within the Envirocheck Report in Appendix A.

3.7.2 Mines /Quarries

There is one recorded mine/quarry within 1km of the proposed site detailed below. It should be noted that at the time of writing this report the natural cavity database has not been assessed, and there is risk to encounter cavities on the site.

- Name: Workings (Dis); Location: SP5; Distance: 402m East; NGR (415489, 127099); Category: Extractive Industries.

3.8 Estimated Soil Chemistry

The estimated soil chemistry concentration values were measured within the site boundary and are summarised in Table 3.2 [13].

Table 3.2: Soil Chemistry Values

Chemical	Estimated Soil Chemistry (mg/kg)
Arsenic	<15
Cadmium	<1.8
Chromium	60 -90
Lead	<100
Nickel	<15

3.9 Ground Stability

Potential ground stability issues identified by the BGS National Geoscience Information Service as part of the Envirocheck report [13] are summarised below. For further information, reference should be made to the Envirocheck Report in Appendix A.

- Compressible Ground Stability Hazards – no hazard;
- Collapsible Ground Stability Hazards – very low;
- Landslide Ground Stability Hazards – no hazard;
- Ground Dissolution Stability Hazards – very low;
- Running Sand Ground Stability Hazards – no hazard; and
- Potential for Shrinking or Swelling Clay Ground Stability Hazards – no hazard.

3.10 Radon Potential

Public Health England UK Radon Map suggests the site is located within an area with the lowest radon potential, where less than 1% of homes are above the action level.

4 Historical Ground Investigation

This Section comprises a summary the historical ground investigations information provided by the Client at the time of writing this report. For full details on the information provided within this Section, the reports referenced should be consulted.

4.1 CJ Associates Geotechnical Limited (2008)

A Ground Investigation was completed in between 10 and 12 November 2008, by CJ Associates Geotechnical Limited at a site termed as 'Site B' located within the grounds of the Salisbury District Hospital approximately 100m northwest of the proposed site of the Diagnostic and Surgical Hub (see Figure 4.1).

The draft report dated January 2009 [15] includes factual data and interpretative reporting of the Ground Investigation (GI) works, the ground conditions encountered, in-situ and laboratory testing and subsequent interpretation. A final copy of this report has not been made available at the time of writing.

Figure 4.1: Site Location of the 2008 Ground Investigation



Source: Mott MacDonald Ltd (2026).

The ground conditions encountered comprised made ground up to a thickness of 1.4m overlying structureless Chalk (Grade Dc) which was encountered at shallow depths (0.36 m bgl). No visual or olfactory evidence of contamination was observed. For further details, please refer to a summary of the report included within Appendix F.

4.2 CJ Associates Geotechnical Limited (2022)

A Ground Investigation was completed in between 6 and 8 October 2022, by CJ Associates Geotechnical Limited to inform the development of the proposed new Elective Surgery Recovery Ward, Salisbury Hospital. The site is located within the grounds of the Salisbury District Hospital approximately 100m northwest of the proposed site of the new Diagnostic and Surgical Hub (see 4.2). It should be noted that the site is in the same location as Site B highlighted in Section 4.1.

The report dated December 2022 [16] includes factual data and interpretative reporting of the Ground Investigation (GI) works, the ground conditions encountered, in-situ and laboratory testing and subsequent interpretation.

Figure 4.2: Site Location of the 2022 Ground Investigation



Source: Mott MacDonald Ltd (2026)

The encountered ground conditions comprised of Made Ground overlying possible reworked Chalk and the Culver Chalk Formation (Grade Dc). No groundwater strikes were observed in the exploratory holes. No visual or olfactory evidence of contamination was observed.

Groundwater monitoring was undertaken in two boreholes with response zones between 0.9 and 5.0m bgl in reworked chalk and Grade Dc structureless chalk. Monitoring results indicate that the groundwater level were between 4.80 and 4.88m bgl.

For further details, please refer to a summary of the report included within Appendix F.

5 Additional Site Information

This Section contains additional site information from Envirocheck and preliminary UXO risk assessment reports [13] [17] to enhance the comprehensiveness of this report.

It should be noted that red line boundary presented with the Envirocheck and preliminary UXO risk assessment reports does not reflect the current boundary of the site (presented in this report), due to the report being procured prior to the recent amendment of the site boundary. Nevertheless, all information in this Section is referenced against the latest site boundary.

5.1 Site History

A summary of historical land use and development within 1km of the proposed site is detailed in Table 5.1, highlighting the major changes observed from the Envirocheck historical maps [13] and freely available online aerial imagery. Only maps where significant changes are observed are included within the summary. The full set of historical maps is presented in Appendix A of the Envirocheck Report.

Table 5.1: Summary of Historical Land Use

Year	Scale	Land Use and Development
1886 - 1927	1:10,560 and 1:2500	**Onsite** The site comprises of underdeveloped land. There is a foot path along the southern boundary of the site **Offsite** The site borders a road in the western boundary. A foot path is located approximately 30m east of the site. Majority of land within 500m of the proposed site is underdeveloped. The town of Britford is located approximately 1km northeast and Odstock 1km south of the site. There are four pits within 1km of the site and a gravel pit is located approximately 500m east from the site. A Chalk pit is located approximately 750m northwest of the site. There are two small areas of trees located approximately 415 and 655m east of the site, which are later recorded on the 1995 map as Pit (disused).
1962 - 1987	1:10,560 and 1:2500	**Onsite** No major changes observed, site remains undeveloped. **Offsite** Odstock General Hospital borders the site in the west with associated buildings, first recorded on mapping from 1962. Three tanks are located approximately 200 and 250m southwest of the site associated with the Odstock Hospital. Sewage works are located approximately 400m southeast of the site.
1987 – 1992	1:10,560, 1:2500 and historical aerial photography	**Onsite** A helipad is in the southern part of the site (1992). **Offsite**. Odstock General Hospital has expanded with more buildings having been constructed.
1993 - 2006	1:10,560, 1:2500 and historical aerial photography	**Onsite** A car park is in the northern part of the site surrounded by a bund with trees located in the eastern boundary of the site. A helipad, smaller than its current extent is shown from 2000. **Offsite** Odstock General is now called Salisbury District Hospital from 1996.

Year	Scale	Land Use and Development
2024	Online Aerial Imagery	**Onsite** The helipad is shown to have a larger footprint extending to the southern boundary of the site. The land just north of the helipad appears to be Worked Ground, possibly during the extension of the helipad.

5.2 Hydrology

This Section summarises the Hydrology of the site after review of the Envirocheck report [13].

Please consult the flood risk assessment and drainage strategy report prepared by Mott MacDonald (Document Reference: STECC-MMD-ZZ-ZZ-RP-CE-930001 [18]), which provides a more comprehensive analysis of the site's flood risk.

5.2.1 Flooding from Rivers and the Sea

The site is not located within an area at risk of flooding from rivers or the sea [13], with the nearest surface water feature located approximately 755m from the site. Full details are presented within the Envirocheck Report.

5.2.2 Surface Water and Groundwater Flooding

The site is within an area reported by the BGS Groundwater Flood Susceptibility as an area of limited potential for groundwater flooding to occur [13] .

The site is not within an area with potential for Extreme Flooding / Flooding from Rivers or Sea without Defences [13].

5.2.3 Water Abstraction

There are no water abstractions within 500m of the site, with one within 2km of the site [13]. Full details are presented within the Envirocheck Report in Appendix A.

5.2.4 Discharge Consents

There are no areas of discharge consents within 500m of the site, with a further three located within 1km of the site. Full details are presented within the Envirocheck Report in Appendix A.

5.3 Registered Radioactive Substances

There are ten registered radioactive substances recorded within 250m of the site of which the process type of eight is related to Authorisation under S13 RSA for the disposal of radioactive waste within the Salisbury District Hospital. The details of two were not supplied.

Full details are presented within the Envirocheck Report in Appendix A.

5.4 Waste Related Activities.

Potential sources of waste related activities recorded in the Envirocheck Report [13] are summarised below. For further information, reference should be made to the Envirocheck Report in Appendix A.

5.4.1 Historical Landfill Sites

There are no historical landfill sites within 1km of the site.

5.4.2 Local Authority Recorded Landfill Sites

There are no local authority recorded landfill sites within 1km of the site.

5.4.3 Licensed Waste Management Facilities

There is one recorded licensed waste management facility within 500m of the site, located 116m to the west, comprising a Clinical Waste Transfer Station for the hospital, with a current licence status of Surrendered [13].

5.4.4 Registered Waste Transfer sites

There is one registered waste transfer site within 500m of the site, located 57m to the west of the site boundary, comprising an operational Clinical Waste transfer site for the hospital.

5.4.5 Infilled Land

There are two areas of potentially infilled land (non-water) recorded as Unknown Filled Ground, dated from 1985 located 456m and 530 northeast of the site [13].

There are no areas of potentially infilled land (water) recorded within 1km of the site.

Full details are presented within the Envirocheck Report in Appendix A.

5.4.6 Local Authority Pollution Prevention and Controls

There are no local authority pollution prevention and control within 500m of the site.

5.4.7 Pollution Incidents to Controlled Waters

There are no sites of pollution to controlled waters within 1km of the site.

5.5 Hazardous Substances

There are no Control of Major Accident Hazards (COMAH), or Notification of Installations Handling Hazardous Substances (NIHHS) records within 1km of the site.

5.6 Industrial Land Use

5.6.1 Contemporary Trade Directory Entries

There are eleven contemporary trade directory entries with 250m of the site, there are all related with structures within the Salisbury District hospital. Their classifications consist of the hospital, medical and dental laboratories, health and cleaning services, and medical equipment manufacturers. There are a further six entries between 500 and 1km of the site. [13] Full details are presented within the Envirocheck Report in Appendix A.

5.6.2 Fuel Station Entries

There are no recorded entries of fuel stations within 1km of the site boundary. [13]

5.6.3 Recorded Tanks

There are three recorded tanks within 200m of the site and one within 1km of the site. Details are presented below and within the Envirocheck Report [13] in Appendix A.

- Location - SP2; Category – industrial feature; class code – tanks (generic); distance – 54m southwest; NGR – 414954E 127175N.

- Location - SP2; Category – industrial feature; class code – tanks (generic); distance – 100m northwest; NGR – 415047E 127424N.
- Location – SP5; Category – industrial feature; class code – tanks (generic); distance – 100m north; NGR – 415047E 127425N.

5.7 Sensitive Land Uses and Statutory Designations

The site is within a Nitrate Vulnerable Zone, and there are no Special Protection Areas (SPA) within 1km of the site.

6 Preliminary Ground Model

A preliminary ground model for the site has been developed and is presented in Table 6.1. This is based on the review of the ground conditions encountered the historical ground investigation data from approximately 100m northwest of the proposed site. It should be noted that due to the distance of historical ground investigation from the site, the data is indicative only of what could be encountered on the proposed site.

Table 6.1: Preliminary Ground Model

Strata	Top of Strata (m bgl)	Anticipated Thickness (m)	Typical Description
Made Ground ● Grass over Topsoil ● Hardstanding (Tarmac and/or Concrete). ● Cohesive/granular made ground.	0.00	0.15 – 1.0	Grass underlain by topsoil expected to be encountered at the proposed site. Tarmac and concrete are likely to be encountered, due to the presence of a car park and helipad in the north and south of the site respectively. Made Ground composition likely to be variable. Nearby GI recorded: ● SAND with occasional fragments of wood, red brick, and porcelain. ● CLAY / clayey SILT with gravel of chalk, flint and brick.
Possible Reworked Culver Chalk Formation	0.5 – 0.6	0.8 – 0.9	Cream and light brown slightly clayey sandy angular to sub-angular fine to coarse GRAVEL of chalk and occasional flint.
Culver Chalk Formation (Grade Dc)	0.36 – 1.4	6.0* - 8.0*	Structureless CHALK comprising of extremely weak to very weak slightly clayey sandy angular to subangular fine to coarse gravel of chalk and occasional flint.

* Depth and thickness are unproven

Groundwater monitoring records from the historical GI indicate that there could be shallow groundwater within the chalk less than 5m bgl, however there could also be perched ground water present beneath the proposed site.

7 Preliminary Geotechnical Assessment

The following sections identify potential geotechnical risks to the proposed development based on the geological units likely to be encountered at the site. Following GI works these will be reviewed and revised accordingly. A detailed risk register of geotechnical risks is given in Section 8.

7.1 Geological Considerations

Below is a summary of the possible risks associated with the geology likely to be encountered on the site. It has been assumed that Topsoil present within the agricultural land in the eastern part of the site would be removed before any work.

7.1.1 Made Ground

BGS 1:10,000 mapping [11] indicates that the majority of the site is within an area of Worked Ground which ties in with the site's current use as a car pack, and emergency helipad. Furthermore, Made Ground was encountered in historical exploratory holes on 'Site B' located approximately 100m northwest of the site (see Section 3.1)

Also, aerial imagery shows that the land just north of the helipad appears to have been worked during its extension.

As the site is within a developed area with a car park and helipad, it is likely that Made Ground will be encountered on the site associated with pavements.

Below is a summary of the potential geotechnical risks that could be encountered within the Made Ground on-site.

- The extent and composition of Made Ground is unknown, and likely that the composition is variable e.g. pavements, subgrade etc.
- The material may be contaminated.
- Obstructions may be present within the material.
- There is a potential for any new concrete to be attacked by aggressive ground.
- Groundwater may be encountered within the unit which may lead to seepage into excavations.

7.1.2 Bedrock Geology

7.1.2.1 Culver Chalk Formation

The entire site is underlain by the Culver Chalk formation [9] [12], composed of soft to firm white chalks without significant marl seams, but with some very strongly developed nodular and semi tabular flints.

The 2008 GI encountered the unit as a structureless chalk consisting of slightly clayey/sandy subangular to subrounded fine to coarse Gravel. Clast vary with weak, low and medium density having and 3occasional black specks and flint cobbles, indicates a variable weathering profile. SPT results indicated an increase in strength with depth.

Below is a summary of the potential geotechnical risks that could be associated with the Culver Chalk Formation;

- Reworked chalk may be present and could be of varying composition and thickness
- Weathering profile may be of variable degrees of weathering and thickness.
- Weathering may result in reduced bearing capacity which could lead to excessive total / differential settlement;
- Dissolution features may be present causing instability of structures.
- Presence of hard flints within the chalk which may act as obstructions or damage equipment during construction.
- The chalk is a Principal Aquifer, and the site is within an area of high vulnerability of groundwater within the Principal Aquifer which will need to be considered in design.
- The chalk may be heavily fractured at greater depths creating soft zones and potential pathways for the inflow of groundwater and contaminants.
- The chalk may be susceptible to frost activity and volume change due to moisture ingress.

7.1.3 Groundwater Considerations

Groundwater monitoring in the 2022 GI, undertaken approximately 100m northwest of the site indicated the groundwater level was between 4.8mbgl (81.12m AOD) and 4.88 (81.04m AOD) within the Culver Chalk Formation. As these are historical records from a nearby location, they can only be used as a potential indication of conditions at the site.

The Culver Chalk Formation is classified as a Productive Aquifer and the site is located within a high groundwater vulnerability zone, which may need consideration during design to ensure protection of the Aquifer.

There is also a possible to perched ground water to be encountered within Made Ground.

7.2 Engineering Considerations

At the time of writing this report, the proposed works have not been finalised and the information in this section is subject to change. It should be noted that any assumptions made are subject to confirmation following the completion of a project specific GI.

7.2.1 Foundations

The currently proposed foundation solutions is a combination of discrete pad foundations, piles foundations with some strip foundations for load bearing walls, deep foundations such as piles for heavily loaded structures and a gravity retaining wall, these are anticipated to be founded on/within the Culver Chalk Formation, which is assumed to be Grade Dc chalk as a minimum. The founding depth will depend on the variability in the weathering profile, and the thickness of made ground present. which will be considered in design.

For shallow foundations, it is expected that a ground bearing slab will also be utilised, which could be founded on a combination of place engineered fill and Dc grade Chalk. For this and also potentially below the shallow foundations it is possible that localised “soft spots” of more highly weather or re-worked chalk could be present which may require treatment, via dig and replace as part of the construction works.

For deep foundations, it is expected that the piles will be founded in a competent chalk, however it is possible that Dc grade chalk may be suitable after a detailed ground investigation is completed and properties of the chalk assessed.

There is also a potential that dissolution features could be present in the chalk beneath the footprint of the site.

7.2.2 Access Roads and Areas of Hardstanding

Based on the proposed works there will be access roads and areas of hardstanding in the scheme.

There is potential risk of heave due to frost action due to the Culver Chalk Formation being present at sub-formation. This could be as a result of high moisture content within the chalk or ingress of groundwater. It is currently assumed that Grade Dc chalk will be present at sub-formation though localised “soft spots” of more highly weather or re-worked chalk could be present which may require treatment, via dig and replace as part of the construction works.

7.2.3 Earthworks

It is anticipated that some cut and fill may be needed to level the site during construction works. This could comprise the removal of any topsoil and/ or made ground, together with some Chalk. It is currently anticipated that where required levels will be raised using a good quality granular engineered fill, such as a Class 6N material.

Caution may need to be exercised during construction as the structureless chalk could be of low density on site which could cause trafficability problems which can be further exacerbated by aggressive methods of excavation and placement during construction.

7.2.4 Groundwater

It is possible that perched groundwater could be encountered in Made Ground and that groundwater abstraction may be required if encountered during excavations.

7.2.5 Soakaways

The use of soakaways within chalk may present a risk of localised dissolution, subsidence and potential collapse, particularly where the chalk is low density which may be the case for site based on boreholes reviewed. These could result is differential settlement of foundations and other ground bearing elements. It is recommended that soakaways should be sited at minimum distance of 10m away from the edge any foundation or ground bearing structural elements based on guidance from CIRIA C574 [19] and Wiltshire Council [20].

8 Geotechnical Risk Register

The Geotechnical Risk Register should be considered as a live document and updated throughout the course of the scheme. It is incumbent on all parties involved in the scheme to advise the other members when the risks change.

Various threats are identified, and the potential consequences of these occurring are described. The risk is derived by considering the severity and likelihood for each threat and opportunity. Both the severity and likelihood have been assessed using a scale of 1 to 5, corresponding to "Minor" to "Catastrophic" for severity and "Extremely unlikely" to "Almost certain" for likelihood. These ratings are summarised in Table 8.1 and Table 8.2, with the risk classification summarised in Table 8.3.

Table 8.4 details the Geotechnical Risk Register for the proposed scheme.

Table 8.1: Risk Level Matrix

Likelihood		Severity				
		1	2	3	4	5
		Minor	Moderate	Serious	Major	Catastrophic
1	Extremely unlikely	1	2	3	4	5
2	Unlikely	2	4	6	8	10
3	Likely	3	6	9	12	15
4	Extremely likely	4	8	12	16	20
5	Almost certain	5	10	15	20	25

Table 8.2: Hazard Severity Table

Potential severity of harm occurring		
1	**Minor**	Minor damage or loss – (no human injury)
2	**Moderate**	Moderate damage or loss – (Slight injury or illness)
3	**Serious**	Substantial damage or loss – (Serious injury or illness)
4	**Major**	Major damage or loss – (Fatal injury)
5	**Catastrophic**	Catastrophic loss or damage – (Multiple Fatalities)

Table 8.3: Risk Classification Table

Risk classification	
Low (1 – 8)	Ensure assumed control measures are maintained and reviewed as necessary.
Medium (9 – 19)	Additional control measures needed to reduce risk rating to a level that is equivalent to a test of "reasonably required" for.
High (20 – 25)	Activity not permitted. Hazard to be avoided or risk to be reduced to tolerable level.

Ground investigation can help to mitigate ground and groundwater risks; however, these risks cannot be eliminated. Ground investigations by their nature can only investigate and monitor a small part of the sub-surface conditions for a limited duration. Conditions on site identified during construction could reveal ground conditions that could not have been considered from the results of the ground investigation.

It is recommended that adequate and appropriate supervision must be provided during construction to assess the ground conditions encountered and interpret the results of the site testing. When appropriate this supervision during construction should be undertaken by a suitably experienced and qualified Engineering Geologist / Geotechnical Engineer.

Table 8.4 highlights the potential hazards that could be encountered during the site investigation and/or construction. The consequence of the hazard is outlined, and a score is given for the impact and likelihood of this hazard, giving an overall risk, which is categorised as either a cost, time, environment or health and safety risk. From this, potential control measures are stated to alleviate the hazard, leading to a rescoring of the impact and likelihood, resulting in a residual risk.

Table 8.4: Geotechnical Risk Register

	Hazard	Consequence	Severity	Likelihood	Risk	Mitigation	Severity	Likelihood	Risk
1.	Made Ground	Made Ground is present on the site due to current site use (see Section 3.1). Potential for the unit to be variable in composition and thickness across the site. Potential for shallow/perched groundwater to be encountered in the unit. The unit may be contaminated. Risk of buried known / unknowable obstructions to be encountered during ground investigation/construction. Potential for the unit to be aggressive to concrete elements. Potential for obstructions to be encountered within the unit. Mixed face conditions in excavations if the unit is variable.	3	5	15	Undertake a site-specific Ground Investigation to determine the thickness, composition, and geotechnical properties of Made Ground. Groundwater observations and monitoring to be proposed during the GI, which could provide information regarding the groundwater profile on-site. Use of appropriate Personal Protective Equipment (PPE). Construction strategy to be in place by Contractor to eliminate risk of contaminant migrations. Contractor to carry out temporary works design, including design of any necessary excavation support.	3	2	6
2.	Culver Chalk Formation	Potential to encounter dissolution features within the unit. Potential for the unit to be low strength/bearing capacity, and highly compressible, leading to settlement issues. Potential presence of flint bands within the unit. The unit is a Principal Aquifer. Potential for the unit to be susceptible to frost action and volume change. Potential for the unit to be fractured with depth. Damage to construction equipment and difficulty in advancing excavations. Potential to damage structures including foundations. Increase programme Costs.	4	4	16	Undertake a site-specific Ground Investigation to determine the thickness, composition, and geotechnical properties of Chalk. Groundwater observations and monitoring to be proposed during the GI, which could provide information regarding the groundwater profile on-site. Use of appropriate construction equipment on the site. Develop construction strategy to protect the aquifer and eliminate the risk of contamination during construction works. Liaison with regulatory bodies such as the Environment Agency.	4	2	8
3.	Variable weathering profile of the Culver Chalk Formation	The unit may have a variable weathering profile with depth with soft with compressible/weathered material encountered at the top. Reduced bearing capacity resulting in excessive total/differential settlement. Constraint to suitability of shallow foundations for structure.	3	4	12	Undertake a site-specific Ground investigation to confirm weathering profile and geotechnical parameters. Detailed design to include settlement analysis.	3	2	6

	Hazard	Consequence	Severity	Likelihood	Risk	Mitigation	Severity	Likelihood	Risk
4.	Groundwater	Groundwater monitoring from historical GI indicates groundwater levels between 4.8 and 4.88m bgl in the chalk, approximately 100m northwest of the site. Potential for shallow groundwater to be encountered during construction. Potential for groundwater contamination due to the Culver Chalk being a Principal Aquifer.(see 2).	4	3	12	Undertake a site-specific ground investigation to confirm groundwater levels within depth of influence with post fieldwork monitoring to determine long term rest levels. Suitable consideration in design of both permanent and temporary works.	4	2	8
5.	Overhead / buried services	Potential serious injury to construction workers and disruption of service. Delays to construction, severe financial and political repercussion.	5	3	15	Thorough review of detailed service records prior to conduction works. Carry out a GPR survey to identify and locate existing services. Contractor to check each exploratory hole location for buried services during GI – hand dug inspection pit and CAT scanning	5	1	5
6.	Inadequate Ground Investigation	Limited understanding of site-specific information, leading to conservative design and poor understanding of site-specific ground risk. Unforeseen ground conditions and use of conservative design parameters.	4	5	20	Undertake a detailed site-specific ground investigation to inform the next stage of design and inform proposed design works.	4	1	4
7.	Unexploded Ordnance (UXO)	Preliminary UXO Threat Assessment [17] indicates that it is likely for UXO to be encountered on the site. Severe injury and death to construction workers.	5	4	20	Undertake a detailed UXO Risk Assessment before commencement of works, and the results of this assessment implemented.	5	1	5
8.	Design elements - Foundations	Potential for settlement of foundations due to low bearing strata and compressibility of underlying chalk strata (see 2). Difficulty in progressing deep foundations due to the presence of flint bands with chalk (see 2). Structural damage resulting from differential settlement of spread foundations. Increase programme cost	3	3	9	Undertake a site-specific Ground Investigation to determine the thickness, composition, and geotechnical properties of Chalk. Appropriate use of geotechnical parameter in design of foundations.	3	2	6

	Hazard	Consequence	Severity	Likelihood	Risk	Mitigation	Severity	Likelihood	Risk
9.	Design elements – access roads and areas of hardstanding.	Upward and outward movement of the ground surface caused by formation of ice in soil, creating a potential for frost heave of pavement. Pavements are expected to encounter the Culver Chalk Formation. Potential presence of soft compressible deposits (weathered chalk) with poor CBR. Possible uniform and differential settlement of pavements (see 2).	2	3	6	Ground investigation and laboratory testing to characteristics the frost heave potential. Remove soft compressible deposits and replace with suitable granular fill, compacted to achieve the required design CBR value. Infrastructure to be founded below the frost susceptible zone (minimum 450mm).	2	1	2
10.	Design elements - soakaways	Potential for localised dissolution, subsidence and ground collapse particularly in low density chalk. Potential for differential settlement of structures, if soakaways are sited close to foundations.	3	3	9	Undertake a site-specific Ground Investigation to determine the thickness, composition, and geotechnical properties of Chalk. Soakaways should be sited at least 10m away from the edge of foundations and ground bearing elements.	3	1	3
11.	Presence of Helipad	Space constraints to ground Investigation works if it still active. Presence of Made Ground (see 1). Potential injury to workers.	3	5	15	Liaison with Client before commencement of Ground Investigations. Creating a suitable and safe offset from helipad if it is still active.	3	2	6

9 Geo-Environmental Preliminary Risk Assessment

9.1 Introduction

The information gathered as part of this desk study has been interpreted to develop a preliminary Conceptual Site Model for the site detailing potential contaminant sources, transport pathways and possible receptors that may be present within the site and the surrounding areas. A preliminary qualitative contaminated land risk assessment has been completed for each pollutant linkage (source, pathway, receptor) in accordance with the following guidance documents and standards:

- Ministry of housing, Communities & Local Government, National Planning Policy Framework (NPPF), 2023
- Environment Agency, Land Contamination Risk Management (LCRM), October 2020
- Construction Industry Research and Information Association (CIRIA), CIRIA C552, Contaminated land risk assessment. A guide to good practice, January 2001
- LQM/CIEH S4UL

9.2 Sources, Pathways and Receptors

Sources, Pathways and Receptors are described as follows:

- Sources (S): a potential or known contaminant source e.g., a former land use.
- Pathway (P): a route or means by which a receptor can be exposed to, or affected by, a contaminant, e.g., dermal contact.
- Receptor (R): something that can be adversely affected by a contaminant, such as people, an ecosystem, property, or controlled waters.

Where a source, pathway and receptor are present, a pollutant linkage is considered to exist whereby there is a potential for environmental harm to occur. Table 9.1 presents a summary of the sources, potential pathways and receptors that have been identified on site form the information gathered during this desk study.

Table 9.1: Sources, Pathways and Receptors

Sources, Pathways and Receptors	Details
Sources	**<u>On site</u>** **S1**: Made Ground associated with mapped 'Worked Ground' and subsequent construction of existing carpark and helipad. **S2**: Spillages and leakages of fuel, oil and lubricants from parked vehicles or helicopters. **S3**: Spillages of unknown contaminants from on-site storage containers. **<u>Off site</u>** **S4:** Spillages and leakages of fuel, oil and lubricants from parked vehicles in adjacent carpark. **S5**: Leakages of tanks associated with hospital site.
Pathways	**P1**: Human health uptake pathways (inhalation, ingestion and direct contact) **P2**: Direct contact with buried structures and services **P3**: Surface water run-off **P4**: Vertical/horizontal contaminant migration in groundwater

Sources, Pathways and Receptors	Details
	P5: Plant uptake
Receptors	**R1:** Construction workers
	R2: Site personnel and future site users
	R3: Buried structures and services (e.g. buried concrete, utilities)
	R4: Groundwater (Principal aquifer)
	R5: Landscaping and Planting

Table 9.2 below provides a summary of the contaminants of concern associated with the potential sources of contamination on site identified in Table 9.1 and has been informed by the Department of Environment 'Industry Profiles'. Table 9.2 does not provide an exhaustive list of potential contaminants on site, and as such should not be used as a comprehensive list of contaminants for analysis during any future works on the site. The selection of contaminants for analysis should be informed by the objective of the investigation, the CSM and the ground conditions encountered on site.

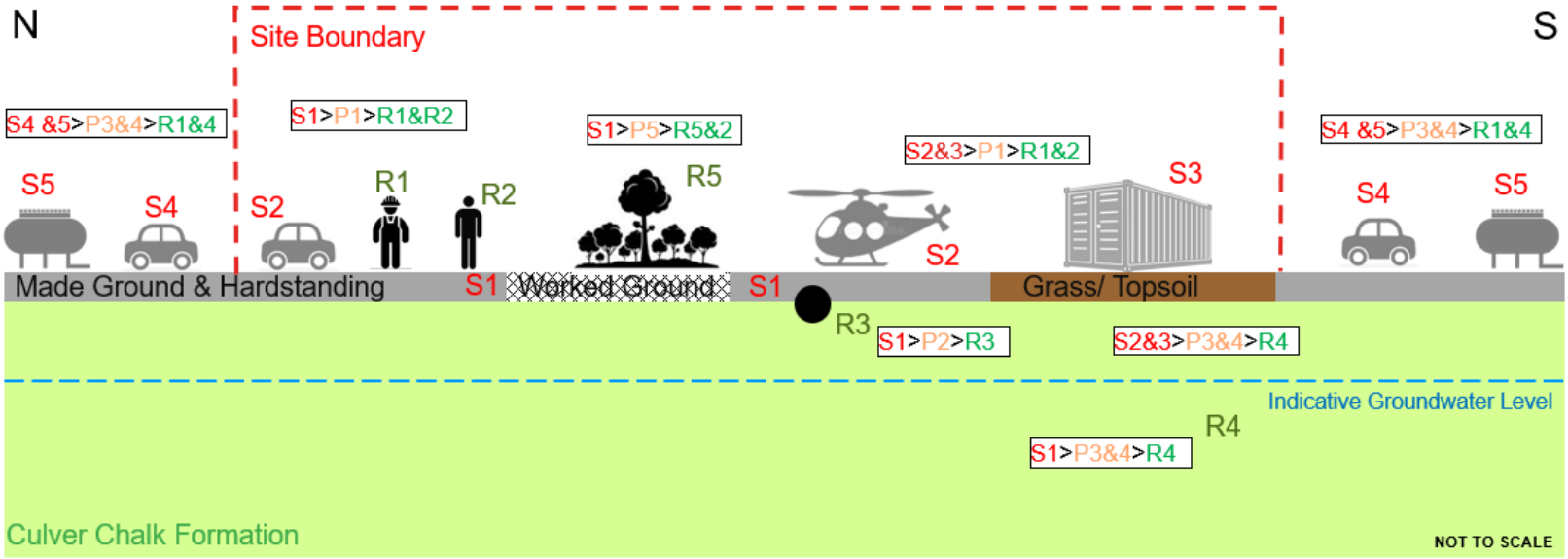
Table 9.2: Potential Contaminants of Concern

Source	Contaminants of Concern
On Site Sources	
S1: Made Ground associated with Worked Ground and subsequent construction of existing carpark and helipad.	Heavy metals, Total Petroleum Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAH), Inorganics, asbestos, pH, ground gas/vapours
S2: Spillages and leakages of fuel, oil and lubricants from parked vehicles or helicopters.	TPH, PAH, vapours
S3: Spillages of unknown contaminants from on-site storage containers	TPH, PAH, organics
Off Site Sources	
S4: Spillages and leakages of fuel, oil and lubricants from parked vehicles in adjacent carpark.	TPH, PAH, vapours
S5: Leakages of tanks associated with hospital site	TPH, PAH, organics

9.3 Preliminary Conceptual Site Model

A preliminary CSM is presented in Figure 9.1 which is based on the preliminary ground model as well as the potential contaminant sources, pathways and receptors identified on site in Table 9.1. The risk assessment process is detailed in Appendix G.

Figure 9.1: Preliminary Conceptual Site Model



Sources

On site

S1: Made Ground associated with mapped 'Worked Ground' and subsequent construction of existing carpark and helipad.

S2: Spillages and leakages of fuel, oil and lubricants from parked vehicles or helicopters.

S3: Spillages of unknown contaminants from on-site storage containers.

Off site

S4: Spillages and leakages of fuel, oil and lubricants from parked vehicles in adjacent carpark.

S5: Leakages of tanks associated with hospital site.

Pathways

P1: Human health uptake pathways (inhalation, ingestion and direct contact)

P2: Direct contact with buried structures and services

P3: Surface water run-off

P4: Vertical/horizontal contaminant migration in groundwater

P5: Plant uptake

Receptors

R1: Construction workers

R2: Site personnel and future site users

R3: Buried structures and services (e.g. buried concrete, utilities)

R4: Groundwater (Principal aquifer)

R5: Landscaping and Planting

9.4 Preliminary Contaminated Land Risk Assessment

A qualitative contaminated land risk assessment has been completed for the site with the results displayed in Table 9.3. The results are based on the potential pollutant linkages shown in the preliminary conceptual site model (Figure 9.1). The risk assessment process is detailed in Appendix G.

The preliminary risk assessment is based in the following assumptions:

- The risk assessment only considers future use as the current proposals for the Salisbury DASH with associated landscaping.
- Presence of PFAS has been excluded as there are no records of any fires at the helipad and there are not anticipated to be any firefighting foams stored or used in the area.
- The assessment assumes that no new sources of contamination will be introduced during the development of the proposed structures – i.e. construction materials will be non-hazardous and inert.
- It is assumed that a robust Construction Environmental Management Plan (CEMP) will be adopted during the construction works and, as a result no contamination will occur from leaks and spills during construction.
- The risk does not consider asbestos contamination.

Table 9.3: Preliminary Contaminated Land Risk Assessment

Source	Pathway	Receptor	Risk Classification	Comment
On Site Sources				
S1: Made Ground associated with mapped 'Worked Ground' and subsequent construction of existing carpark and helipad.	**P1**: Human health uptake pathways (inhalation, ingestion and direct contact)	**R1**: Construction workers	Probability: Low likelihood Consequence: Mild Risk: **Low**	1.There is potential for contaminants to be present within the made ground beneath the site associated with the current land use, including the potential for ground gas to be present if deep made ground is encountered. This could pose a risk to the human health of construction workers and future site users if a pollutant linkage is present. Construction workers are at risk of ingestion, inhalation and direct contact with potentially contaminated materials during excavations. A construction Environmental Management Plan (CEMP) should be developed prior to the intrusive works to ensure that the risk of direct contact with contaminated materials is mitigated for the duration of the works. Contractor RAMS and method statements should detail a site-specific risk assessment with appropriate safe workings practices such as the use of PPE and regular handwashing. With adequate mitigation in place, the risk to construction workers should be reduced to very low. The risk to site personnel and future site users is generally considered to be low as they are unlikely to have direct contact with contaminated subsurface materials. Risk associated with presence of ground gas is assessed as moderate/ low if significant depth of made ground is present. An intrusive GI is recommended to confirm the depth and composition of any Made Ground on the site and to obtain samples of soil and groundwater, as well as ground gas monitoring, to establish the potential for contamination derived from current site conditions, which may impact on relevant receptors.
		R2: Site personnel and future site users	Probability: Low likelihood Consequence: Medium Risk: **Moderate/low**	
	P2: Direct contact with buried structures and services	**R3**: Buried structures and services (e.g. buried concrete, utilities)	Probability: Low likelihood Consequence: Medium Risk: **Moderate/Low**	2. The risk to buried structures and services should be assessed in accordance with guidance presented in BRE Special Digest: 2005. This will require laboratory testing of soil and groundwater samples to inform concrete class specification and water pipe selection (UKWIR assessment). An intrusive GI is recommended to confirm the depth and composition of any Made Ground on the site.
	P3: Surface water run-off **P4**: Vertical/horizontal contaminant migration in groundwater	**R4**: Groundwater environment (Principal aquifer)	Probability: Low likelihood Consequence: Medium Risk: **Moderate/Low**	3. The site is anticipated to be underlain by the Culver Chalk Formation. This is likely to accommodate vertical migration of contaminants. There is potential for man-made contamination pathways to be created allowing contaminants to enter the superficial groundwater body beneath the site. An intrusive GI is recommended to characterise the nature of the materials beneath the site to inform the risk posed to controlled waters.
	P5: Plant uptake	**R2**: Site personnel and future site users **R5:** Landscaping and Planting	Probability: Unlikely Consequence: Mild Risk: **Very low**	4.There is potential for contaminants to be present within the made ground beneath the site associated with the current land use, which could pose a risk to the human health of future site users if a pollutant linkage is present through plant uptake. The risk to future site users through plant uptake is generally considered to be low as the planted areas through the proposed development are unlikely to have direct contact with contaminated subsurface materials, though the importing of landscaping soils. A phytotoxic assessment should be completed, particularly if on site soil its to reused for landscaping. Also, any materials brought to site for landscaping purposes should be clean and free of contamination. An intrusive GI is recommended to confirm the depth and composition of any Made Ground on the site and to obtain samples of soil and groundwater, to establish the potential for contamination derived from current site conditions, which may impact on relevant receptors.
S2: Spillages and leakages of fuel, oil and lubricants from parked vehicles or helicopters. **S3**: Spillages of unknown contaminants from on-site storage containers.	**P1**: Human health uptake pathways (inhalation, ingestion and direct contact)	**R1**: Construction workers	Probability: Low likelihood Consequence: Mild Risk: **Low**	5. There is potential for contaminants to be present on site due to spillages and leakages from parked vehicles, helicopters or the onsite storage containers prior to, during and post-construction. Construction workers are at risk of ingestion, inhalation and direct contact with potentially contaminated materials during construction phases. A construction Environmental Management Plan (CEMP) should be developed prior to the intrusive works to ensure that the risk of direct contact with contaminated materials is mitigated for the duration of the works. Contractor RAMS and method statements should detail a site-specific risk assessment with appropriate safe workings practices such as the use of PPE, spill kits and regular handwashing. With adequate mitigation in place, the risk to construction workers should be reduced to very low. The risk to site personnel and future site users is generally considered to be low are they are unlikely to have direct contact with contaminated subsurface.
		R2: Site personnel and parking customers (future site users)	Probability: Low likelihood Consequence: Mild Risk: **Low**	
	P3: Surface water run-off **P4**: Vertical/horizontal contaminant migration in groundwater	**R4**: Groundwater environment (Principal aquifer)	Probability: Low likelihood Consequence: Mild Risk: **Low**	6.The site is anticipated to be underlain by the Culver Chalk Formation. This is likely to accommodate vertical migration of contaminants. There is potential for man-made contamination pathways to be created, however it is anticipated that a pathway to the chalk aquifer already exists. An intrusive GI is recommended to characterise the nature of the materials beneath the site to inform the risk posed to controlled waters.
Off Site Sources				
S4: Spillages and leakages of fuel, oil and lubricants from parked vehicles in adjacent carpark. **S5**: Leakages of tanks associated with hospital site	**P3**: Surface water run-off **P4**: Vertical/horizontal contaminant migration in groundwater	**R4**: Groundwater environment (Principal aquifer) Then **R1**: Construction workers	Probability: Unlikely Consequence: Medium Risk: **Low**	As per comment 6. 7. There is the potential that existing or historical tanks within the hospital complex may have leaked and there is a risk of contamination migrating vertically and horizontally which could impact on groundwater bodies. The likelihood of a spill impacting this site is low due to the distance of the recorded tanks, however, there remains the possibility. An intrusive GI is recommended to characterise the nature of the materials beneath the site to inform the risk posed to controlled waters.

10 Conclusions and Recommendations

The below sections summarise the main geotechnical and geo-environmental findings from this report. However, no reliance should be placed on any part of this summary without referring to the relevant Sections in the report. Sections within the main body of the report contain information which puts into context the findings that are captured within this summary.

10.1 Conclusions

10.1.1 Geotechnical Considerations

- There is no site-specific ground investigation data available; therefore, the preliminary ground model is based on currently available data from nearby. Ground conditions on-site may differ from those described in this report.
- Ground conditions are anticipated to comprise of Made Ground up to 1m thick underlain by the bedrock which is composed of possible reworked Culver Chalk Formation (between 0.8 and 0.9m thick) and Structureless Culver Chalk Formation (Grade Dc) up to 8m thick. See Section 6 for full details .
- The key ground related risks identified by this desk-based assessment:
  - No available site-specific information leading to unforeseen conditions and overly conservative or even optimistic design parameters.
  - The nature and thickness of the made ground present on site is currently unknown.
  - The Culver Chalk Formation could have a variable weathering profile and possible associated varying thicknesses of reworked chalk associated with it which could affect bearing capacity and settlement of the material at formation level which is currently anticipated to be Dc grade chalk.
  - It is possible that perched ground water could be present in the made ground, records from historical ground investigations indicate a relatively high groundwater table (c.4m bgl) is present within the chalk.
  - It is possible that dissolution features could be present within the chalk which could affect the proposed development.
  - There is potential risk of differential settlement of foundations and any ground bearing elements if soakaways are positioned close to them.
- Other residual risks include:
  - Presence of helipad on-site creating constraints on-site during ground investigations.

10.1.2 Geo-environmental considerations

A summary of the geo-environmental risks identified at the site is provided in this section. The risk assessment assumes provision for a new building and associated landscaping. If the development proposals change, it is recommended that this assessment should be revisited.

- The risk assessment has highlighted possible pollutant linkages associated with the proposed development. The risks are currently assessed as **low** to **moderate/low**.
- Risks to human health are considered to be **low** for construction workers and **moderate/low** for site end-users.
- Risks to the built environment are considered to be **moderate/low**.
- Risks to controlled water receptors are considered to be **moderate/low** to **low.**

- Risks to Landscaping and Planting are considered to be **very low.**

10.2 Recommendations

On the basis of this desk study, the following recommendations are made:

- A project specific geotechnical and geo-environmental ground investigation has been undertaken between 25th February and 3rd March 2026, the results from this will be reported separately. The results of the GI should be used to assess the following:
  - Confirm the materials present underlying the site, if any contamination is present and an if it is appropriate for reuse within the scheme.
  - Determine groundwater levels and groundwater quality.
  - Determine risk of ground gas through appropriate monitoring if significant depth of made ground is encountered.
  - Determine appropriate water supply pipework through UKWIR testing and assessment.
  - Assess the potential geotechnical and geo-environmental risks identified within this report.
  - Determine the thickness and properties of materials present beneath the site.
  - To assess the weathering profile and grade of Chalk present beneath the site.
  - To try and assess the presence of dissolution features within the chalk.
  - Understand the feasibility of the proposed foundations options and other associated structures / infrastructure for the proposed development through specific in-situ and laboratory testing.
- Sub-formation and areas of hardstanding should be founded below the frost-susceptible zone. During construction, the sub-formation should be protected from moisture content especially in winter months and greater thickness of pavement used if in-situ chalk is highly weathered CIRIA C574 [19].
- It is likely for weathered chalk on site to be suitable for re-use as fill subject to a site -specific ground investigation and earthworks specification undertaken. Consideration may also need to be made with respect to stabilisation of the chalk or ground improvement, dependent upon the findings of the ground investigation.
- It is important that any chalk fill should not be stockpiled or subjected to multiple handling to prevent degrading of the material. If it is not possible to re-use chalk as a fill, a suitable granular engineered fill should be employed.
- Dewatering may be required during construction if shallow ground water is encountered to prevent any groundwater flooding. Pumped water may require storage and testing prior to disposal.
- Any soakaway should be sited at a minimum distance of 10m from the edge of any foundations or ground bearing elements.
- Soakaways that disperse water from a car parking area will require treatment through an oil water interceptor or similar, prior to discharge. This system may require permissions and permits from the Local Authority and Environment Agency. An enquiry should be made with the Local Authory and Environment Agency at initial design stages, so that the correct requirements can be incorporated at detailed design stage.

11 References

[1] P+HS Architects, “Salisbury Diagnostic and Surgical Hub. Massing and Stacking Options. Document Reference: SNHSC-PHS-XX-XX-A-PR-00005,” January 2026.

[2] P+HS architects, “Stakeholder Session 1 Salisbury Elective Care Centre. Document Reference: ECCST-PHS-XX-XX-A-PR-00001/P02/,” 2025.

[3] Colour, *Salisbury ECC Landscape General Arrangement Plan SECC-COL-XX-XX-D-L-1001 P01,* 2025.

[4] Survey Operations Limited , “Topographical Survey of Land at: Heat Project Salisbury Sheets 013. DWG No: 19G074/013,” 2019.

[5] “Topographical Survey of Land at: Heat Project Salisbury Sheet 16 of 19. DWG No: 19G074/013,” 2019.

[6] Department for Environment Food and Rural Affairs , “Defra Survey Data Download,” [Online]. Available: https://environment.data.gov.uk/survey. [Accessed 16 May 2025].

[7] Landmark Information , “Site off odstock Road, Nunton. Digital Utility Overview Plan. DWG Ref: 377078935_2,” 2025.

[8] RSK Geosciences Geophysics , “PAS Salisbury District Hospital. PAS128 Utility Report . Project no. 4340819,” July 2025.

[9] “British Geological Survey GeoIndex Onshore,” 13th March 2025. [Online]. Available: ttps://mapapps2.bgs.ac.uk/geoindex/home.html.

[10] British Geological Survey, “1:50,000 England and Wales Sheet 298 Salisbury. Bedrock and Superficial Deposits,” 2005. [Online]. Available: https://largeimages.bgs.ac.uk/iip/mapsportal.html?id=1001790. [Accessed 12th May 2025].

[11] British Geological Survey , “1:10,000 Geology Series Sheet SU12NE (Alderbury) included in 1:50,000 Geological Sheet 298 (Salisbury),” 2007. [Online]. Available: https://largeimages.bgs.ac.uk/iip/mapsportal.html?id=17984792. [Accessed 12th May 2025].

[12] P. M . Hopson et al.,, “Geology of the Salisbury District. Sheet description of the British Geological Survey, 1:50 000 Series Sheet 298 (England and Wales),” 2008. [Online]. Available: https://webapps.bgs.ac.uk/Memoirs/docs/B06082.html. [Accessed 12th May 2025].

[13] Landmark Envirocheck Report, “Order Number 377078935_1_1,” May 2025.

[14] Environment Agency, “Protect groundwater and prevent groundwater pollution,” [Online]. Available: https://www.gov.uk/government/publications/protect-groundwater-and-prevent-groundwater-pollution/protect-groundwater-and-prevent-groundwater-pollution. [Accessed 19 May 2025].

[15] CJ Associates Geotechnical Limited, “Ground Investigation No. W0929B Factual and Interpretative Draft Report. Salisbury District Hospital 'Site B',” January 2009.

[16] Curtins Consulting Limited , “Ground Investigation Report - Elective Surgery Recovery Ward, Salisbury Hospital. Document Reference: 081703.300-CUR-00-XX-RP-GE-0001-V03,” December 2022.

[17] 6 Alpha Associates Ltd, “Salisbury District Hospital Preliminary Unexploded Ordnance (UXO) Threat Assessment. Project No: 11902,” May 2025.

[18] Mott MacDonald Ltd, “Flood Risk Study and Drainage Strategy. Document Reference: STECC-MMD-ZZ-ZZ-RP-CE-930001,” 2026.

[19] CIRIA, “C574: Engineering in Chalk”.

[20] Wiltshire Council, “Developer’s guidance note, Surface water soakaways,” 2018.

[21] CIRIA Report 143, “The Standard Penetration Test (SPT): Method and Use,” 1995.

[22] British Research Establishmement , “BRE Digest 365 Soakaway Design,” 2016.

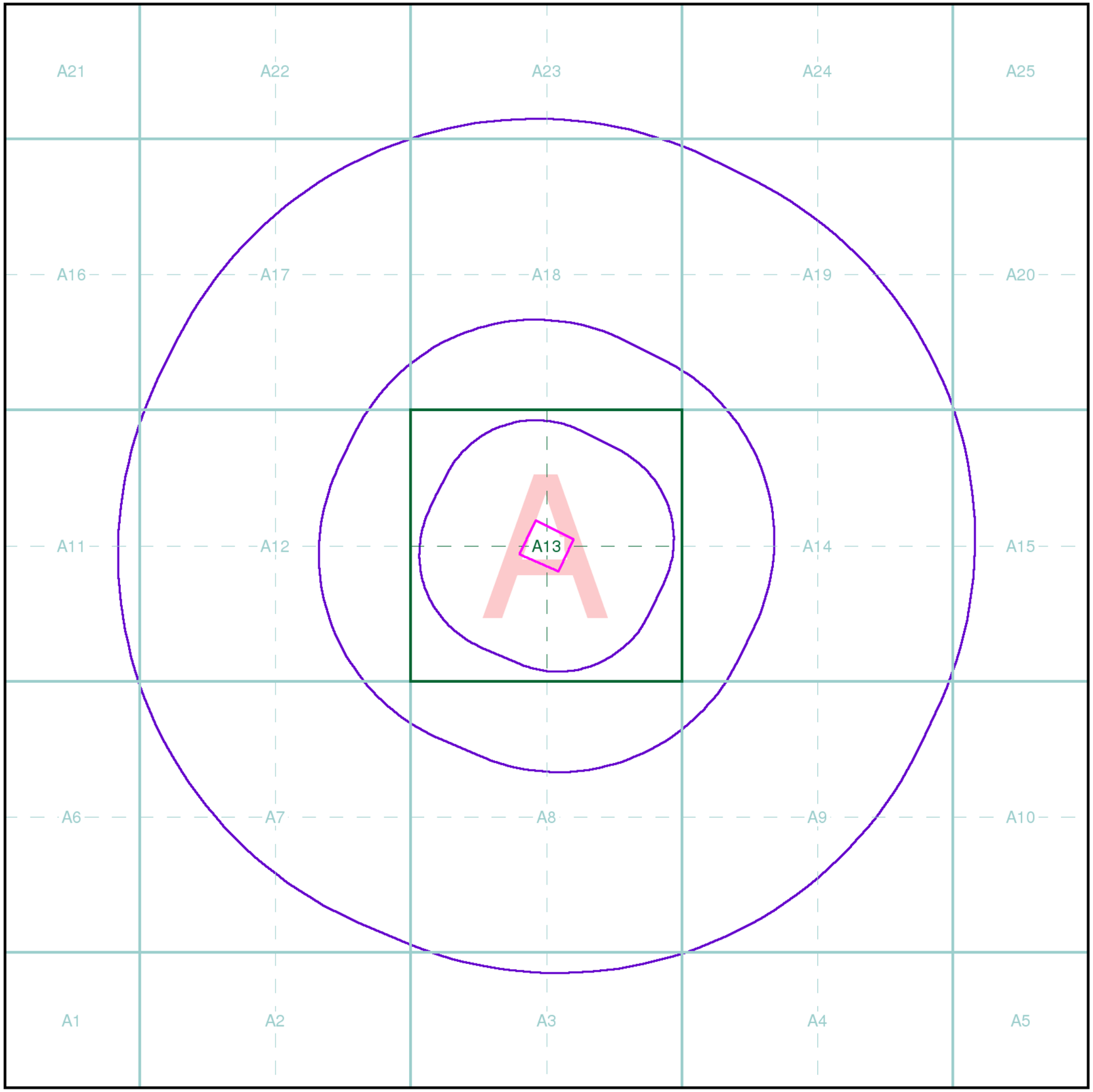
[23] CIRIA C552, “Contaminated Land Risk Assessment – A Guide to Good Practice.,” January 2001.

[24] Environment Agency, “Land Contamination Risk Management (LCRM) - How to access and manage the risks from land contamination,” [Online]. Available: https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm. [Accessed June 2025].

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A. Envirocheck Report



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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

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Order Details

Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
377078935_1_1

Customer Reference:
100123741 CS02

National Grid Reference:
415060, 127250

Slice:
A

Site Area (Ha):
0.95

Search Buffer (m):
1000

Site Details:

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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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Report Version v53.0

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Integrated Pollution Prevention And Control					
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Local Authority Pollution Prevention and Controls					
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BGS Urban Soil Chemistry Averages					
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Potential for Running Sand Ground Stability Hazards				n/a	n/a
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	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	0	1	415000 127247
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (NE)	0	1	415061 127247
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	469	1	415500 127550
1	**Discharge Consents** Operator: Mr B Longhurst Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Land Next To Yew Tree Cottage 15 High Road, Britford, Salisbury, Wiltshire, Sp5 4ds Authority: Environment Agency, South West Region Catchment Area: Avon - Salisbury - Fordgbridge Reference: 401745 Permit Version: 1 Effective Date: 11th June 2004 Issued Date: 11th June 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Groundwater To Soakaway **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	722	2	415680 127730
2	**Discharge Consents** Operator: Trustees Of The 8th Earl Of Radnor Property Type: Undefined Or Other Location: Upend Farm, Britford, Salisbury, Wiltshire Authority: Environment Agency, South West Region Catchment Area: Avon - Salisbury - Fordgbridge Reference: 050435 Permit Version: 1 Effective Date: 1st March 1963 Issued Date: Not Supplied Revocation Date: 29th October 2002 Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	921	2	416030 127450
2	**Discharge Consents** Operator: Martin, P. J. Property Type: Undefined Or Other Location: Upend Farm, Britford, Salisbury, Wiltshire Authority: Environment Agency, South West Region Catchment Area: Avon - Salisbury - Fordgbridge Reference: 050435 Permit Version: 1 Effective Date: 1st March 1963 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 100m	A14NE (E)	921	2	416030 127450
	Nearest Surface Water Feature	A17SE (NW)	596	-	414633 127751
3	**Registered Radioactive Substances** Name: Salisbury Nhs Foundation Trust Location: Salisbury District Hospital, Odstock Road, Salisbury, Sp2 8bj Authority: Environment Agency, South West Region Permit Reference: AO5999 Dated: 9th October 2014 Process Type: Not Supplied Description: Not Supplied **Status: Replaced** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	2	414831 127198

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Registered Radioactive Substances** Name: Salisbury Nhs Foundation Trust Location: Salisbury District Hospital, Odstock Road, Salisbury, Sp2 8bj Authority: Environment Agency, South West Region Permit Reference: CD9879 Dated: 9th October 2014 Process Type: Not Supplied Description: Not Supplied **Status: Replaced** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	2	414831 127198
3	**Registered Radioactive Substances** Name: Salisbury Nhs Foundation Trust Location: Salisbury District Hospital, Odstock, SALISBURY, Wiltshire, SP2 8BJ Authority: Environment Agency, South West Region Permit Reference: Bw6582 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	2	414831 127199
3	**Registered Radioactive Substances** Name: Salisbury Nhs Foundation Trust Location: Salisbury District Hospital, Odstock, SALISBURY, Wiltshire, SP2 8BJ Authority: Environment Agency, South West Region Permit Reference: BA2172 Dated: 18th December 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 superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	2	414831 127199
3	**Registered Radioactive Substances** Name: Salisbury Nhs Foundation Trust Location: Salisbury District Hospital, Odstock, SALISBURY, Wiltshire, SP2 8BJ Authority: Environment Agency, South West Region Permit Reference: AO5956 Dated: 3rd November 1994 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	2	414831 127199
3	**Registered Radioactive Substances** Name: Salisbury Nhs Foundation Trust Location: Salisbury District Hospital, Odstock, SALISBURY, Wiltshire, SP2 8BJ Authority: Environment Agency, South West Region Permit Reference: AH6490 Dated: 21st September 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	2	414831 127199
3	**Registered Radioactive Substances** Name: Salisbury Health Care Nhs Trust Location: Salisbury District Hospital, Odstock, SALISBURY, Wiltshire, SP2 8BJ Authority: Environment Agency, South West Region Permit Reference: AB7337 Dated: 15th November 1992 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of multiple open sources which are also the subject of authorisations **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	2	414831 127199
3	**Registered Radioactive Substances** Name: Salisbury Nhs Foundation Trust Location: Salisbury District Hospital, Odstock, SALISBURY, Wiltshire, SP2 8BJ Authority: Environment Agency, South West Region Permit Reference: AB7345 Dated: 24th February 1992 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	2	414831 127199

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Registered Radioactive Substances** Name: Salisbury Health Care Nhs Trust Location: Salisbury District Hospital, Odstock, SALISBURY, Wiltshire, SP2 8BJ Authority: Environment Agency, South West Region Permit Reference: AB7736 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation either revoked or cancelled** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	2	414831 127199
3	**Registered Radioactive Substances** Name: Salisbury Nhs Foundation Trust Location: Salisbury District Hospital, Odstock Road, Salisbury, Sp2 8bj Authority: Environment Agency, Head Office Permit Reference: ZB3895DV Dated: Not Supplied Process Type: Not Supplied Description: Not Supplied **Status: Application has been determined by the EA** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	2	414831 127198
4	**Water Abstractions** Operator: Mr P J Martin Licence Number: 13/43/026/G/018 Permit Version: 100 Location: Upend Farm, Britford Borehole #1 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands Surrounding Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 3rd May 2006 Permit End Date: Not Supplied Positional Accuracy: Manually corrected supplier location	A14NE (E)	883	2	416000 127400
	Water Abstractions Operator: Mr Egremont Licence Number: 13/43/026/G/020 Permit Version: 101 Location: Britford Borehole Point 2 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	1213	2	415900 128200
	Water Abstractions Operator: Mr M J Egremont Licence Number: 13/43/026/G/020 Permit Version: 100 Location: Britford Borehole Point 2 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	1213	2	415900 128200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Tops Estates Limited Licence Number: 13/43/026/G/050 Permit Version: 102 Location: Bridge Farm, Britford Well #1 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands Surrounding Bridge Farm, Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st July 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24SW (NE)	1218	2	415620 128380
	Water Abstractions Operator: N C Hunt & A M Wright Licence Number: 13/43/026/G/050 Permit Version: 101 Location: Bridge Farm, Britford Well #1 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands Surrounding Bridge Farm, Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 20th July 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24SW (NE)	1218	2	415620 128380
	Water Abstractions Operator: Messrs H N Tilley Licence Number: 13/43/026/G/050 Permit Version: 100 Location: Bridge Farm, Britford Well #1 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands Surrounding Bridge Farm, Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24SW (NE)	1218	2	415620 128380
	Water Abstractions Operator: Mr J S Whittle Licence Number: 13/43/026/G/037 Permit Version: 100 Location: Dairy Farm, Britford Borehole Point A Authority: Environment Agency, South West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st May 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20NW (NE)	1282	2	416100 128100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr Egremont Licence Number: 13/43/026/G/020 Permit Version: 101 Location: Lower Farm Borehole Point 1 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SW (E)	1345	2	416400 127700
	Water Abstractions Operator: Mr M J Egremont Licence Number: 13/43/026/G/020 Permit Version: 100 Location: Lower Farm Borehole Point 1 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SW (E)	1345	2	416400 127700
	Water Abstractions Operator: Trustees Of J S Whittle Licence Number: 13/43/025/G/026 Permit Version: 100 Location: Dogdean Farm, Coombe Bissett Well #1 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands Surrounding Dogdean Farm And Coombe Bissett Outlined Red On Licence Plan #2 Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11SW (W)	1501	2	413500 127095
	Water Abstractions Operator: Trafalgar Fisheries Licence Number: 13/43/025/S/114 Permit Version: 100 Location: River Ebble At Bodenham Point 1 Authority: Environment Agency, South West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Longford Fish Farm Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 12th March 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SE)	1528	2	416440 126470

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr Egremont Licence Number: 13/43/026/G/020 Permit Version: 101 Location: Lower Farm Borehole Point 3 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1673	2	416800 127300
	Water Abstractions Operator: Mr M J Egremont Licence Number: 13/43/026/G/020 Permit Version: 100 Location: Lower Farm Borehole Point 3 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1673	2	416800 127300
	Water Abstractions Operator: Mr M J Egremont Licence Number: 13/43/026/G/020 Permit Version: 100 Location: Lower Farm Borehole Point 5 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1677	2	416800 127395
	Water Abstractions Operator: Mr Egremont Licence Number: 13/43/026/G/020 Permit Version: 101 Location: Lower Farm Borehole Point 4 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1678	2	416800 127400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr Egremont Licence Number: 13/43/026/G/020 Permit Version: 101 Location: Lower Farm Borehole Point 5 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1678	2	416800 127400
	Water Abstractions Operator: Mr M J Egremont Licence Number: 13/43/026/G/020 Permit Version: 100 Location: Lower Farm Borehole Point 4 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1682	2	416805 127395
	Water Abstractions Operator: Mr Egremont Licence Number: 13/43/026/G/020 Permit Version: 101 Location: Lower Farm Well Point 6 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1689	2	416800 127500
	Water Abstractions Operator: Mr M J Egremont Licence Number: 13/43/026/G/020 Permit Version: 100 Location: Lower Farm Well Point 6 Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1689	2	416800 127500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr J S Whittle Licence Number: 13/43/026/G/037 Permit Version: 100 Location: Rectory Farm Borehole Point B Authority: Environment Agency, South West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lands At Britford Outlined Red On Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st May 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25NW (NE)	1777	2	416300 128600
	Water Abstractions Operator: Environment Agency Licence Number: Sw/043/0026/008/R01 Permit Version: 1 Location: River Avon At Britford Wire Hatches Authority: Environment Agency, South West Region Abstraction: Other Environmental Improvements: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2025 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1831	2	415013 129141
	Water Abstractions Operator: Environment Agency Licence Number: Sw/043/0026/008 Permit Version: 1 Location: River Avon At Britford Wire Hatches Authority: Environment Agency, South West Region Abstraction: Other Environmental Improvements: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 18th June 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1831	2	415013 129141
	Water Abstractions Operator: Mr R G C Clarke Licence Number: 134326S061 Permit Version: Not Supplied Location: Petersfinger Farm, SALISBURY, Wiltshire Authority: Environment Agency, South West Region Abstraction: Unspecified Abstraction Type: Not Supplied Source: River Daily Rate (m3): 136 Yearly Rate (m3): 8182 Details: Expired: 13-Jun-1992; Bourne Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NE)	1855	2	415800 129000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Nunton Farms Licence Number: Sw/043/0025/002 Permit Version: 1 Location: Nunton Farm Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 18th December 2020 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1906	2	415900 125460
	Water Abstractions Operator: Nunton Farms Licence Number: Sw/043/0025/002 Permit Version: 1 Location: Nunton Farm Authority: Environment Agency, South West Region Abstraction: General Agriculture: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 18th December 2020 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1906	2	415900 125460
	Water Abstractions Operator: St Martin Pj Martin & Viscount Folkestone Licence Number: 13/43/025/G/120 Permit Version: 101 Location: Nunton Farm Authority: Environment Agency, South West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1906	2	415900 125460
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SW (W)	0	2	415000 127247

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: High	A13SW (NE)	0	2	415061 127247
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A13SW (W)	0	2	415000 127247
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A13SW (NE)	0	2	415061 127247
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SW (NE)	0	3	415061 127247
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SW (W)	0	3	415000 127247
	Superficial Aquifer Designations No Data Available				
	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				
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 182.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	744	4	414640 126572
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	752	4	414691 126540
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 113.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	752	4	414691 126540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	755	4	414794 126491
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	755	4	414804 126488
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 214.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	757	4	414628 126564
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	770	4	414789 126477
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (SW)	771	4	414745 126496
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 162.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7NE (SW)	773	4	414525 126613
14	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 605.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Ebble Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	785	4	414365 126760
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	799	4	414780 126450
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	800	4	414344 126763

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	806	4	414368 126722
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	812	4	414638 126498
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 120.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SE (S)	816	4	415077 126370
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	817	4	414641 126491
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	817	4	414340 126740
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 311.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	817	4	414267 126856
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 95.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A7SE (SW)	817	4	414641 126491
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A8SE (S)	825	4	415270 126381
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A8SE (S)	825	4	415275 126382

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 427.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SE (S)	827	4	415285 126383
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SE (S)	828	4	415278 126379
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 323.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	830	4	414882 126381
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	835	4	414691 126449
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A7SE (SW)	840	4	414707 126437
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	840	4	414707 126437
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	843	4	414764 126409
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 99.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A8SW (S)	845	4	414762 126408
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	852	4	414488 126543

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 446.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	883	4	414223 126799
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Ebble Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	883	4	414223 126799
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 87.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	892	4	414958 126303
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	893	4	415044 126295
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SE (S)	893	4	415160 126295
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SE (S)	897	4	415160 126292
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SE (S)	897	4	415160 126292
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 187.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A8SE (S)	900	4	415164 126289
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	901	4	414978 126292

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	901	4	415045 126286
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	901	4	415046 126286
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 259.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A19SE (NE)	903	4	415861 127790
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 103.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	903	4	414504 126470
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	906	4	414330 126613
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 90.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	906	4	414330 126613
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 93.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	906	4	414330 126613
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A7SE (SW)	907	4	414573 126424
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A7SE (SW)	907	4	414575 126423

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A7NW (SW)	909	4	414206 126776
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A7SE (SW)	909	4	414575 126421
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 301.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Ebble Catchment Name: Avon Hampshire Primacy: 1	A8SE (S)	910	4	415363 126318
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 203.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Ebble Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	910	4	414205 126778
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SE (S)	912	4	415062 126274
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Ebble Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	912	4	414568 126421
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	915	4	415050 126272
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SW (S)	915	4	415050 126272
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	915	4	414388 126543

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 102.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	915	4	414388 126543
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 394.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A19SE (NE)	916	4	415793 127894
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 168.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A19SE (NE)	916	4	415793 127894
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 86.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	918	4	414390 126537
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 178.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A19SE (E)	920	4	415988 127592
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A8SE (S)	922	4	415095 126264
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A7SE (SW)	924	4	414661 126365
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A7SE (SW)	924	4	414661 126365
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 219.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A19SE (NE)	925	4	415849 127843

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A9SW (SE)	927	4	415505 126357
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 147.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A14NE (E)	928	4	416021 127516
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	936	4	414453 126465
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	936	4	414453 126465
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 223.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A19SE (NE)	937	4	415802 127915
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 149.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A9SW (SE)	940	4	415622 126410
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A8SW (S)	944	4	414728 126314
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A9SW (SE)	955	4	415524 126334
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 126.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Ebble Catchment Name: Avon Hampshire Primacy: 1	A9SW (SE)	956	4	415520 126332

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	962	4	414498 126404
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	962	4	414498 126404
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A7SE (SW)	962	4	414558 126371
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 107.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7NW (SW)	965	4	414137 126786
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 115.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A14NE (E)	967	4	416069 127487
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 226.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A9SW (SE)	977	4	415699 126422
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A9SW (SE)	977	4	415699 126422
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 262.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	983	4	414517 126369
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	983	4	414520 126368

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	983	4	414520 126368
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	991	4	414533 126351
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 98.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Ebble Catchment Name: Avon Hampshire Primacy: 1	A7SE (SW)	991	4	414533 126351
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A7SE (SW)	991	4	414637 126303
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 138.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 2	A9SW (SE)	993	4	415702 126404
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 282.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Ebble Catchment Name: Avon Hampshire Primacy: 1	A3NE (S)	996	4	415246 126202
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A15NW (E)	996	4	416109 127440
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A19NE (NE)	996	4	415766 128029
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Hampshire Primacy: 1	A7SW (SW)	996	4	414280 126534

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Hampshire Avon (Lower) WaterBody ID: GB108043015840 Operational Catchment: Avon Hampshire Management Catchment: Avon Hampshire Catchment Name: Hampshire Avon	A13SW (NE)	0	2	415061 127247
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Ebble WaterBody ID: GB108043015830 Operational Catchment: Avon Hampshire Management Catchment: Avon Hampshire Catchment Name: Hampshire Avon	A13SW (S)	8	2	415060 127190
	Water Framework Directive - Groundwater Waterbody Name: Upper Hampshire Avon Waterbody ID: GB40801G806900 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB40801G806900 Overall Rating: Poor Chemical Rating: Poor Quantitative Measure: Good Year: 2019	A13SW (NE)	0	2	415061 127247

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	**Licensed Waste Management Facilities (Locations)** Licence Number: 23634 Location: Land/ Premises At, Odstock Road, Salisbury, Wiltshire, SP2 8BJ Operator Name: SALISBURY HEALTH CARENHSTRUST Operator Location: Not Supplied Authority: Environment Agency - South West Region, Wessex Area Site Category: Clinical Waste Transfer Stations **Licence Status: Surrendered** Issued: 15th August 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 15th August 1994 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (W)	116	2	414900 127300
	Local Authority Landfill Coverage Name: Wiltshire County Council - Has supplied landfill data		0	6	415061 127247
	Local Authority Landfill Coverage Name: Salisbury District Council - Landfill data has been supplied by another authority		0	5	415061 127247
99	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1985	A19SW (NE)	547	-	415430 127720
100	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1985	A19SW (NE)	581	-	415442 127753
101	**Registered Waste Transfer Sites** Licence Holder: Salisbury Health Care Nhs Trust Licence Reference: S/94/0080/Wd Site Location: Salisbury District Hospital, Odstock Road, SALISBURY, Wiltshire, SP2 8BJ Operator Location: As Site Address Authority: Environment Agency - South West Region, South Wessex Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: Waste produced/controlled by licence holder Licence Status: Operational as far as is knownOperational Dated: 1st August 1994 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate Authorised Waste: Clin.Waste Hsc - Grps Aa,B,C,B,C,D,E Incidental Commercial Waste Max.Storage In Working Plan	A13SW (W)	57	2	414939 127239

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A13SW (NE)	0	1	415061 127247
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13SW (NE)	0	1	415061 127247
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	207	1	415000 127000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	332	1	415279 127560
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	428	1	415273 127670
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	627	1	415707 127025
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A7NE (SW)	706	1	414640 126615

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9SW (SE)	831	1	415424 126425
102	**BGS Recorded Mineral Sites** Site Name: Manor Farm Gravel Pit Location: Britford, Salisbury, Wiltshire Source: British Geological Survey, National Geoscience Information Service Reference: 56574 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	545	1	415427 127720
103	**BGS Recorded Mineral Sites** Site Name: Bridge Farm Chalk Pit Location: Britford, Salisbury, Wiltshire Source: British Geological Survey, National Geoscience Information Service Reference: 56571 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Culver Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18NE (N)	797	1	415172 128096
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	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 (W)	0	1	415000 127247
	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 (NE)	0	1	415061 127247
	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 (W)	0	1	415000 127247
	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 (NE)	0	1	415061 127247

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	**Contemporary Trade Directory Entries** Name: Salisbury Nhs Foundation Trust Location: Odstock Road, Salisbury, Wiltshire, SP2 8BJ Classification: Hospitals **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SW (W)	167	-	414831 127199
104	**Contemporary Trade Directory Entries** Name: Department Of Sexual Health Location: WH Smith and Son, Salisbury District Hospital, Odstock Road, Salisbury, SP2 8BJ Classification: Hospitals **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13SW (W)	167	-	414831 127199
104	**Contemporary Trade Directory Entries** Name: The Sterilization & Disinfection Unit Location: Odstock Road, Salisbury, SP2 8BJ Classification: Hygiene & Cleansing Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	-	414831 127199
104	**Contemporary Trade Directory Entries** Name: Steris Ltd Location: Salisbury Hospital,Odstock Road, Salisbury, Wiltshire, SP2 8BJ Classification: Hygiene & Cleansing Services **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13SW (W)	167	-	414831 127198
104	**Contemporary Trade Directory Entries** Name: Public Health Laboratory Service Location: Odstock Road, Salisbury, SP2 8BJ Classification: Medical & Dental Laboratories **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	-	414831 127199
104	**Contemporary Trade Directory Entries** Name: Salisbury Health Care Nhs Trust Location: Odstock Road, Salisbury, SP2 8BJ Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	-	414831 127199
104	**Contemporary Trade Directory Entries** Name: Odstock Medical Ltd Location: ODSTOCK ROAD, SALISBURY, SP2 8BJ Classification: Medical Equipment Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	-	414831 127198
104	**Contemporary Trade Directory Entries** Name: Salisbury District Hospital Location: Odstock Road, Salisbury, SP2 8BJ Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	-	414831 127199
104	**Contemporary Trade Directory Entries** Name: Salisbury Health Care Nhs Trust Location: Odstock Rd, Salisbury, Wiltshire, SP2 8BJ Classification: Cleaning Services - Commercial **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SW (W)	167	-	414831 127199
104	**Contemporary Trade Directory Entries** Name: Salisbury District Hospital Location: Odstock Road, Salisbury, SP2 8BJ Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	-	414831 127199
104	**Contemporary Trade Directory Entries** Name: Salisbury Health Care Nhs Trust Location: Odstock Road, Salisbury, Wiltshire, SP2 8BJ Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	167	-	414831 127199

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	**Contemporary Trade Directory Entries** Name: Surface Medic Location: 10, High Road, Britford, Salisbury, SP5 4DS Classification: Furniture - Repairing & Restoring **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	763	-	415683 127787
105	**Contemporary Trade Directory Entries** Name: Ovenwise Location: 10, High Road, Britford, Salisbury, SP5 4DS Classification: Oven cleaning **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	764	-	415684 127788
105	**Contemporary Trade Directory Entries** Name: Rainbow Domestics Location: 5, High Road, Britford, Salisbury, SP5 4DS Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	774	-	415661 127826
106	**Contemporary Trade Directory Entries** Name: Hampshire Static Caravans Direct Ltd Location: The Chalk Pit, Downton Road, Salisbury, SP2 8AU Classification: Caravan Dealers & Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	777	-	415180 128074
106	**Contemporary Trade Directory Entries** Name: Dairy Crest Ltd Location: Downton Road, Salisbury, SP2 8AU Classification: Dairies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	778	-	415180 128074
107	**Contemporary Trade Directory Entries** Name: Kova Solutions Location: 16, BEAKER WAY, SALISBURY, SP2 8FH Classification: Distribution Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	853	-	415133 128158
108	**Points of Interest - Commercial Services** Name: Kova Solutions Location: 16 Beaker Way, Salisbury, SP2 8FH Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A18NE (N)	853	7	415133 128158
109	**Points of Interest - Education and Health** Name: Salisbury District Hospital Location: Odstock Road, Salisbury, SP2 8BJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13SW (W)	167	7	414831 127198
109	**Points of Interest - Education and Health** Name: Salisbury District Hospital Location: Odstock Road, Salisbury, SP2 8BJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13SW (W)	167	7	414831 127199
109	**Points of Interest - Education and Health** Name: Salisbury District Hospital Location: Odstock Road, Salisbury, SP2 8BJ Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A13SW (W)	167	7	414831 127199
109	**Points of Interest - Education and Health** Name: Salisbury District Hospital Location: Odstock Road, Salisbury, SP2 8BJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13SW (W)	167	7	414831 127199
109	**Points of Interest - Education and Health** Name: Salisbury District Hospital Location: Odstock Road, Salisbury, SP2 8BJ Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A13SW (W)	167	7	414831 127199

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	**Points of Interest - Education and Health** Name: Salisbury District Hospital Location: Odstock Road, Salisbury, SP2 8BJ Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A13NW (N)	272	7	415017 127582
111	**Points of Interest - Manufacturing and Production** Name: Tank Location: SP2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	67	7	414954 127175
112	**Points of Interest - Manufacturing and Production** Name: Tank Location: SP2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NW (N)	114	7	415047 127424
112	**Points of Interest - Manufacturing and Production** Name: Tanks Location: SP5 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	115	7	415047 127425
113	**Points of Interest - Manufacturing and Production** Name: Workings (Dis) Location: SP5 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	397	7	415489 127099
114	**Points of Interest - Manufacturing and Production** Name: Tank Location: SP5 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19SE (E)	935	7	415992 127621
115	**Points of Interest - Manufacturing and Production** Name: Workings (Dis) Location: SP5 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A11SE (W)	995	7	414001 127212
116	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	761	7	414791 126486
117	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	845	7	415007 126345
117	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	846	7	415008 126344
118	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	898	7	415174 126292
118	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	901	7	415182 126290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	**Points of Interest - Public Infrastructure** Name: Sluices Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	902	7	414590 126422
119	**Points of Interest - Public Infrastructure** Name: Sluices Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	908	7	414580 126420
120	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	945	7	415626 126407
120	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	947	7	415634 126411
120	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	970	7	415682 126417
121	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	968	7	414989 126223
121	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	976	7	414938 126222
121	**Points of Interest - Public Infrastructure** Name: Sluice Location: SP5 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	979	7	414929 126220

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	**Areas of Outstanding Natural Beauty** Name: Cranborne Chase & West Wiltshire Downs Multiple Areas: N Total Area (m2): 985947815.774436 Designation Date: 30th October 1983 Source: Natural England	A7NW (SW)	781	8	414368 126762
123	**Environmentally Sensitive Areas** Name: South Wessex Downs (decommissioned) Multiple Areas: Y Total Area (m2): 413182016.55 Source: Natural England	A7NE (SW)	709	8	414649 126606
124	**Environmentally Sensitive Areas** Name: Avon Valley (decommissioned) Multiple Areas: Y Total Area (m2): 40413276.76 Source: Natural England	A19SE (NE)	881	8	415875 127731
125	**Nitrate Vulnerable Zones** Name: South Wessex Description: Groundwater Source: Environment Agency, Head Office	A13SW (NE)	0	2	415061 127247

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department	December 2008	Not Applicable
Environment Agency - Head Office	November 2023	Annually
Wiltshire Council - Environmental Health Department	October 2017	Annually
New Forest District Council - Environmental Health Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - South West Region	April 2025	Quarterly
Environment Agency - Southern Region	April 2025	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - South West Region	March 2013	
Environment Agency - Southern Region	March 2013	
Integrated Pollution Controls		
Environment Agency - South West Region	January 2009	
Environment Agency - Southern Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - South East Region - Solent & South Downs Area	April 2025	Quarterly
Environment Agency - South West Region	April 2025	Quarterly
Environment Agency - Southern Region	April 2025	Quarterly
Local Authority Integrated Pollution Prevention And Control		
New Forest District Council - Environmental Health Department	February 2015	Variable
Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department	January 2009	Not Applicable
Wiltshire Council - Environmental Health Department	July 2023	Variable
Local Authority Pollution Prevention and Controls		
New Forest District Council - Environmental Health Department	February 2015	Annual Rolling Update
Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department	January 2009	Not Applicable
Wiltshire Council - Environmental Health Department	July 2023	Annually
Local Authority Pollution Prevention and Control Enforcements		
New Forest District Council - Environmental Health Department	February 2015	Variable
Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department	January 2009	Not Applicable
Wiltshire Council - Environmental Health Department	July 2023	Variable
Nearest Surface Water Feature		
Ordnance Survey	February 2025	
Pollution Incidents to Controlled Waters		
Environment Agency - Southern Region	December 1999	
Environment Agency - South West Region	September 1999	
Historical Prosecutions		
Environment Agency, South West Region	March 2013	Not Applicable
Registered Radioactive Substances		
Environment Agency - Head Office	May 2023	
Environment Agency - South West Region	May 2023	
Environment Agency - Southern Region	May 2023	
Substantiated Pollution Incident Register		
Environment Agency - South East Region - Solent & South Downs Area	April 2025	Quarterly
Environment Agency - South West Region - South Wessex Area	April 2025	Quarterly
Environment Agency - South West Region - Wessex Area	April 2025	Quarterly
Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office	April 2025	Quarterly
Environment Agency - Southern Region - Solent and South Downs	April 2025	Quarterly
Water Abstractions		
Environment Agency - South West Region	April 2025	Quarterly
Environment Agency - Southern Region	April 2025	Quarterly
Water Industry Act Referrals		
Environment Agency - South West Region	October 2017	
Environment Agency - Southern 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	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	January 2025	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Environment Agency - Head Office	July 2024	Annually
Water Framework Directive - Groundwater Environment Agency - Head Office	July 2024	Annually

Data Currency

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	October 2024	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - South West Region	January 2009	Not Applicable
Environment Agency - Southern Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - South East Region - Solent & South Downs Area	November 2024	Quarterly
Environment Agency - South West Region - South Wessex Area	November 2024	Quarterly
Environment Agency - South West Region - Wessex Area	November 2024	Quarterly
Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office	November 2024	Quarterly
Environment Agency - Southern Region - Solent and South Downs	November 2024	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - South East Region - Solent & South Downs Area	April 2025	Quarterly
Environment Agency - South West Region - South Wessex Area	April 2025	Quarterly
Environment Agency - South West Region - Wessex Area	April 2025	Quarterly
Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office	April 2025	Quarterly
Environment Agency - Southern Region - Solent and South Downs	April 2025	Quarterly
Local Authority Landfill Coverage		
Hampshire County Council - Minerals and Waste Planning	February 2003	Not Applicable
New Forest District Council - Environmental Health Department	February 2003	Not Applicable
Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department	February 2003	Not Applicable
Wiltshire County Council (now part of Wiltshire Council)	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Hampshire County Council - Minerals and Waste Planning	October 2018	
New Forest District Council - Environmental Health Department	October 2018	
Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department	October 2018	
Wiltshire County Council (now part of Wiltshire Council)	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency - South West Region - South Wessex Area	March 2006	Not Applicable
Environment Agency - South West Region - Wessex Area	March 2006	Not Applicable
Environment Agency - Southern Region - Hampshire Area	March 2006	Not Applicable
Environment Agency - Southern Region - Solent and South Downs	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - South West Region - South Wessex Area	April 2018	
Environment Agency - South West Region - Wessex Area	April 2018	
Environment Agency - Southern Region - Hampshire Area	April 2018	
Environment Agency - Southern Region - Solent and South Downs	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency - South West Region - South Wessex Area	June 2015	
Environment Agency - South West Region - Wessex Area	June 2015	
Environment Agency - Southern Region - Hampshire Area	June 2015	
Environment Agency - Southern Region - Solent and South Downs	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	September 2024	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		
Wiltshire County Council (now part of Wiltshire Council)	December 2008	Annual Rolling Update
Salisbury District Council (now part of Wiltshire Council)	July 2009	Not Applicable
Hampshire County Council - Minerals and Waste Planning	July 2023	Variable
Wiltshire Council - Planning Department	June 2023	Variable
New Forest District Council	May 2023	Variable
Planning Hazardous Substance Consents		
Wiltshire County Council (now part of Wiltshire Council)	December 2008	Annual Rolling Update
Hampshire County Council - Minerals and Waste Planning	February 2016	Variable
Wiltshire Council - Planning Department	February 2016	Variable
Salisbury District Council (now part of Wiltshire Council)	July 2009	Not Applicable
New Forest District Council	October 2015	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry		
British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	April 2025	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Coal Mining Affected Areas		
The Coal Authority - Property Searches	February 2023	
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	November 2024	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	November 2024	Annually

Data Currency

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	March 2025	Quarterly
Fuel Station Entries Green Street Advisor (UK) Ltd	February 2025	Quarterly
Points of Interest - Commercial Services PointX	March 2025	Quarterly
Points of Interest - Education and Health PointX	March 2025	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2025	Quarterly
Points of Interest - Public Infrastructure PointX	March 2025	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2025	Quarterly
Underground Electrical Cables National Grid	January 2024	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	March 2025	Bi-Annually
Areas of Adopted Green Belt		
New Forest District Council	July 2024	Quarterly
Salisbury District Council (now part of Wiltshire Council)	July 2024	Quarterly
Wiltshire Council - Planning Department	July 2024	Quarterly
Areas of Unadopted Green Belt		
New Forest District Council	July 2024	Quarterly
Salisbury District Council (now part of Wiltshire Council)	July 2024	Quarterly
Wiltshire Council - Planning Department	July 2024	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	May 2025	Bi-Annually
Environmentally Sensitive Areas		
Natural England	August 2023	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Natural England	March 2025	Bi-Annually
Marine Nature Reserves		
Natural England	February 2025	Bi-Annually
National Nature Reserves		
Natural England	January 2025	Bi-Annually
National Parks		
Natural England	September 2024	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	November 2024	Annually
Ramsar Sites		
Natural England	February 2025	Bi-Annually
Sites of Special Scientific Interest		
Natural England	November 2024	Bi-Annually
Special Areas of Conservation		
Natural England	January 2025	Bi-Annually
Special Protection Areas		
Natural England	May 2025	Bi-Annually

Data Suppliers

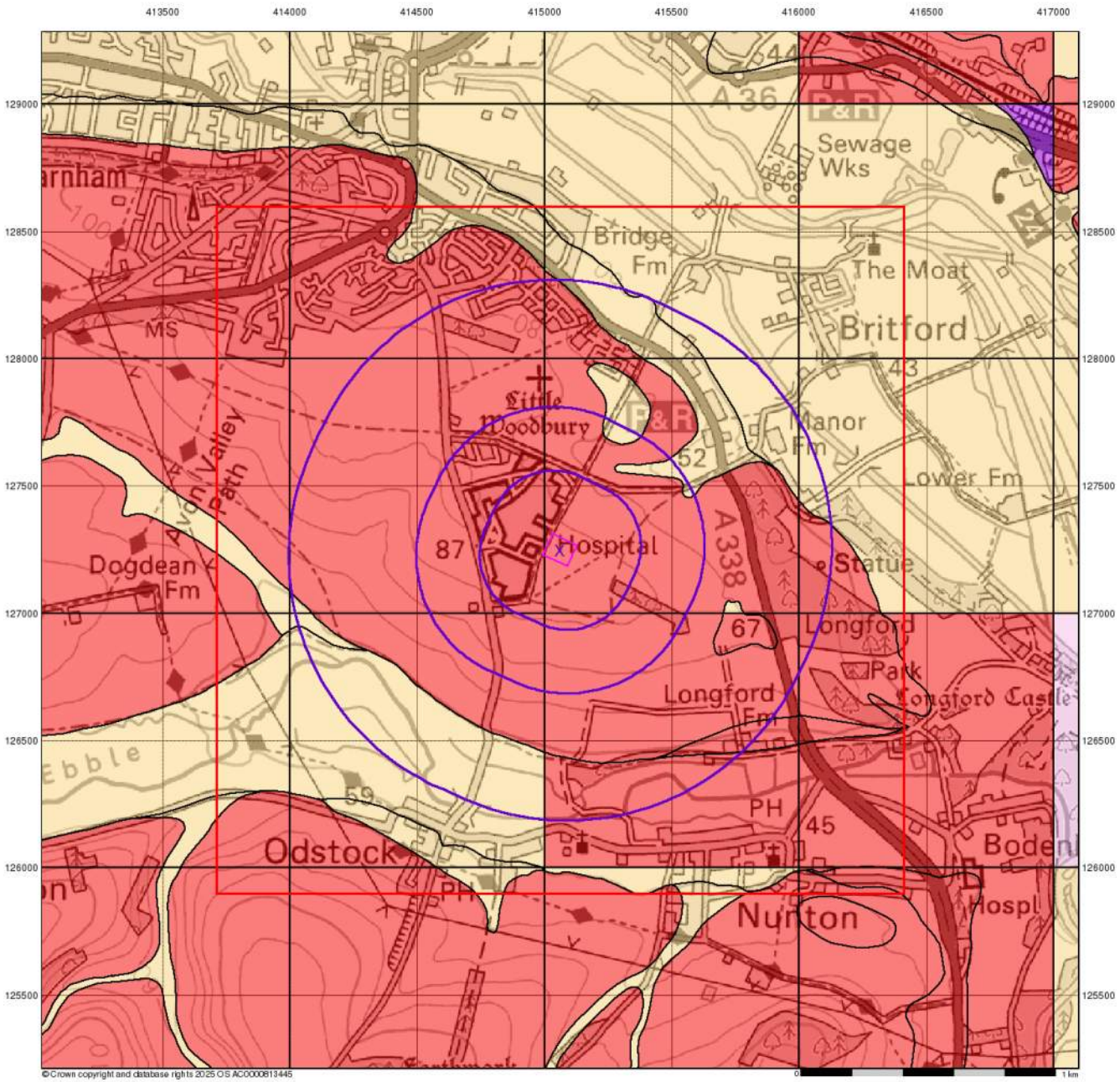
A selection of organisations who provide data within this report

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

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	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
5	**Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department** County Hall, Bythsea Road, Trowbridge, Wiltshire, BA14 8JN	Telephone: 0300 456 0100 Website: www.wiltshire.gov.uk
6	**Wiltshire County Council (now part of Wiltshire Council)** County Hall, Bythesea Road, Trowbridge, Wiltshire, BA14 8JN	Telephone: 01225 713000 Email: communications@wiltshire.gov.uk Website: www.wiltshire.gov.uk
7	**PointX** 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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



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Groundwater Vulnerability

General

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

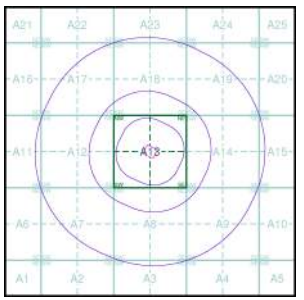
Agency and Hydrological

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



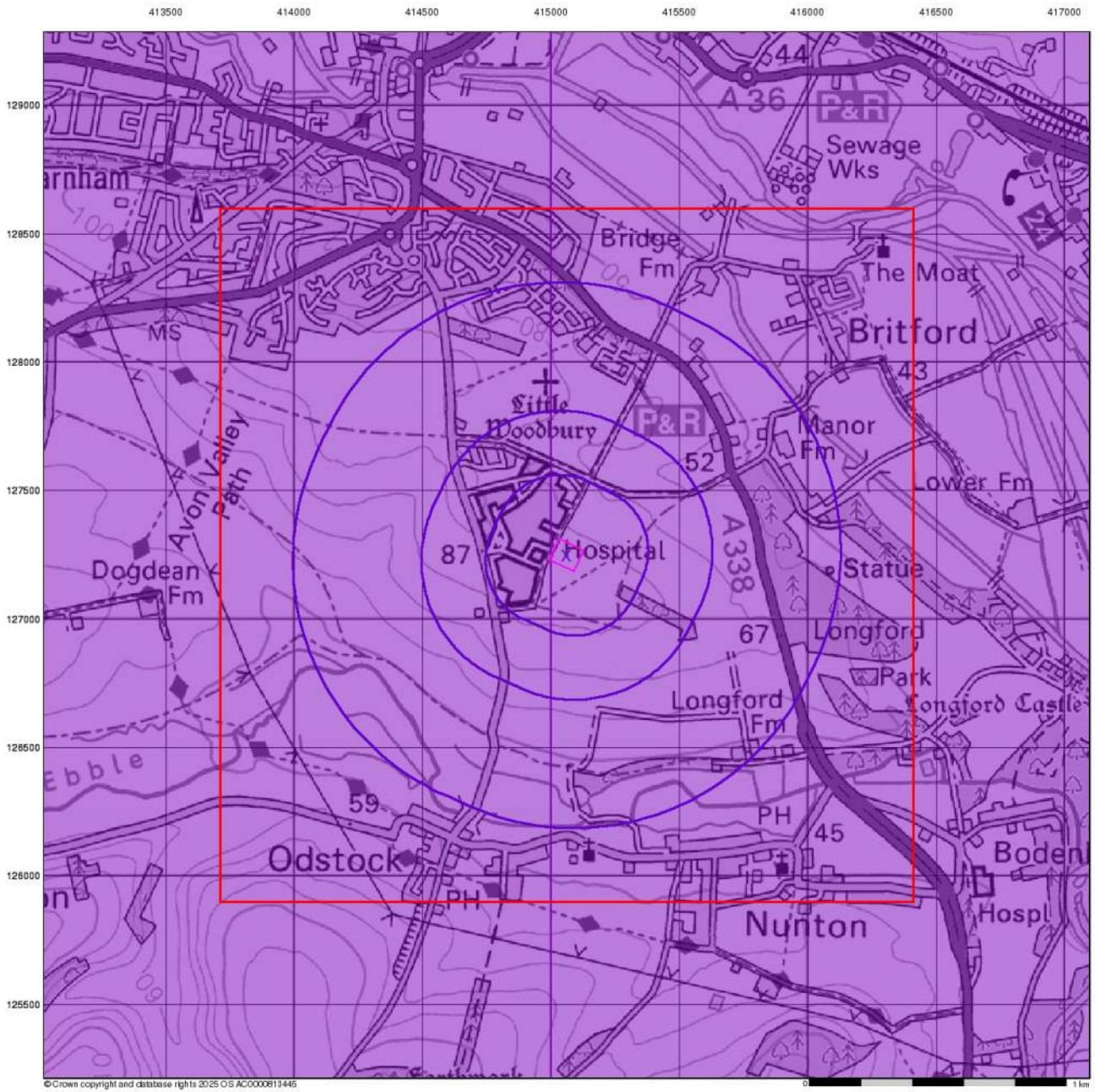
Order Details

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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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



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Bedrock Aquifer Designation

General

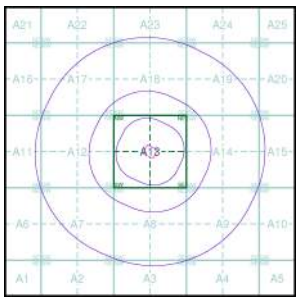
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



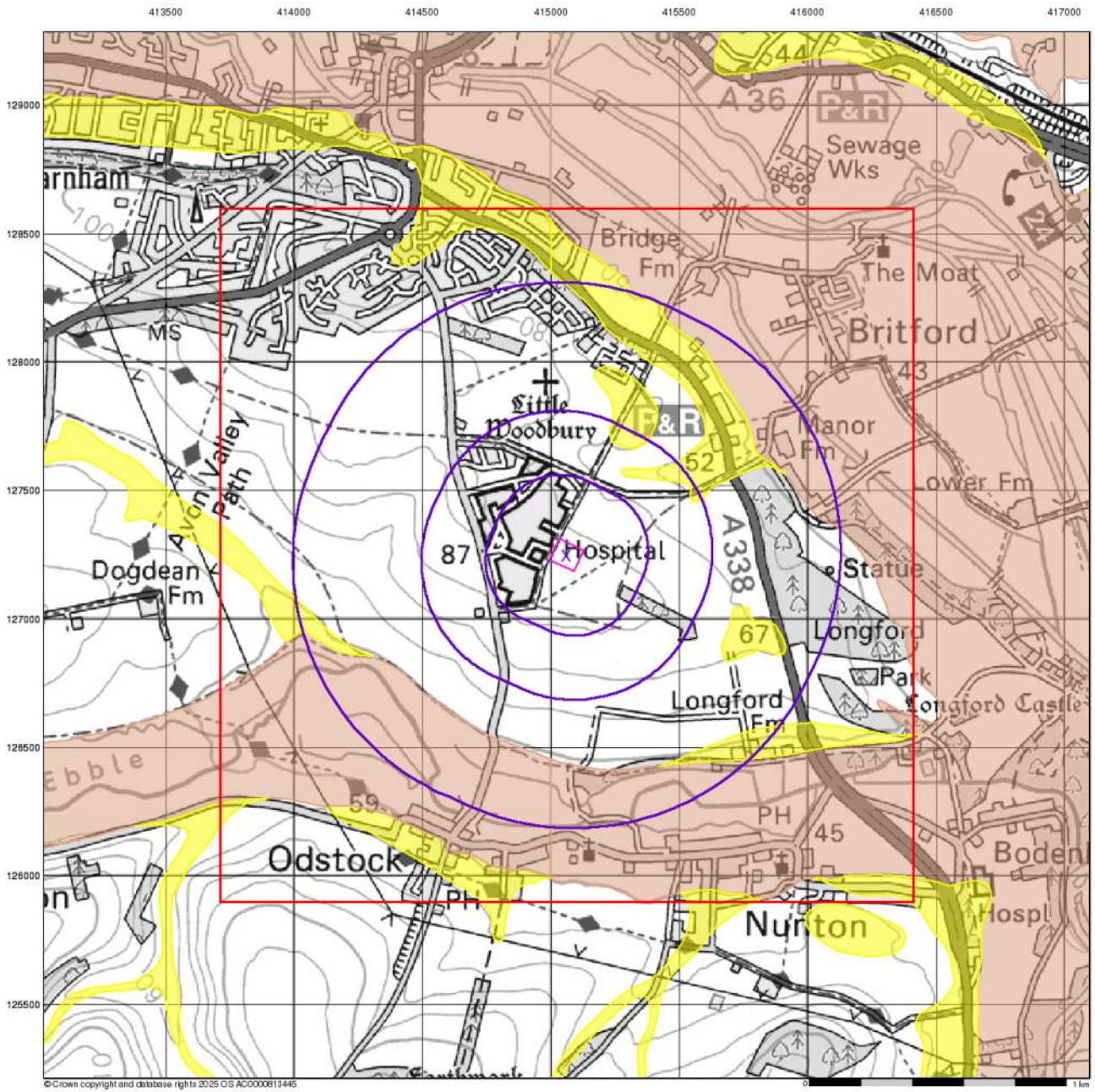
Order Details

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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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



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Superficial Aquifer Designation

General

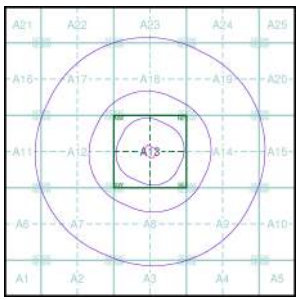
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



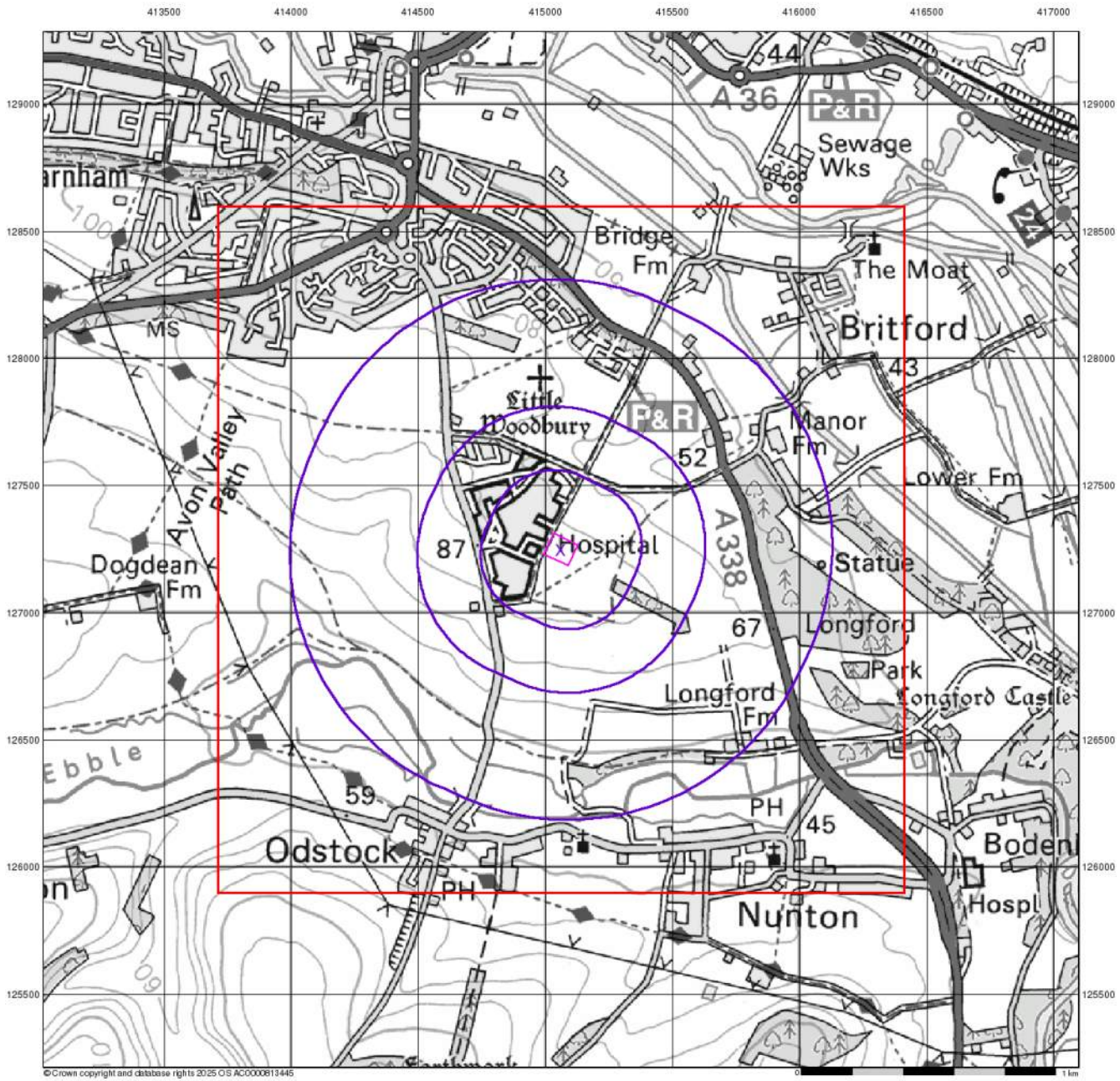
Order Details

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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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



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Source Protection Zones

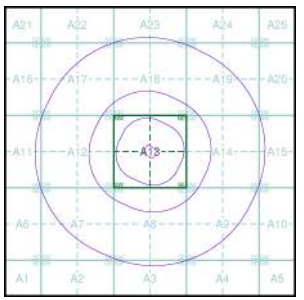
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



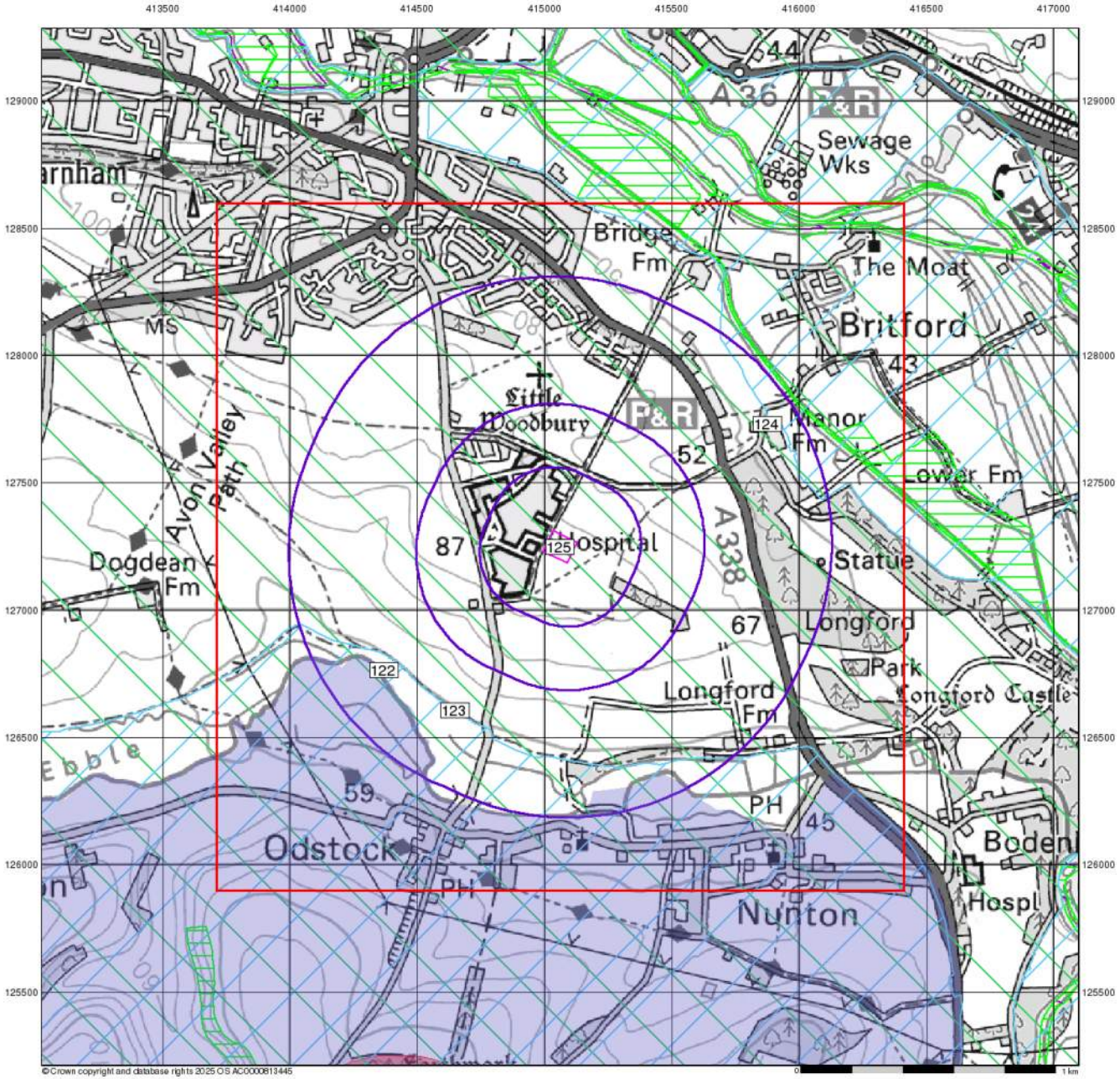
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Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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



Sensitive Land Uses

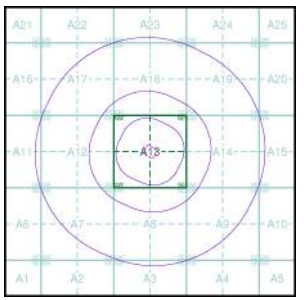
General

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



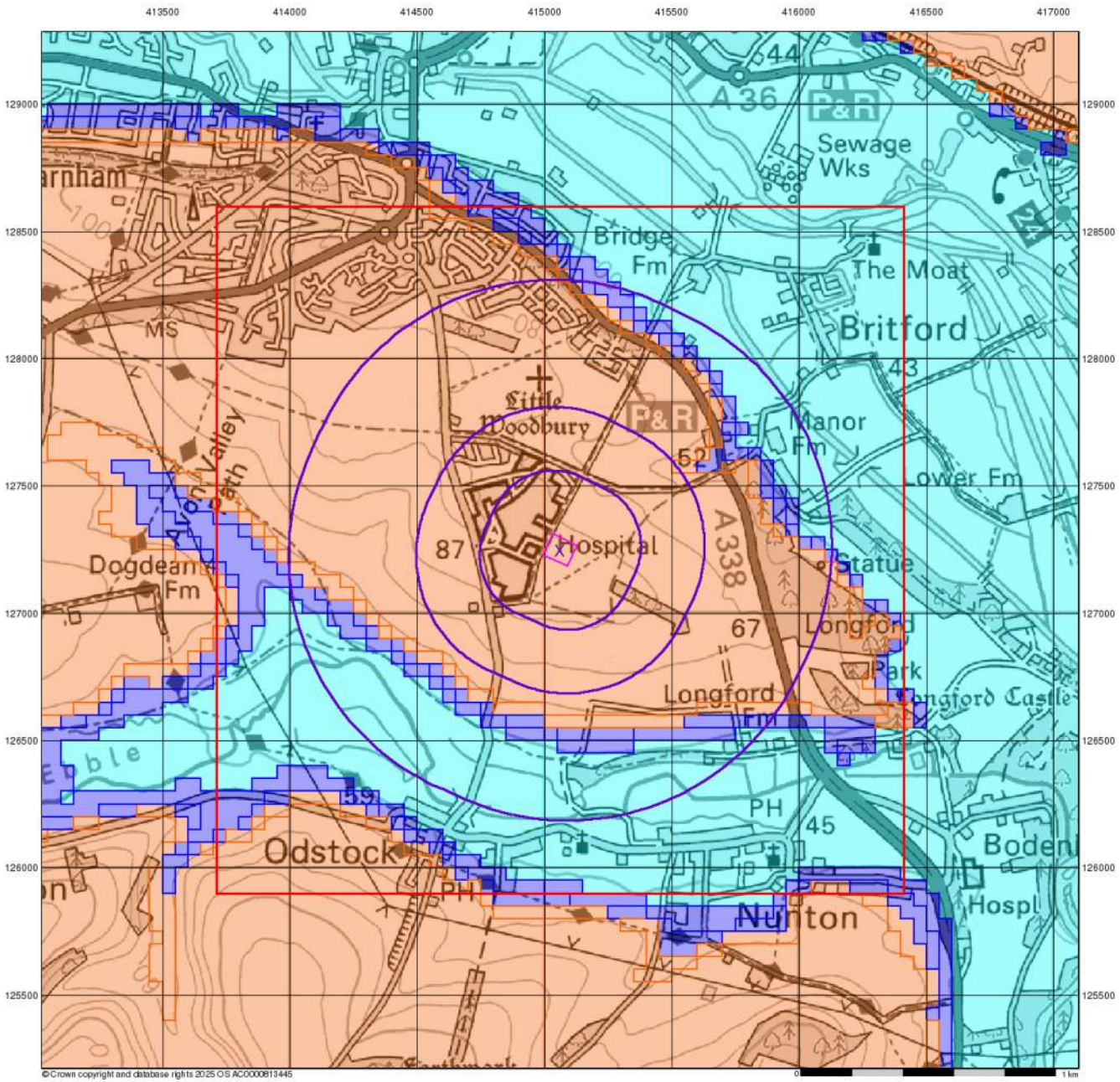
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Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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BGS Flood GFS Data

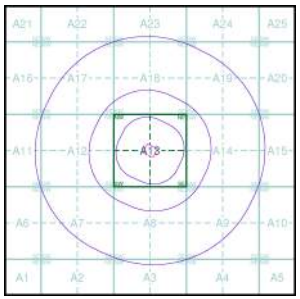
General

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:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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Fax: 0844 844 9951
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Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
377078935_1_1

Customer Reference:
100123741 CS02

National Grid Reference:
415060, 127250

Slice:
A

Site Area (Ha):
0.95

Search Buffer (m):
1000

Site Details:

Site at 415062,127248

Client Details:

Mr E Obiora
Mott Macdonald
1st Floor
Lakeside 300, Old Chapel Way
Broadland Business Park
Norwich
Norfolk
NR7 0WG

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Contents

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	-
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	2
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	3
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Historical Map List	4
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	5
Data Suppliers	6
Useful Contacts	7

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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1				2
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 1	Yes		n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying	pg 2				1
Heap, unknown constituents					
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits	pg 2			1	6
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 2				2
Potentially Infilled Land (Water)					
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 3	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 3	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 3	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 3	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 3	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 3	Yes		n/a	n/a
Salt Mining Related Features					

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Summary

Report Version v53.0

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Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**BGS Recorded Mineral Sites** Site Name: Manor Farm Gravel Pit Location: Britford, Salisbury, Wiltshire Source: British Geological Survey, National Geoscience Information Service Reference: 56574 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	545	1	415427 127720
2	**BGS Recorded Mineral Sites** Site Name: Bridge Farm Chalk Pit Location: Britford, Salisbury, Wiltshire Source: British Geological Survey, National Geoscience Information Service Reference: 56571 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Culver Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18NE (N)	797	1	415172 128096
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247

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Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**General Quarrying** Use: Not Supplied Date of Mapping: 1927	A12SW (W)	946	-	414050 127198
4	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1888	A14SW (E)	411	-	415505 127102
5	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1985	A18SE (NE)	533	-	415342 127753
6	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1901	A19SW (NE)	547	-	415430 127720
7	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1927	A18SE (NE)	554	-	415358 127768
8	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1888	A19SW (NE)	581	-	415442 127753
9	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1888	A9NW (SE)	671	-	415699 126902
10	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1888 - 1901	A18NE (N)	745	-	415174 128042
11	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1985	A19SW (NE)	547	-	415430 127720
12	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1985	A19SW (NE)	581	-	415442 127753

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Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
13	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
14	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
15	**Potential for Ground Dissolution Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
16	**Potential for Ground Dissolution Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	415000 127247
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	415061 127247

Historical Map List

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	SU1426	1973
Ordnance Survey Plan	SU1427	1973
Ordnance Survey Plan	SU1526	1973
Ordnance Survey Plan	SU1527	1973

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Hampshire & Isle Of Wight	046_00	1873
Wiltshire	066_00	1887
Wiltshire	071_00	1888
Wiltshire	071_NE	1901
Wiltshire	066_SE	1902
Wiltshire	066_SE	1926
Wiltshire	071_NE	1927
Wiltshire	066_SE	1938
Ordnance Survey Plan	SU12NE	1962
Ordnance Survey Plan	SU12NW	1962
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	SU12NW	1977
Ordnance Survey Plan	SU12NE	1985

Data Currency

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2025	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	
Man Made Mining Cavities Stantec UK Ltd	December 2023	Bi-Annually
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities Stantec UK Ltd	December 2023	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	**Version**	**Update Cycle**
Subterranean Features Landmark Information Group Limited	July 2023	Bi-Annually
Ground Stability Data (1:50,000)	**Version**	**Update Cycle**
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	 As notified
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
Brine Subsidence Solution Area Johnson Poole & Bloomer	December 2020	

Data Suppliers

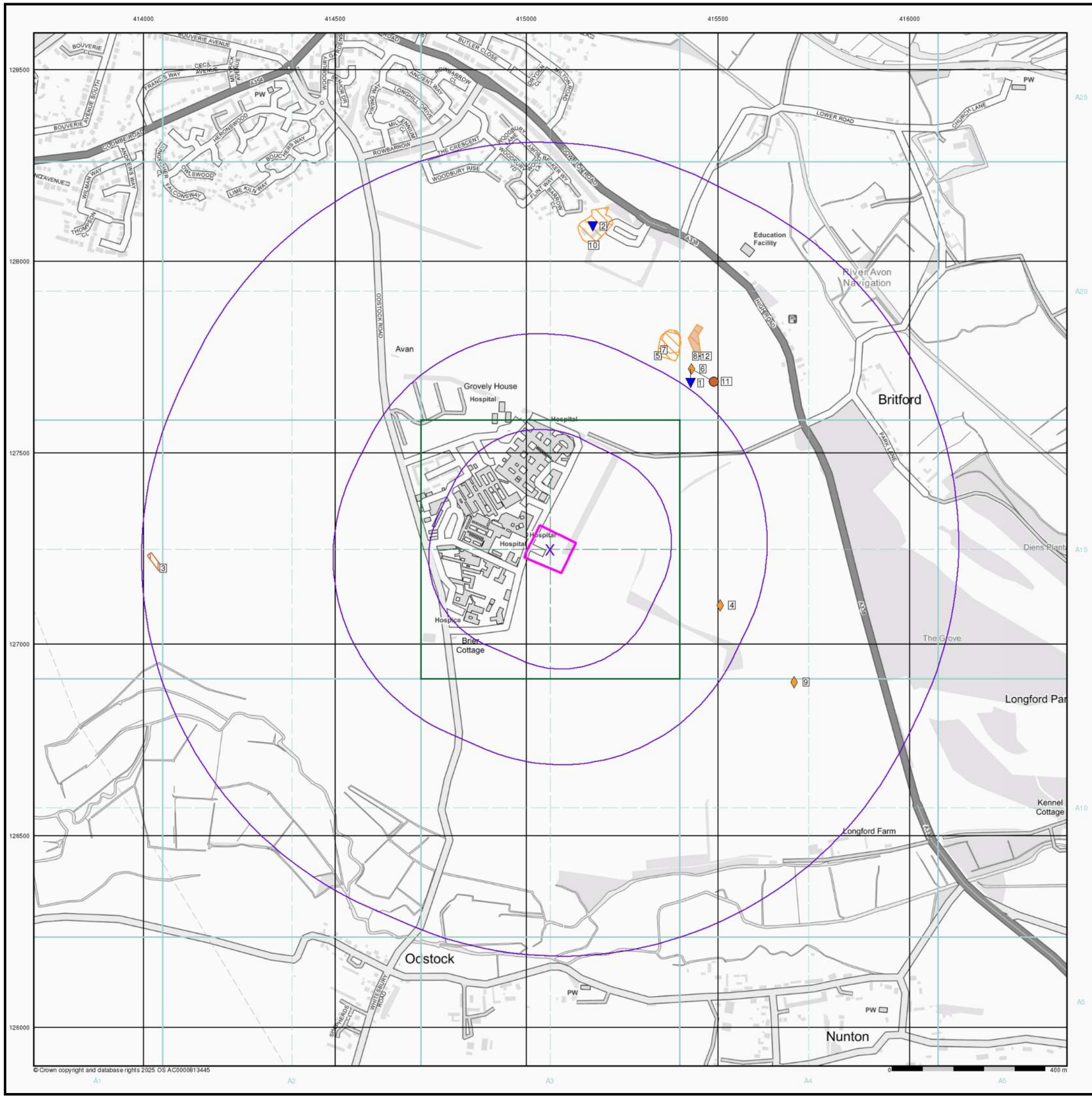
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	The Coal Authority
Ove Arup	ARUP
Stantec UK Ltd	Stantec
Wardell Armstrong	wardell armstrong your earth our world
Johnson Poole & Bloomer	JPB

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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
-	**Landmark Information Group Limited** Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk



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Historical Land Use Information (1:10,000)

General

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

Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◆	─	▨
Disturbed Ground	◆	─	▨
General Quarrying	◆	─	▨
Heap, unknown constituents	◆	─	▨
Mineral Railway	◆	─	▨
Mining and Quarrying General	◆	─	▨
Mining of Coal & Lignite	◆	─	▨
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆	─	▨

Historical Land Use

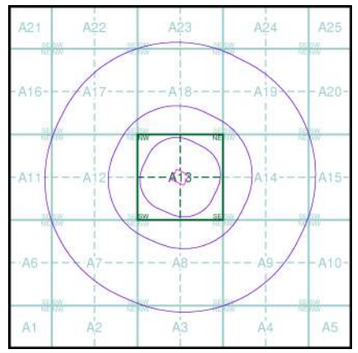
	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●	- - -	▨
Potentially Infilled Land (Water)	●	- - -	▨
Former Marsh	✠		

Mining Data

Potential Mining Area

BGS Recorded Mineral Site

Mining and Ground Stability - Slice A



Order Details

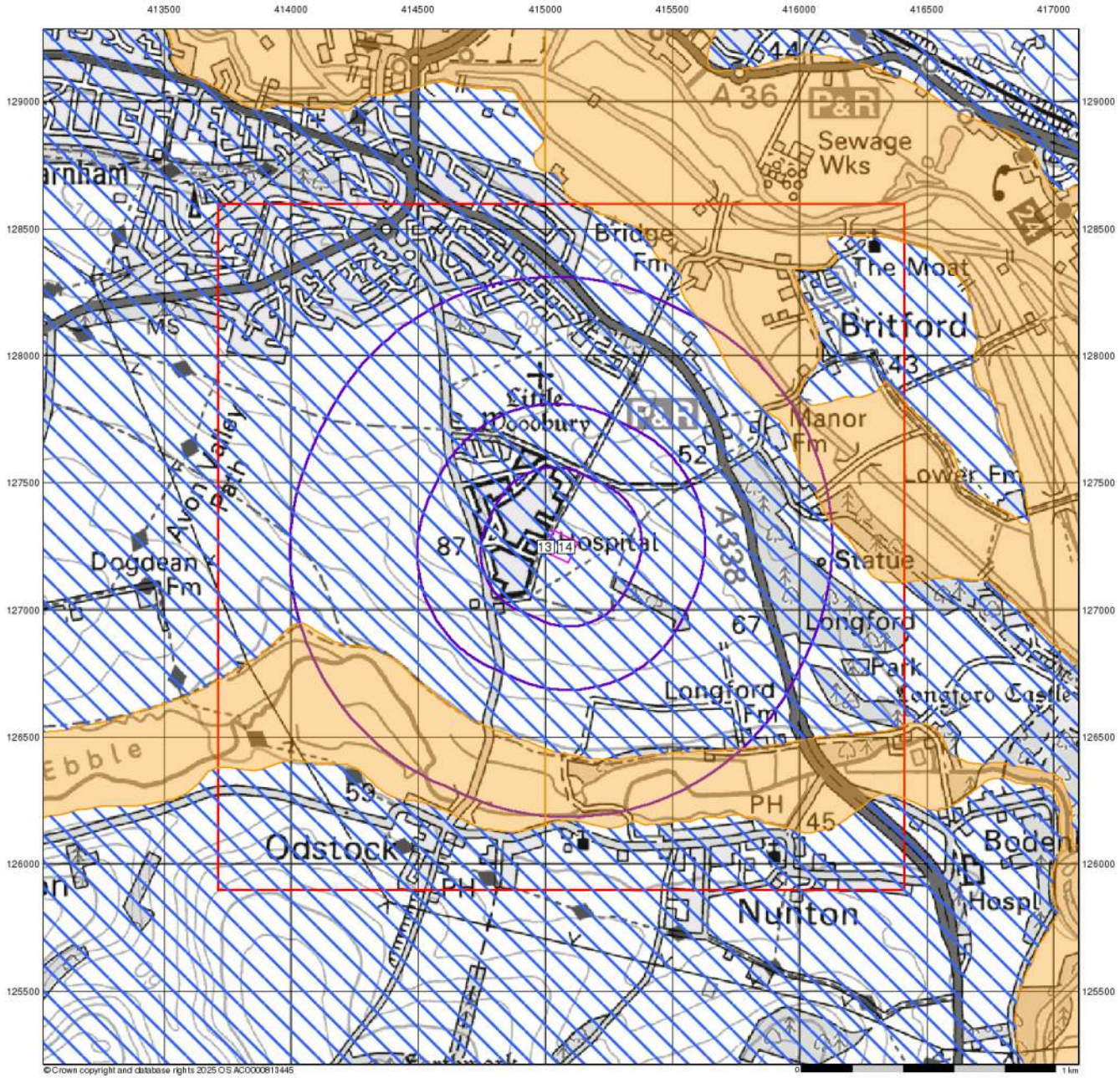
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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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Ground Stability Data (1:50,000)

General

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

Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

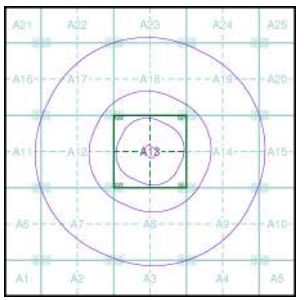
Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature	▲	▨
Salt Mining Related Feature	▲	▨

Mining and Ground Stability - Slice A



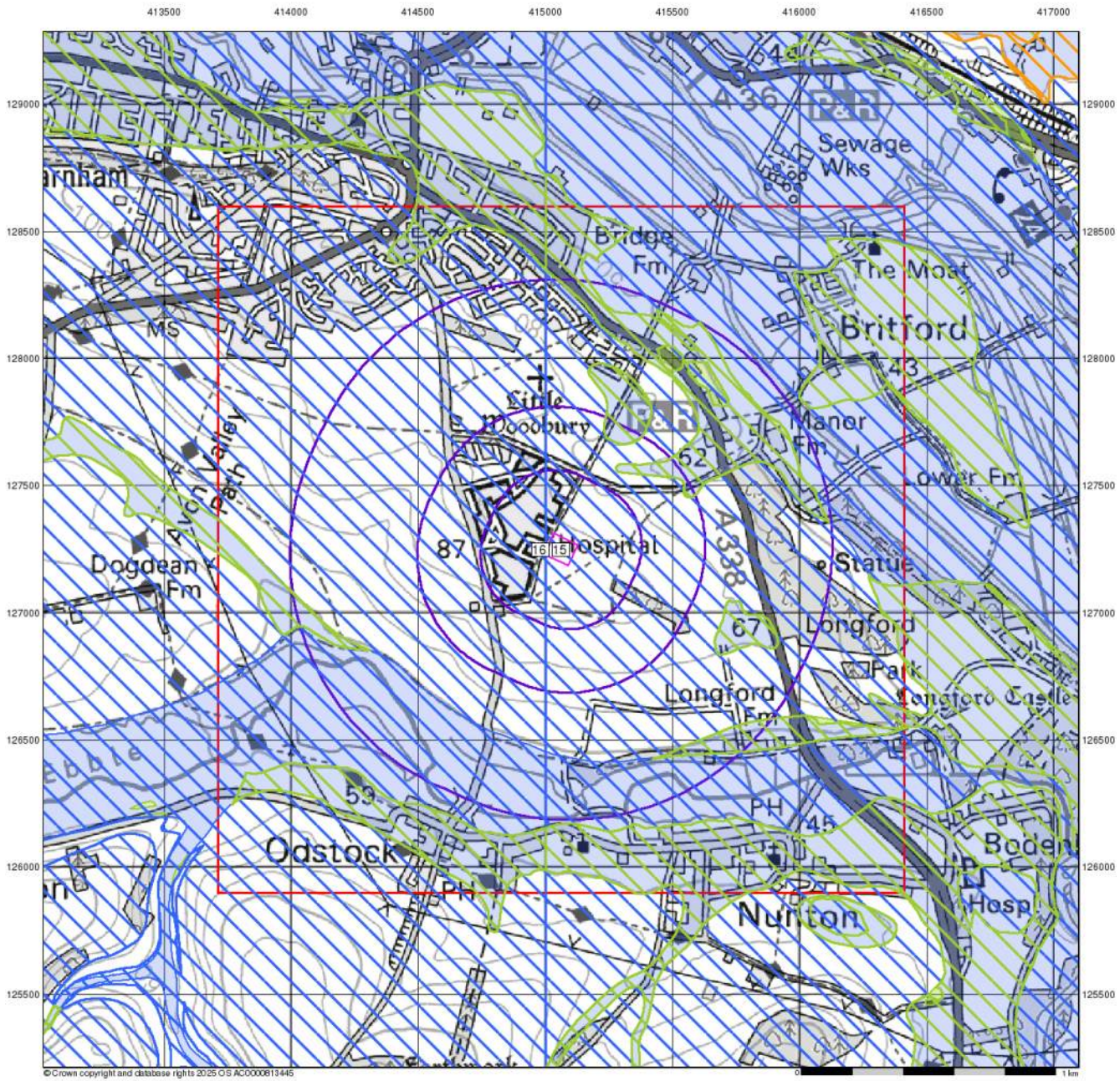
Order Details

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Ground Stability Data (1:50,000)

General

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

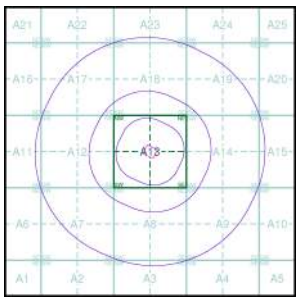
Potential for Landslide Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Ground Dissolution Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice A



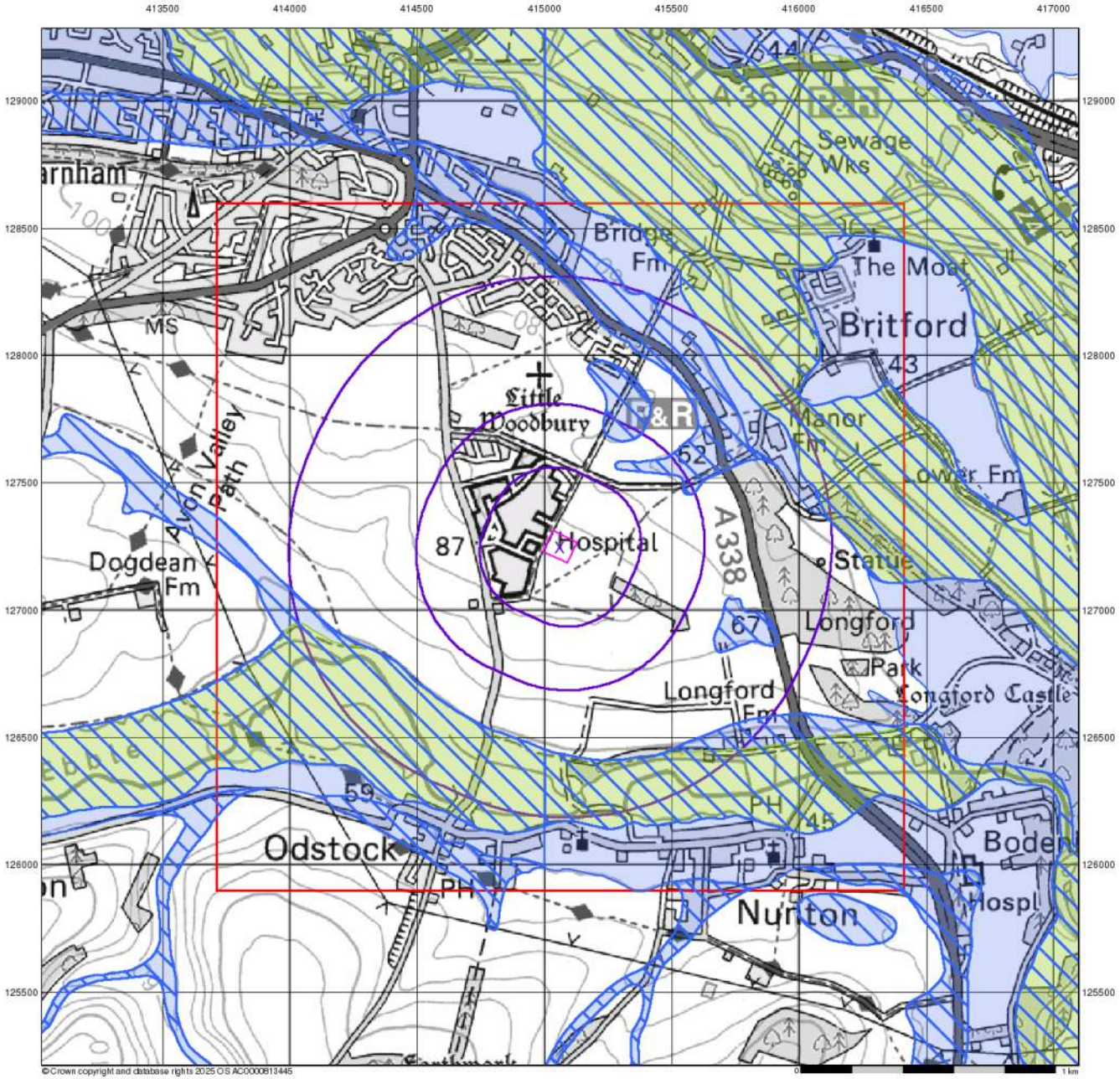
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Ground Stability Data (1:50,000)

General

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

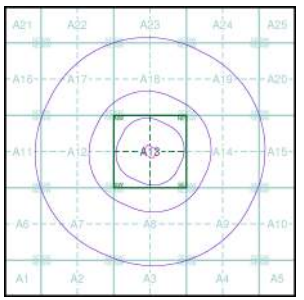
Potential for Running Sand Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice A



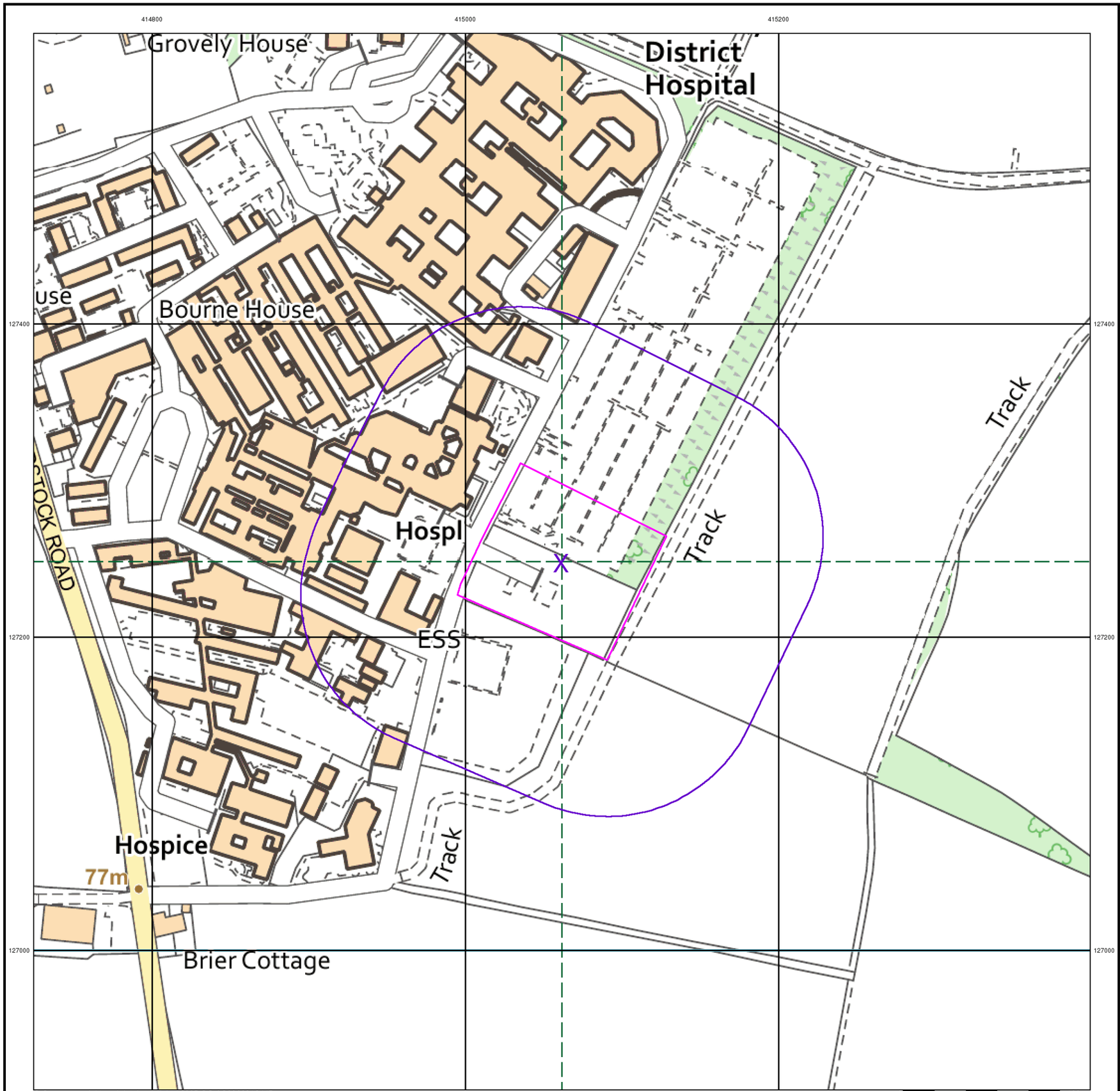
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Historical Land Use Information (1:2,500)

General

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

Several of Type at Location

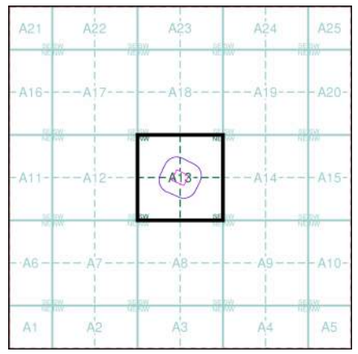
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▤
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment A13



Order Details

Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Plot Buffer (m):	100

Site Details

Site at 415062,127248

Landmark INFORMATION GROUP

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Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Sand and Gravel	Not Supplied - Holocene
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	RTD4	River Terrace Deposits, 4	Sand and Gravel	Not Supplied - Quaternary
	T8T9	River Terrace Deposits, 8 to 9	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CUCK	Culver Chalk Formation	Chalk	Not Supplied - Campanian
	PCK	Portsdown Chalk Formation	Chalk	Not Supplied - Campanian
	NCK	Newhaven Chalk Formation	Chalk	Not Supplied - Santonian
	SECK	Seaford Chalk Formation	Chalk	Not Supplied - Coniacian
	LECH	Lewes Nodular Chalk Formation	Chalk	Not Supplied - Turonian
	NPCH	New Pit Chalk Formation	Chalk	Not Supplied - Turonian
	HCK	Holywell Nodular Chalk Formation	Chalk	Not Supplied - Cenomanian
		Faults		

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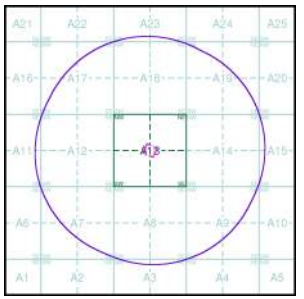
Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	**1**
Map Sheet No:	**298**
Map Name:	**Salisbury**
Map Date:	**2005**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Available**
Faults:	**Not Supplied**
Landslip:	**Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A



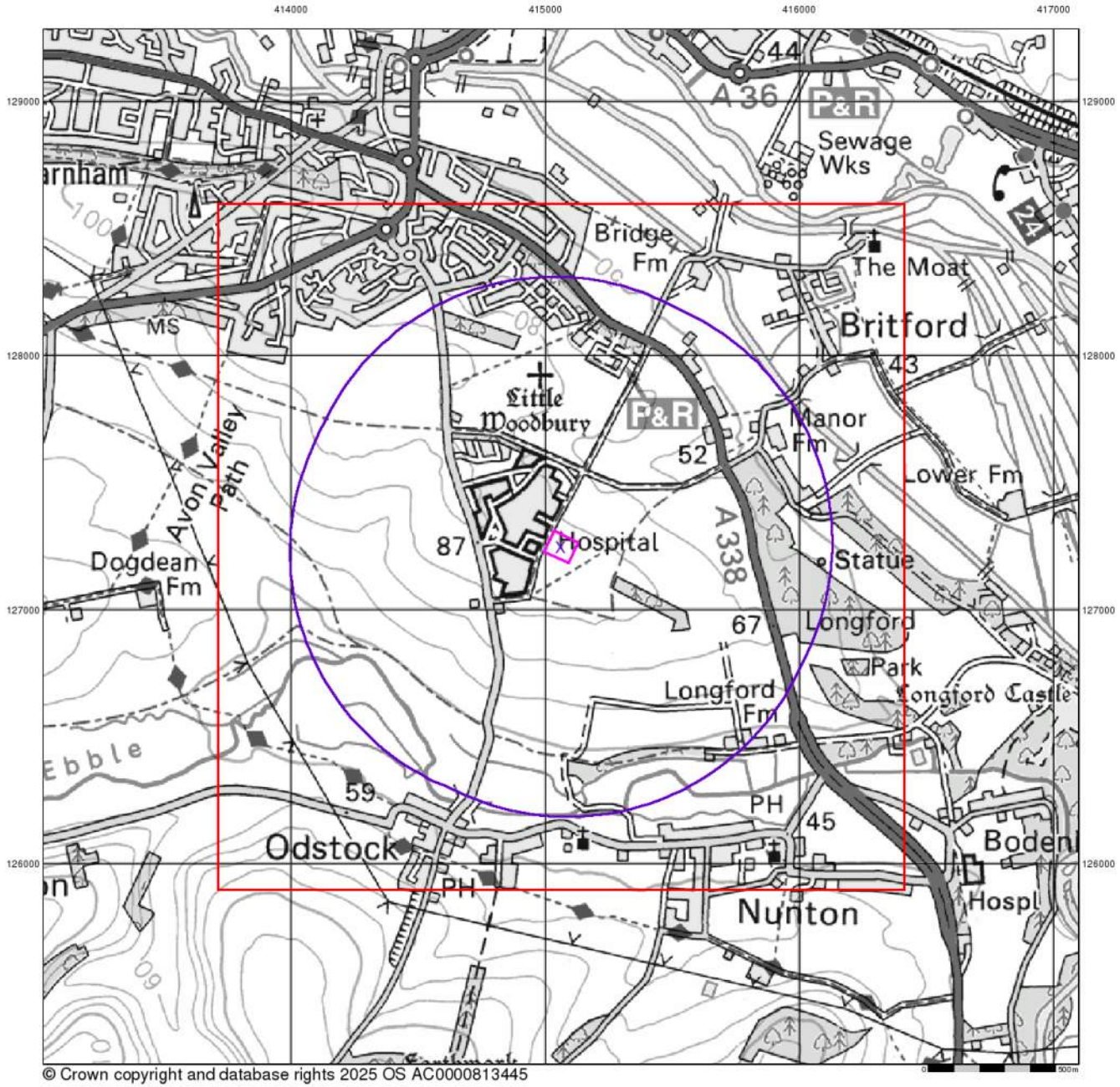


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Site Details:

Site at 415062,127248



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Artificial Ground and Landslip

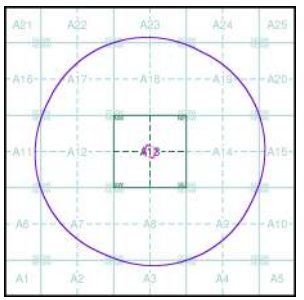
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



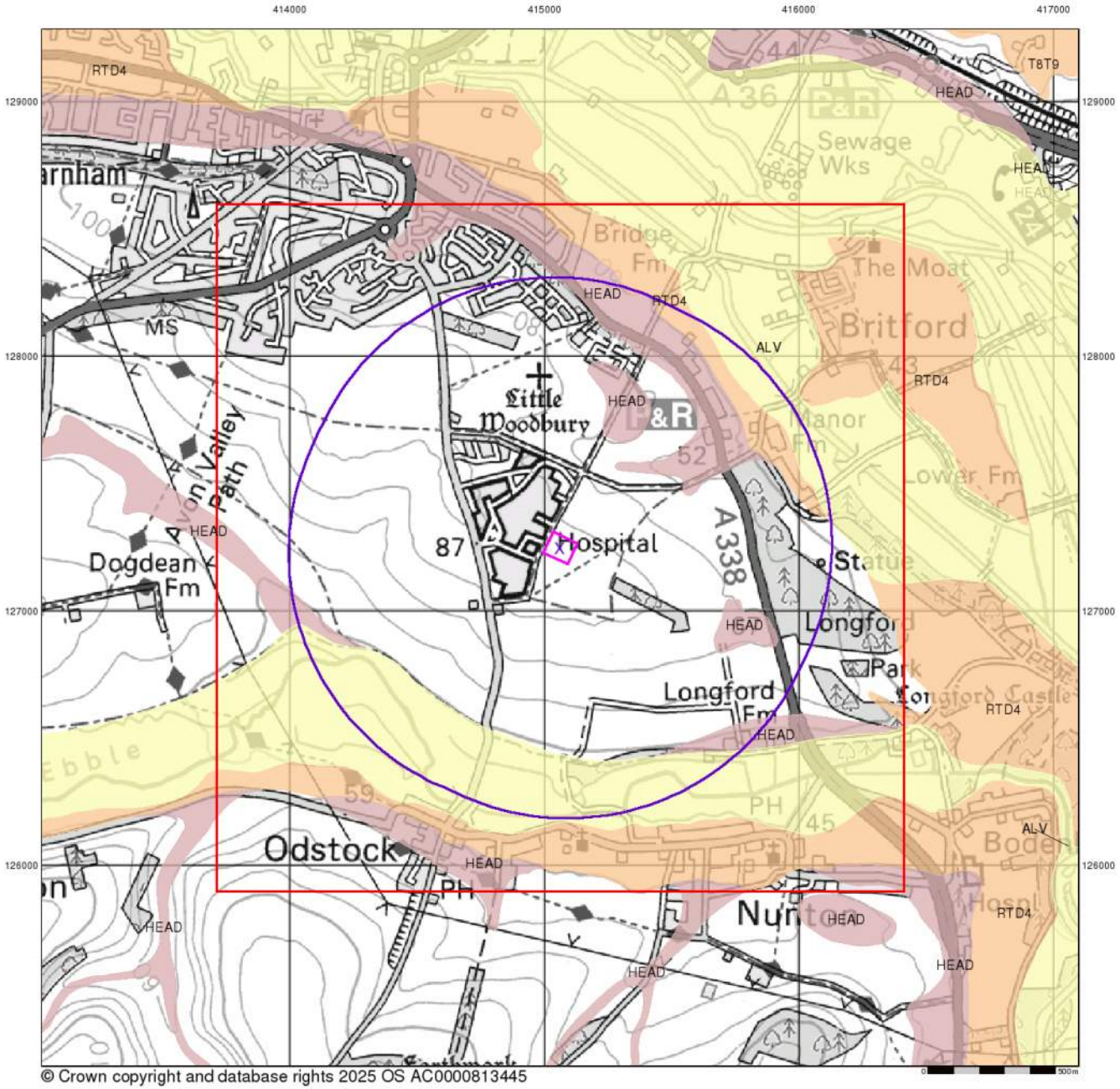
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National Grid Reference:	415060, 127250
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Site Area (Ha):	0.95
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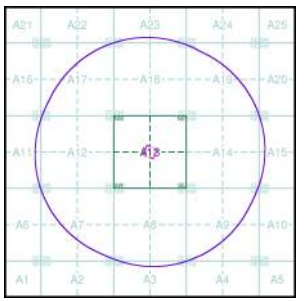
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



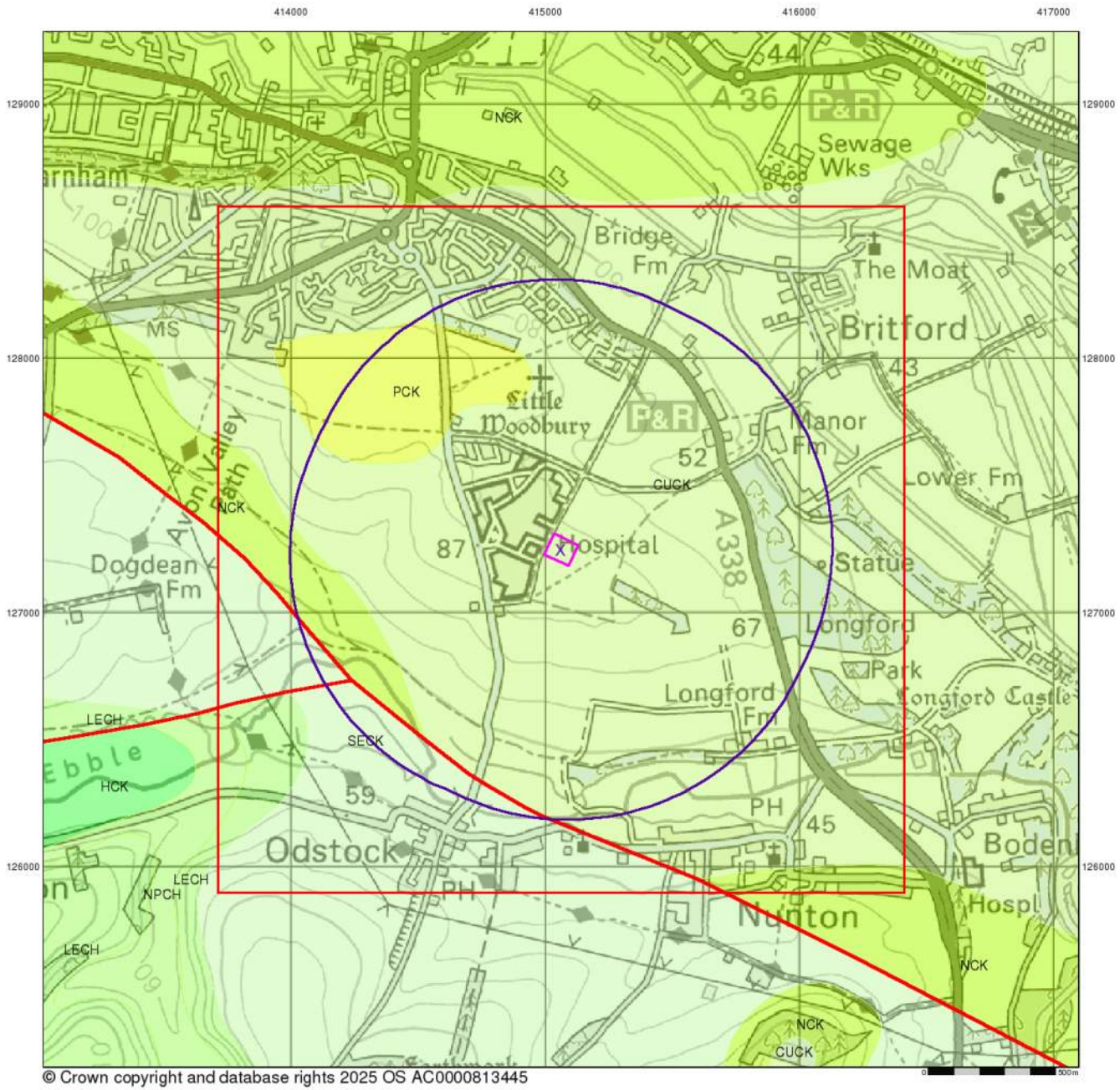
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Site Area (Ha):	0.95
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Bedrock and Faults

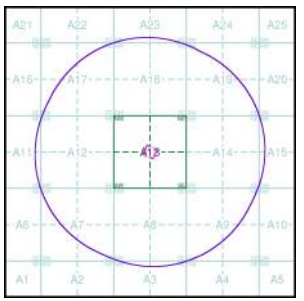
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A

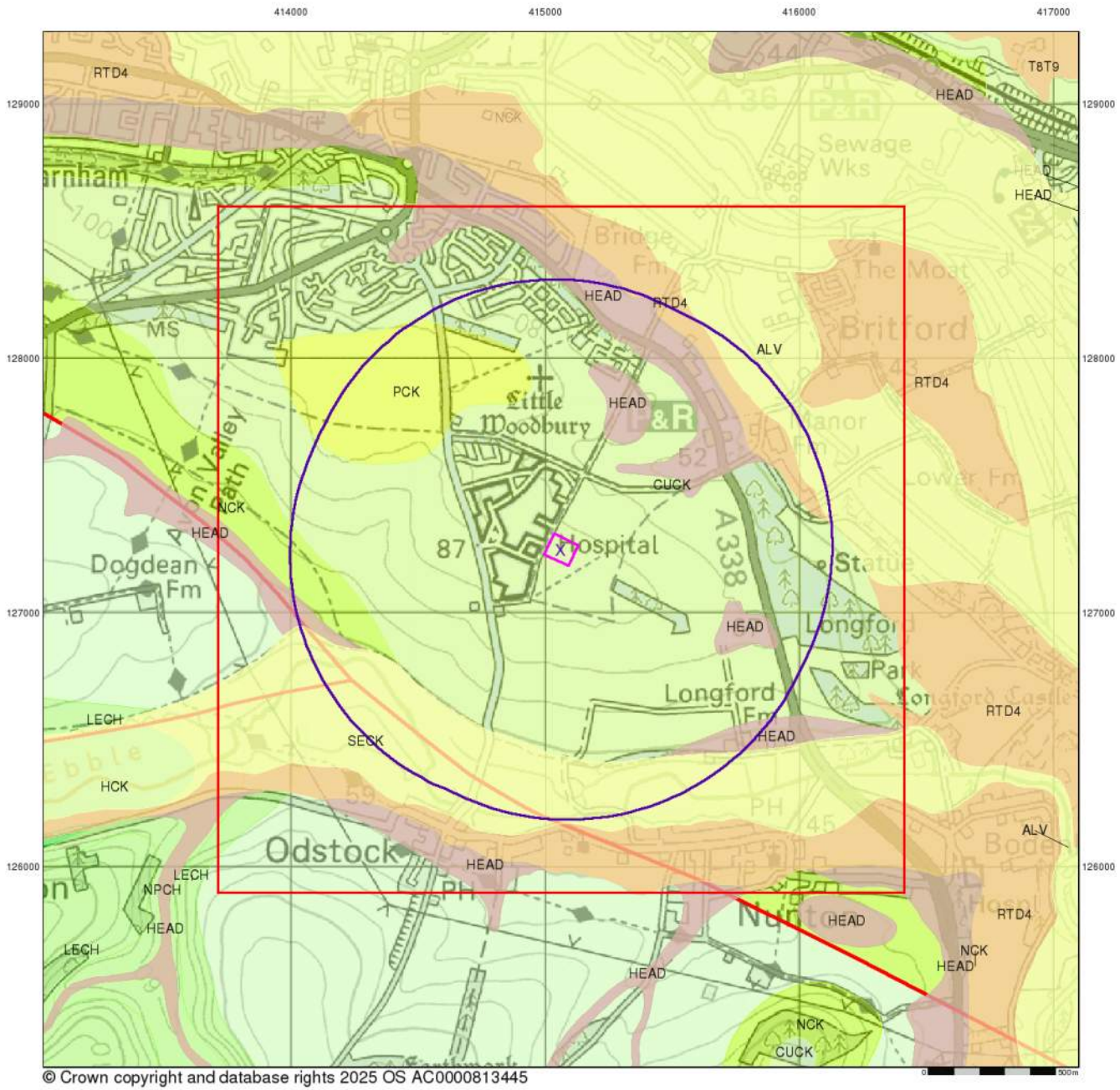


Order Details:

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Customer Reference:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
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Site at 415062,127248



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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

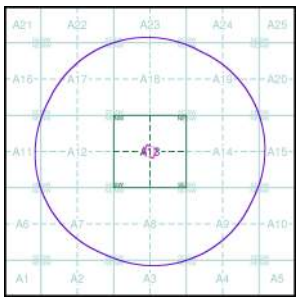
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number:	377078935_1_1
Customer Reference:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details:

Site at 415062,127248

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

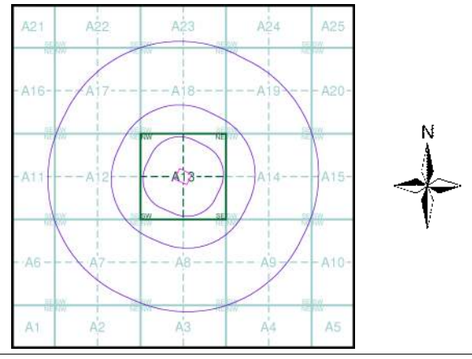
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or 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
Hampshire & Isle Of Wight	1:10,560	1873	2
Wiltshire	1:10,560	1886 - 1887	3
Wiltshire	1:10,560	1888	4
Wiltshire	1:10,560	1901 - 1902	5
Wiltshire	1:10,560	1926 - 1927	6
Wiltshire	1:10,560	1938	7
Ordnance Survey Plan	1:10,000	1962	8
Ordnance Survey Plan	1:10,000	1966	9
Ordnance Survey Plan	1:10,000	1973 - 1975	10
Ordnance Survey Plan	1:10,000	1977	11
Ordnance Survey Plan	1:10,000	1985	12
10K Raster Mapping	1:10,000	2000	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2024	15

Historical Map - Slice A



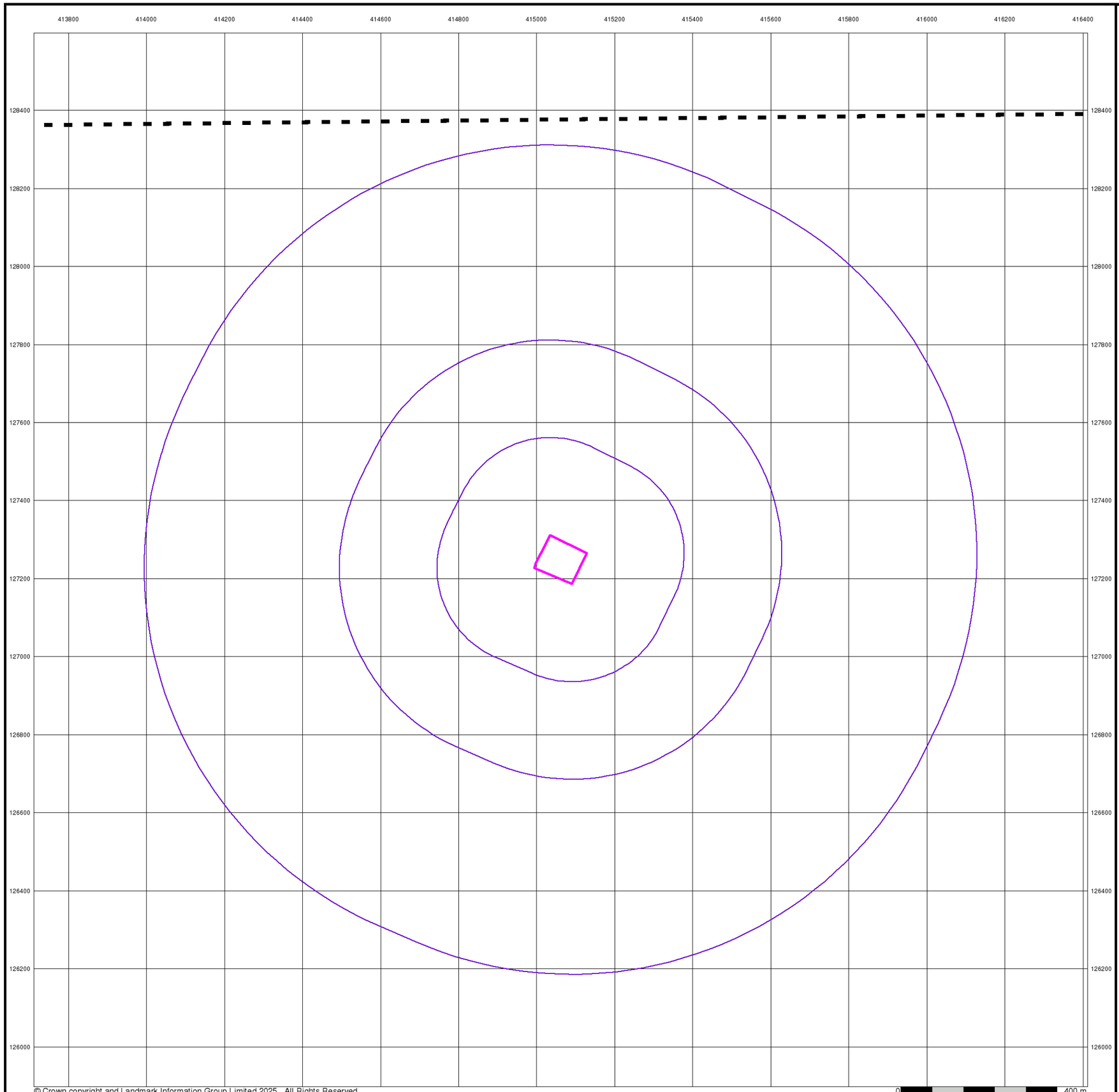
Order Details

Order Number: 377078935_1_1
Customer Ref: 100123741 CS02
National Grid Reference: 415060, 127250
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details

Site at 415062,127248

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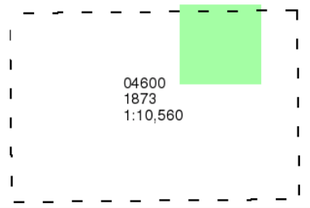
Hampshire & Isle Of Wight

Published 1873

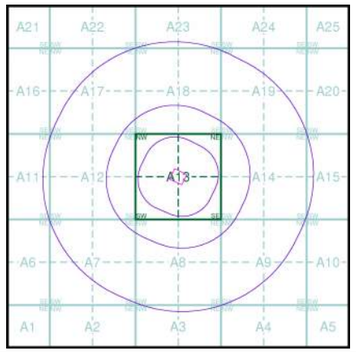
Source map scale - 1:10,560

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

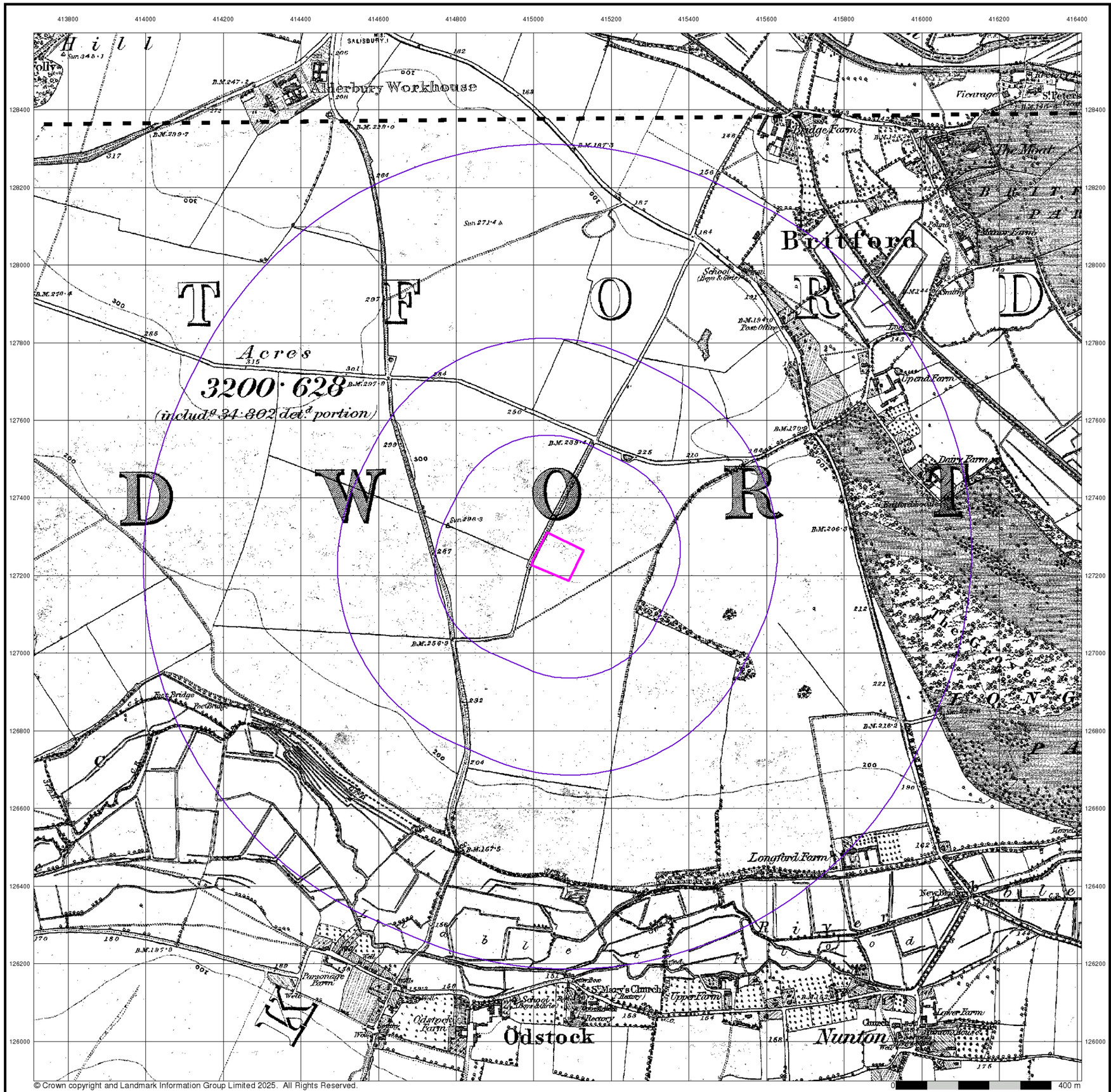
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Wiltshire

Published 1886 - 1887

Source map scale - 1:10,560

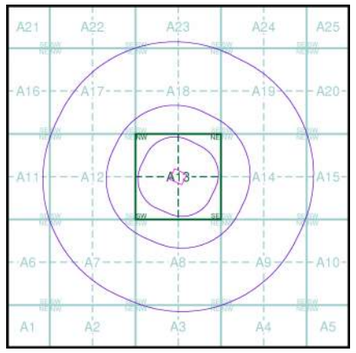
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Map Name(s) and Date(s)

06600
1887
1:10,560

07100
1886
1:10,560

Historical Map - Slice A



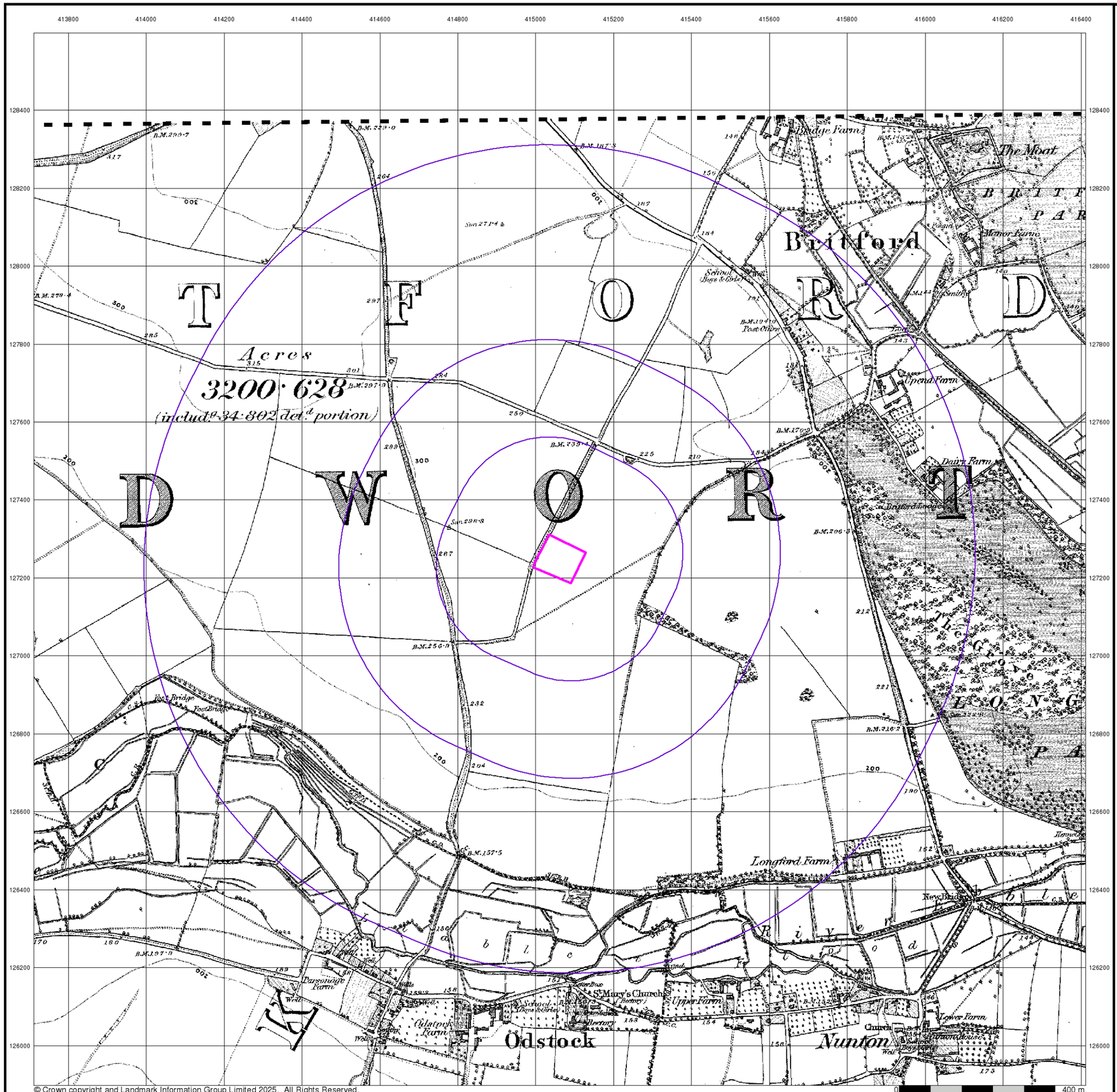
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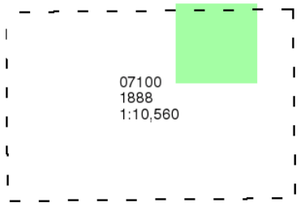
Wiltshire

Published 1888

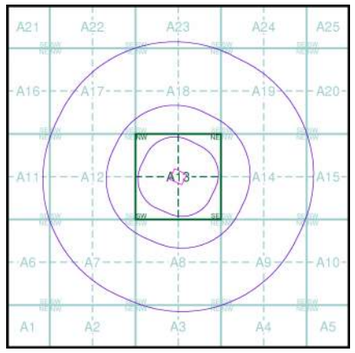
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



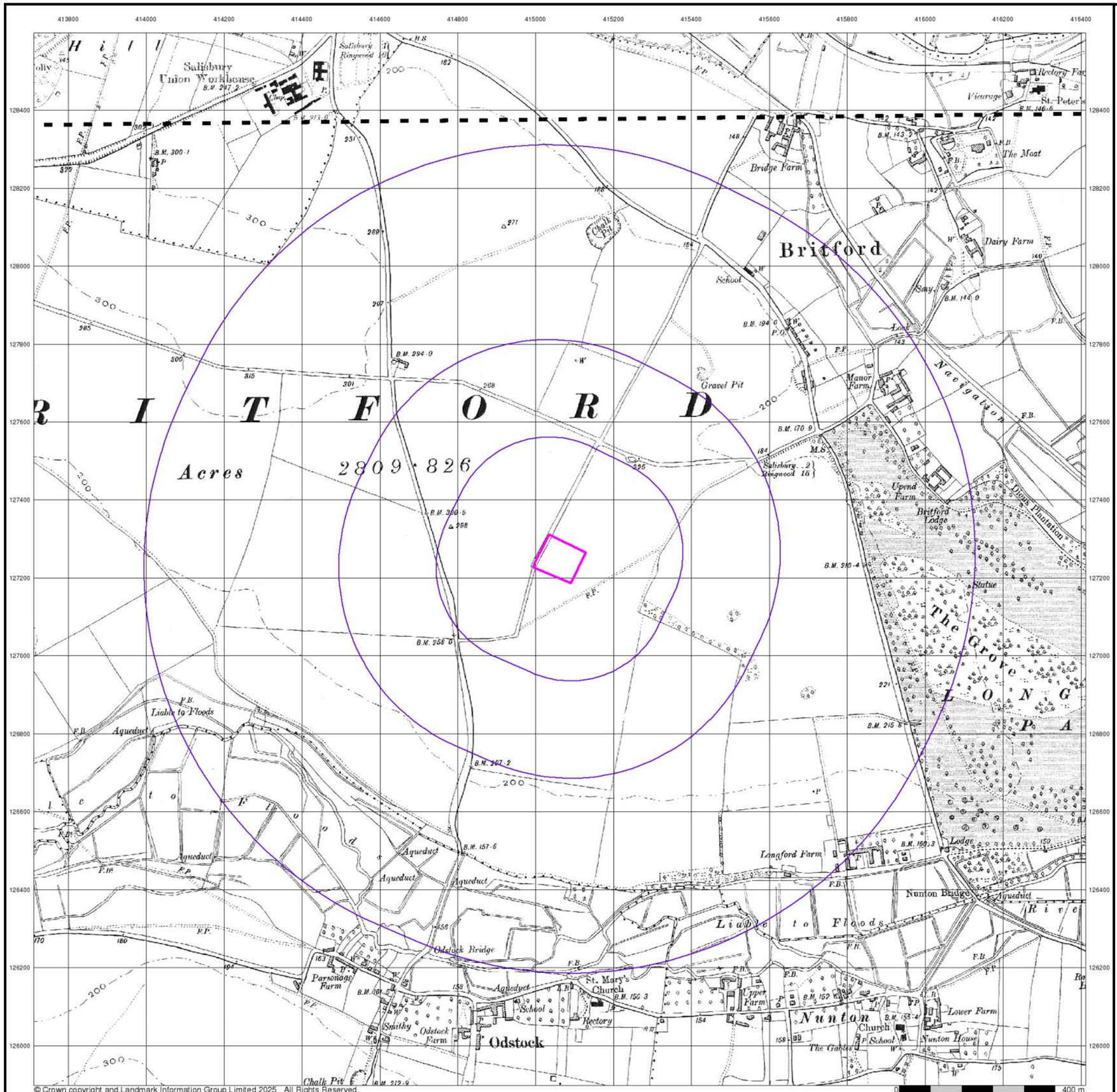
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Wiltshire

Published 1901 - 1902

Source map scale - 1:10,560

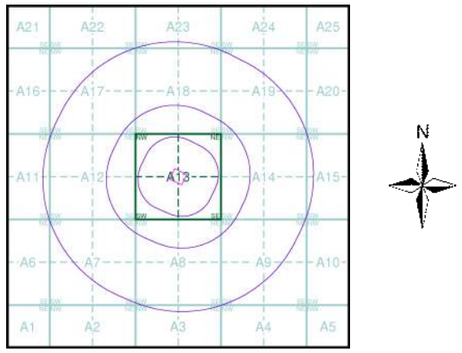
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Map Name(s) and Date(s)

066SE
1902
1:10,560

071NE
1901
1:10,560

Historical Map - Slice A



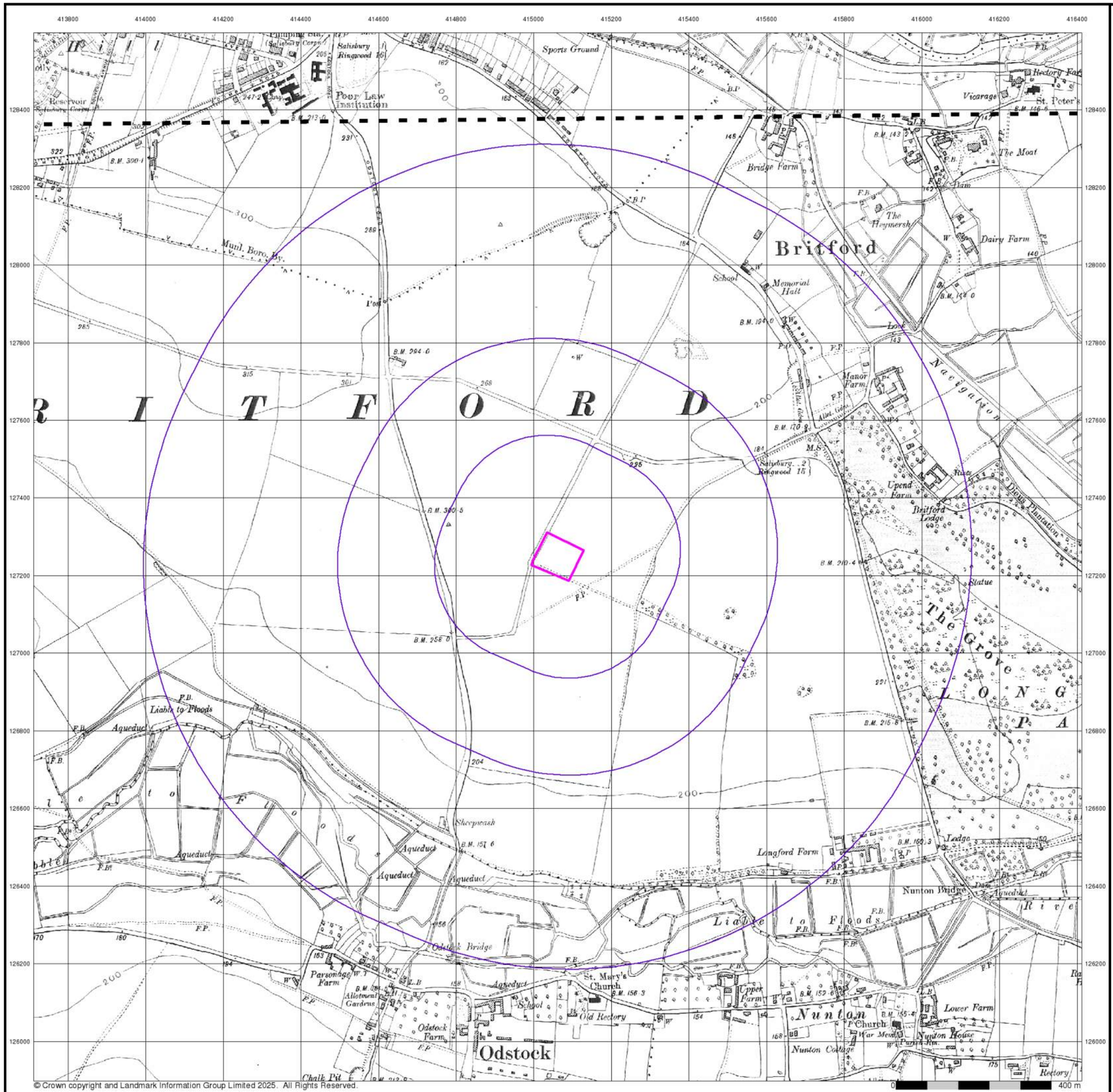
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Search Buffer (m):	1000

Site Details

Site at 415062,127248

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MOTT MACDONALD

Wiltshire

Published 1926 - 1927

Source map scale - 1:10,560

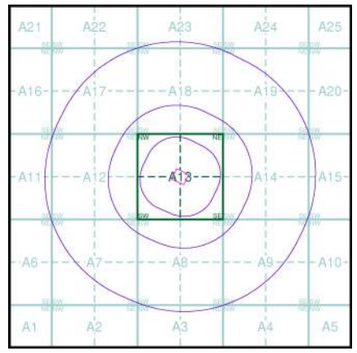
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

066SE
1926
1:10,560

071NE
1927
1:10,560

Historical Map - Slice A



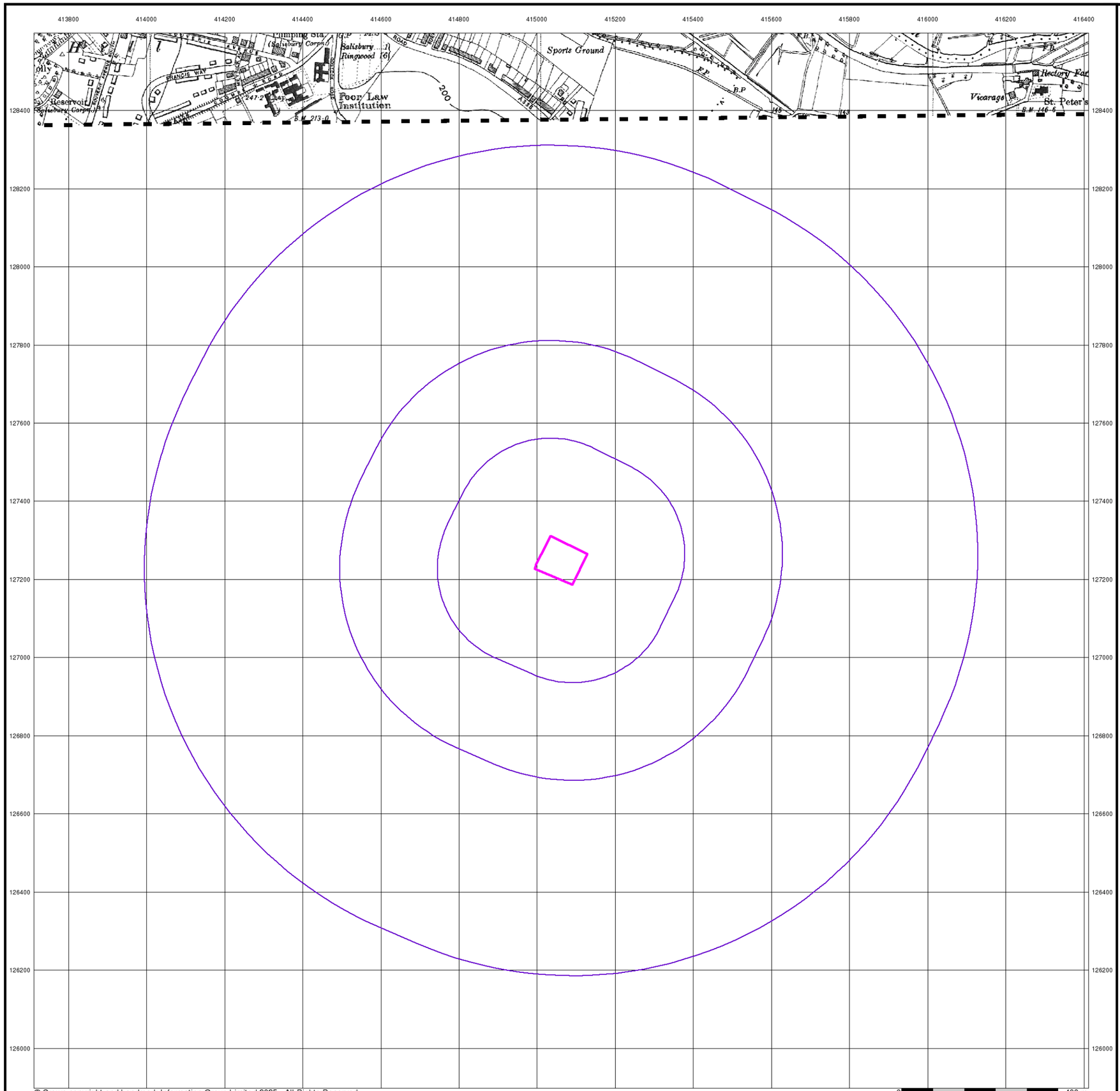
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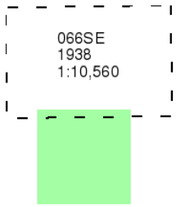
Wiltshire

Published 1938

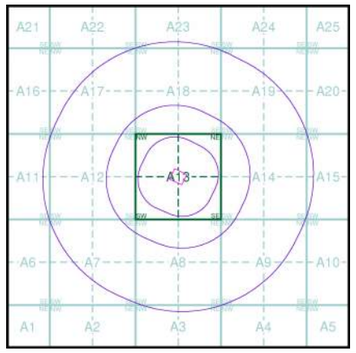
Source map scale - 1:10,560

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



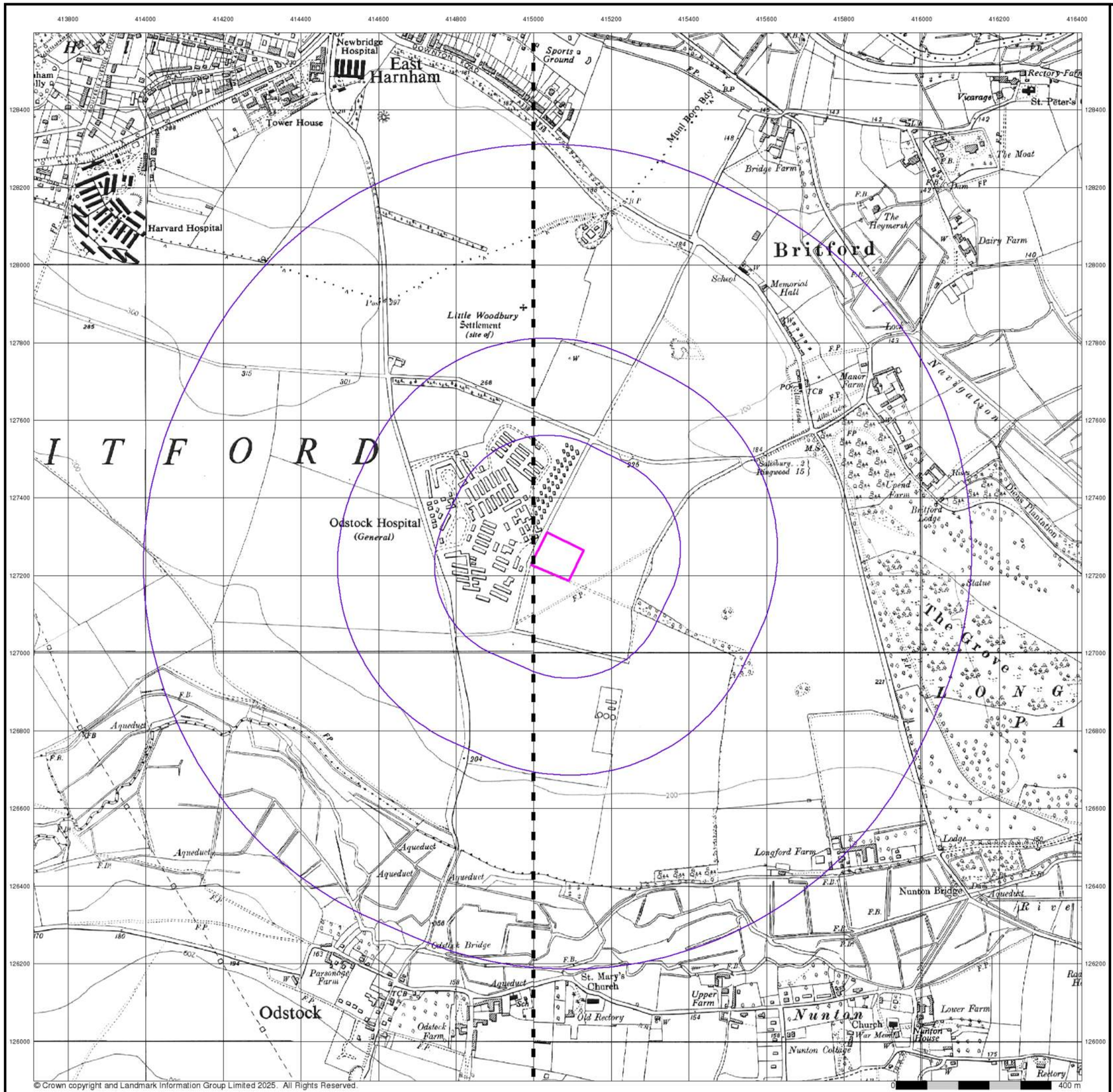
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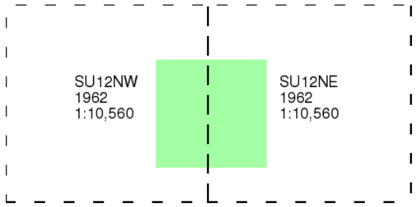
Ordnance Survey Plan

Published 1962

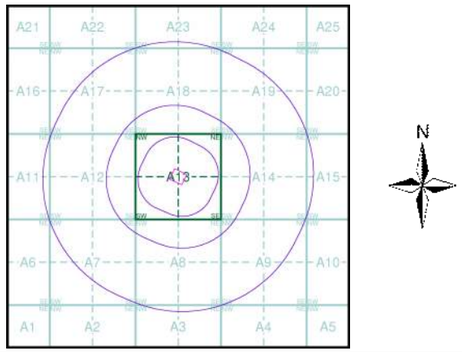
Source map scale - 1:10,000

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



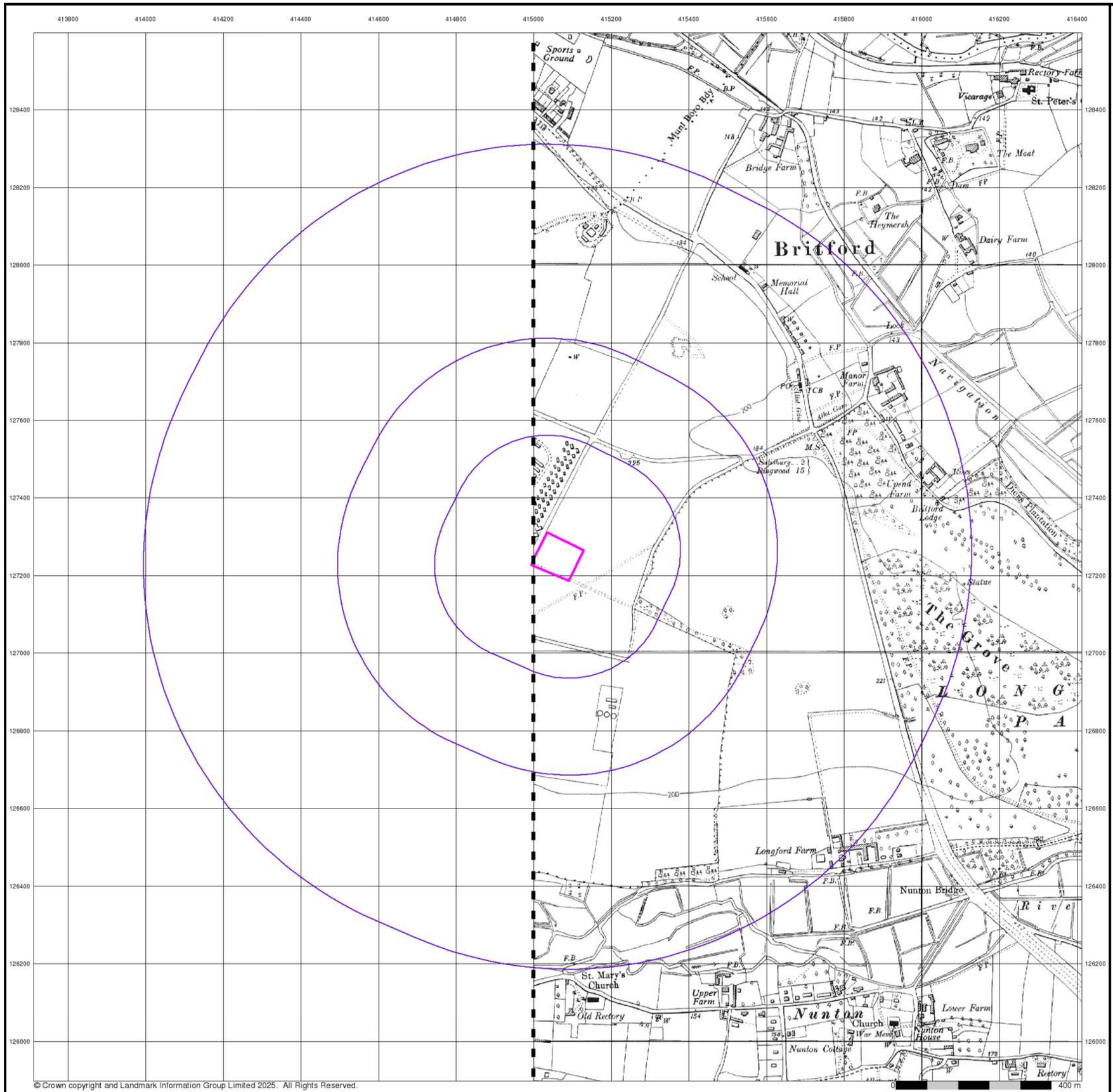
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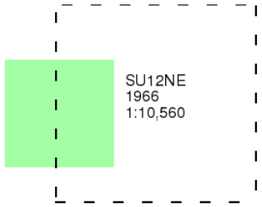
Ordnance Survey Plan

Published 1966

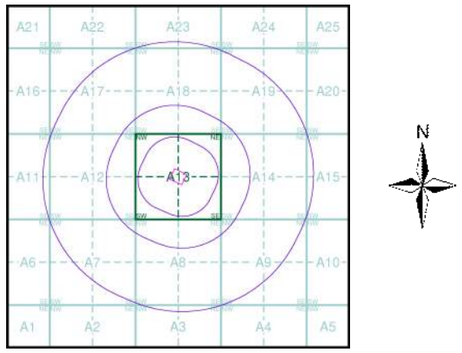
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A

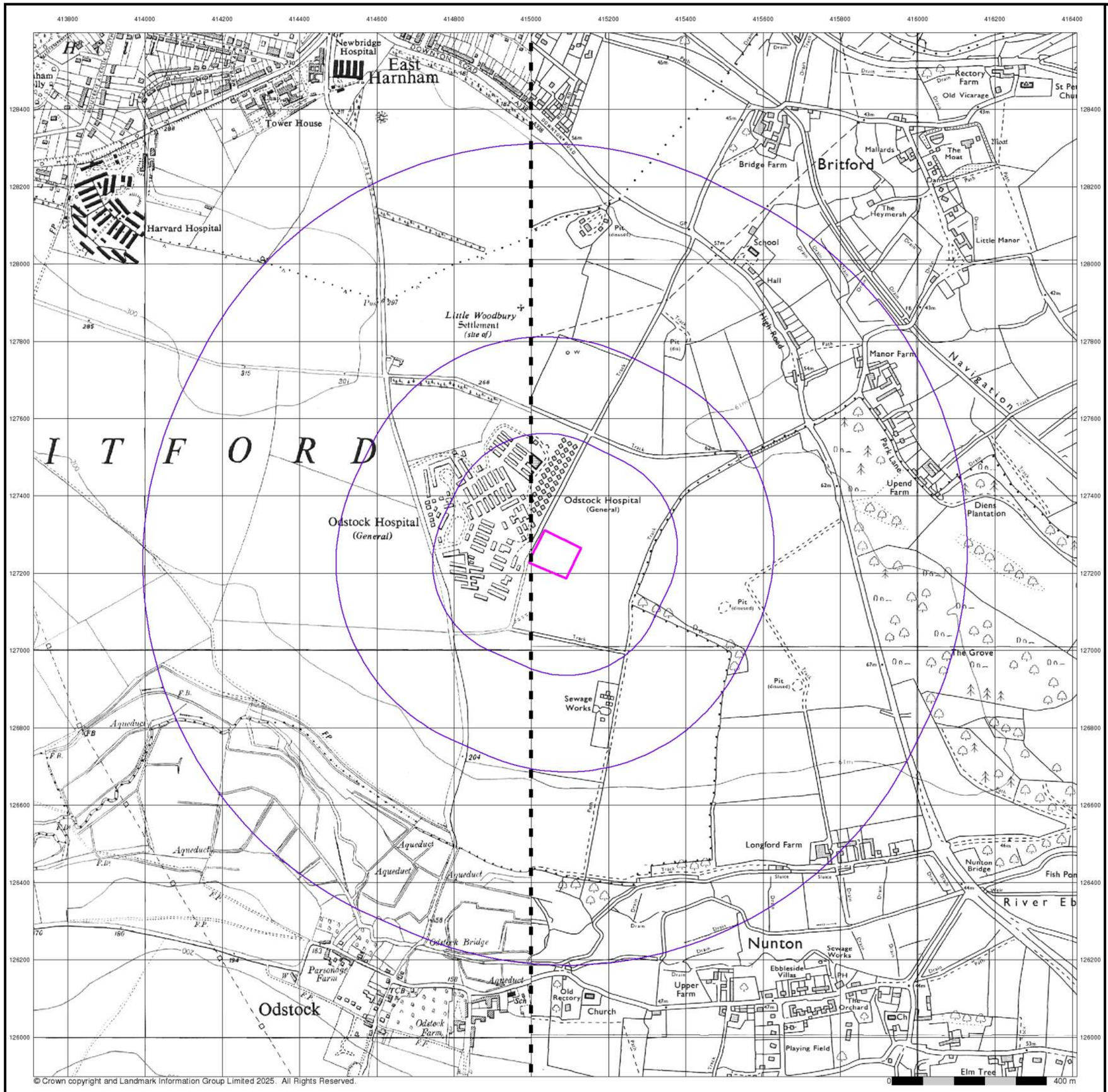


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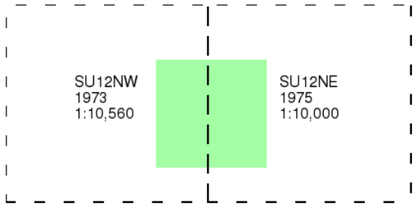
Ordnance Survey Plan

Published 1973 - 1975

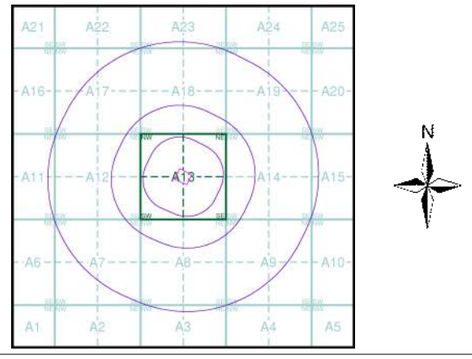
Source map scale - 1:10,000

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



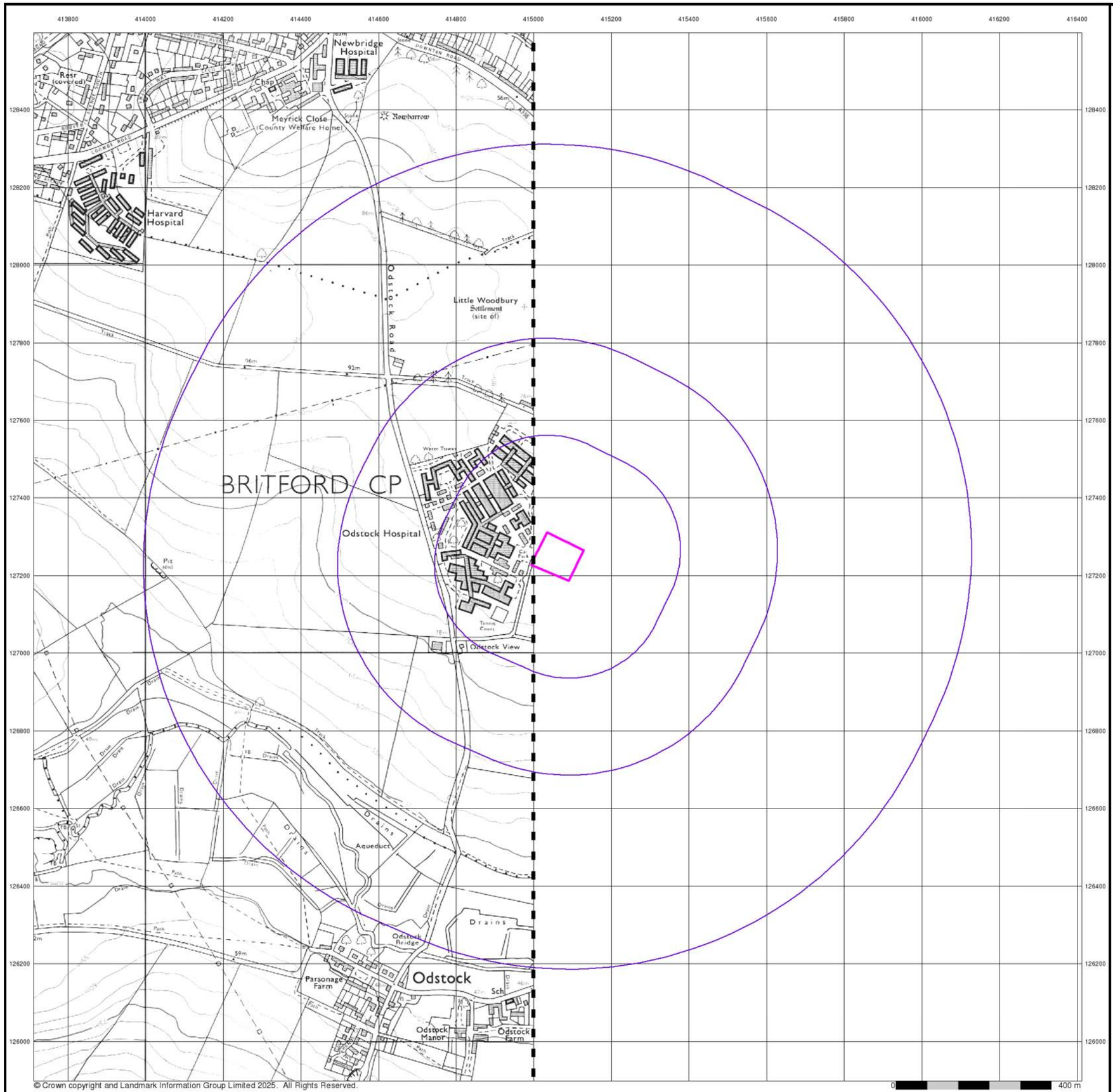
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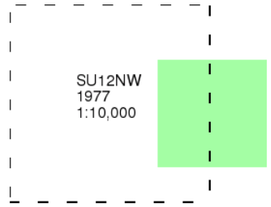
Ordnance Survey Plan

Published 1977

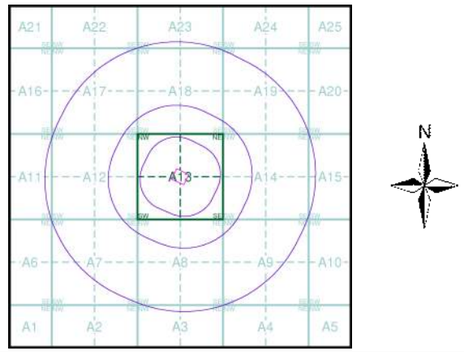
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



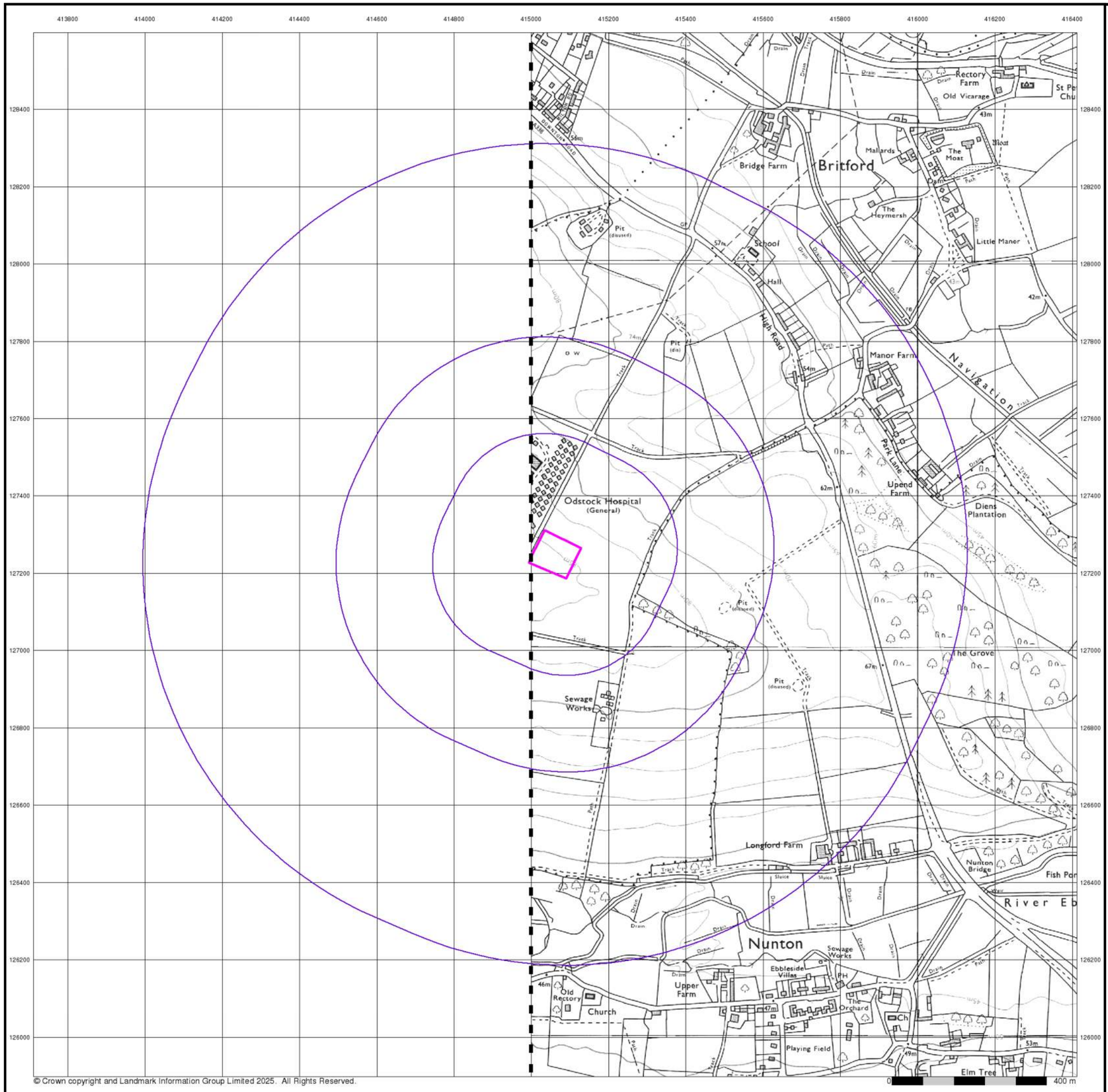
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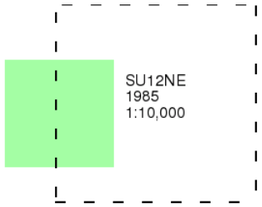
Ordnance Survey Plan

Published 1985

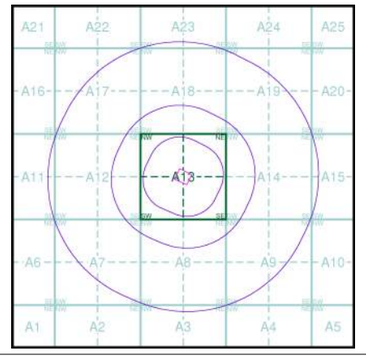
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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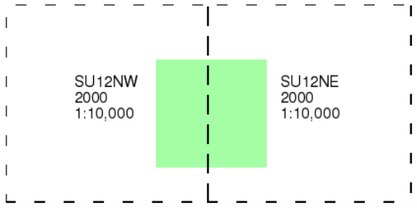
10k Raster Mapping

Published 2000

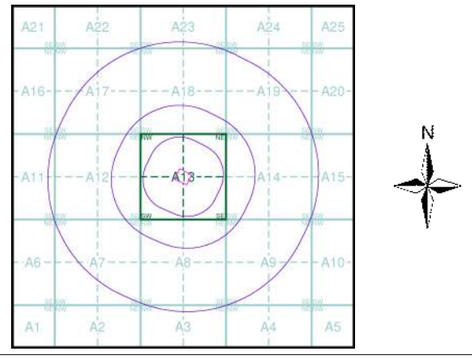
Source map scale - 1:10,000

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:	377078935_1_1
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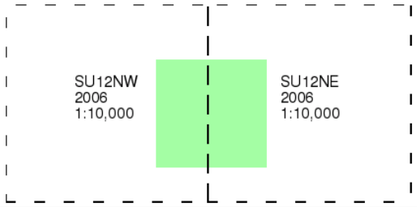
10k Raster Mapping

Published 2006

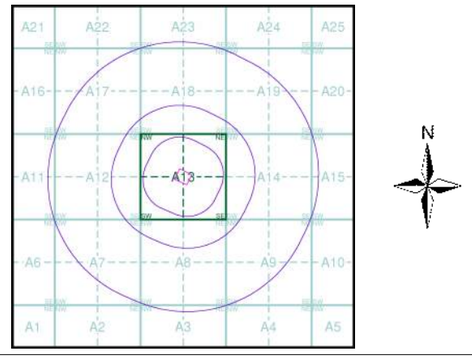
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



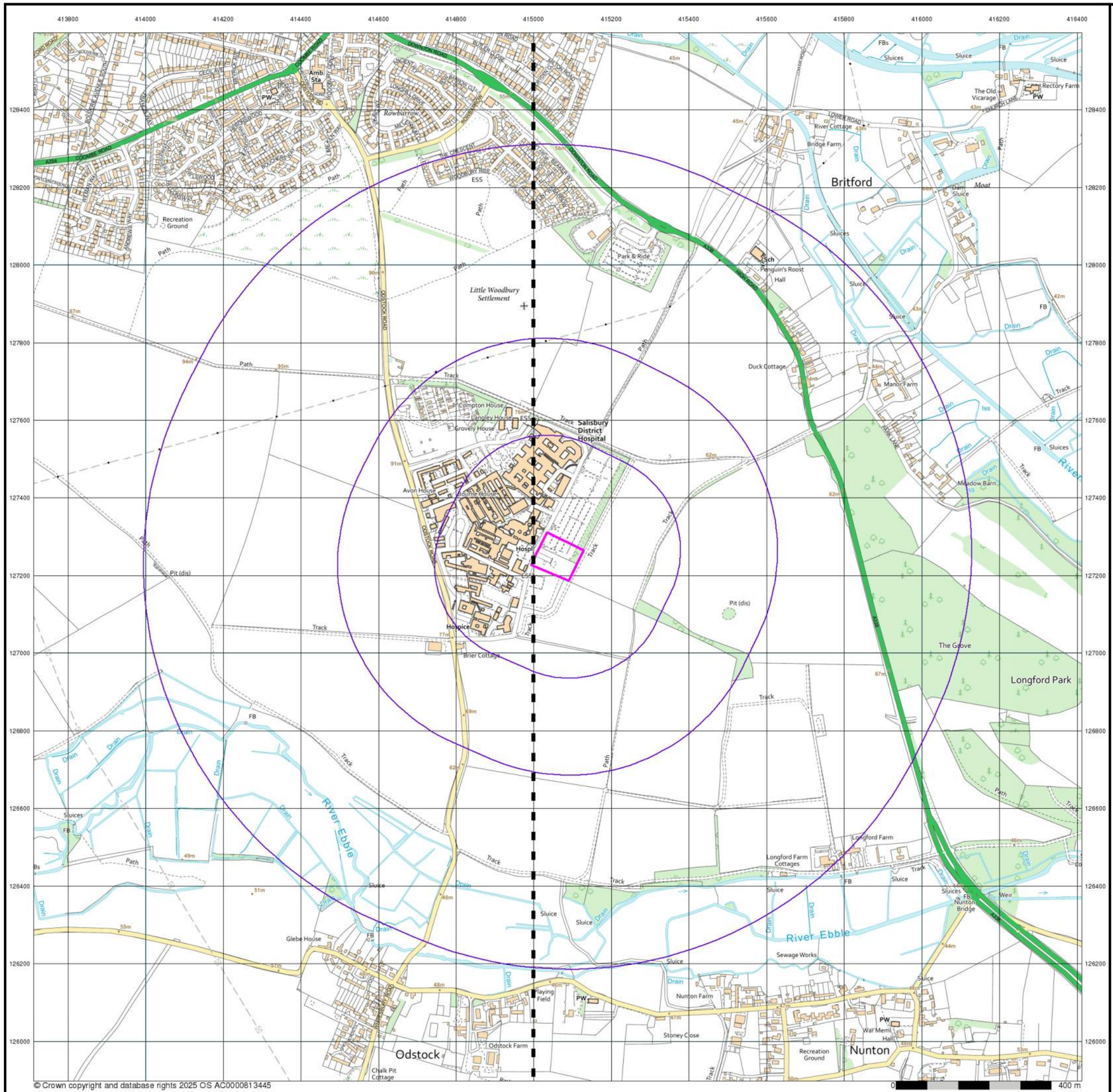
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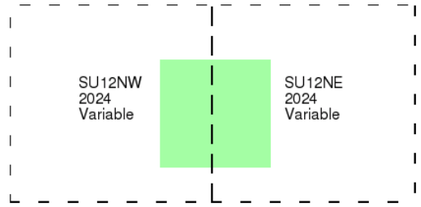
VectorMap Local

Published 2024

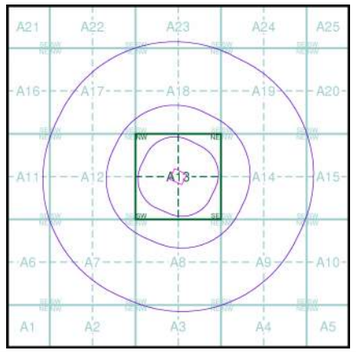
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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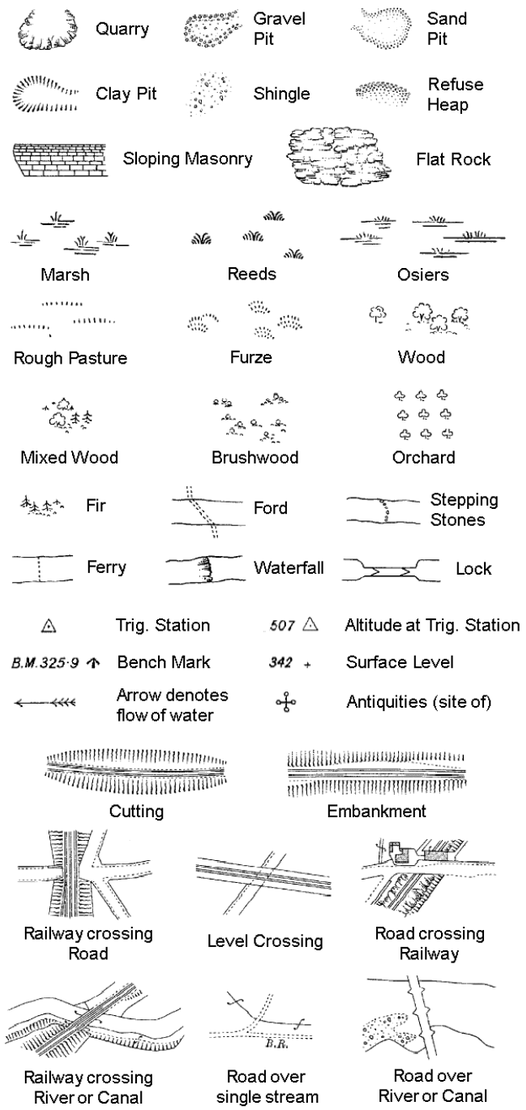
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Historical Mapping Legends

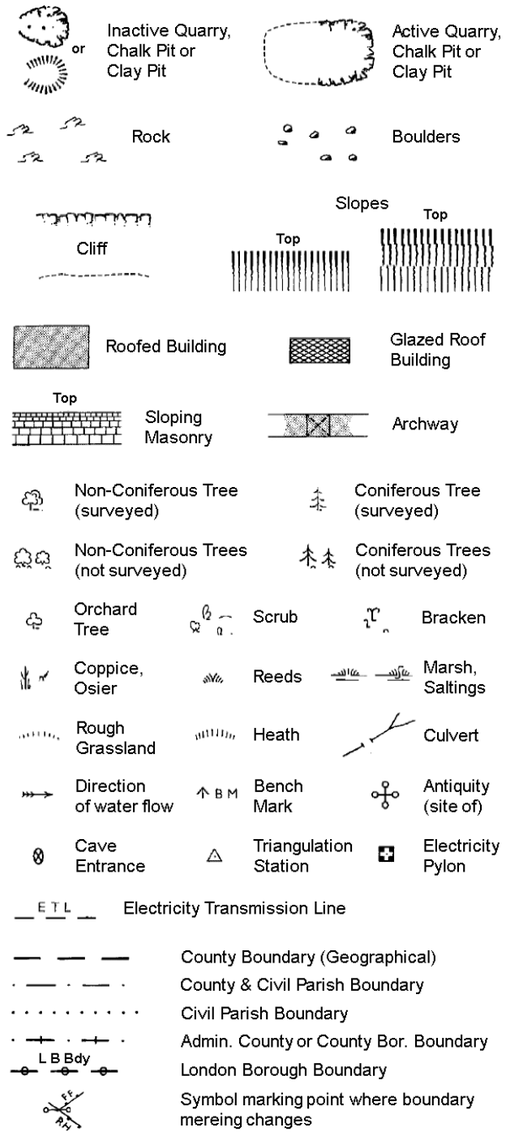
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

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

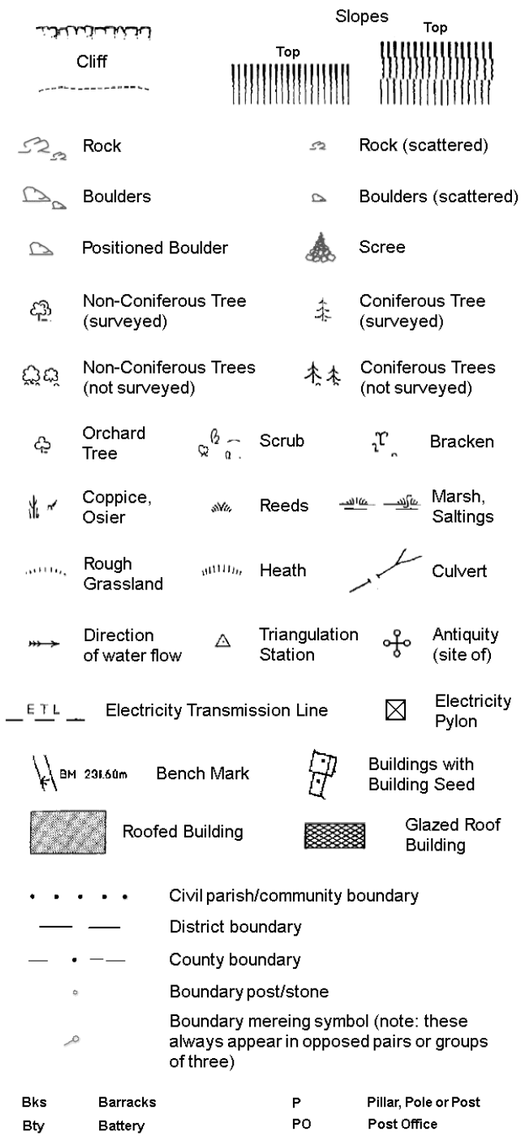
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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

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

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



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

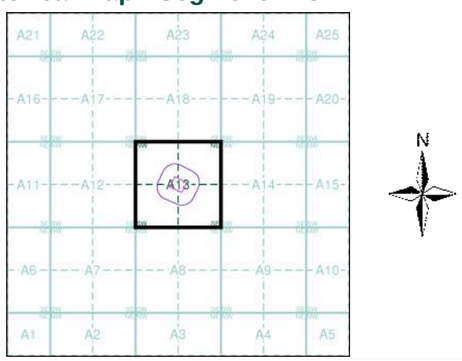
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity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

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Wiltshire	1:2,500	1881	2
Wiltshire	1:2,500	1901	3
Wiltshire	1:2,500	1925	4
Ordnance Survey Plan	1:2,500	1973	5
Supply of Unpublished Survey Information	1:2,500	1976	6
Additional SIMs	1:2,500	1987 - 1992	7
Large-Scale National Grid Data	1:2,500	1993	8
Large-Scale National Grid Data	1:2,500	1993	9
Large-Scale National Grid Data	1:2,500	1996	10
Historical Aerial Photography	1:2,500	2000	11

Historical Map - Segment A13



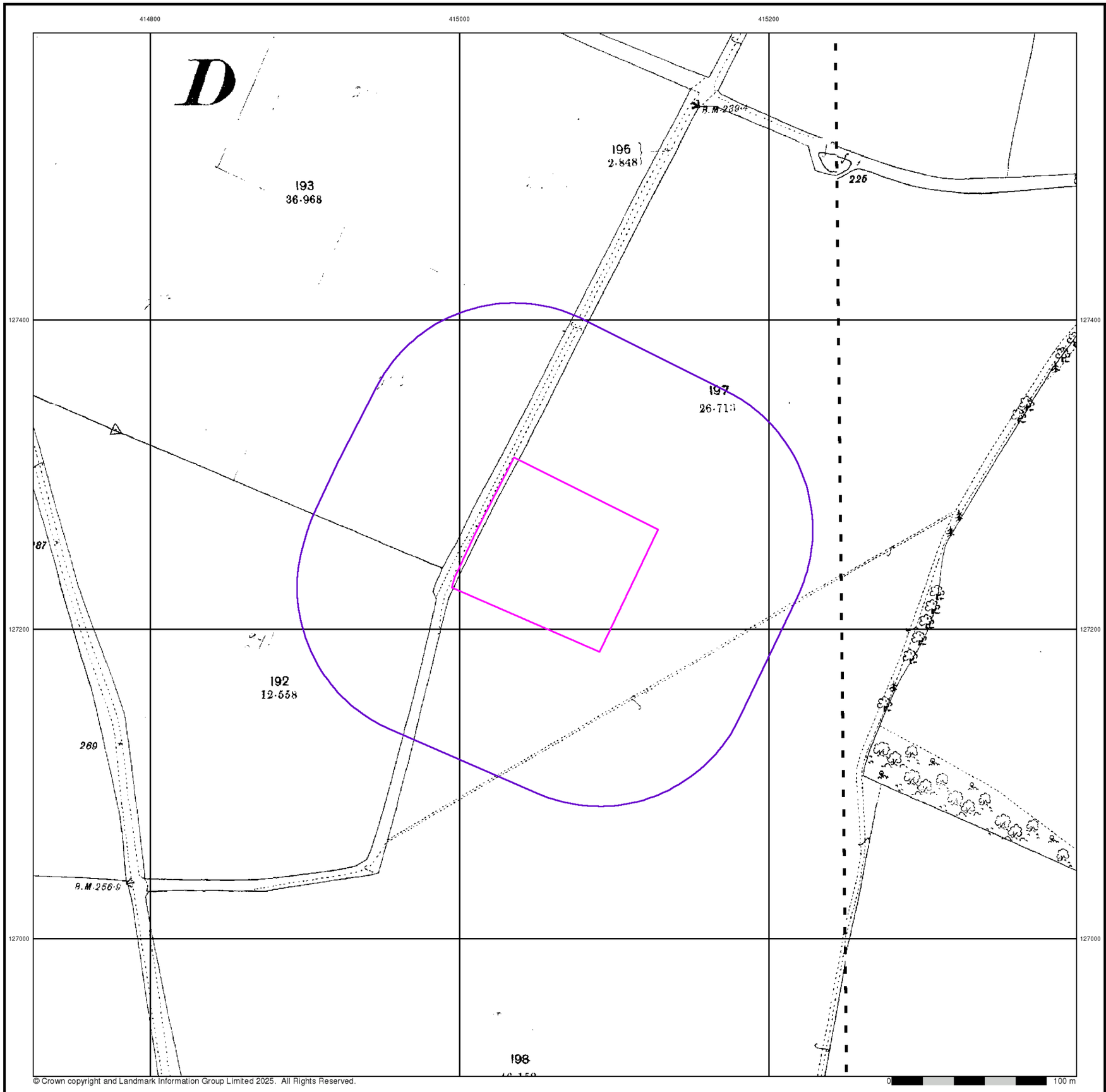
Order Details

Order Number: 377078935_1_1
Customer Ref: 100123741 CS02
National Grid Reference: 415060, 127250
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 100

Site Details

Site at 415062,127248

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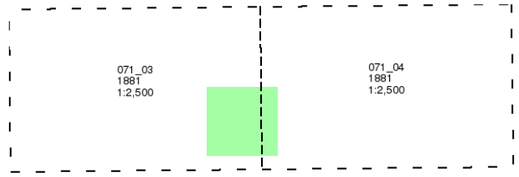
Wiltshire

Published 1881

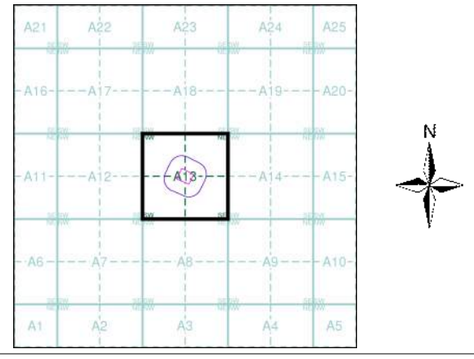
Source map scale - 1:2,500

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



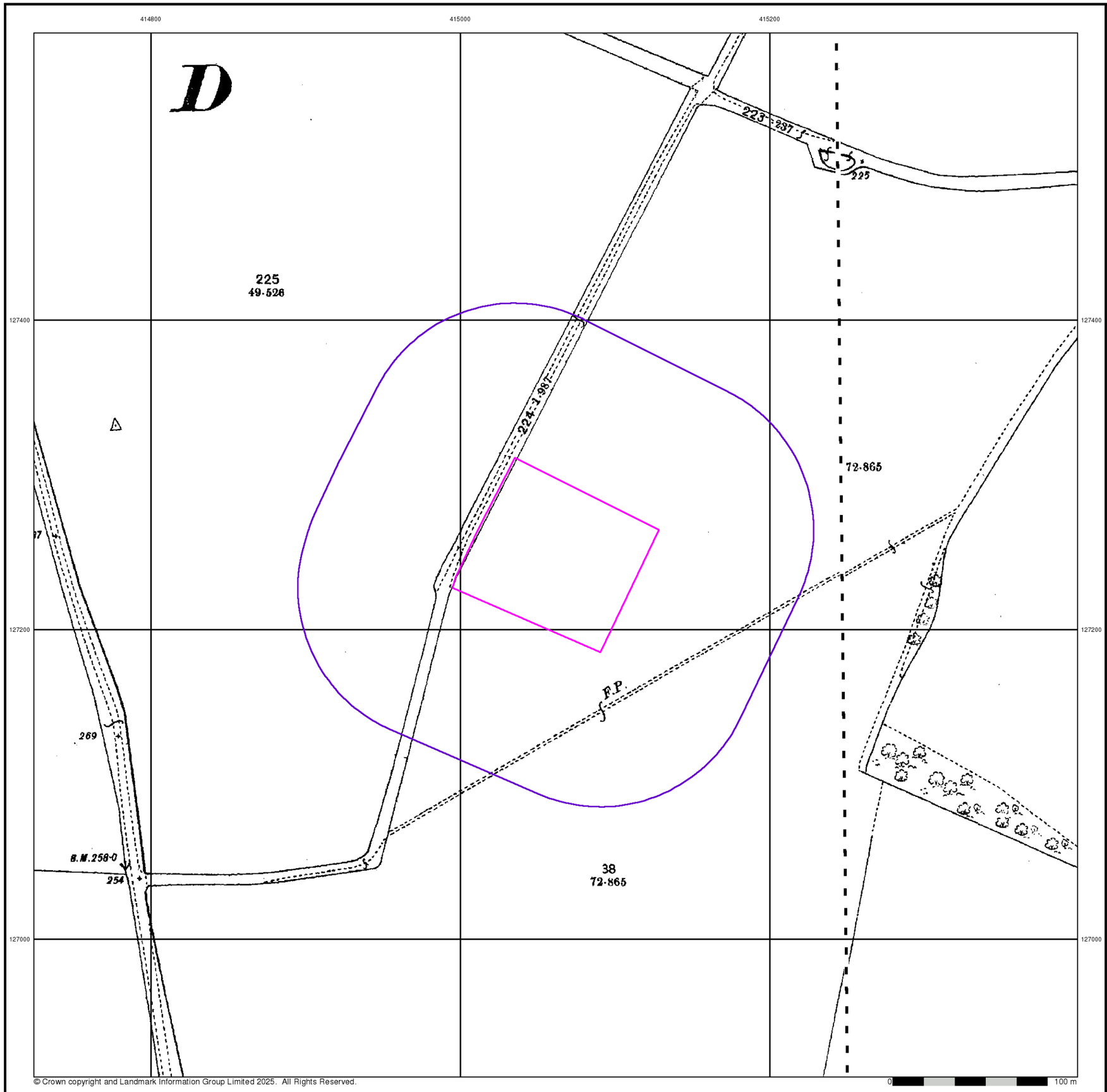
Order Details

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Customer Ref:	100123741 CS02
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Slice:	A
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0 100 m

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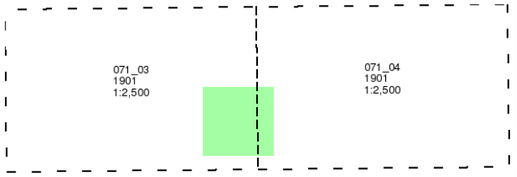
Wiltshire

Published 1901

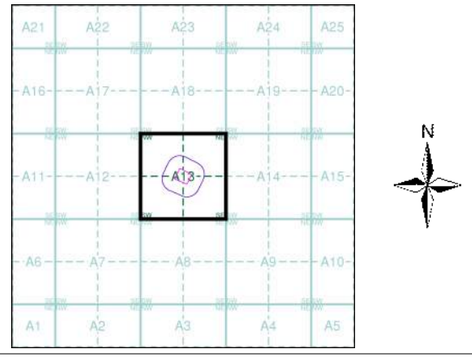
Source map scale - 1:2,500

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



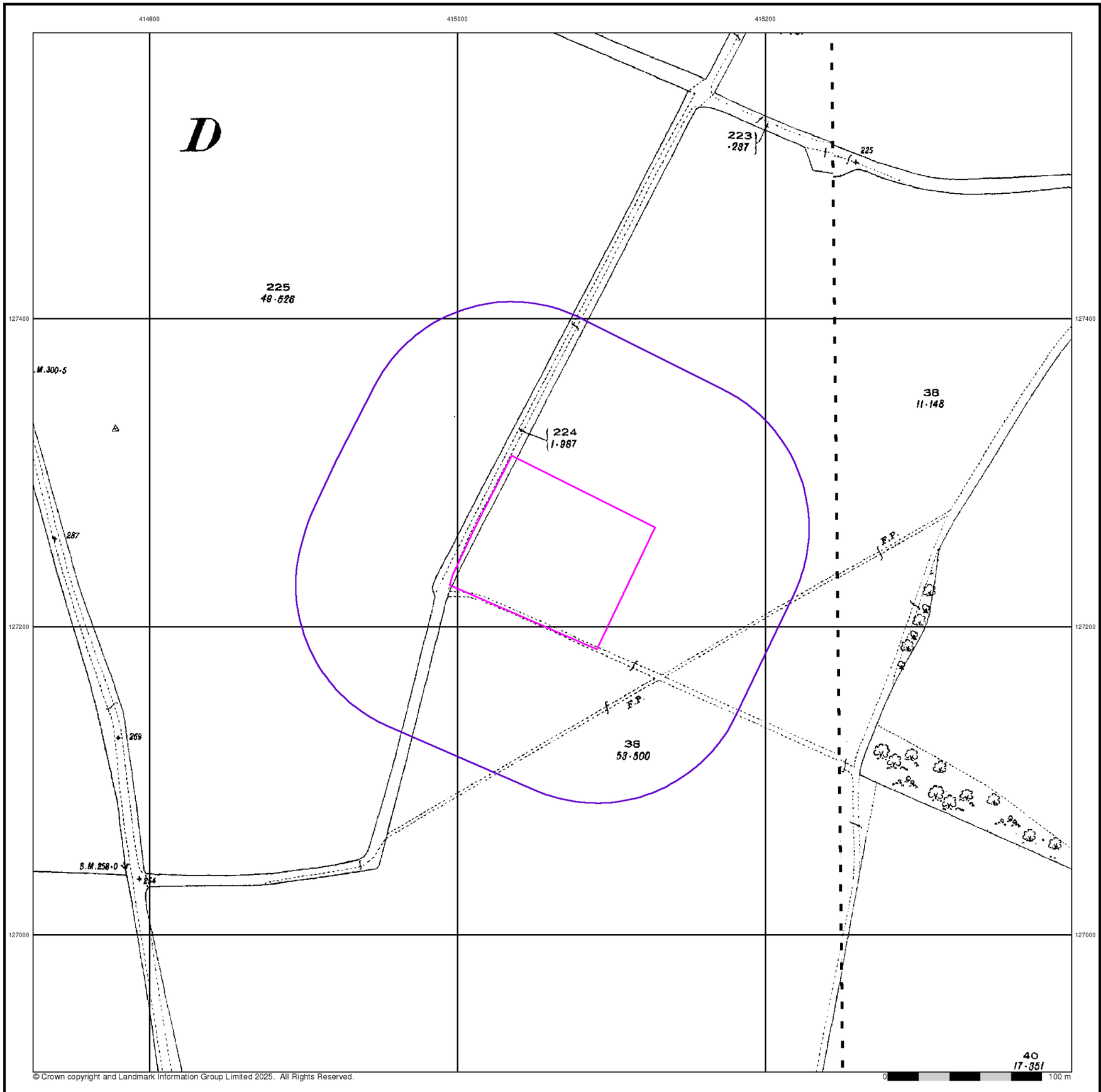
Order Details

Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
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Search Buffer (m):	100

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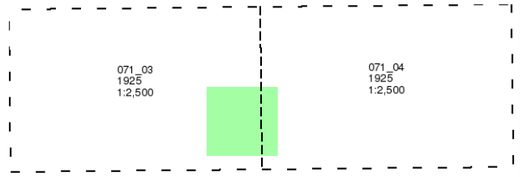
Wiltshire

Published 1925

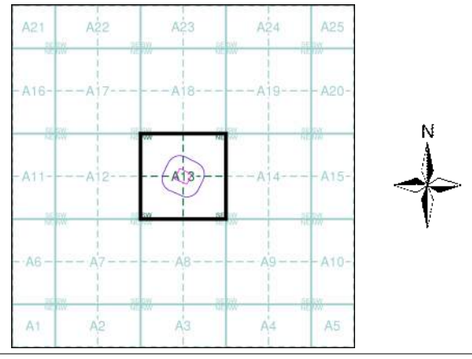
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



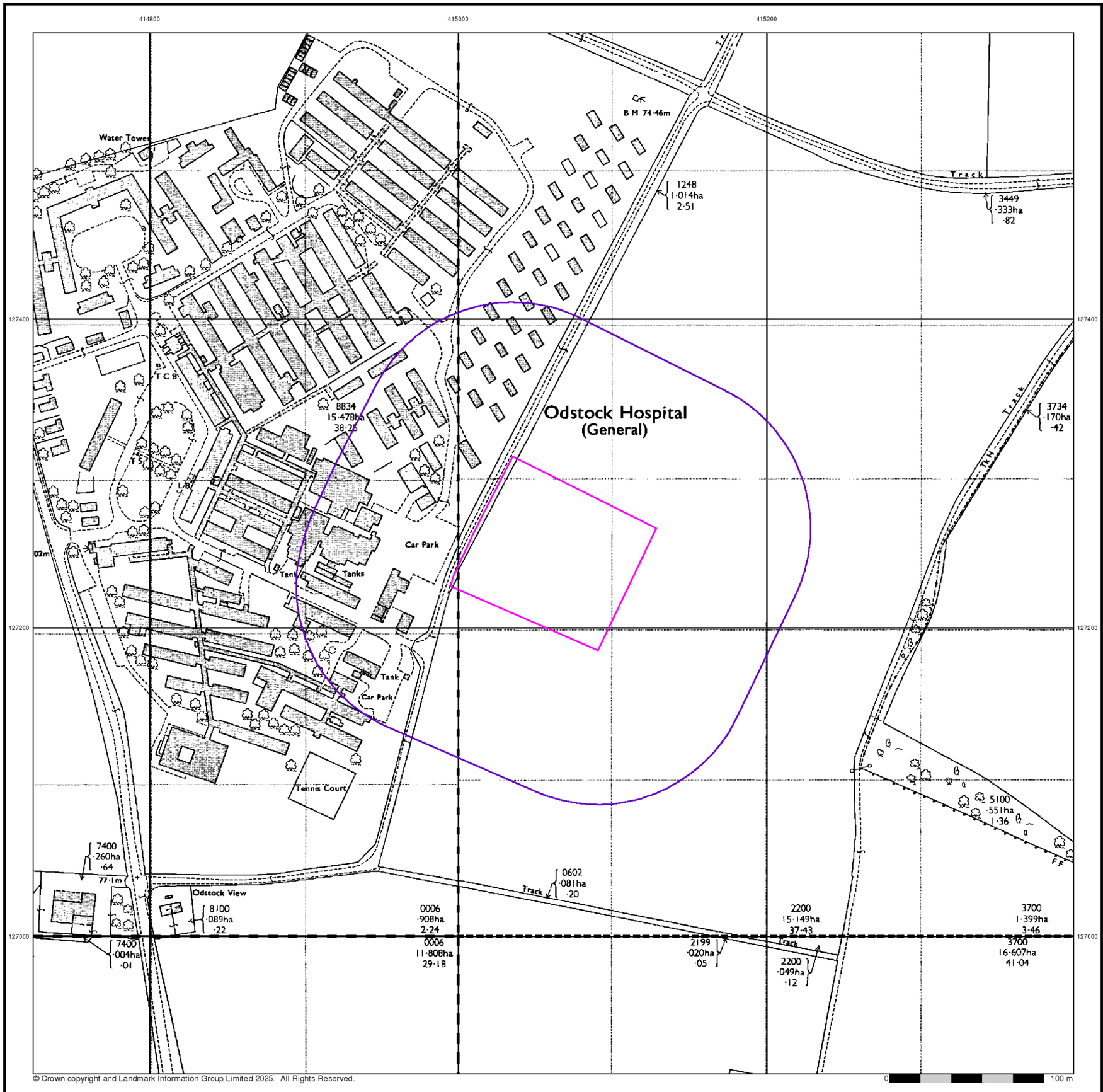
Order Details

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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
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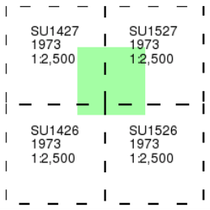
Ordnance Survey Plan

Published 1973

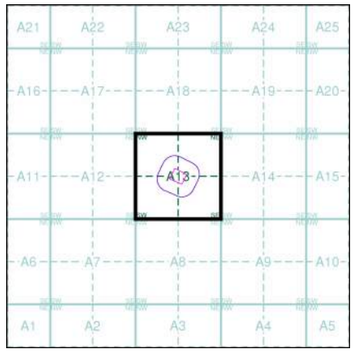
Source map scale - 1:2,500

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



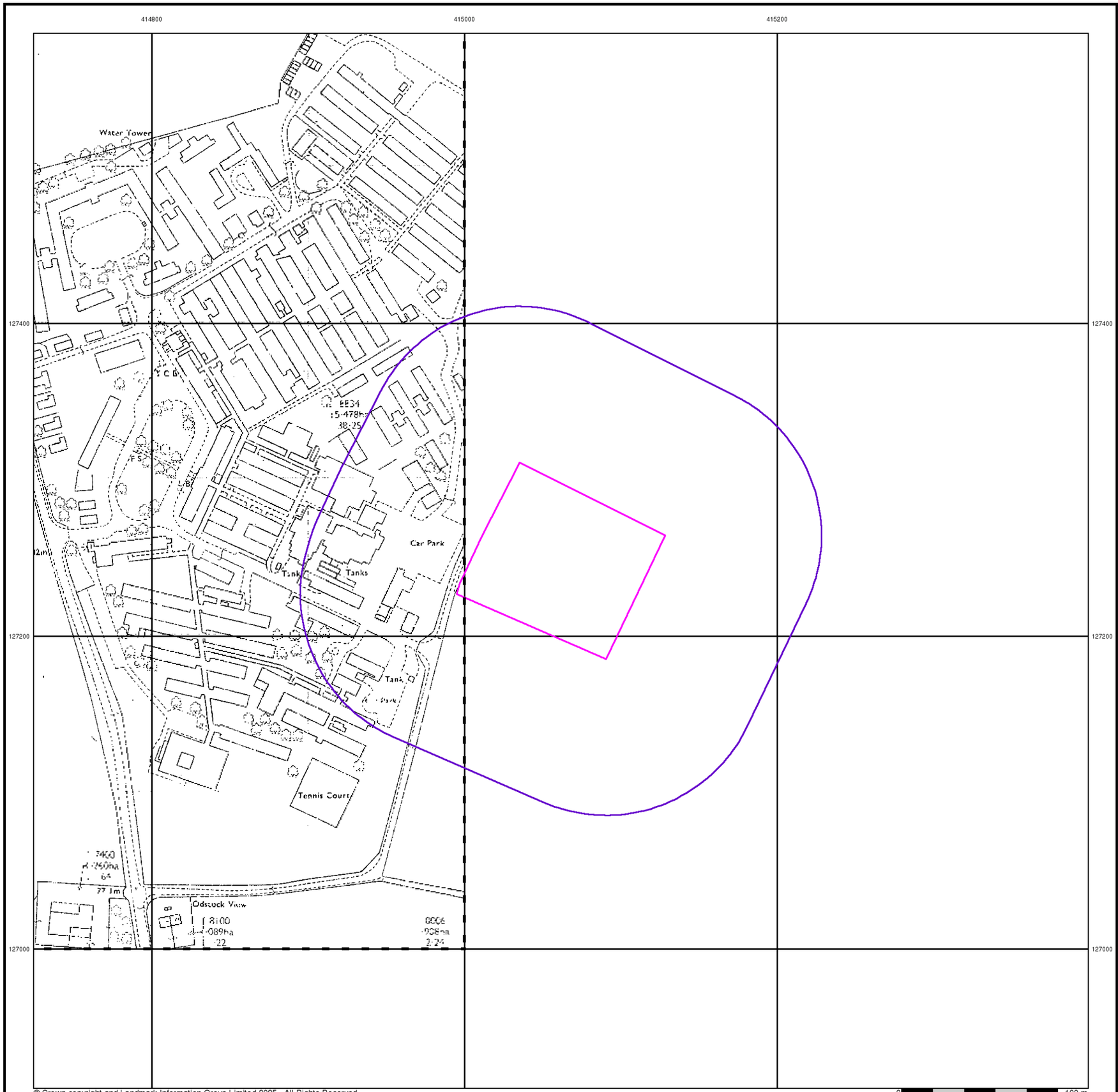
Order Details

Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	100

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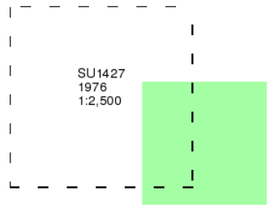
Supply of Unpublished Survey Information

Published 1976

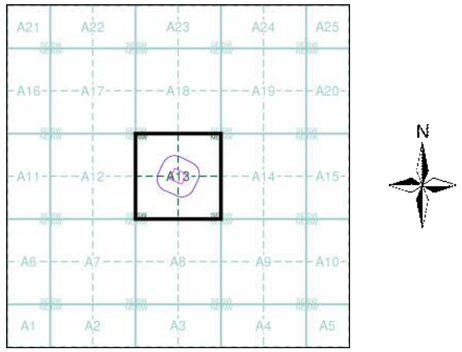
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



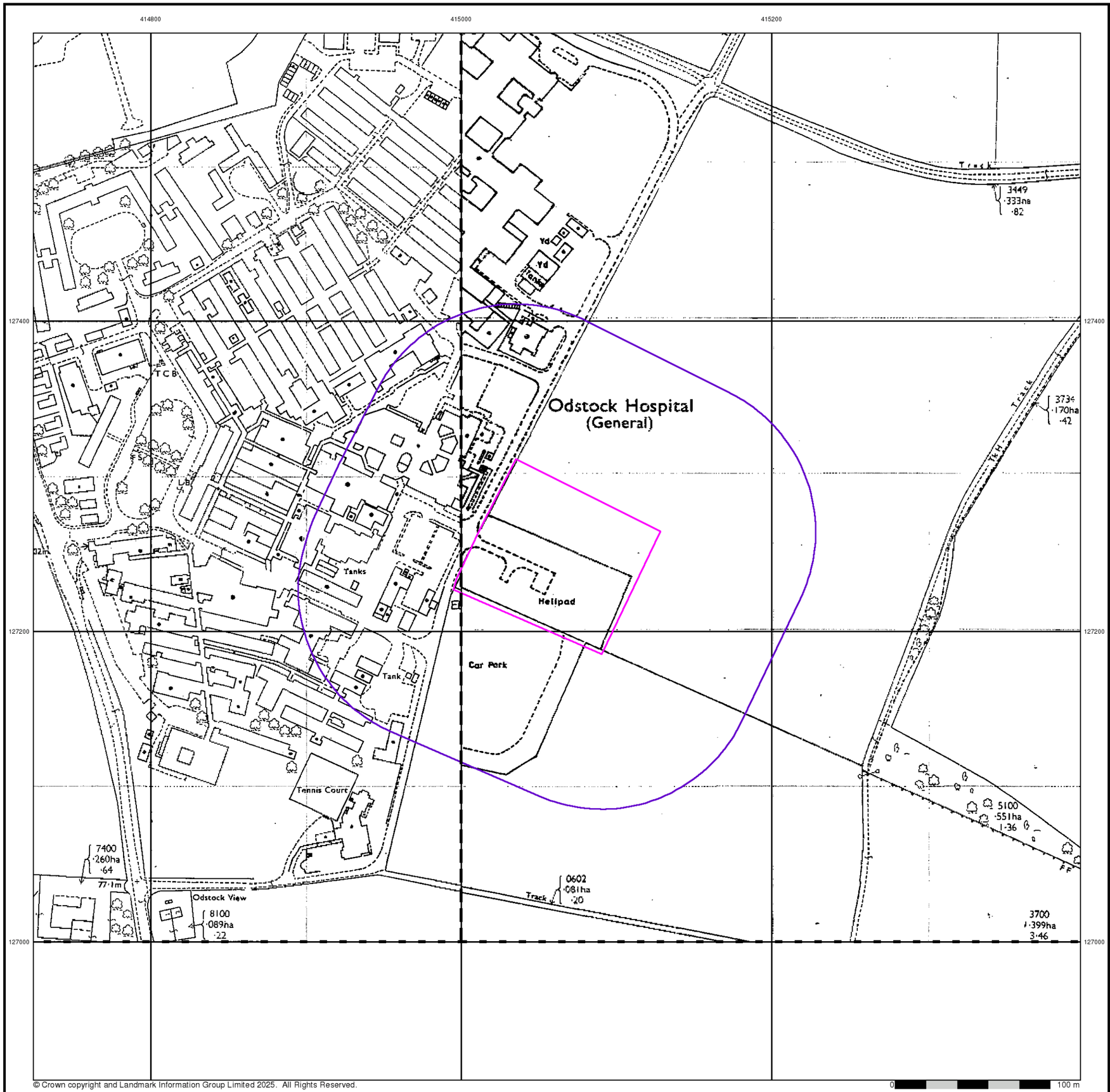
Order Details

Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
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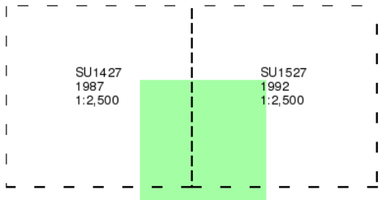
Additional SIMs

Published 1987 - 1992

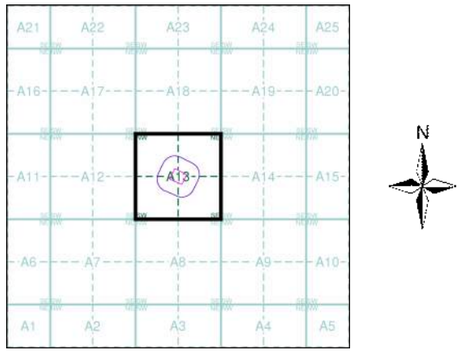
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



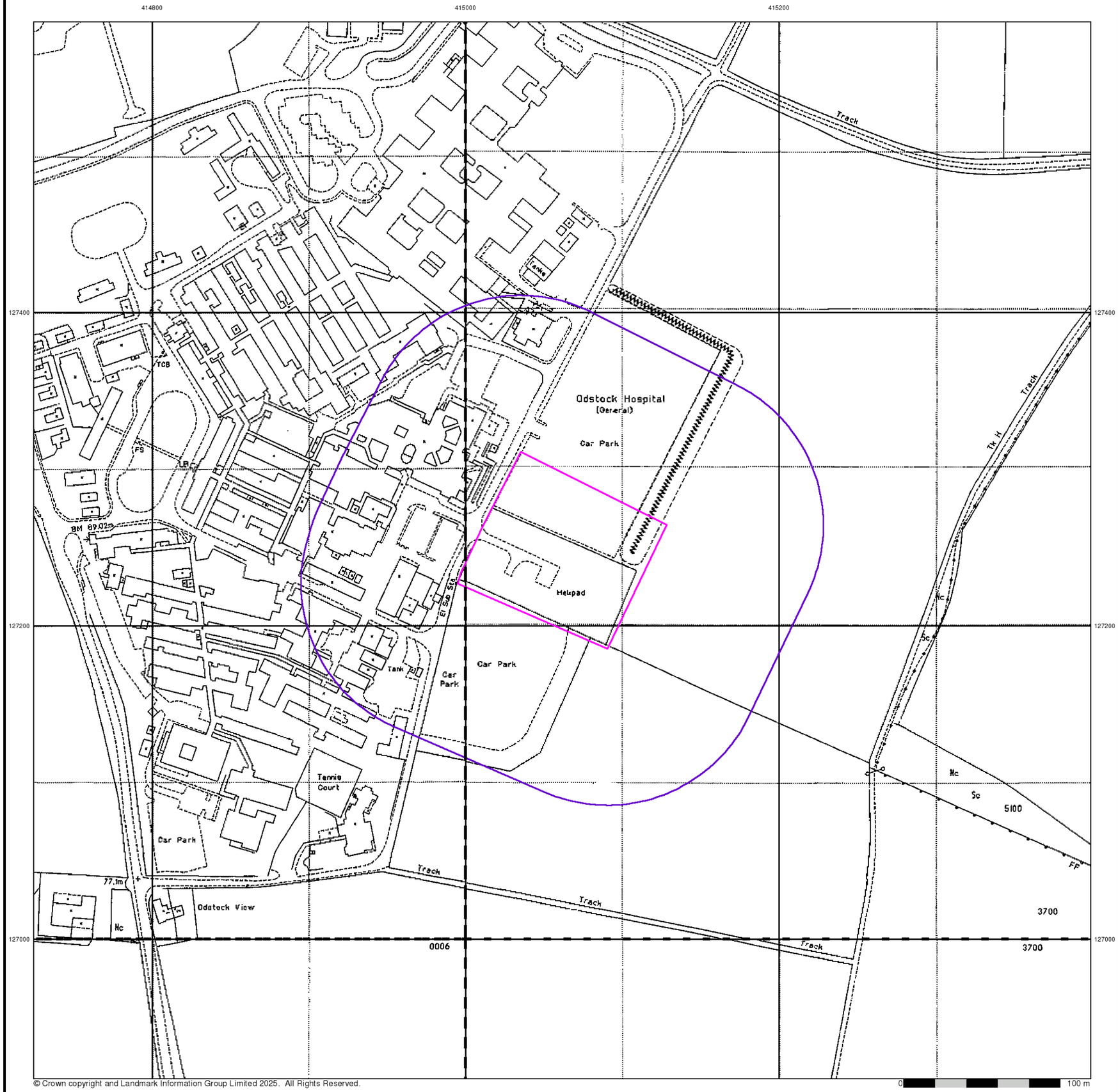
Order Details

Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	100

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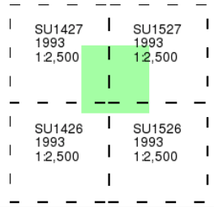
Large-Scale National Grid Data

Published 1993

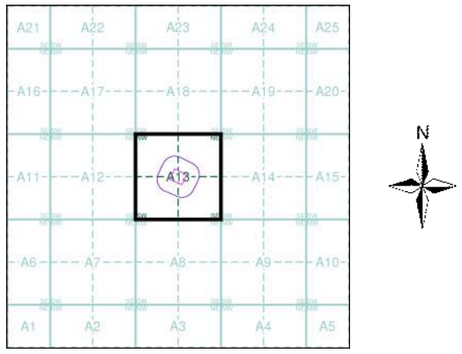
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



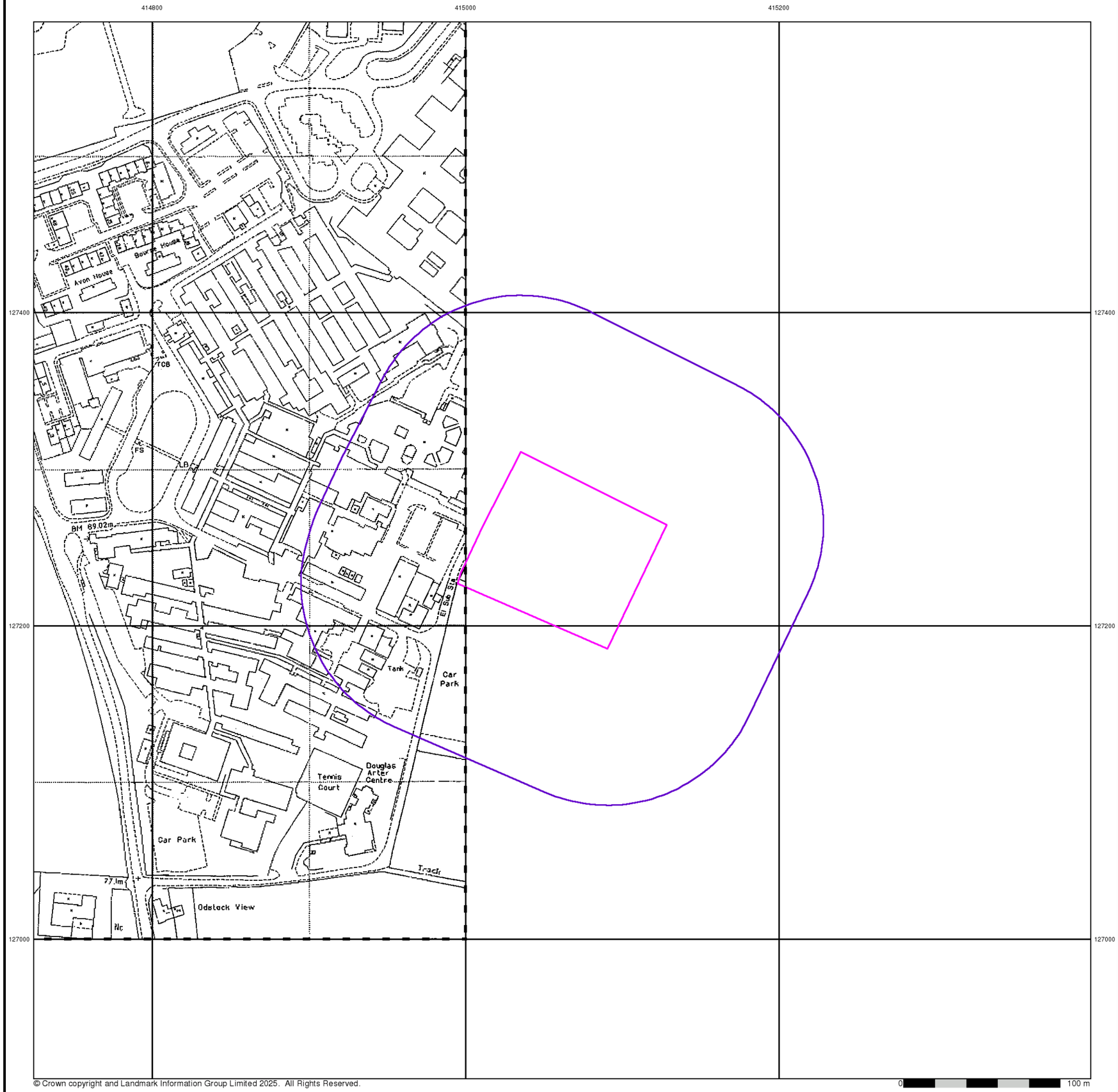
Order Details

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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	100

Site Details

Site at 415062,127248

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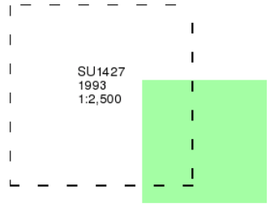
Large-Scale National Grid Data

Published 1993

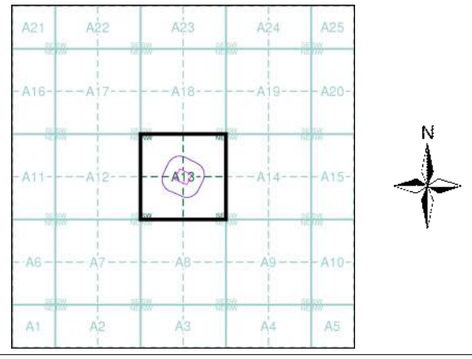
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



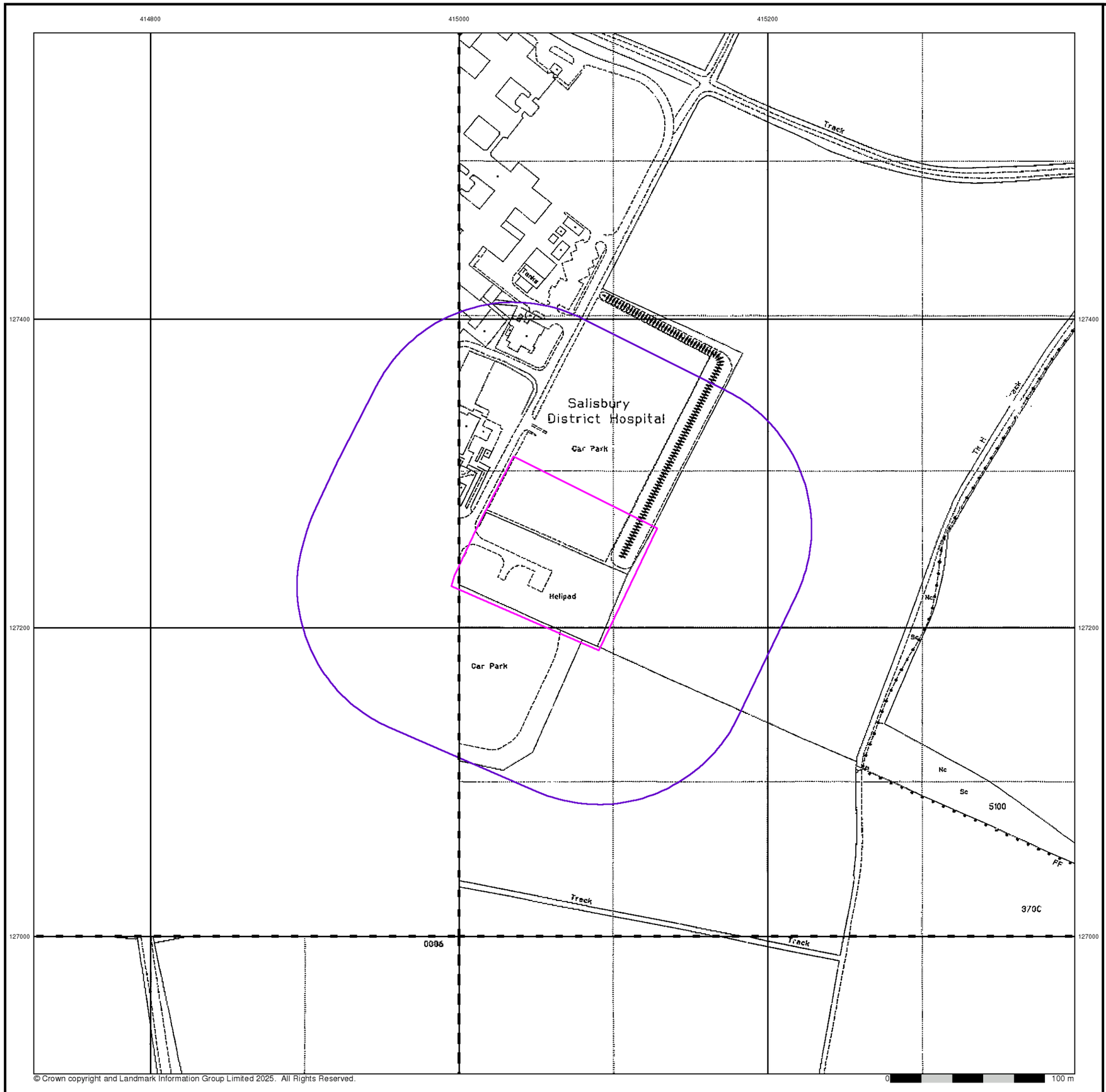
Order Details

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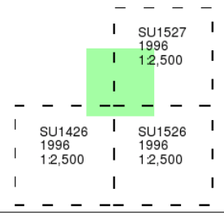
Large-Scale National Grid Data

Published 1996

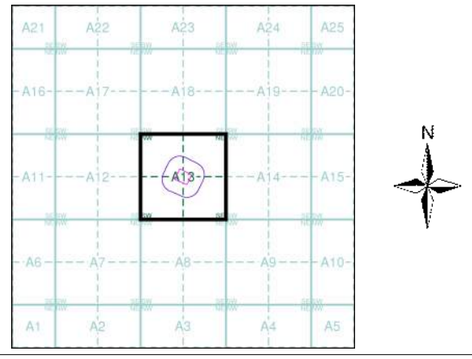
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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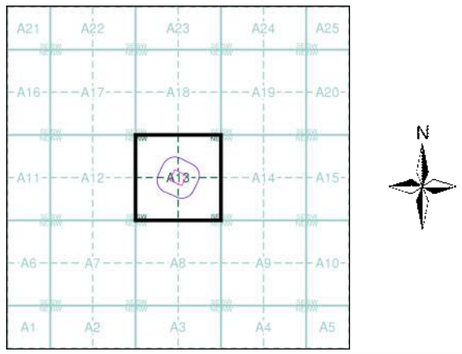
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Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13

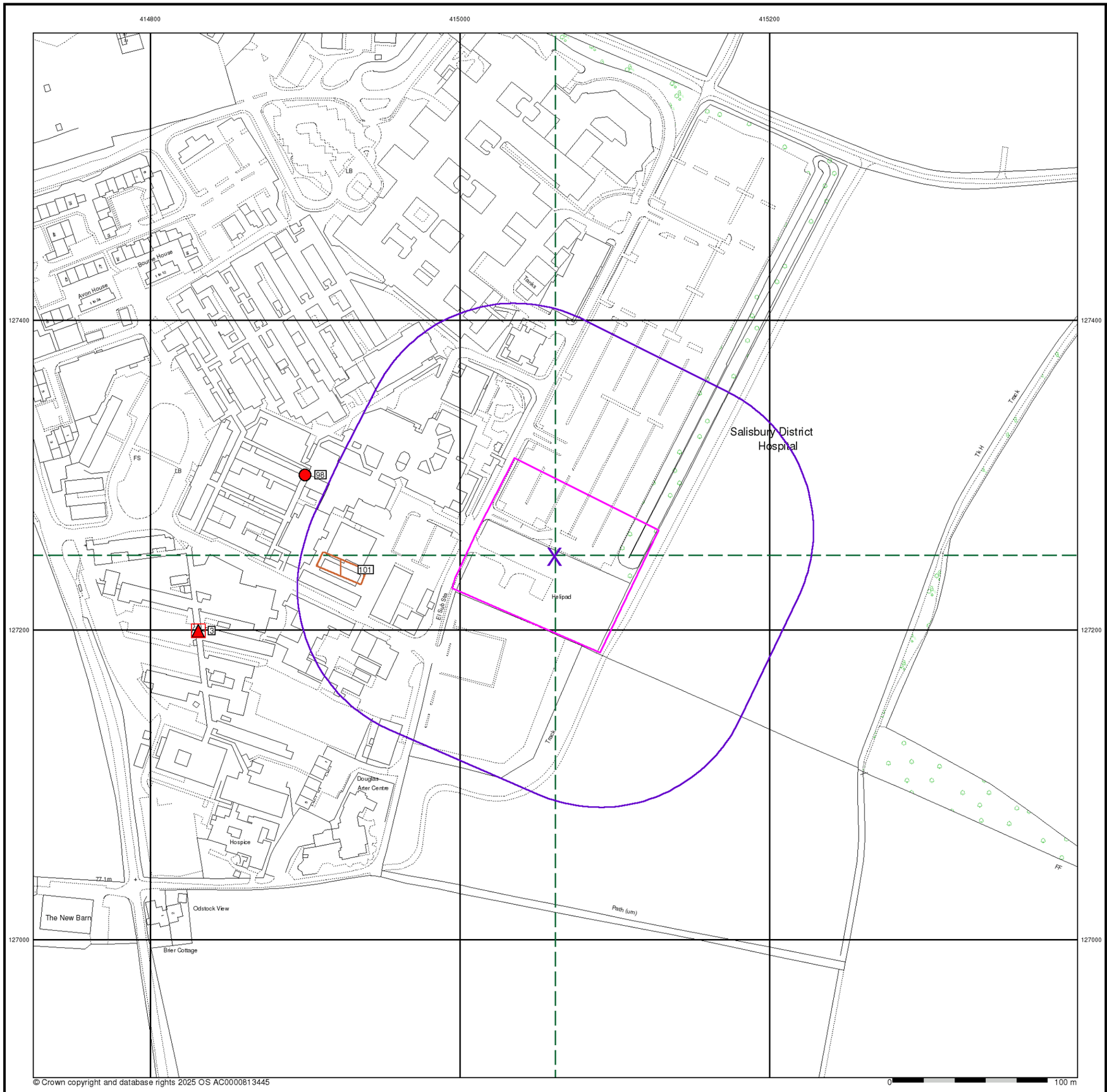


Order Details

Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	100

Site Details

Site at 415062,127248



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General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID
Several of Type at Location | Pylon | Overhead Transmission Line

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
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

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
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- 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

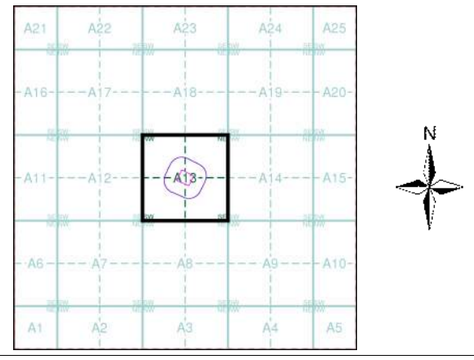
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



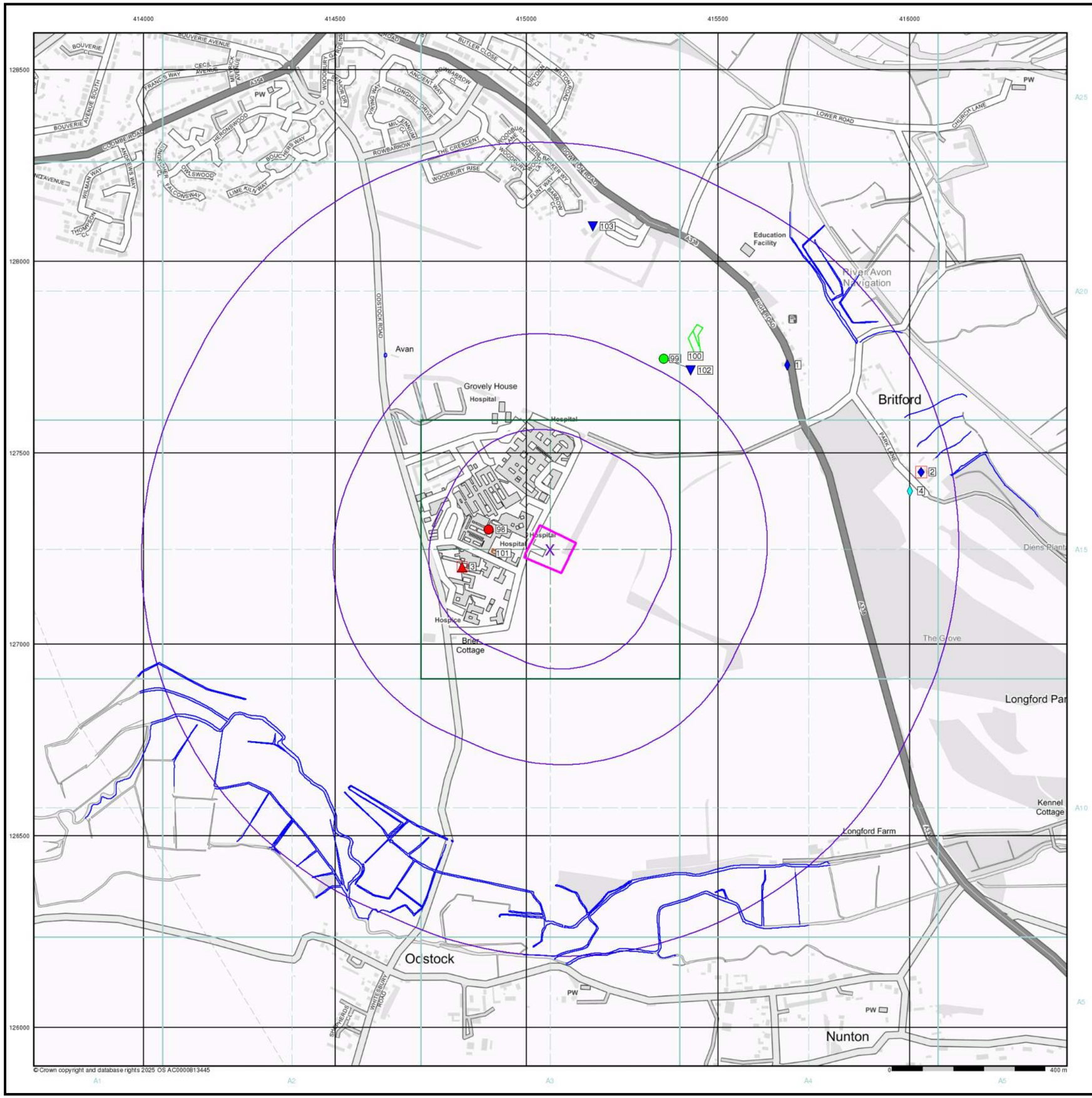
Order Details

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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Plot Buffer (m):	100

Site Details

Site at 415062,127248

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



M

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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
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

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
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- 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

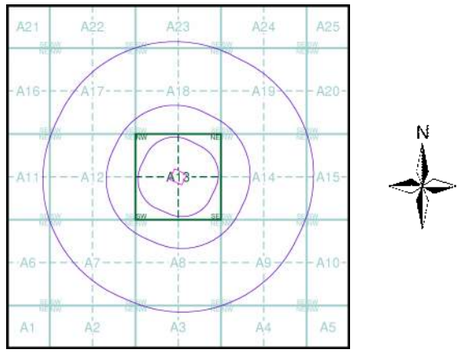
COMAH Site | Explosive Site | NIHHS Site

- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A



Order Details

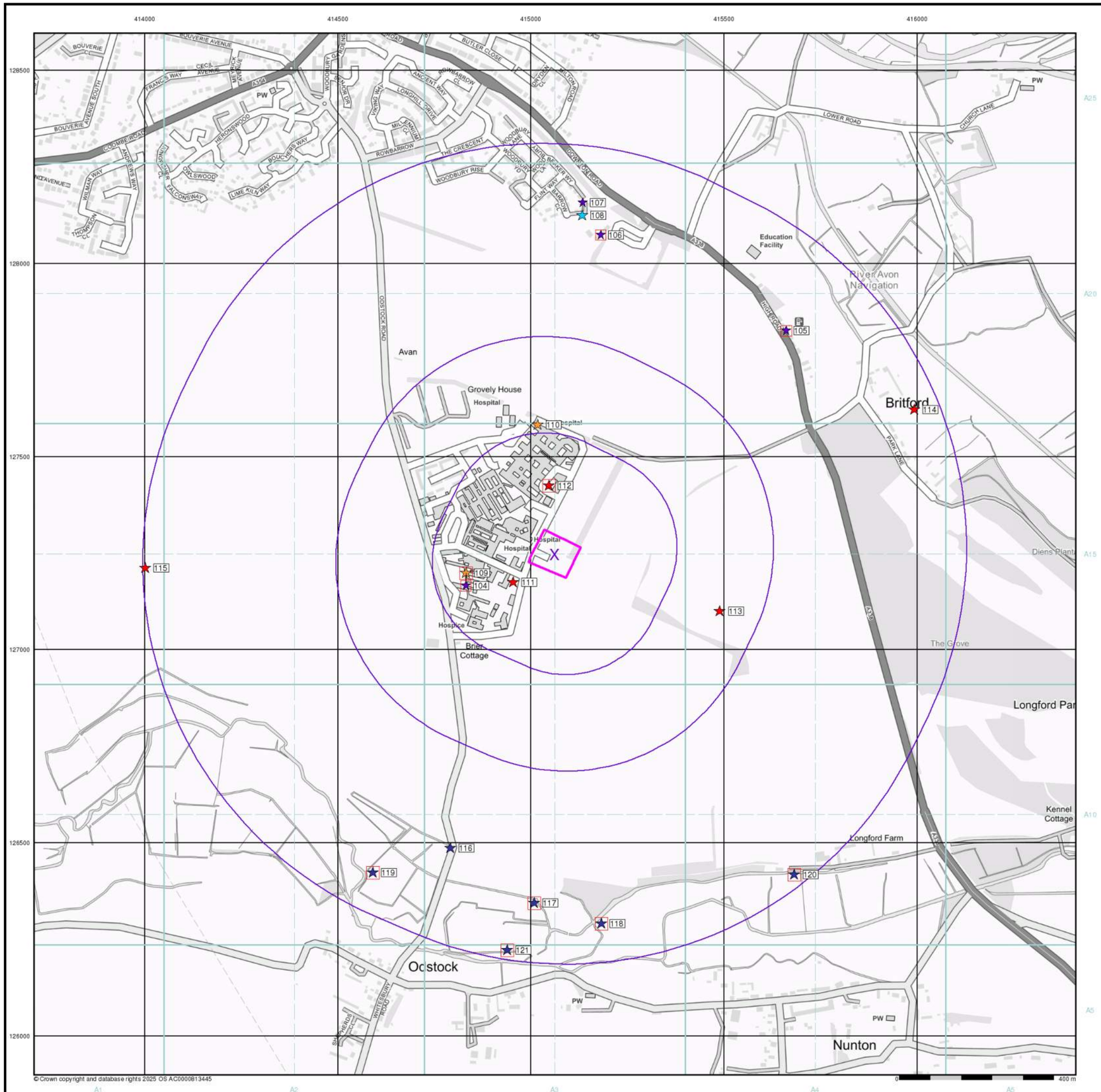
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National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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Industrial Land Use Map

General

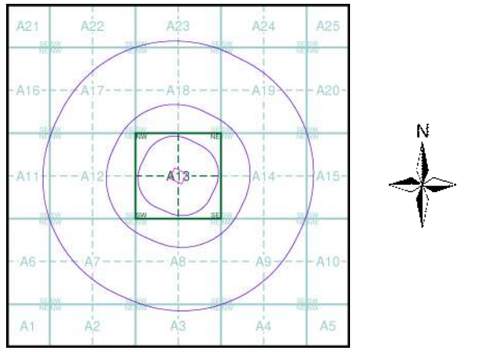
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

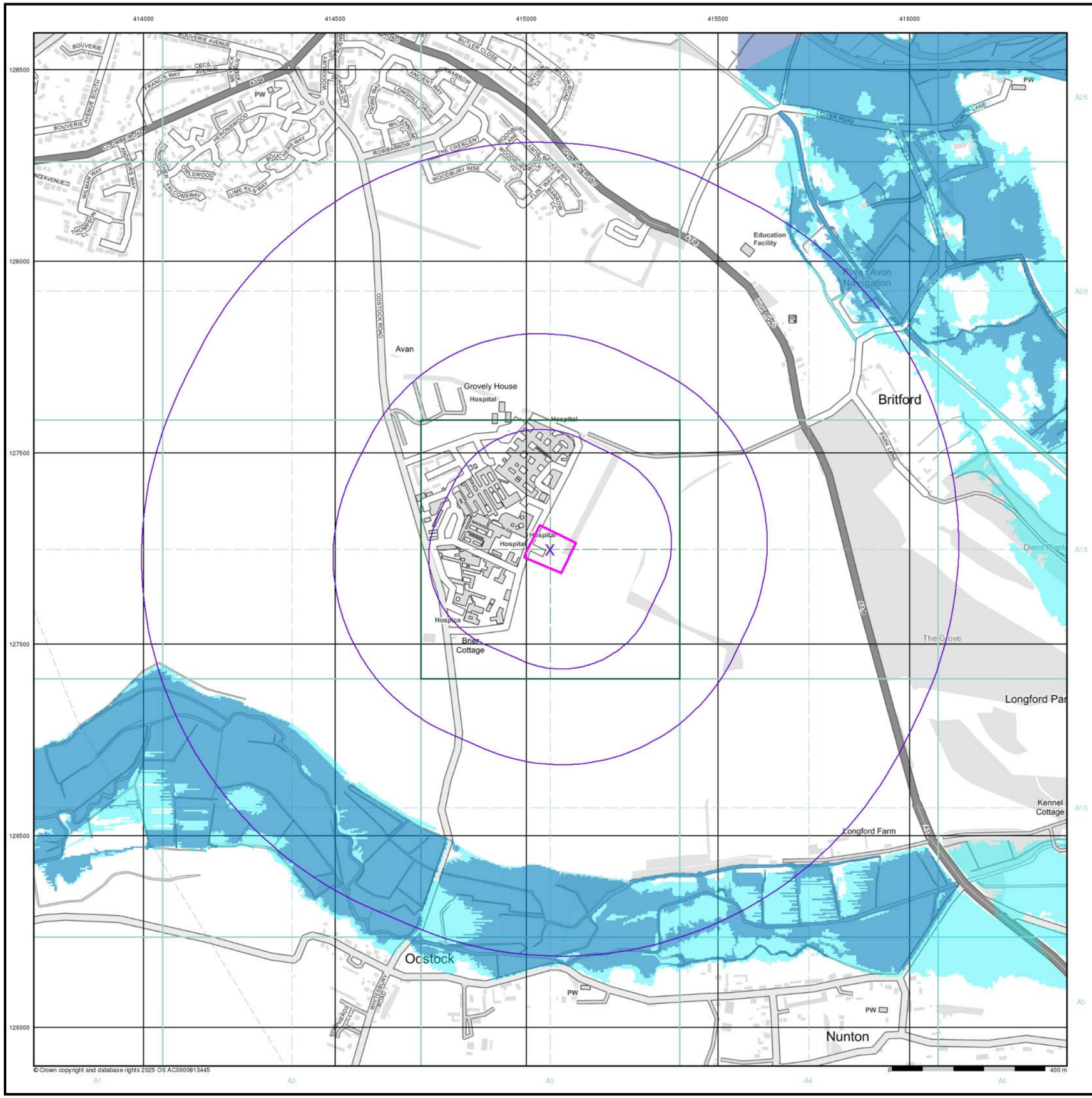
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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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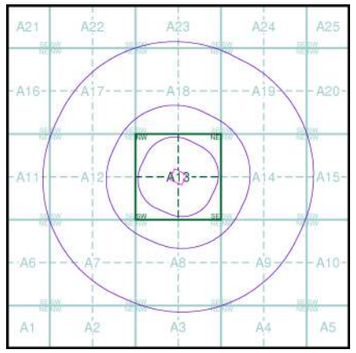
General

- 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



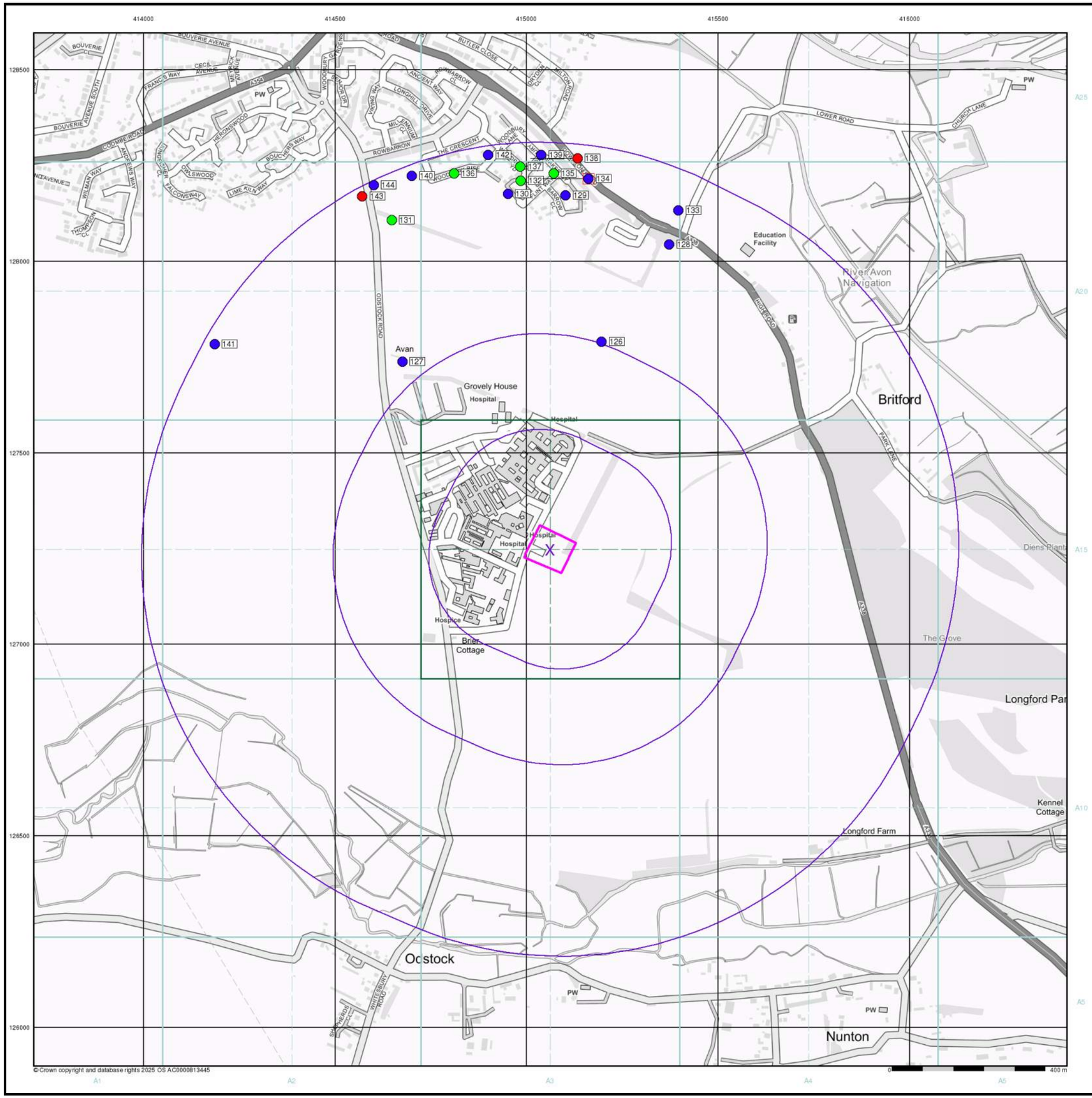
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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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General

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

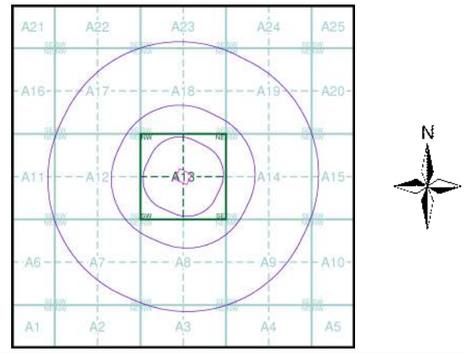
Agency and Hydrological (Boreholes)

- 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

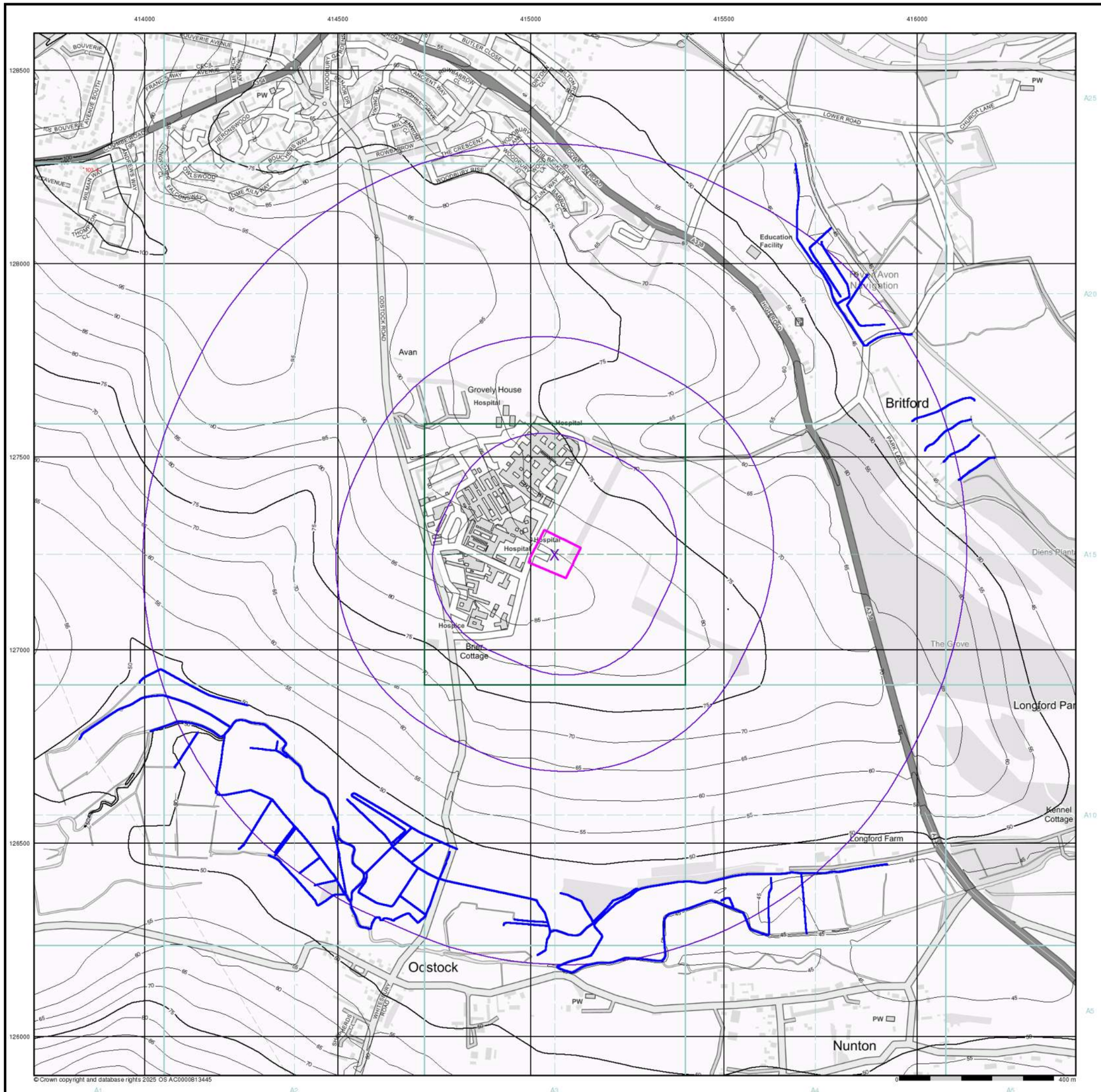


Order Details

Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248



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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

Contours (height in meters)

Standard Contour 105 100 95

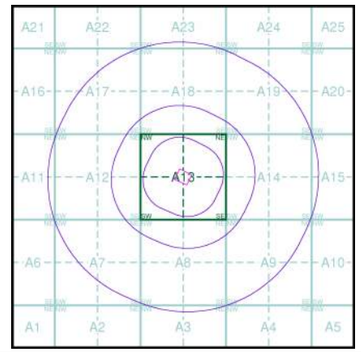
Master Contour

Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

OS Water Network Map - Slice A



Order Details

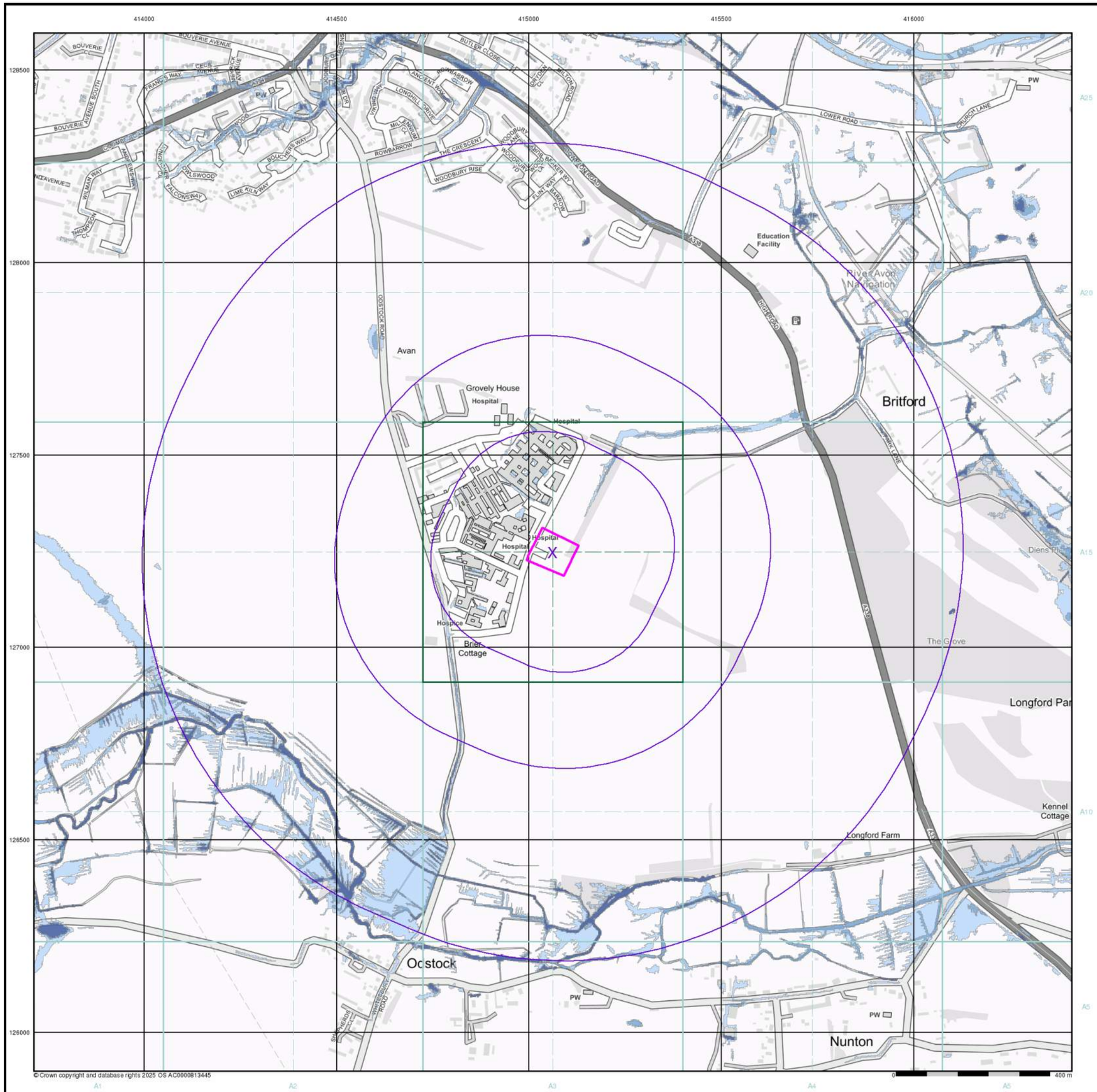
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National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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General

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

Risk of Flooding from Surface Water

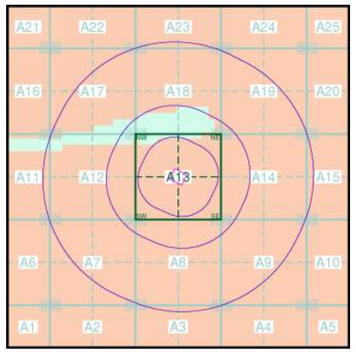
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



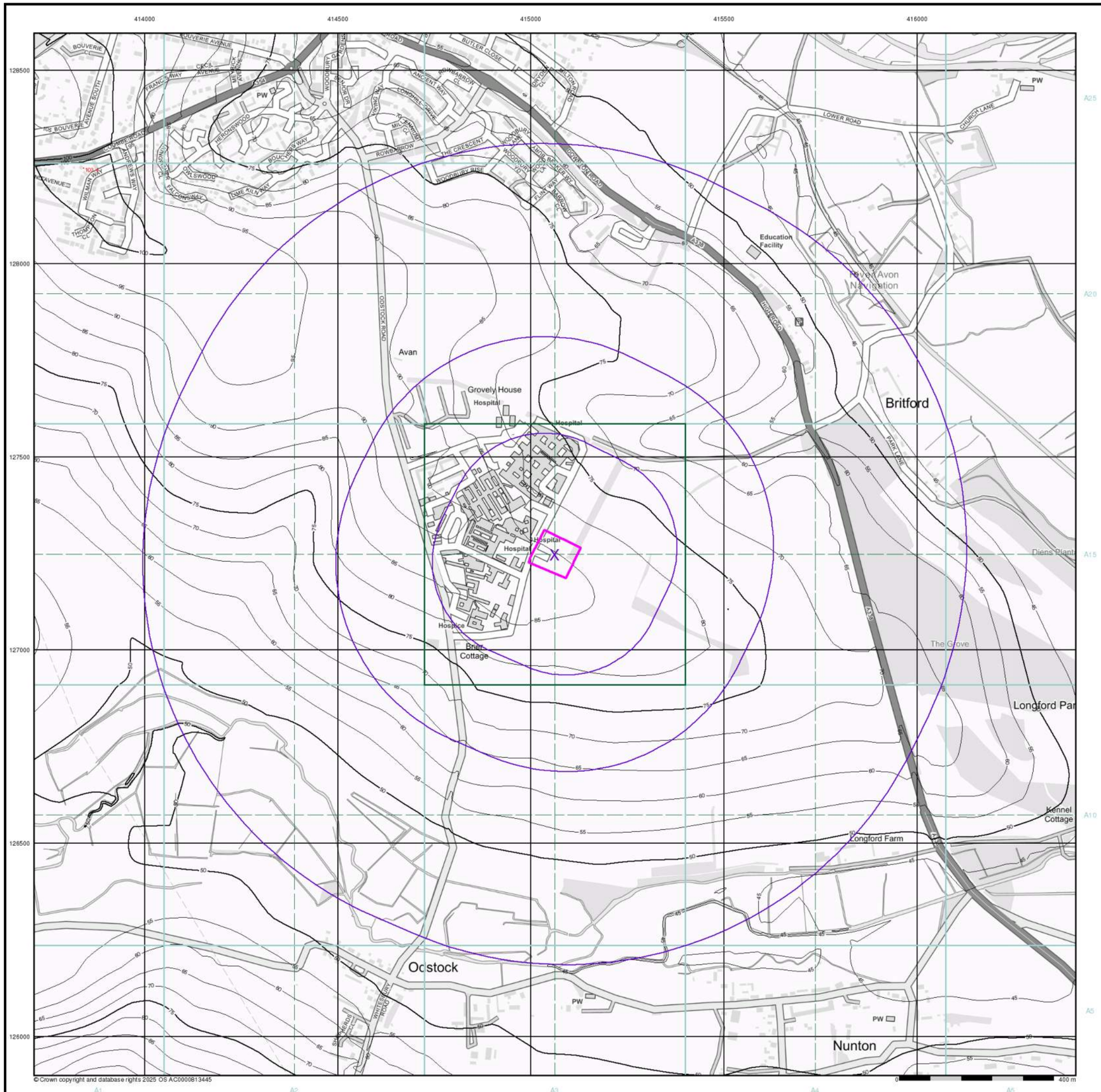
Order Details

Order Number:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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WFD Surface Waters Map

General

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

Water Framework Directive - Surface Water Quality

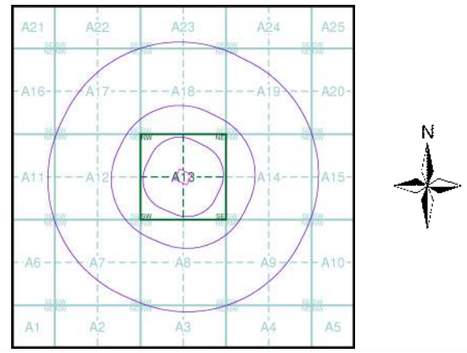
- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

Standard Contour 105 100 95
Master Contour
Spot Height * 167.3

MLW Mean Low Water
MHW Mean High Water

WFD Surface Waters Map - Slice A



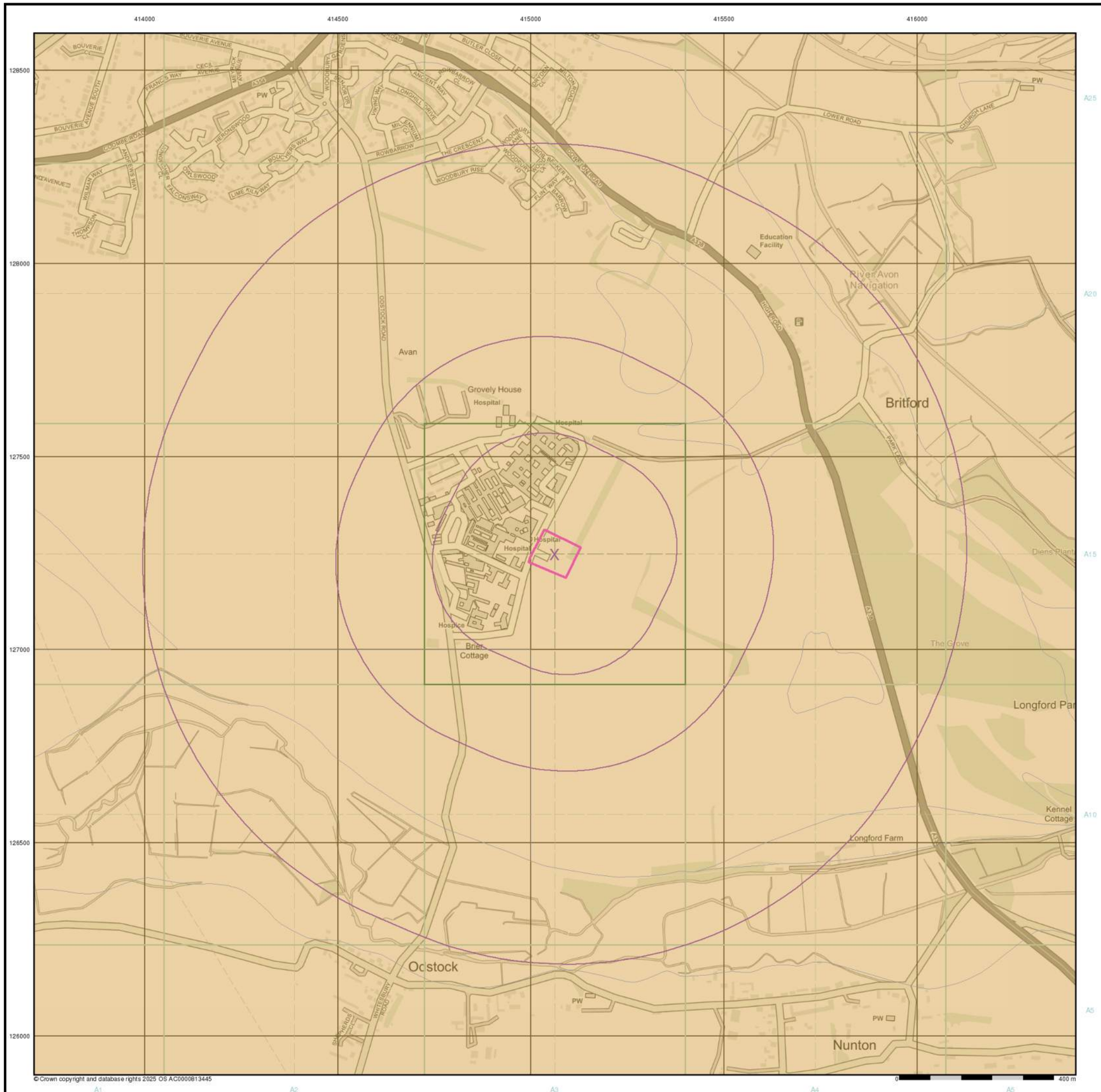
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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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Web: www.envirocheck.co.uk



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General

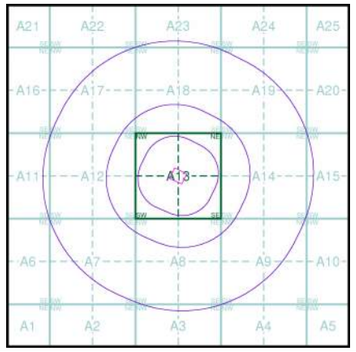
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



Order Details

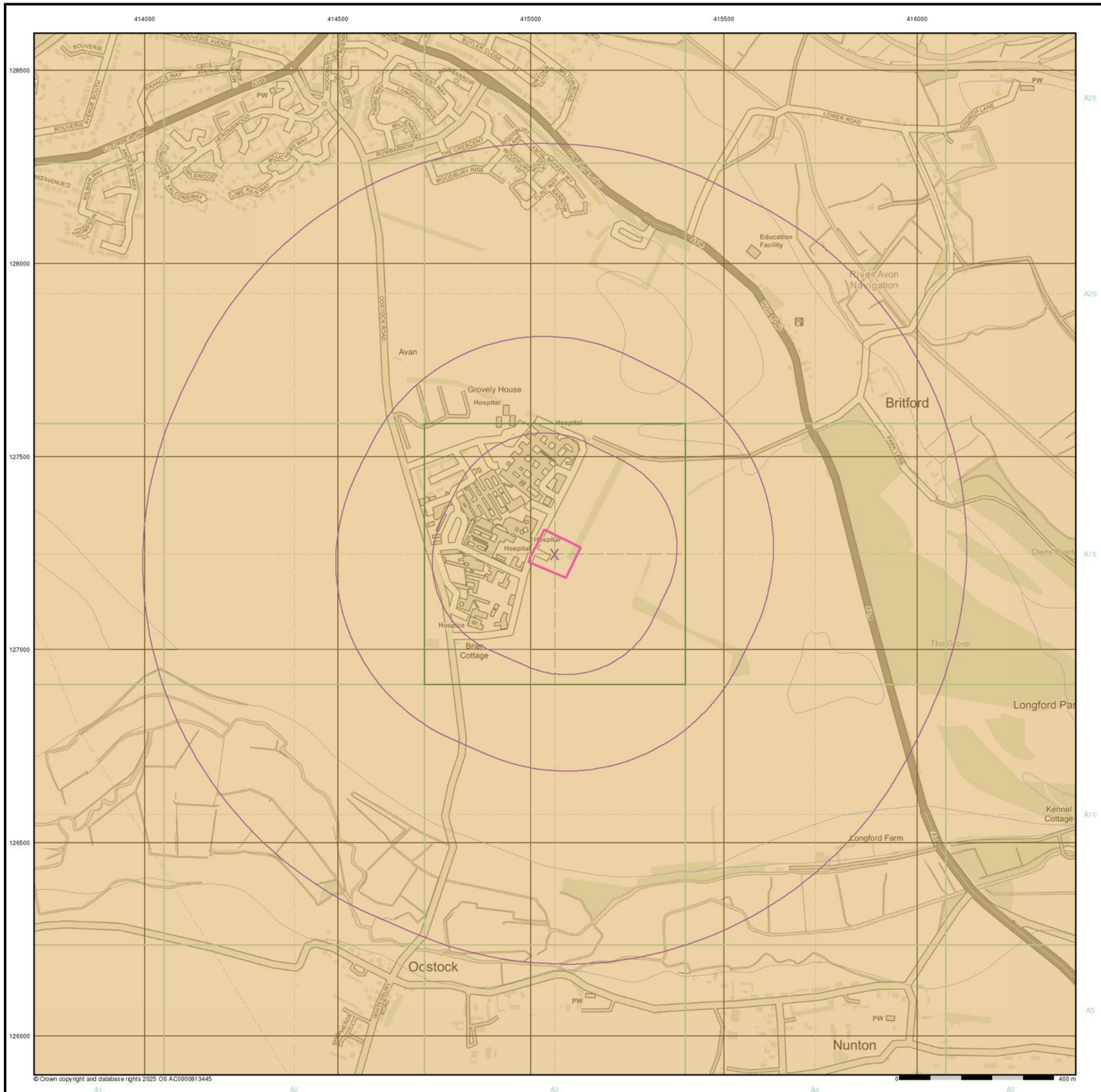
Order Details:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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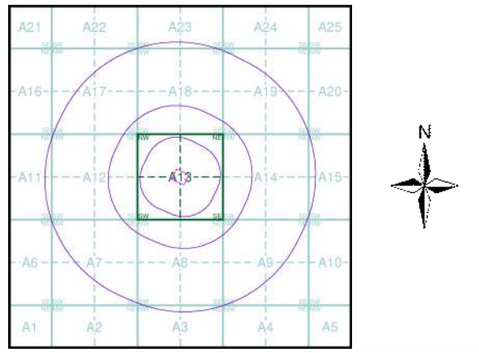
Specified Site | Specified Buffer(s) | Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



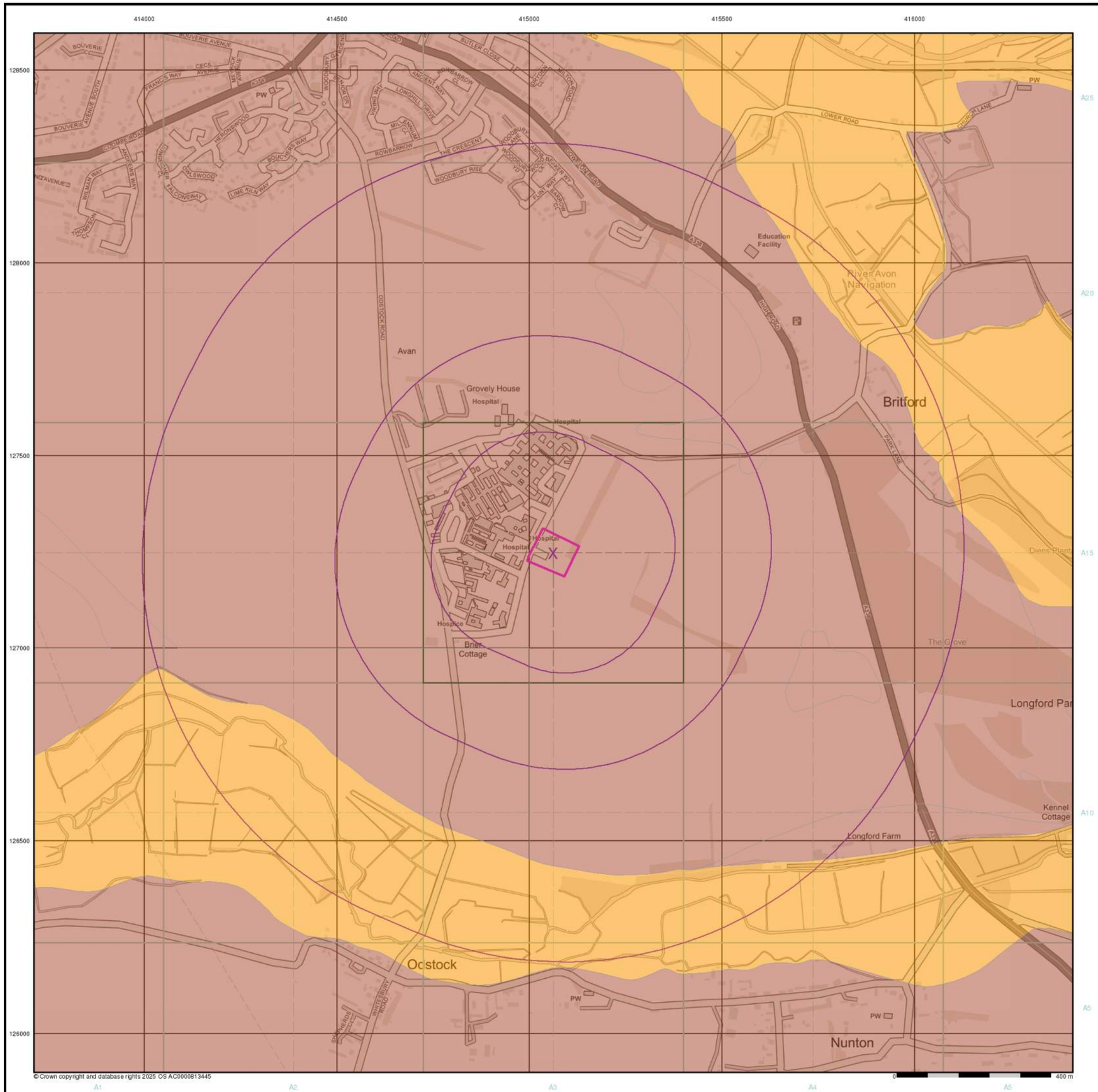
Order Details

Order Details:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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M

General

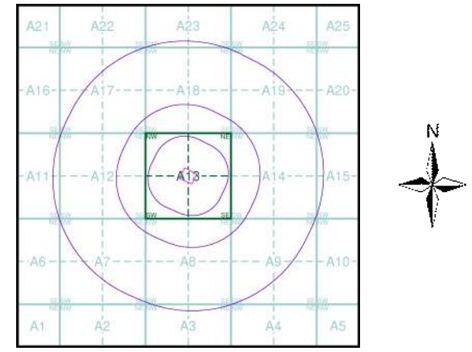
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



Order Details

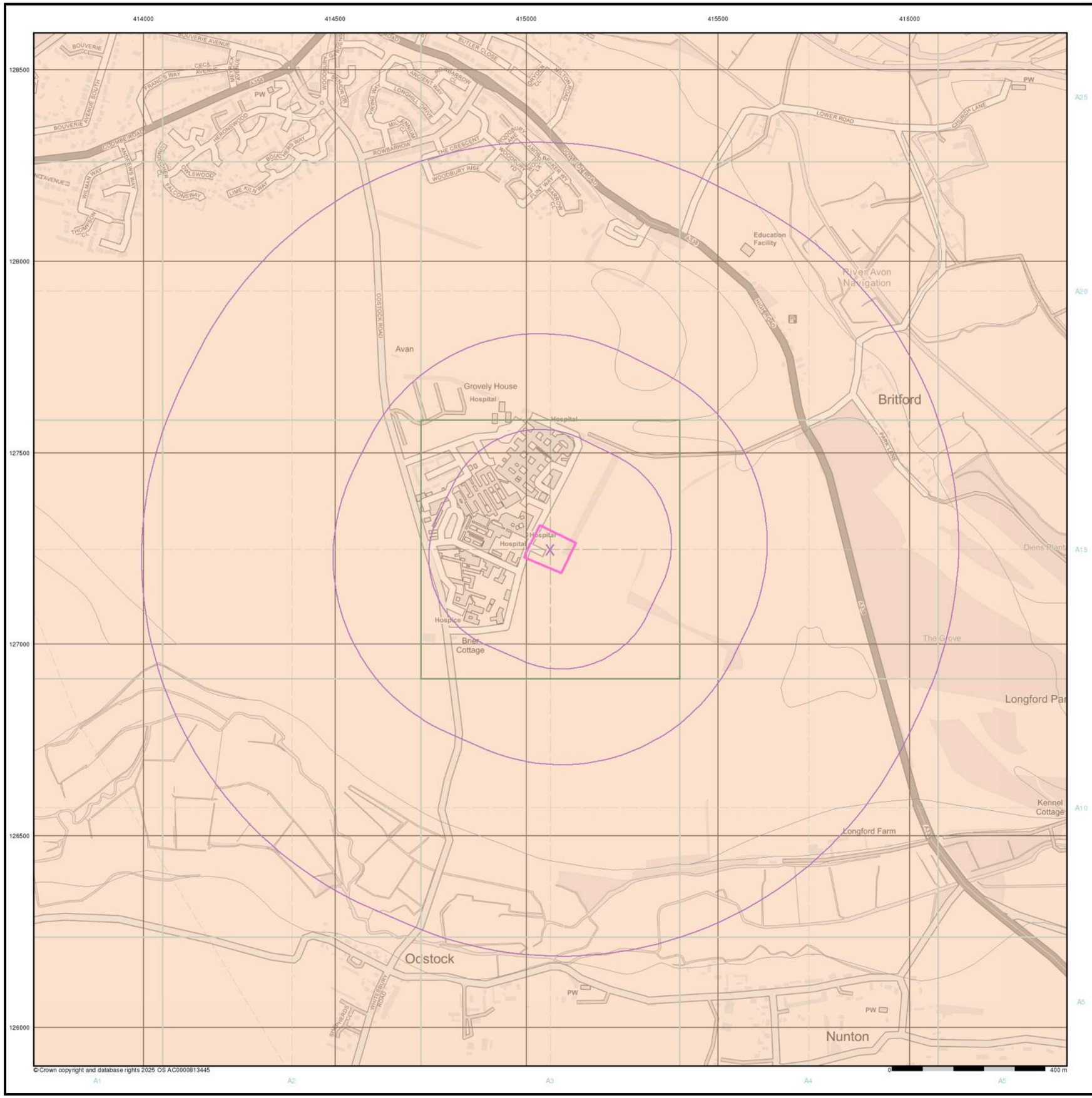
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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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General

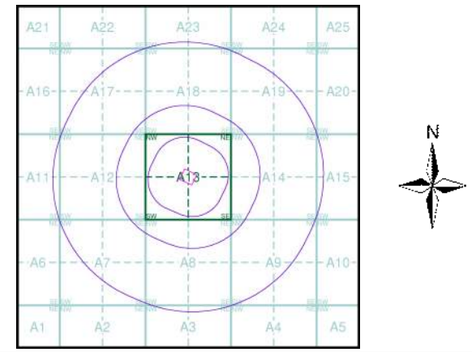
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice A



Order Details

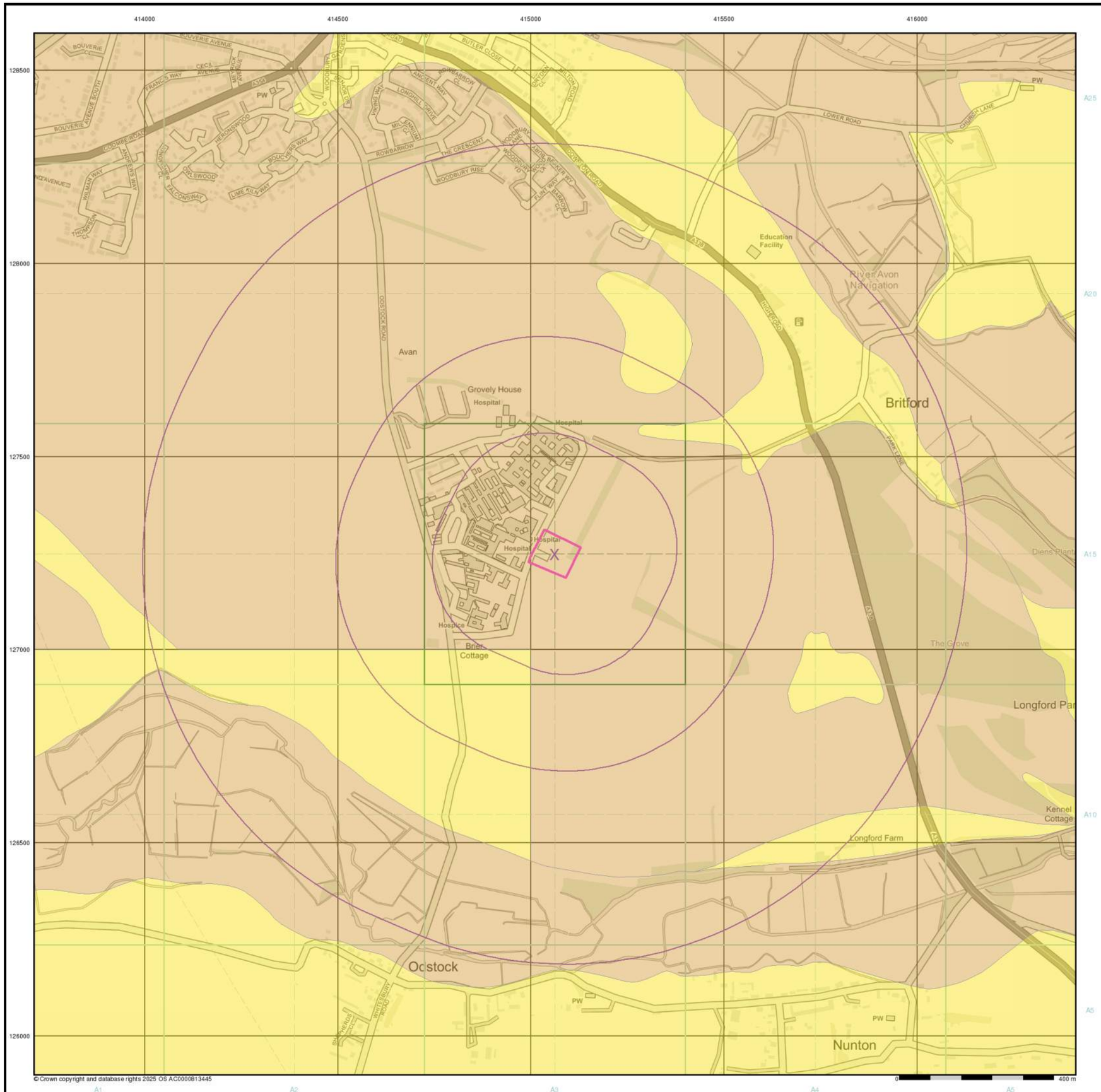
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Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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General

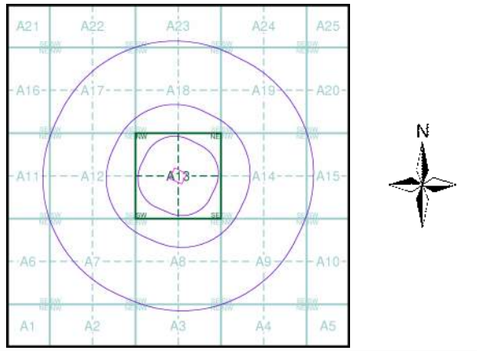
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details:	377078935_1_1
Customer Ref:	100123741 CS02
National Grid Reference:	415060, 127250
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details

Site at 415062,127248

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Web: www.envirocheck.co.uk

B. Preliminary UXO Risk Assessment



Salisbury District Hospital

Mott MacDonald

Preliminary Unexploded Ordnance (UXO) Threat Assessment

Meeting the requirements of the UK's
Construction Industry Research and Information Association's UXO Risk Management Framework
"Unexploded Ordnance (UXO) – A Guide for the Construction Industry" (C681)

6 Alpha Associates Ltd

Project No.: 11902

21st May 2025

V1.0

Using This Report

This Preliminary Threat Assessment is designed to inform the reader whether military related Unexploded Ordnance (UXO) is likely to pose a hazard at the Study Site. The assessment is intended as a site-screening tool to meet with the requirement of Stage 1 of the *Health and Safety Executive* endorsed *CIRIA C681 UXO Risk Management Framework* – for which *6 Alpha* were the lead technical author. Whilst the term "Risk" can be justifiably used at this stage, the reader should note that the "Consequence" function of "Risk" is not considered.

There are two prospective outcomes of this report; either the threat level requires a Detailed Threat and Risk Assessment with Risk Mitigation Strategy (Stages 2 and 3 of the *CIRIA C681* framework); or no further action is required. In the former instance *6 Alpha* can advise and support further, as required.

Two figures accompany the report, the first is the Site Boundary which clearly depicts the area covered by this assessment and the second is the Probability of UXO Encounter at the Study Site. The latter will illustrate any variance in the probability of encountering UXO throughout the Study Site.

Document Control

Version	Author(s)	Reviewed By	Recipient
1.0	Beth Skoulding	Laurence Gregory	Mott MacDonald

6 Alpha Associates Limited

2A Woolpit Business Park

Woolpit, Bury St. Edmunds, Suffolk

IP30 9UP

Tel: +44(0) 203 371 3900

Web: www.6alpha.com

Document Scope

6 Alpha Associates Limited (6 Alpha) has been commissioned to provide a UXO Threat Assessment for the Site described as "Salisbury District Hospital", which is centred on *National Grid Reference* 415062, 127249.

Key Findings

During WWII, the Study Site was situated within *Salisbury & Wilton Rural District*, which recorded one HE bomb strike per 100 hectares; this is categorised as a "very low" level of bombing.

Luftwaffe aerial reconnaissance photography did not identify any primary bombing targets on-site nor within a 1,000m radius of the Study Site boundary.

Neither *Air Raid Precaution* (ARP) records nor official bomb damage mapping associated with the Study Site were available. Nonetheless, extensive archival research, in addition to a supplementary analysis of post-wartime mapping and aerial photography, did not identify any evidence of WWII-era bomb strikes and/or bomb damage on-site nor nearby.

An analysis of pertinent historical records supplemented with further *6 Alpha* research noted that the Site was situated immediately east of the *Odstock Hospital* after it was constructed in 1942, becoming the *United States 5th General Hospital*. Primarily utilised to treat *Allied* military personnel, extensive archival research also noted that Prisoners of War (PoWs) were interned across the hospital grounds. In addition, an analysis of official *Odstock Emergency Hospital* site plans indicate that an ammunition store was potentially situated at the hospital grounds, although resolution of the 1942 site plan did not enable a precise location to be identified. One anti-aircraft artillery gun battery was also located immediately to the south-east of the Site during WWII.

Therefore, *6 Alpha* considers the most likely UXO threat at this Study Site are *Allied* AXO/LSA/SAA, whilst *German* HE bombs, IBs and *British* AAA projectiles may pose a residual threat.

Recommendations

Given the historic *Allied* military activity in the immediate vicinity, *6 Alpha* considers it reasonably foreseeable that a UXO contamination threat might have been generated at this Study Site. Consequently, *6 Alpha* recommends:

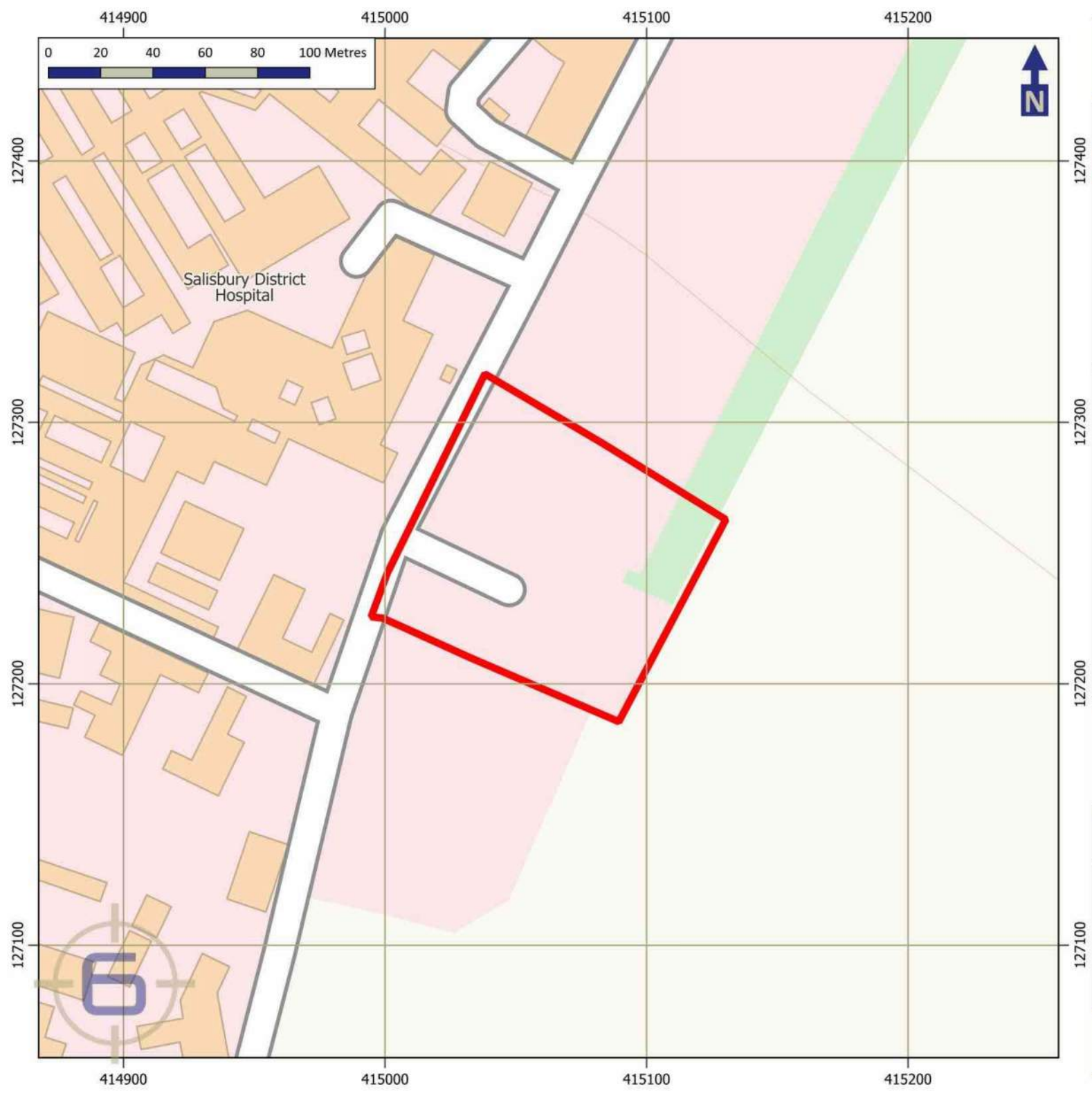
A DETAILED UXO THREAT AND RISK ASSESSMENT IS REQUIRED

Please contact *6 Alpha* for further details.

Constraints

The report is also constrained by the following factors:

1. The assessment levels have been generated from historical data and third-party sources. Where possible *6 Alpha* have sought to verify the accuracy of such data, but cannot be held accountable for inherent errors that may be in third-party data sets (e.g. *National Archives* or library sources);
    a. Nonetheless, *6 Alpha* have exercised all reasonable care, skill and due diligence in producing this report;
2. Whilst every effort has been used to identify all potential UXO/explosive threats, there were a number of private facilities which may not have released privately recorded information concerning UXO/explosive threats into the public domain;
3. This report is accurate and up to date at the time of writing but cannot account for the release of new information, nor for new evidence concerning the potential for a UXO hazard to exist at this Study Site, which is disclosed after the date of the report's release. Should further evidence of UXO sources be found, or if UXO is found at the Site or nearby in the future, then this assessment for the Study Site is to be reassessed and updated by *6 Alpha*.



Site Boundary

BOMB SEARCH

LEGEND

Site Boundary



British National Grid

Address

Salisbury District Hospital

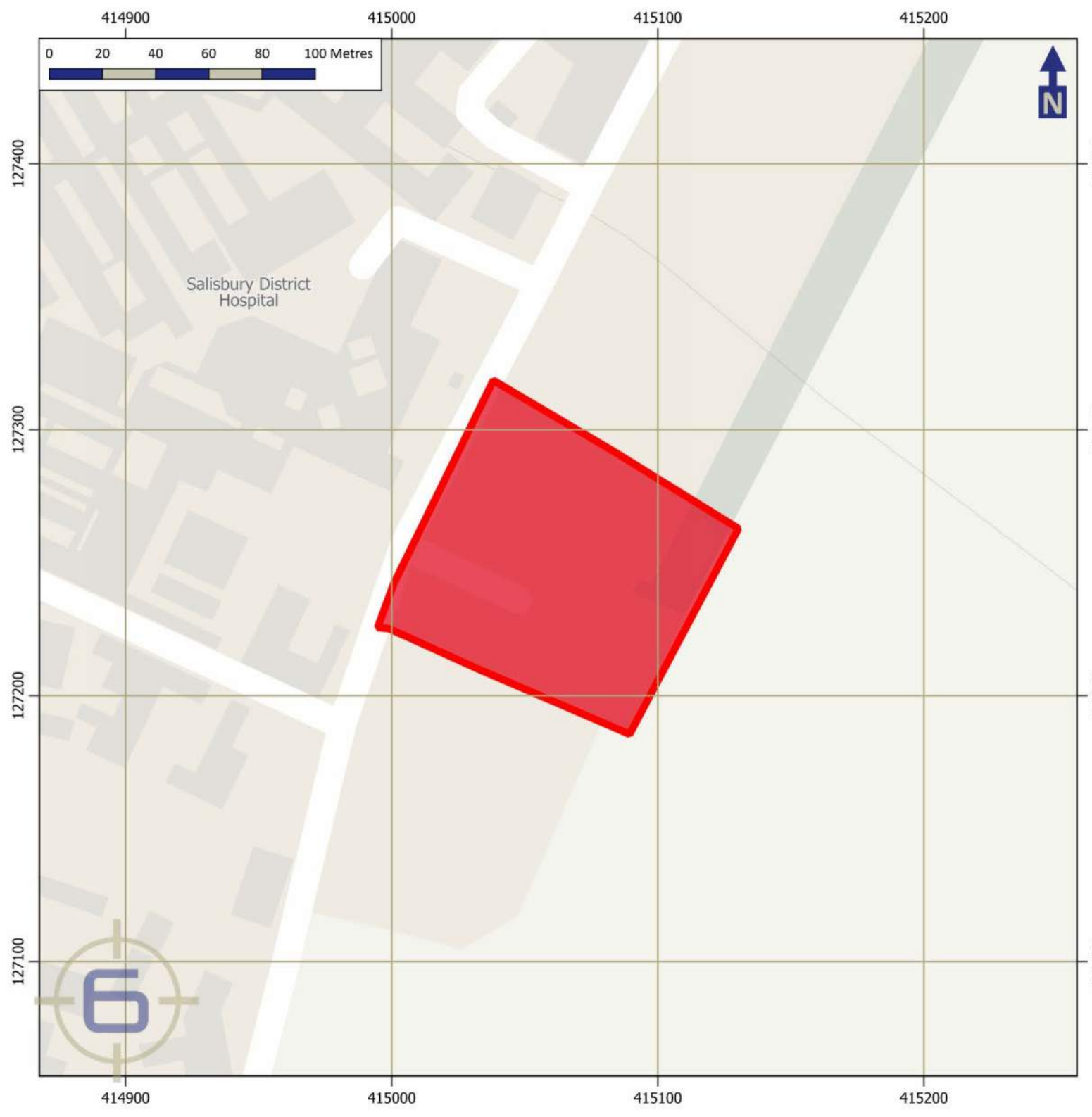
PROJECT NO.	FIGURE	DRAWN	CHECKED	DATE
11902	1	BS	LG	19/05/2025

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special risks consultancy

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Probability of UXO Encounter

BOMB SEARCH

LEGEND

Site Boundary

Probability of UXO Encounter

Likely

Unlikely



British National Grid

Address

Salisbury District Hospital

PROJECT NO.	FIGURE	DRAWN	CHECKED	DATE
11902	2	BS	LG	19/05/2025

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C. Utilities Survey



Salisbury NHS Foundation Trust

PAS Salisbury District Hospital

PAS128 Utility Report

Project no. 4340819

RSK GEOSCIENCES SAFEGROUND

July 2025

RSK GENERAL NOTES

Project No.: 4340819 - R01 (00)

Title: PAS128 Utility Report, PAS Salisbury District Hospital

Client: Salisbury NHS Foundation Trust

Date: 18 July 2025

Status: FINAL

Office: RSK Bristol - RSK Environment Limited, The Old School, Stillhouse Lane, Bristol, BS3 4EB, UK. Tel: +44 (0)1779 471000

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Signature	[redacted]	Signature	[redacted]

Revision control sheet				
Revision ref.	**Date**	**Reason for revision**	**Amended by:**	**Approved by:**
Rev Version No.		First issue	n/a	see above

RSK Environment (RSK) has prepared this report for the sole use of the client, showing reasonable skill and care, for the intended purposes as stated in the agreement under which this work was completed. The report may not be relied upon by any other party without the express agreement of the client and RSK. No other warranty, expressed or implied, is made as to the professional advice included in this report.

Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by RSK for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

This work has been undertaken in accordance with the quality management system of RSK Environment.

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Figure 1 Site Location
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APPENDICES

Appendix A PAS128 QL-D Desk Based Utility Report
Appendix B Equipment Specification Sheets

1 INTRODUCTION

1.1 Introductions

On the instructions of Joshua Dark, Kendall King Scott, RSK Environment Ltd has carried out a buried utility survey in accordance with PAS128:2022 (Publicly Available Standard from BSI) to determine the presence and location of underground utilities for the site located at Salisbury District Hospital, Odstock road, Salisbury.

1.2 Details of the Project

The project was carried out to an agreed brief as set out in RSK quotation reference 4340819-T01(00) dated 7 May 2025, and included the following:

- A PAS128 Type B GPR Utility Survey to Methodology M3P to M1P.
- A PAS128 QL-D Desk Based Utility Report .
- A Factual PAS128 survey report.

1.3 Limitations

Non-intrusive geophysical techniques seek to locate boundaries and buried services across which there is a marked contrast in physical properties. Such a contrast may be detected remotely because it gives rise to a geophysical anomaly, which is indicative of variation in a physical property relative to some background value. Insufficient contrast (including high levels of cultural noise) can result in masking of the sought anomaly. Therefore, there may be other conditions prevailing at the site which have not been revealed by this investigation and which have therefore not been taken into account in this report. It should be accepted, therefore, that the interpretation from remotely sensed geophysical data may be inconsistent with that arising from direct methods of investigation.

Whilst a great deal of detailed data has been gathered by the PAS128 utility survey, the results should be used in the context of all available information regarding the location and depth of buried services, and should not be relied upon as a sole and complete record of the services features present.

A number of areas could not be accessed and as a result were not surveyed. Areas where obstructions were present, or access restricted due to vegetation and unfavourable

ground conditions, were not surveyed and therefore the risk of buried services in these areas remains.

2 THE SITE

2.1 Site Location

Site location details are presented in **Table 1** and an extract of the 1:25,000 Ordnance Survey map showing the location of the site is given in **Figure 1**.

Table 1. Site location details

Site name	Salisbury District Hospital
Full site address and postcode	Odstock Road, Salisbury, SP2 8BJ
National Grid reference (centre of site)	SU 150 272

2.2 Site Description

The site boundary and current site layout are shown on **Figure 2**. The site covers an area of c. 3.3 hectares. It is currently occupied by car parking and helipad for the Sailsbury District Hospital and an adjacent green field.

3 THE SURVEY

3.1 Objective and Geophysical Approach

RSK Geophysics (part of RSK Environment Ltd) was commissioned by Salisbury NHS Foundation Trust ('the Client') to determine, using non-intrusive geophysical techniques, the location and depth of buried utility infrastructure within the site boundaries.

The survey methodology included the following:

- Desk Study in accordance with PAS128 Survey Type D;
- A cover lifting exercise in accordance with PAS128 Survey Type A of all inspection covers;
- An Electro Magnetic Location (EML) survey of services in accordance with PAS128 Survey Type B;
- A Ground Penetrating Radar (GPR) survey comprising of 400 MHz antenna to determine features in the ground up to 2 m depth. A GPR survey line spacing and post processing of data will provide a PAS128 M3P to M1P survey level.
- Reporting including drawings in 2D AutoCAD and PDF formats, with reference grid and levels to OSGB36 and Ordnance Datum.

The geophysical fieldwork was conducted between 30th June to 4th July 2025.

The fieldwork was conducted by Alexandar Monks, Chris Monks, Matthew Bayliff, Jack Barr-Baxter, and Marcus Lawrence in dry conditions.

3.2 Desk Study of Information

The desk study and analysis has been undertaken in accordance with PAS128 Survey Type D. The desk-based report is presented in **Appendix A** (provided under separate cover) and should be read in conjunction with this report. For a full list of the statutory utility providers searched and information received please refer to the desk-based report.

All available documents have been used where appropriate to aid in the production of the final interpretation of all buried services shown in **Figure 3.**

3.3 PAS128 Ground Penetrating Radar Buried Utilities Survey

RSK SafeGround surveyors undertook a survey of buried services within the area utilising passive and active Electro-Magnetic Location (EML) techniques. The equipment used was the Radiodetection tool RD8100 (see equipment specifications in **Appendix B**). The RD8100 was used in conjunction with a signal generator and tracer cable as appropriate.

The GPR survey was undertaken across the full extents of survey area where access allowed. A GSSI GPR system was used on site with a 400 MHz antenna, which provided depth penetration of up to 1.50 metres below ground level (mbgl) (see equipment specifications in **Appendix B**). RSK hold an OfCom licence, as required under law to operate GPR equipment in the UK. GPR data were collected over an orthogonal grid of closely spaced lines at 1 to 5 metre intervals (M3P to M1P in PAS128). All GPR data were recorded on site and post-processed and interpreted off site to identify the reflections indicative of buried utilities. Data were imported into the specialist-processing package RADAN where a number of processing algorithms were applied to enhance the signal from depth, and better define the signal of interest. Data were interrogated in 3D data cube format and also in profile form to best identify signals consistent with those derived from buried utilities.

Reflections indicative of other subsurface features were also identified. Where access was restricted, a note has been placed on the drawings. The location of all the GPR survey lines collected were located using a high precision GPS with grids rectified to the site plan. The GPR theory is summarised in **Plate 1** below.

The extent of the area covered by the GPR survey are outlines in teal in **Figure 2**.

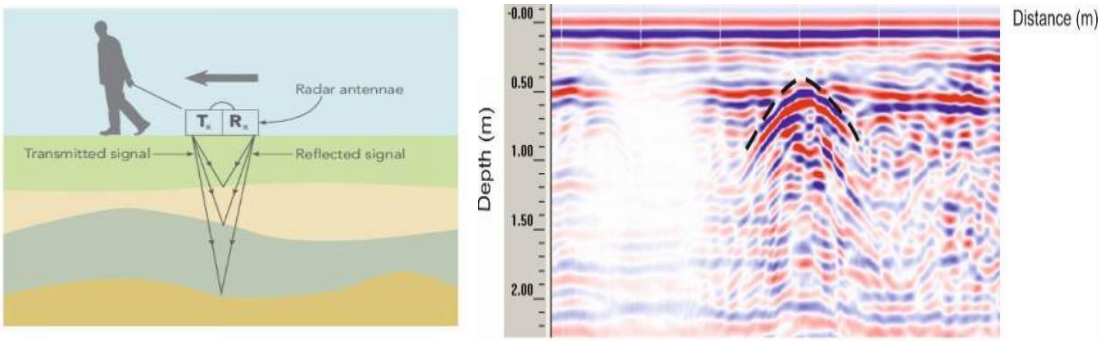


Plate 1. *GPR theory (left) and example GPR data collected over a buried utility (right)*

The results of the EML survey were recorded with a high precision GPS and overlain onto a topographic survey provided by the RSK. GPR data and results from the desk-based survey were rectified to the same plan, and the results of the two surveys combined to produce an integrated drawing in CAD format. Utilising these techniques, we have attained quality level (QL) B1P to B3P results in areas where the GPR was deployed and B2 to B3 outside of these areas, as per PAS128 specifications.

The model and serial numbers, where applicable, of the equipment used on site are as follows:

Table 2. Equipment details

GSSI SIR 4000 GPR console and Kart	Kit 1: SN# 72 (console), SN 1840 (antenna) Kit 2: SN# 31 (console), SN 1243 (antenna)
RD8100 and signal generator	Kit 1: SN# 10/82-GB-255 SN# 10/TX-10-GB1226 Kit 2: SN# 10/82-GB-89 SN# 10/TX-5-1280
Leica Smart Rover	Antenna SN# 1857072 Controller SN# 2916112
Trimble GNSS	Antenna SN# 6429746236 Controller SN# JAJ242610100

4 PAS128 DETECTION SURVEY RESULTS

4.1 PAS128 Data Accuracy

An e-transmit containing the DWG 2D model of the results and associated files has been sent along with this report. The results are also presented in **Figure 3**. They have been classified according to PAS128 specifications. A brief summary of the classification is in **Table 3** below.

Table 3. Summary of PAS128 Levels of accuracy

PAS128 Class.	Horizontal Accuracy	Vertical Accuracy	Description
A	+/-50mm	+/-50mm	Services that have been verified and recorded in manholes that have been lifted and detailed.
B1P	+/-150mm or +/-15% of detected depth	+/-15% of detected depth	Services that have been detected in either the GPR data and through EML on site within the processed GPR extents; both depth estimates and horizontal location are confidently established to the required accuracies. Symmetrical EML field achieved resulting in peak & null measurements within B1 tolerance.
B2P	+/-250mm or +/-25% of detected depth	+/-40% of detected depth	Services that have been detected in either the GPR data or through EML on site within the processed GPR extents; both depth estimates and horizontal location are confidently established to the required accuracies. Symmetrical EML field achieved resulting in peak & null measurements within B2 tolerance, and/or present in the GPR data.
B3P	+/-500mm	Undefined	Services that have been detected by one geophysical technique but have no reliable depth measurement within the processed GPR extents.
B4	Undefined	Undefined	Services assumed from the statutory service plans and cannot be detected or positively identified through the geophysical techniques used.
B2-3	Same as B2P or B3P	Same as B2P or B3P	Same Classification as B2P and B3P except the services are detected outside the area covered by the processed GPR.

4.2 GPR Data Quality

The GPR data were mixed quality. Good quality data present in areas such as the car park with clear hyperboles identifiable and signal to depth. Poor data was present on the helipad due to the rebar's causing a scattering and degradation of the GPR signal below the rebar and has therefore reduced the data quality in these areas (shaded purple in the results plan).

GPR calibration checks were carried out on site as per RSK Technical Procedure document *TP900* and included the following:

- Air wave test – the antenna was raised away from the ground surface and the signal checked to make sure the increasing air gap between the antenna and the ground was observed.
- Noise test – the signal was checked for poor quality/'snowy' data.
- The antenna was passed over a known change in surface or discrete feature to ensure that a detectable response was recorded within the radargram; and
- A trial survey line was recorded over a known distance to confirm that the odometer had been calibrated correctly.

All GPR data have been recorded and are available for review and audit.

Example GPR data is shown in **Plate 2** below**.**

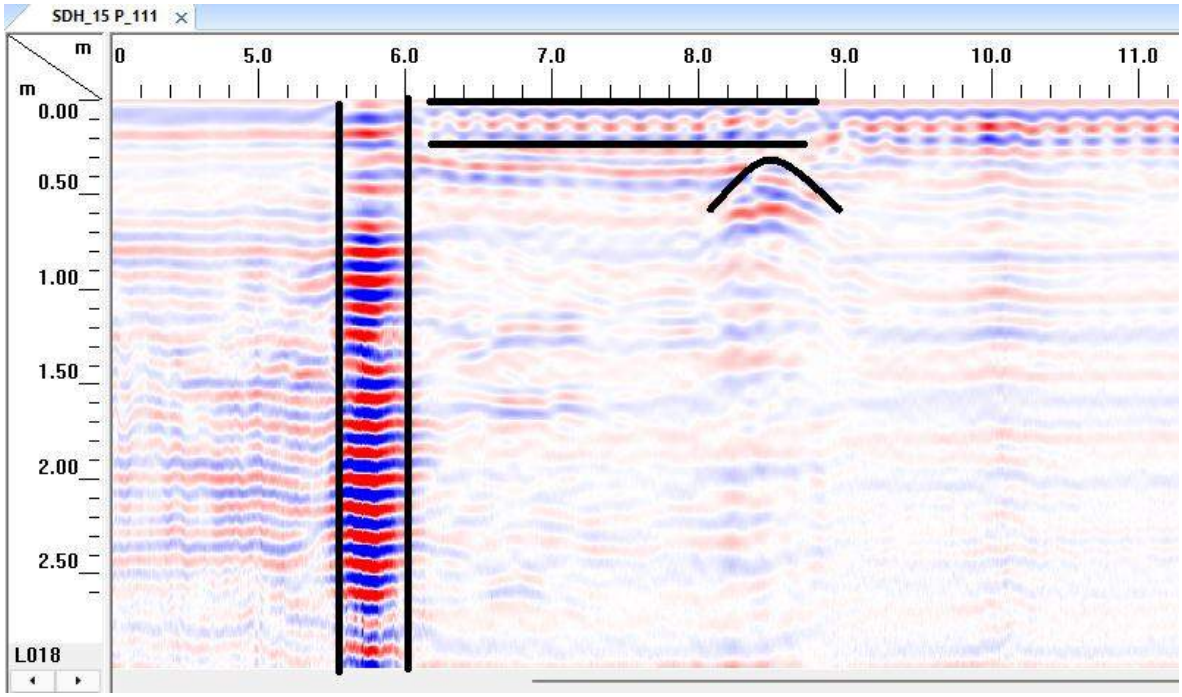


Plate 2. *Example GPR data collected from the helipad showing surface arco drainage, a linear feature and rebar*

4.3 Cover Lifting/EML results

A complete electro-magnetic location (EML) survey of the survey area was undertaken utilising passive and active techniques. The equipment used was a Radiodetection Tool (RD8100). Active (EML) techniques include using a signal generator to induce a signal onto all accessible services that can be traced using the RD8100 from the surface. This technique is particularly useful for identifying electric cables, communication cables, metallic water and gas pipes.

Where possible, all relevant, accessible manhole covers within the survey area were lifted, and the type, size, depth, invert level and direction of flow were recorded as appropriate. Chamber sizes were recorded. This information has been included on the final drawings. Services present on site included electrics, surface water drainage (SW), foul water drainage (FW), Traffic Control Signal Units (TCSU) and telecommunications. Where a service or duct could not be traced it has been labelled as unable to trace (UTT) or “Blocked” depending on the findings during the site works.

Inspection covers were raised to access services directly in order to trace them across the site. 2 No. inspection cover (IC) could not be lifted. These has been marked on the drawing as “UTR” (unable to raise).

Service records (see **Appendix A**) have been used to identify any unknown services where possible. Where service records show an asset to exist that has not been detected during the survey the records information has been added to the drawing as 'Assumed from records (B4)'.

All the information derived from the geophysical survey (GPR, EML, cover lifting survey, visual inspection, and statutory drawings) has been collated, combined, and is included on the final integrated drawing shown in **Figure 3**, Sheets 1 to 8.

4.3.1 Electrics

Electrics have been traced passively and through direct connection in discrete areas of the survey area, notably running between lampposts within kerbs in the car park. Further electric feeds were traced passively forming a loop around the helipad. Service records provide no information on electric feeds present on this site.

4.3.2 Drainage

Records indicate a foul water running north east from the south west of the site and leaving site. A foul water run may have been identified in the GPR data to the north west of the site; both the GPR linear feature and the foul water record lines have been marked on the drawing to highlight the possibility that the GPR feature is independent of the FW run.

In areas where the foul water was not detected on site and have been included on the drawing are marked as "Assumed from records (B4)".

Three surface water (SW) drainage inspection chambers were identified on the north of the site, flowing north east. Several gullies connected to drainage channels running west to east in the south car park were traced with surface water drainage exiting site from both the south and east. 3 No. Gullies in the south of site was blocked and unable to be traced. The routes of the gullies have been assumed where possible.

4.3.3 Telecoms

Miscellaneous

Telecommunication cables were found within 2 No. ICs. It was not possible to identify service providers on site. No further information is available in the service record drawings.

TCSU

TCSU were found on site within 6 No ICs. Cable runs were traced following the west site boundary and small loops around barriers associated with car park entrance and exits.

4.4 GPR Results

The GPR survey was undertaken across the full extents of survey area described to us, where access allowed, within the area shown in **Figure 2**.

Good (high confidence) linear GPR features indicative of likely buried services are marked in dark green, and possible (lower confidence) linear features are marked in lighter green. A feature which is marked as high confidence usually exhibits a consistent shape, depth and position in many consecutive GPR radargrams. A lower confidence feature often exhibits some of previous traits listed but not all, for example, a feature may only be seen in 3 or 4 radargrams rather than 5+ consecutive radargrams. Similarly, the shape of the feature may change but the position may stay constant. Lower confidence features may represent tree roots or other linear buried feature such as remnant services or buried foundations or be an effect of disturbed ground. All GPR linear features are detected to B2P level.

Where the linear feature is not associated with EML features or correlates with statutory records, it is not possible from the GPR data alone to determine to determine service type or whether the service is in use. It should be assumed that all features are active until proven otherwise by intrusive means.

Other GPR detected buried features such as areas of disturbed ground (possibly made or re-worked ground) were identified in the GPR data are marked and hatched in a light brown. Areas of reinforced concrete are shown with purple hatching.

4.5 Recommendations

It is recommended that ICs that are marked UTR be investigated further to determine and confirm location, depth and type of services that could not be understood from the RSK survey.

Blocked drainage pipes should be jetted and traced. All drainage should be correlated in critical areas by CCTV drainage surveys.

Areas where access was not possible should be cleared of obstructions and surveyed if deemed necessary.

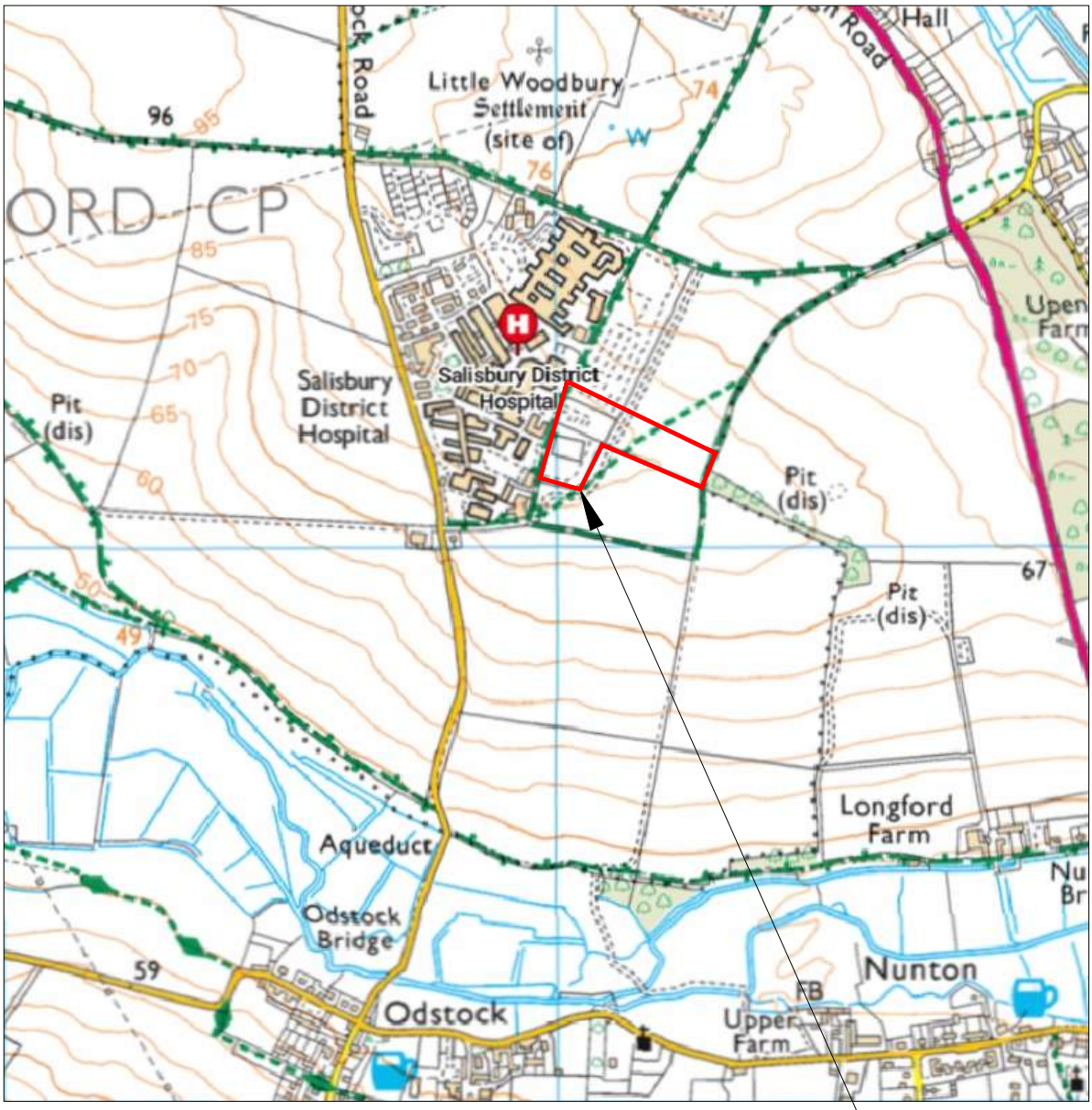
It is recommended that a select representation of GPR anomalies present are investigated further by intrusive means to verify the causative feature and ground conditions present. It is possible that several GPR lines may represent some of the services shown from records, but those services could not be positively identified from the GPR data alone.

Trial excavations are recommended on any critical buried services to confirm their location and depth.

Where assumed lines are shown on the drawing the client should be aware that their position is indicative only.

FIGURES

4340819-SG-XX-00- 2D-U-0001-C01	**Figure 1**	Site Location
4340819-SG-XX-00- 2D-U-0002-C01	**Figure 2**	Site Layout and PAS128 Survey Extents
4340819-SG-XX-00- 2D-U-0003-C01	**Figure 3**	PAS128 Survey Results (8 sheets)



NOTES

(1) Extract from Ordnance Survey 1:25,000 scale map.
(2) Reproduced from Ordnance Survey mapping with the permission of the Controller of His Majesty's Stationery Office. Crown Copyright reserved (Licence No:AL100014807).

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Drawing Title: SITE LOCATION

National Grid Reference: SU 150 272

Client: SALISBURY NHS FOUNDATION TRUST

Drawn	Date	Checked	Date	Approved	Date
DW	11/07/25	CL	16/07/25	CL	16/07/25

Scale	Orig Size	Dimensions
As shown	A4	

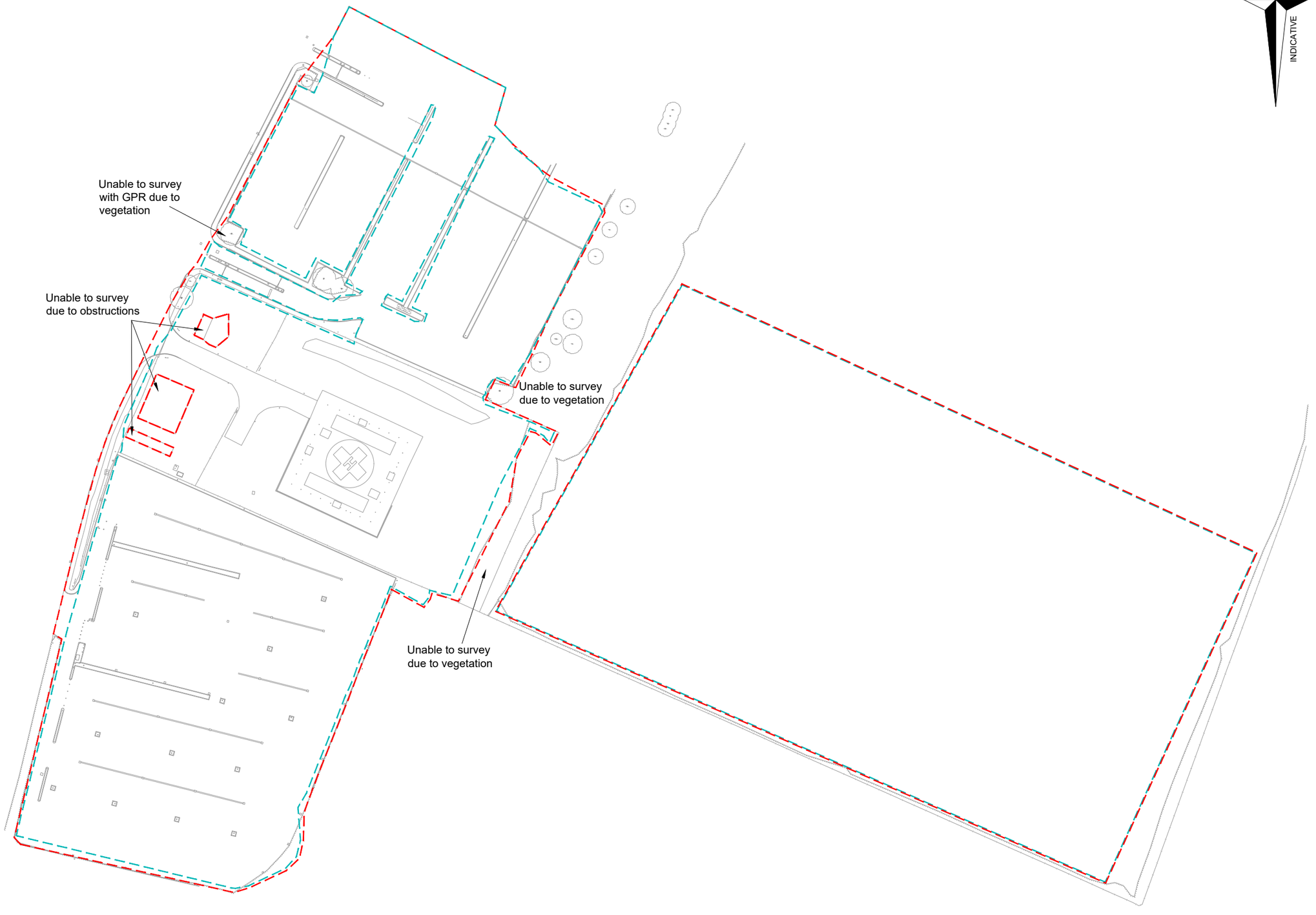
Project Title: PAS SALISBURY DISTRICT HOSPITAL

Project No.: 4340819

Drawing File: 4340819-SG-XX-00-2D-U-0001-C01

Drawing No.: 4340819 Figure 1 Sheet 1 of 1

Rev.: 00



N

NORTH

INDICATIVE

Scale

0 10 20 30 40 50m

NOTES

The specific risks associated with the content of this drawing are considered to be:–

(1) The geophysical results have been overlain onto a topographical baseplan undertaken and supplied by RSK, dwg no. 2321207-TOPO-XX-ZZ-3D-G-0001-C01

KEY

- APPROXIMATE SITE BOUNDARY
- TOPOGRAPHIC FEATURE
- GPR SCAN AREA EXTENTS
- EML SCAN AREA EXTENTS

Rev.	Date	Amendment	Drawn	Chkd.	Appd.

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Client

SALISBURY NHS FOUNDATION TRUST

Project Title

PAS SALISBURY DISTRICT HOSPITAL

Drawing Title

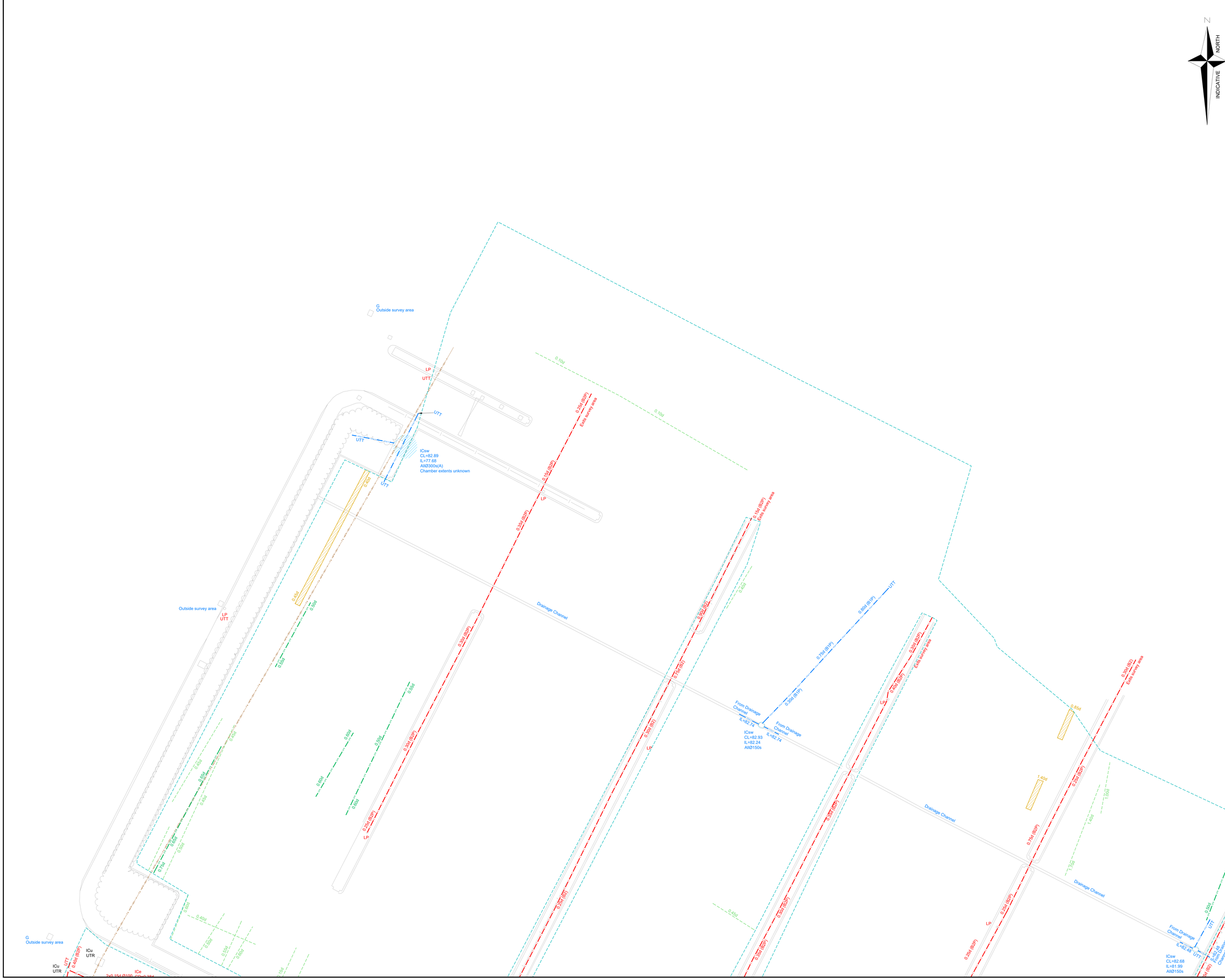
SITE LAYOUT AND PAS128 SURVEY EXTENTS

Drawn	Date	Checked	Date	Approved	Date
DW	16/07/25	CL	17/07/25	CL	17/07/25

Scale	Orig Size	Dimensions
1:1000	A3	

Project No.	Drawing File
4340819	4340819-SG-XX-00-2D-U-0002-C01

Drawing No.	Rev.
4340819 Fig.2 Sheet 1 of 1	00

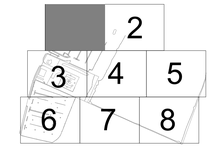


NOTES

The specific risks associated with the content of this drawing are considered to be:

(1) The geophysical results have been overlain onto a topographical baseplan undertaken and supplied by RSK, dwg no. 2321207-TOPO-XX-ZZ-3D-G-0001-C01
(2) The PAS128 GPR utility survey work was completed on 30/06/25 to 04/07/25
(3) Desk Based Service Records were obtained June 2025. Plans and responses can be found in report reference 4340819-DB-R01(00).
(4) Service routes have been identified by visual site inspection, lifting of inspection covers, and traced with electromagnetic locating (EML) techniques.
(5) Thin utility lines represent assumed positions/routes.
(6) Depth to top of pipes/features shown in metres.
(7) A single line may represent multiple services in the same location.
(8) It is recommended that the Client should confirm the location of the geophysical anomalies with hand dug pits within 0.5m to expose buried obstructions and services prior to the commencement of works.
(9) Although every reasonable effort has been made to locate the buried services and obstructions using EML and Ground Penetrating Radar (GPR) techniques, RSK Environment Ltd cannot guarantee that every obstruction has been located.
(10) The GPR utility survey has been carried out to M3P-M1P PAS128 standards.
(11) Services that have been viewed and recorded in all ICs that have been raised and detailed are classified as QL-A.
(12) Services that are marked B1P have been detected by the GPR and EML geophysical techniques.
(13) Services that are marked B2P are detected by one geophysical technique only but are within the area covered by the processed GPR data.
(14) Services that are marked B3P are detected in the EML only, but have a unknown depth.
(15) Services that are marked B4 are assumed from the statutory service drawings.
(16) All GPR detected features are to B2P quality level.
(17) Services that are marked B2 or B3 have been detected by EML only and are outside the GPR scan area.
(18) This drawing should be reviewed with reference to the accompanying PAS128 GPR Utility Survey Report.
(19) Please refer to **Table 3** in the PAS128 Survey Report for detection accuracies.
(20) Please refer to **Figure 2** for the PAS128 Survey Layout.

SHEET.LAYOUT



KEY

- BUILDING
- CHANGE OF SURFACE
- FENCE
- KERB / DROP KERB
- VEGETATION / FOLIAGE
- GULLY
- IC
- SERVICES & STREET FURNITURE
- COMBINED WATER SEWER WITH FLOW DIRECTION
- FOUL WATER SEWER WITH FLOW DIRECTION
- SURFACE WATER SEWER WITH FLOW DIRECTION
- ELECTRIC
- GAS
- METALLIC
- TRAFFIC CONTROLS
- TELECOMS BT
- TELECOMS VODAFONE
- TELECOMS VIRGIN MEDIA
- TELECOMS MISCELLANEOUS
- WATER
- EMPTY DUCT (COLOUR DENOTES SERVICE TYPE)
- VENT PIPE (COLOUR DENOTES SERVICE TYPE)
- GPR LINEAR FEATURE
- POSSIBLE/UNCERTAIN GPR LINEAR FEATURE
- GPR SCAN AREA EXTENTS
- COMBINED WATER SEWER RECORDS WITH FLOW DIRECTION
- FOUL WATER SEWER RECORDS WITH FLOW DIRECTION
- SURFACE WATER SEWER RECORDS WITH FLOW DIRECTION
- ELECTRIC RECORDS
- GAS RECORDS
- TELECOM BT RECORDS
- VODAFONE RECORDS
- VIRGIN MEDIA RECORDS
- WATER RECORDS
- CHAMBER/REINFORCED SERVICE DUCT
- REINFORCING IN CONCRETE SLAB
- GPR DETECTED ANOMALY/DISTURBED GROUND

ABBREVIATIONS

A	APPROXIMATE	ID	INVERT DEPTH
AFR	ASSUMED FROM RECORDS	IL	INVERT LEVEL
BT	BRITISH TELECOM	JB	JUNCTION BOX
CL	COVER LEVEL	LB	LIGHTING BOLLARD
CD	CHAMBER DEPTH	LP	LAMP POST
d	DEPTH (metres)	NFI	NO FURTHER INFORMATION
DBC	DIRECTLY BURIED CABLE	OD	OUTLET DEPTH
DP	DRAIN PIPE	RE	RODDING EYE
ER	EARTHING ROD	RS	ROAD SIGN
ExtØ	EXTERNAL DIAMETER (mm)	RWP	RAINWATER PIPE
FH	FIRE HYDRANT	SF	SOFFIT DEPTH
G	GULLY	SV	STOP VALVE
GL	GROUND LIGHT	TL	TRAFFIC LIGHT
GV	GAS VALVE	TP	TELEGRAPH POLE
IC	INSPECTION COVER	UTR	UNABLE TO RAISE
ICcw	COMBINED WATER IC	UTT	UNABLE TO TRACE
ICe	ELECTRICITY IC	VP	VENT PIPE
ICfw	FOUL WATER IC	WD	DEPTH TO WATER
ICsw	SURFACE WATER IC	WL	WATER LEVEL
ICtcu	TRAFFIC CONTROLS IC	WM	WATER METER
ICtel	TELECOMMUNICATIONS IC	WSV	WATER STOP VALVE
ICu	UNKNOWN IC	Ø	DIAMETER (mm)
ICw	WATER IC		

Rev.	Date	Amendment	Drawn	Chkd.	Appd.

RSK GEOSCIENCES SAFEGROUND

Web: www.RSKGeophysics.com
Email: SafeGround@rsk.co.uk

Client

SALISBURY NHS FOUNDATION TRUST

Project Name

PAS SALISBURY DISTRICT HOSPITAL

Drawing Title

PAS128 M3P-M1P* GPR UTILITY SURVEY

*PAS128 reference, see notes (10-17)

Drawn	Date	Checked	Date	Approved	Date
DW	18/07/25	CL	18/07/25	CL	18/07/25

Scale	Orig Size	Dimensions
1:100	A0	m

Project No	Drawing File
4340819	4340819 -Figure 3

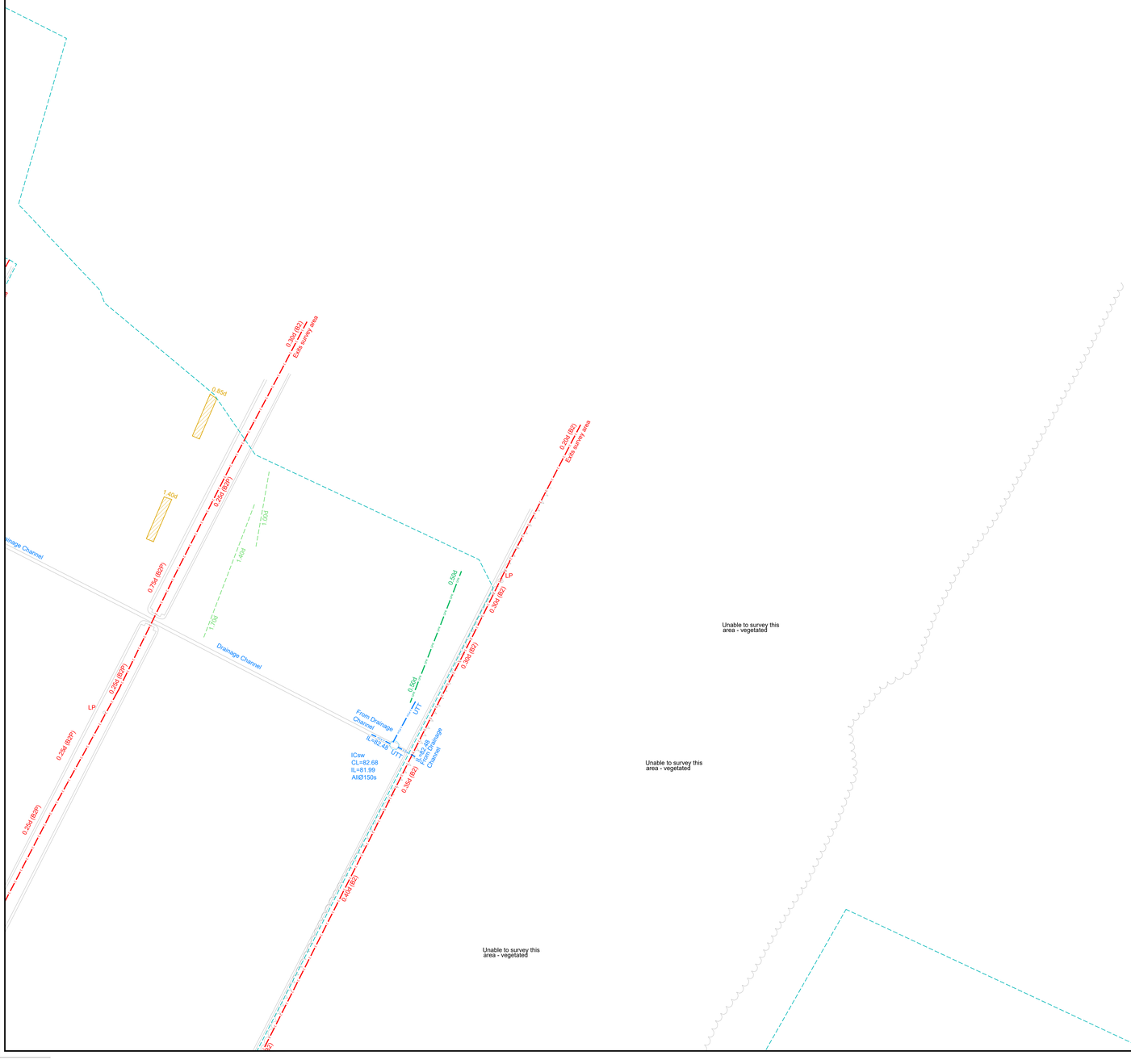
File Name

4340819-SG-XX-00-2D-U-0003-C01

Sheet No.	Rev.
Sheet 1 of 8	00

Scale

0 2 4 6 8 10m



N

NORTH

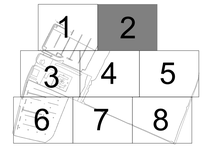
INDICATIVE

NOTES

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SHEET.LAYOUT



KEY

- BUILDING
- CHANGE OF SURFACE
- FENCE
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- VEGETATION / FOLIAGE
- GULLY
- IC
- SERVICES & STREET FURNITURE
- COMBINED WATER SEWER WITH FLOW DIRECTION
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- WATER RECORDS
- CHAMBER/REINFORCED SERVICE DUCT
- REINFORCING IN CONCRETE SLAB
- GPR DETECTED ANOMALY/DISTURBED GROUND

ABBREVIATIONS

A	APPROXIMATE	ID	INVERT DEPTH
AFR	ASSUMED FROM RECORDS	IL	INVERT LEVEL
BT	BRITISH TELECOM	JB	JUNCTION BOX
CL	COVER LEVEL	LB	LIGHTING BOLLARD
CD	CHAMBER DEPTH	LP	LAMP POST
d	DEPTH (metres)	NFI	NO FURTHER INFORMATION
DBC	DIRECTLY BURIED CABLE	OD	OUTLET DEPTH
DP	DRAIN PIPE	RE	RODDING EYE
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ICe	ELECTRICITY IC	VP	VENT PIPE
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ICtcu	TRAFFIC CONTROLS IC	WM	WATER METER
ICtel	TELECOM/UNICATIONS IC	WSV	WATER STOP VALVE
ICu	UNKNOWN IC	Ø	DIAMETER (mm)
ICw	WATER IC		

Rev.	Date	Amendment	Drawn	Chkd.	Appd.

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Client
SALISBURY NHS FOUNDATION TRUST

Project Name
PAS SALISBURY DISTRICT HOSPITAL

Drawing Title
PAS128 M3P-M1P* GPR UTILITY SURVEY
*PAS128 reference, see notes (10-17)

Drawn	Date	Checked	Date	Approved	Date
DW	18/07/25	CL	18/07/25	CL	18/07/25

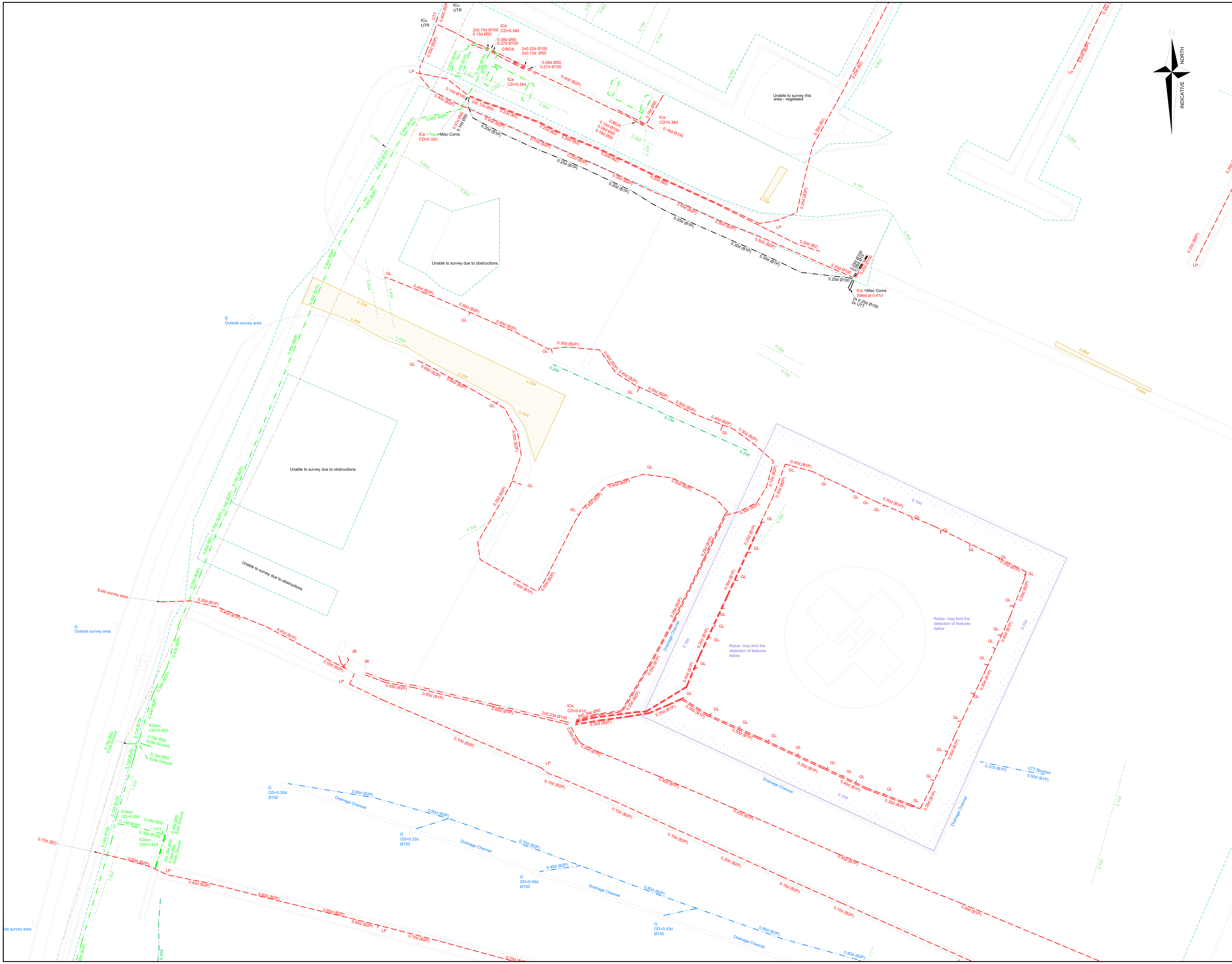
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Project No.: 4340819
Drawing File: 4340819 -Figure 3

File Name: 4340819-SG-XX-00-2D-U-0003-C01

Sheet No: Sheet 2 of 8
Rev.: 00

Scale
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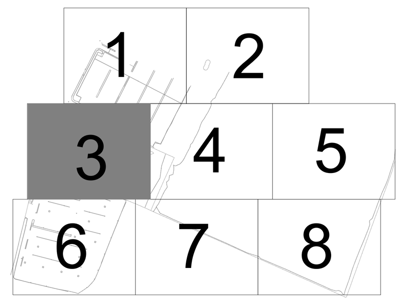


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Rev.	Date	Amendment	Drawn	Chkd.	Appd.

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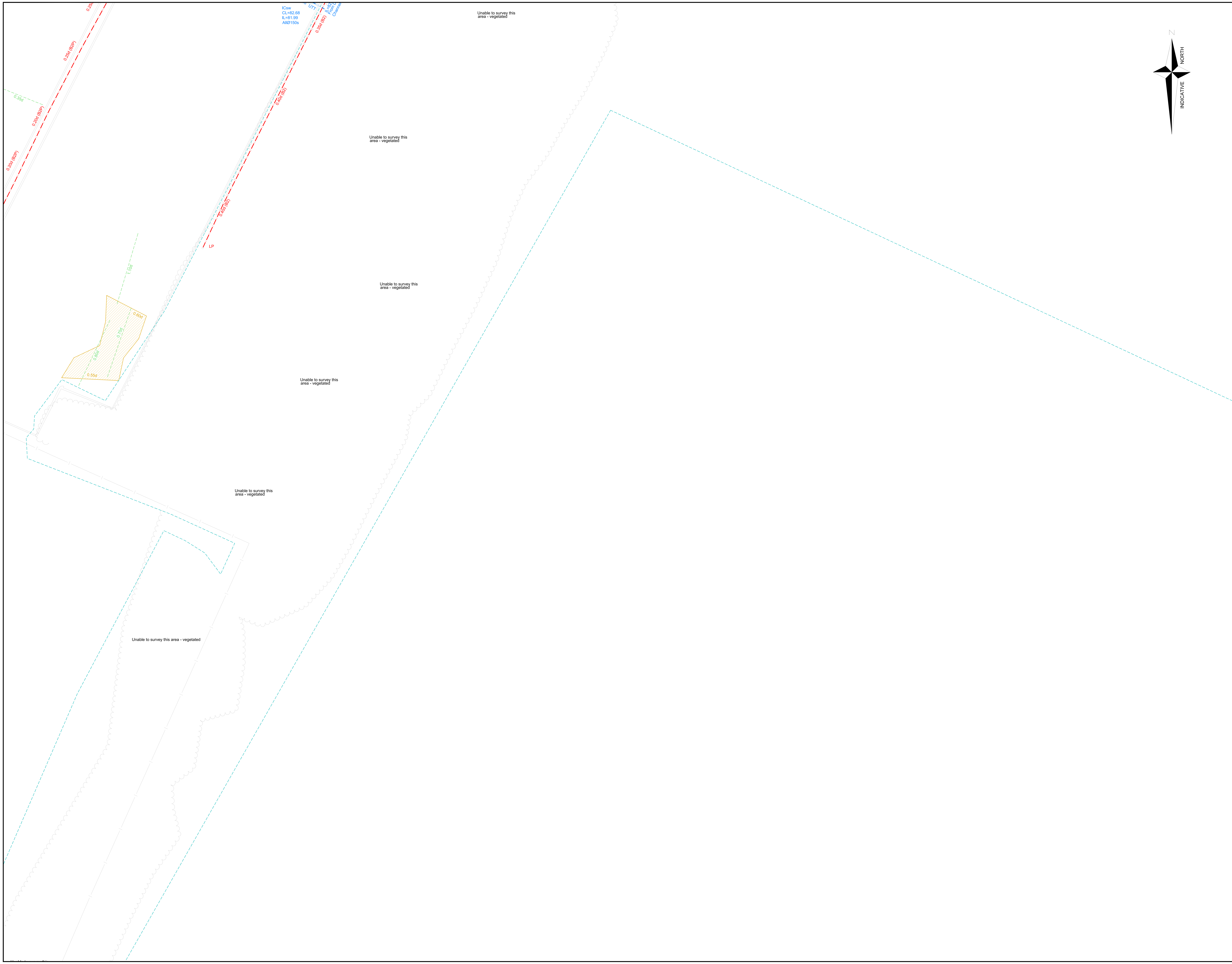
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Project No.	Drawing File
4340819	4340819 -Figure 3

File Name
4340819-SG-XX-00-2D-U-0003-C01

Sheet No.	Rev.
Sheet 3 of 8	00

Scale
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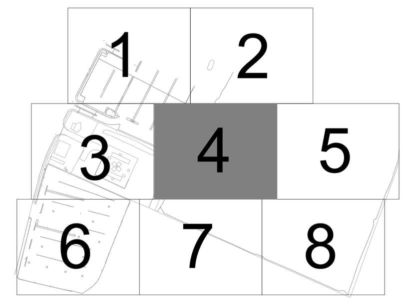


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- CW COMBINED WATER SEWER WITH FLOW DIRECTION
- FW FOUL WATER SEWER WITH FLOW DIRECTION
- SW SURFACE WATER SEWER WITH FLOW DIRECTION
- E ELECTRIC
- GAS GAS
- MET METALLIC
- TCSU TRAFFIC CONTROLS
- BT TELECOMS BT
- VOD TELECOMS VODAFONE
- VIRG TELECOMS VIRGIN MEDIA
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- WTR WATER
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- GPR SCAN AREA EXTENTS
- CW AFR (B4) COMBINED WATER SEWER RECORDS WITH FLOW DIRECTION
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- ELEC AFR (B4) ELECTRIC RECORDS
- GAS AFR (B4) GAS RECORDS
- BT AFR (B4) TELECOM BT RECORDS
- VF AFR (B4) VODAFONE RECORDS
- VM AFR (B4) VIRGIN MEDIA RECORDS
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Rev.	Date	Amendment	Drawn	Chkd.	Appd.

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SALISBURY NHS FOUNDATION TRUST

Project Name
PAS SALISBURY DISTRICT HOSPITAL

Drawing Title
PAS128 M3P-M1P* GPR UTILITY SURVEY
*PAS128 reference, see notes (10-17)

Drawn	Date	Checked	Date	Approved	Date
DW	18/07/25	CL	18/07/25	CL	18/07/25

Scale	Orig Size	Dimensions
1:100	A0	m

Project No.	Drawing File
4340819	4340819 -Figure 3

File Name
4340819-SG-XX-00-2D-U-0003-C01

Sheet No.	Rev.
Sheet 4 of 8	00

Scale
0 2 4 6 8 10m

N

NORTH

INDICATIVE

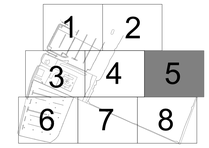
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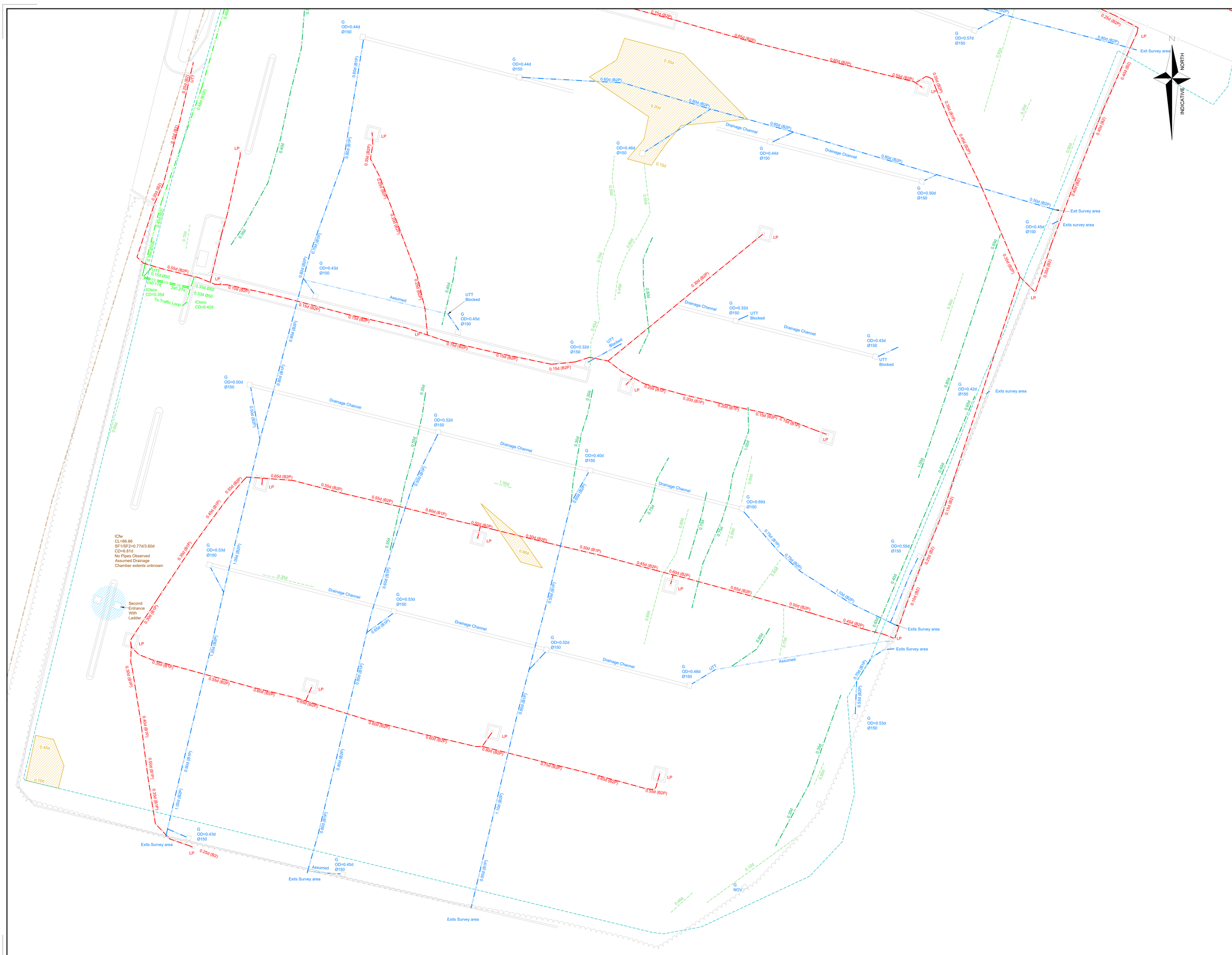
Scale	Orig Size	Dimensions
1:100	A0	m

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Sheet No.	Rev.
Sheet 5 of 8	00

Scale
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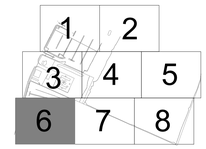


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SHEET.LAYOUT



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- CHANGE OF SURFACE
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- KERB / DROP KERB
- VEGETATION / FOLIAGE
- GULLY
- IC
- SERVICES & STREET FURNITURE
- COMBINED WATER SEWER WITH FLOW DIRECTION
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- METALLIC
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- TELECOMS BT
- TELECOMS VODAFONE
- TELECOMS VIRGIN MEDIA
- TELECOMS MISCELLANEOUS
- WATER
- EMPTY DUCT (COLOUR DENOTES SERVICE TYPE)
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- POSSIBLE/UNCERTAIN GPR LINEAR FEATURE
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- REINFORCING IN CONCRETE SLAB
- GPR DETECTED ANOMALY/DISTURBED GROUND

ABBREVIATIONS

A	APPROXIMATE	ID	INVERT DEPTH
AFR	ASSUMED FROM RECORDS	IL	INVERT LEVEL
BT	BRITISH TELECOM	JB	JUNCTION BOX
CL	COVER LEVEL	LB	LIGHTING BOLLARD
CD	CHAMBER DEPTH	LP	LAMP POST
d	DEPTH (metres)	NFI	NO FURTHER INFORMATION
DBC	DIRECTLY BURIED CABLE	OD	OUTLET DEPTH
DP	DRAIN PIPE	RE	RODDING EYE
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GL	GROUND LIGHT	TL	TRAFFIC LIGHT
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ICsw	SURFACE WATER IC	WL	WATER LEVEL
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SALISBURY NHS FOUNDATION TRUST

Project Name
PAS SALISBURY DISTRICT HOSPITAL

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PAS128 M3P-M1P* GPR UTILITY SURVEY
*PAS128 reference, see notes (10-17)

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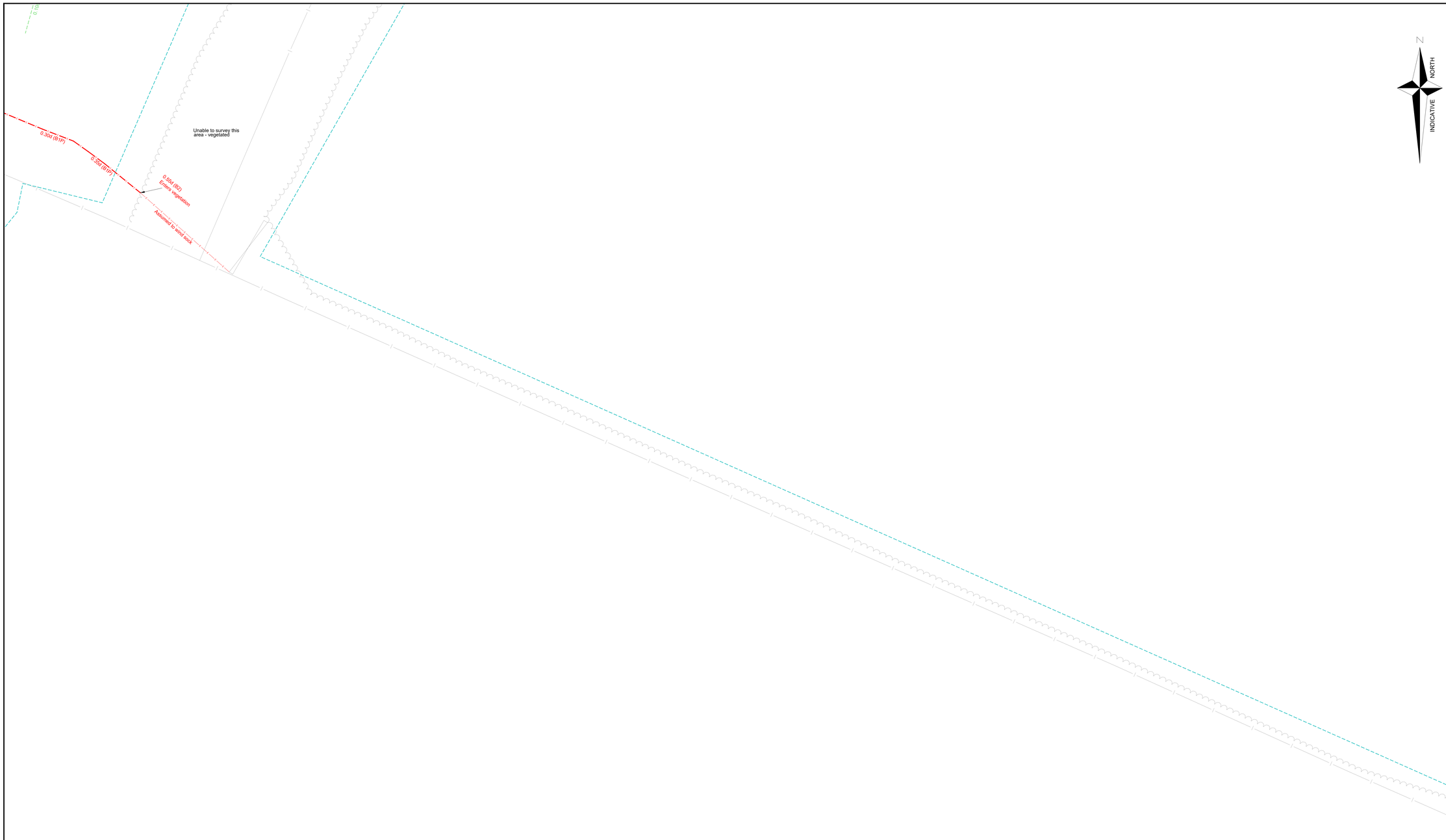
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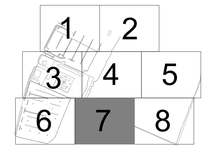


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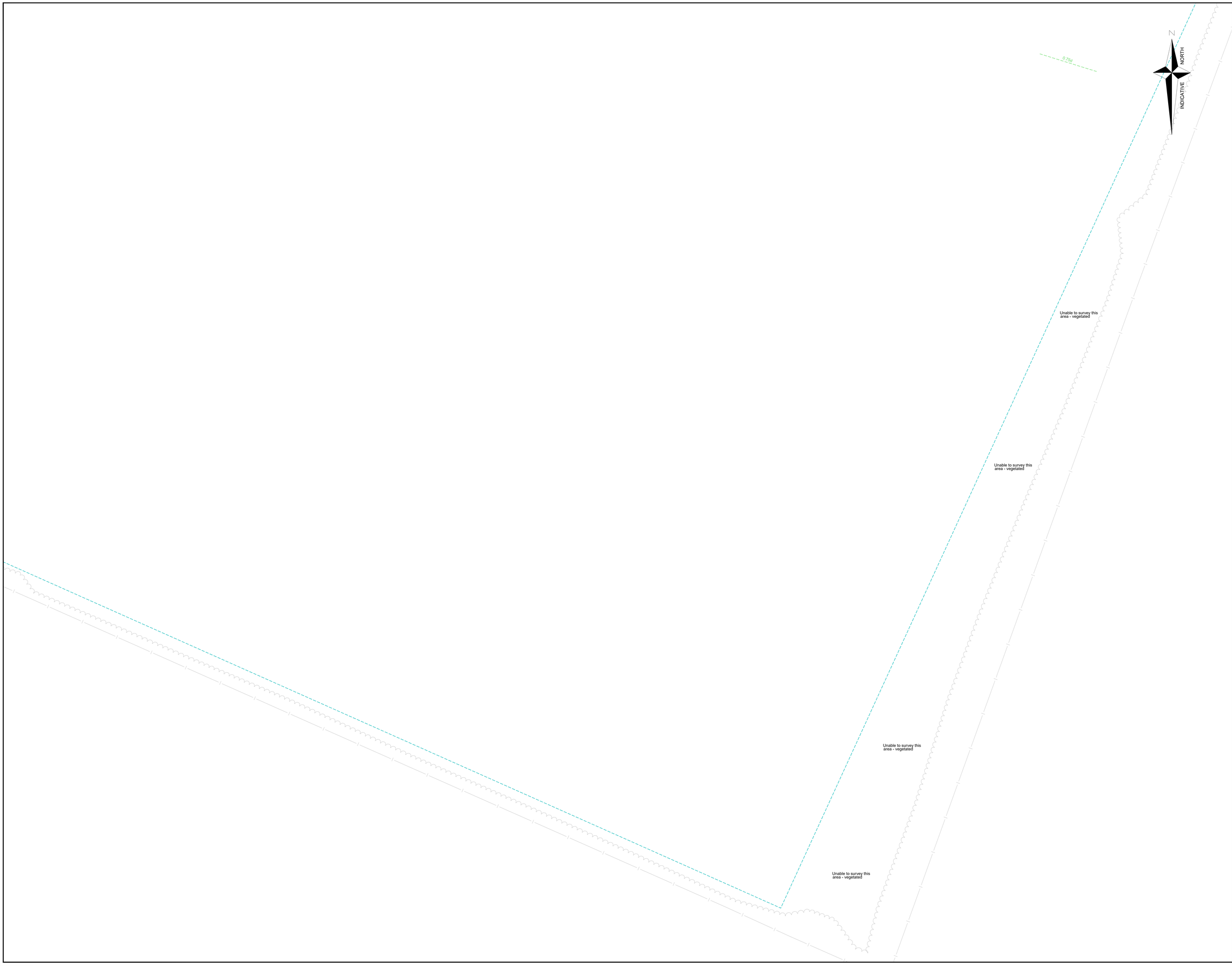
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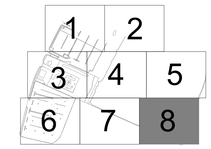


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Scale
0 2 4 6 8 10m

APPENDIX A

PAS128 QL-D Desk Based Report

(RSK Report reference 4340819-DB-R01(00) – Provided under separate cover)

APPENDIX B

Equipment Specification Sheets

GSSI SIR-4000 RADAR

A portable, digital Subsurface Interface Radar System designed for a broad range of environmental, geotechnical, geological and engineering applications.



The SIR® 4000 is GSSI's first high-performance GPR data acquisition system designed to operate with analog and digital antennas. This evolutionary step allows true versatility and flexibility by supporting a wide range of users, beginner to advanced, in numerous applications.

The SIR 4000 incorporates advanced display modes and filtering capabilities for 'in-the-field' processing and imaging. Fully integrated, the system provides a simple user interface, plug-and-play GPS integration, and WiFi enabled data transfer capabilities.

The SIR-4000 is compatible with all GSSI antennae; frequencies range from 20MHz to 2.5GHz, thus facilitating a broad range of applications.

System	
Antenna Support	Compatible with all GSSI antennas
Number of Channels	Records data from 1 single-frequency antenna or 1 dual-frequency antenna
Data Storage	32 GB
Display	Enhanced 10.4" LED display with internal high brightness, Active matrix 1024 x 768 resolution and 32-bit color
GPS	Data logged internally
Display Modes	Linescan, Linescan plus O-scope, Wiggle trace Full 3D, 256 color bins are used to represent the amplitude and polarity of the signal
Data Acquisition	
Data Format	RADAN™ (.dzt)
Output Data Format	32-bit
Scan Interval	User-selectable, up to 400 scans/sec
Number of Samples per Scan	256, 512, 1024, 2048, 4096, 8192, 16384
Operating Modes	Continuous (time) or survey wheel (distance triggered) or point mode
Time Range	0-20,000 nanoseconds full scale, user-selectable Gain: manual adjustment from -42 to +126 dB Number of segments in gain curve is user-selectable from 1 to 8
Standard Real-Time Filters	Infinite Impulse Response (IIR) - Low and High Pass, vertical and horizontal Finite Impulse Response (FIR) - Low and High Pass, vertical and horizontal
Advanced Real-Time Filters	Migration, Surface Position Tracking, Signal Noise Floor Tracking, Adaptive Background Removal
Automatic System Setups	Storage of an unlimited number of system setup files for different survey conditions and/or antenna deployment configurations
Automatic Antenna Recognition	Automatic recognition of Smart Antennas to allow maximum compliant transmit rate
Languages	
	English, Chinese, Japanese, French
Operating	
Operating Temperature	-20°C to 40°C external (-4°F to 104°F)
Battery	Inspired Energy Ni2040ED, 3 hour runtime*
Transmit Rate	Up to 800 KHz (International), US/Canada and CE rates depend on antenna model
Input/Output	
Available Ports	Antenna inputs analog and digital (one at a time), DC power input, Serial RS232 (GPS port), Accessory connector, HDMI video output, Ethernet to PC, USB 2.0 port, mini USB
WiFi	802.11B/G
Ethernet	RJ45 100BT Ethernet
USB Host	USB host with external keyboard support, USB flash drive support and USB HUB support
Mechanical	
Dimensions	14x10x2.75 in (36x25x7 cm)
Weight	10 lbs (4.53 kg) with battery
Relative Humidity	<95% non-condensing
Storage Temperature	-40°C to 60°C (-40°F to 140°F)

GSSI
SIR 4000 RADAR
SPECIFICATIONS

RSK GEOSCIENCES
GEOPHYSICS

Leica Viva GNSS GS08plus receiver

Datasheet





Built for the Field

Designed for the extreme environments, light-weight and cable-free. The GS08plus receiver is the right choice for a wide range of tasks.

- Integrated 3.5G mobile broadband for high-speed connection in the field
- Optional UHF radio module for RTK data communication
- IP67 and operating temperature –30°C to +60°C
- Tactile, numeric or alpha-numeric rubber keypad
- 2 Megapixel camera (perfectly placed for taking pictures when in hand or mounted on pole)

Proven GNSS Technology

Built on years of knowledge and experience, the GS08plus receiver delivers the hallmarks of Leica GNSS – reliability and accuracy.

- SmartCheck – Constantly evaluates and reverifies your RTK solution to ensure the most reliable RTK measurements
- SmartTrack – best measurement data quality in all environments
- xRTK – delivers more positions in difficult environments

Simply productive Surveying Software

With clear graphics, non-technological terminology and simplified workflows. SmartWorx Viva LT is incredibly easy to use.

- Survey, coding and linework
- Full support of RTCM 3.1 transformation message
- Wide range of apps for all surveying and staking tasks



RSK GEOSCIENCES
GEOPHYSICS

Technical Specifications

Leica GS08plus SmartAntenna	
CS10 / CS15 Field Controller	
Operating System	Microsoft Windows CE 6.0
Processor	Freescale iMX31 533 MHz ARM Core with 512 MB DDR SDRAM
Display	8.9 cm (3.5") 640 x 480 pixel (VGA) colour touch screen, sunlight-readable, backlight
Keyboard	CS10: 26 keys, numeric keypad / CS15: 65 keys, alpha-numeric keypad
Data storage	1 GB internal flash, SD-card slot, CF-card Type I / II slot, USB connector port
Audio	Integrated sealed speaker and microphone
Camera	Integrated 2 Megapixel fixed focus camera
Wireless connectivity	*Bluetooth*® 2.0 Class 2, Wireless LAN 802.11b/g (option), high speed broadband 3.5G GSM & UMTS (option), UHF radio module (option)
Application Software	Leica SmartWorx Viva LT
Standard Software	Internet Explorer Mobile, File Explorer, Word Mobile, Windows Media Player, Camera Software, Online Help
GS08plus SmartAntenna	
GNSS technology	Leica SmartTrack technology: • Advanced measurement engine • Jamming resistant measurements • High precision pulse aperture multipath correlator for pseudorange measurements
No. of channels	120 channels
Satellite signals tracking	GPS: L1, L2, L2C (C/A, P, C Code) GLONASS: L1, L2 (C/A, P narrow Code) SBAS: WAAS, EGNOS, GAGAN, MSAS
User interface	On / Off key. Satellite tracking, *Bluetooth*® communication & battery power LED status indicators
Communication ports	*Bluetooth*® 2.0 Class 2, 8-pin Lemo combined USB / power port
Field controller connection	By *Bluetooth*® or with GEV237 Lemo plug cable
Accuracy (rms) and Reliability[1]	
RTK static mode	Horizontal: 5 mm + 0.5 ppm Vertical: 10 mm + 0.5 ppm Compliant to ISO17123-8 standard
RTK moving mode	Horizontal: 10 mm + 1 ppm Vertical: 20 mm + 1 ppm
Post processing static mode	Horizontal: 3 mm + 0.5 ppm Vertical: 6 mm + 0.5 ppm
Reliability	Better than 99,9 % using Leica SmartCheck technology
Time for initialisation	Typically 6 sec[2]
Position latency	Typically 0.02 sec
Real-time Kinematic Specifications	
RTK data formats	Leica proprietary formats (Leica, Leica 4G), CMR+, RTCM2.x, RTCM3.x, full support of RTCM 3.1 transformation message
Position update rate	1 Hz standard, Optional 5 Hz (0.2 sec)
Network positioning	VRS, FKP, iMAX, MAX, nearest station
RTK base station (option)	Transmit RTCM3 RTK data at 1 Hz (1 sec)
Physical Specifications	
Weight of pole setup	2.60 kg for complete rover setup, including batteries and telescopic pole
Temperature, operating	CS: -30°C to +60°C, GS08plus: -40°C to +65°C, compliance with ISO9022-10-08, ISO9022-11-special, MIL STD 810G Method 502.5 II, MIL STD 810G Method 501.5 II
Temperature, storage	-40°C to +80°C , compliance with ISO9022-10-08, ISO9022-11-special, MIL STD 810G Method 502.5 I, MIL STD 810G Method 501.5 I
Humidity	100 %, compliance with ISO9022-13-06, ISO9022-12-04 and MIL STD 810G Method 507.5 I
Sealed against water, sand and dust	IP67 (CS) / IP68 (GS08plus) according IEC60529 and MIL STD 810G Method 506.5 I, MIL STD 810G Method 510.5 I and MIL STD 810G Method 512.5 I Protected against blowing rain and dust Protected against temporary submersion into water: Max. depth 1,0 m (CS) / 1,4 m (GS08plus)
Vibration	Withstands vibration during operating, compliance with ISO9022-36-05 and MIL STD 810G Method 514.6-Cat.24
Drops	Withstands 1 m drop onto hard surface
Topple over	Withstands topple over from a 2 m survey pole onto hard surface
Functional shock	40 g / 15 to 23 msec, compliance with MIL STD 810G Method 516.6 I No loss of lock to satellite signals when used on a pole setup and submitted to pole bumps up to 100 mm
Power Management	
Supply voltage	Nominal 12V DC, Range 10.5 – 28V DC
Internal power supply Operation time	Removable & rechargable Li-Ion battery, 2.6 Ah / 7.4 V (1x in CS and 1x in GS08plus) 10 hours GNSS only, 7 hours GNSS RTK[3]
Battery charging	2 hours with GKL211 charger or with GEV235 field controller power supply

[1] Measurement precision, accuracy and reliability are dependent upon various factors including number of satellites, geometry, obstructions, observation time, ephemeris accuracy, ionospheric conditions, multipath etc. Figures quoted assume normal to favourable conditions. GPS and GLONASS can increase performance and accuracy by up to 30% relative to GPS only.
[2] May vary due to atmospheric conditions, multipath, obstructions, signal geometry and number of tracked signals.
[3] May vary with temperature, battery age and power of RTK of data link device.

RSK GEOSCIENCES GEOPHYSICS

RADIODETECTION®

RD8100® locator specification

Precision locators



SPX®

RD8100 Locator Specification

1. Product Summary

1.1 Product Descriptions:	Multi-purpose Precision Locator Cable and Pipe Locator Locate System Receiver Multi-function Precision Locator
1.2 Intended Use:	Locating the position / path of buried pipes and cables Detecting and pinpointing insulation faults on buried pipes and cables Creating survey records of buried pipes and cable locations
1.3 Standard Equipment:	Locator Quickstart guide Mini USB 2.0 compliant data cable

2. Performance

2.1 Sensitivity:	6E-15 Tesla 5µA at 1 meter (33kHz)
2.2 Dynamic range:	140dB rms/√Hz
2.3 Selectivity:	120dB/Hz
2.4 Depth measurement precision[1]:	± 3%
2.5 Locate accuracy:	± 5% of depth
2.6 Active Locate filter bandwidth:	± 3Hz, 0 < 1kHz ± 10Hz, ≥ 1kHz
2.7 Start-up time:	<1 second
2.8 Maximum depth readout[2]:	Metric: Cable / Pipe: 30m Sonde: 19.5m Imperial: Cable / Pipe: 98' Sonde: 64'

3. Locate Functions

3.1 Active Locate Modes:	Five: ▪ Peak ▪ Peak+™ (choice of combined Peak & Guidance or Peak & Null) ▪ Guidance ▪ Broad Peak™ ▪ Null
3.2 Gain control	Guidance Mode: Automatic Other modes: Manual gain using "+" or "-" with one touch to return to center (50% of Full Scale)
3.3 Custom locate frequencies	Up to 5 additional frequencies in the range 50Hz to 1kHz at 1Hz resolution

3.4 Active locate frequencies:

Up to 24:

RD8100 MODEL	PXL	PXLG	PDL	PDLG	PTL	PTLG
Custom frequencies	5	5	5	5	5	5
ELF (98/128Hz)			●	●	●	●
512Hz			●	●	●	●
570Hz			●	●	●	●
577Hz	●	●	●	●	●	●
640Hz	●	●	●	●	●	●
760Hz			●	●	●	●
870Hz	●	●	●	●	●	●
920Hz			●	●		
940Hz	●	●	●	●	●	●
1090Hz					●	●
1450Hz					●	●
4kHz (4096Hz)	●	●				
8kHz (8192Hz)	●	●	●	●	●	●
8440Hz					●	●
9.8kHz (9820Hz)			●	●	●	●
33kHz (32768Hz)	●	●	●	●	●	●
65kHz (65536Hz)	●	●	●	●	●	●
82kHz (82000Hz)					●	●
83kHz (83077Hz)	●	●	●	●	●	●
131kHz (131072Hz)	●	●	●	●	●	●
200kHz (200000Hz)	●	●	●	●	●	●

3.5 Sonde Frequencies:

All models: Four
- 512Hz
- 640Hz
- 8kHz (8192Hz)
- 33kHz (32768Hz)

3.6 Fault Find:

Locate insulation sheath faults on pipes and cables to 10cm / 4" accuracy using the accessory A-Frame and a compatible transmitter

RD8100 MODEL	PXL	PXLG	PDL	PDLG	PTL	PTLG
8kHz Fault Find			●	●	●	●
CD Fault Find			●	●	●	●

3.7 Current Direction™ (CD) Signal Pairs:

Confirm operator is following the target pipe or cable with CD arrows and a compatible transmitter

RD8100 MODEL	PXL	PXLG	PDL	PDLG	PTL	PTLG
219.9Hz / 439.8Hz					●	●
256Hz / 512Hz			●	●	●	●
280Hz / 560Hz					●	●
285Hz / 570Hz			●	●	●	●
320Hz / 640Hz			●	●	●	●
380Hz / 760Hz			●	●	●	●
460Hz / 920Hz			●	●		
680Hz / 340Hz					●	●
800Hz / 400Hz					●	●
920Hz / 460Hz					●	●
968Hz / 484Hz					●	●
1168Hz / 584Hz					●	●
1248Hz / 624Hz					●	●
4096Hz / 8192Hz 4kCD			●	●	●	●

3.8 Passive Locate Modes:

RD8100 MODEL	PXL	PXLG	PDL	PDLG	PTL	PTLG
Power	●	●	●	●	●	●
Radio	●	●	●	●	●	●
CPS (Cathodic Protection System)			●	●	●	●
CATV (Cable TV)			●	●	●	●
Passive Avoidance (Combined Power + Radio)			●	●	●	●

3.9 Power Filters™ function:

Switch out of sensitive Power Mode to locate on any of 5 individual mains harmonic frequencies:

HARMONIC	50 Hz regions	60 Hz regions
Primary	50 Hz	60 Hz
3rd	150 Hz	180 Hz
5th	250 Hz	300 Hz
7th	350 Hz	420 Hz
9th	450 Hz	540 Hz

3.10 Information displayed:

- Signal strength - moving bar graph and numeric value
- Mode indication
  (Peak, Null, Guidance, Broad Peak, Peak+ with option of Guidance arrows or Null arrows)
- Line or Sonde locate type
- Proportional left/right indication
- Compass: full 360° line direction indicator
- Accessories in use indication
- Accessory specific custom screen
- Depth and current readout (Line location)
- Depth readout (Sonde location)
- Gain level (in dB)
- Frequency selected
- Battery condition
- Speaker volume
- Operating frequency
- Bluetooth status
- GPS satellites in view (where fitted)
- GPS status (where fitted)
- Configuration menu and submenus
- Software version
- Last calibration date
- Survey measurement counter
- Current Direction mode indicator
- Current Direction arrows
- Fault Find mode indicator
- Transmitter communication status
- Transmitter standby status
- Strike*Alert*™ warning
- Overload warning

3.11 Audio output tones:

Power / Passive Avoidance / Radio modes:
Real Sound™ derived from detected electromagnetic signal

Peak / Peak+ modes and CPS / CATV modes:
Synthesized audio tone proportional to signal strength

Guidance mode:
Continuous tone when locator is to the left of target, intermittent tone when to the right of target

Null mode:
Synthesized Audio tone proportional to signal strength. Low pitch to left of target, high pitch to right of target

Strike*Alert* audio warning:
Audio feedback for menu navigation

3.12 Accessory locate functions:

Locator clamps: Used to identify individual target cable(s) in a bundle or cabinet using signal strength read-out

Stethoscopes: Used to identify individual target cable(s) in a bundle or confined space such as a cabinet using signal strength read-out

CD / CM clamp: Used to measure locate current and to confirm target cable using Current Direction

4. Locate Function Enhancements

4.1 Strike*Alert*:	Audio and visual warning when a cable or pipe less than 30cm deep is detected. Operates in Active and Passive locating modes
4.2 Dynamic Overload Protection™:	40dB, automatic ▪ Automatically manages the system gain to compensate for strong signals e.g. from mains power or substations, to enable accurate locating
4.3 Current Direction™ (CD):	▪ Measures the direction of current flowing in buried pipes or cables to ensure that an operator is able to identify and follow the target utility ▪ Provides operator with arrows indicating the direction of current flowing in the located pipe or cable to confirm that they are following the target utility
4.4 iLOC™:	Metric: Remote transmitter control from up to 450m away[3] Imperial: Remote transmitter control from up to 1400' away[3] Control transmitter frequency, power level and SideStep
4.5 SideStep™:	Enables locating where other signals are interfering, and without compromising the optimum locate frequency Remotely shifts the locate and transmitter frequency by several Hz, out of the bandwidth of other locate signals that may be interfering with the locate
4.6 Simultaneous depth and current readout:	Both utility depth and locate signal current are displayed simultaneously, giving the operator more information to help them to follow the target utility
4.7 Survey Measurements:	Store up to 1,000 survey points within the locator, and append GPS data from internal GPS (if fitted) or external GNSS sources over Bluetooth® Export data immediately or as a batch over Bluetooth
4.8 Fault Find:	Apply a Fault Find signal with a Tx-5 and Tx-10 transmitter, then use an accessory A-Frame to detect and pinpoint insulation faults Fault find accuracy: Metric: 100mm Imperial: 4"
4.9 4kHz locate frequency and 4kHz CD:	Designed for tracing higher impedance lines such as twisted pair telecoms or street lighting over distance Combine with Current Direction to help trace the target utility through dense or complex infrastructure
4.10 Peak+ mode:	Use the accurate Peak bargraph, and add either proportional Guidance arrows for faster locating, or Null arrows to check for the presence of distortion
4.11 Integrated GPS option:	Faster surveying using integrated GPS – no need for a separate hand-held device

5. Configurability

5.1 Option selection:	All options can be enabled or disabled on the locator or using the RD Manager PC software
5.2 Languages supported:	Fourteen: English, French, German, Dutch, Polish, Czech, Slovakian, Spanish, Portuguese, Swedish, Italian, Turkish, Russian, Hungarian
5.3 Mains power network options:	50 Hz or 60 Hz
5.4 Mode selection:	All locate modes with the exception of Peak Mode can be individually enabled or disabled
5.5 Active frequency selection:	All active frequencies available can be individually enabled or disabled
5.6 Passive mode selection:	All passive modes can be individually enabled or disabled
5.7 Strike*Alert*:	Enable / disable
5.8 Peak+ arrow selection:	Guidance arrows or Null arrows Selected using the locator menu or with a long press of the antenna key
5.9 GNSS ('GPS') settings:	Internal / External (connect over Bluetooth) / Off / Reset SBAS On / Off
5.10 Bluetooth:	On / Off
5.11 Data export protocols supported:	PPP / choice of 3 ASCII formats. Optionally append positional data
5.12 Time / date setting:	Correct or update locator real-time clock using the RD Manager PC software or GNSS signals
5.13 CD Reset:	Reset CD phase analysis with a single long press of the frequency key

6. Connectivity

6.1 Wireless connections:	**Bluetooth class 1**
6.2 iLOC™ remote transmitter control range[3]:	**Metric: Up to 450m** **Imperial: Up to 1400'**
6.3 iLOC remote transmitter control functions:	**Set transmitter frequency** **Set transmitter power output level** **Transmitter standby** **SideStep**
6.4 Wired connections	**Mini-USB:** Connect to a PC to configure and update locator, and to retrieve usage log and survey measurement data **3.5mm Stereo jack:** Connect wired headphones **Accessory port:** Connect Radiodetection accessories

7. Data capabilities and GNSS ('GPS')

7.1 On-board GNSS ('GPS') module option:	**GNSS data automatically added to Survey Measurements every time locate data is saved, and every second on usage-logging data** **Accurate to 3m CEP with SBAS enhancement available** **Links to GPS, GLONASS and Galileo networks** **Positional data enhancement systems (where available)** ▪ **WAAS – North America** ▪ **EGNOS – Europe** ▪ **MSAS – Japan** ▪ **SBAS (satellite based augmentation system)** **SBAS can be enabled or disabled in locator menu**	
7.2 Link to external GNSS ('GPS'):	**Over Bluetooth** ▪ **Connect to an external GNSS enabled device to combine survey measurements with that device's GNSS data on the external device**	
7.3 External GNSS position read-in to locator memory:	**Over Bluetooth from compatible mobile device / PDA running the SurveyCert+™ app.** ▪ **Connect to an external GNSS device to read positional positioning from that device and combine with the locator's survey measurement data on board the locator**	
7.4 Survey measurement capacity:	**Up to 1,000 data records**	
7.5 Survey measurement data captured:	**Standard data:** **Log #** **Survey Reference** **Antenna Mode** **Depth** **Current (mA)** **Frequency in use (Hz)** **Sonde/Line** **Signal Strength (dBμV and %)** **Signal Strength (%)** **Gain Setting (dB)** **Compass (deg)** **Arrow readout** **CD Phase (deg)** **Accessory Type** **Battery level** **Volume** **Overload Flag** **Usage-Logging Units:** **Date and Time**	**With Internal or External GNSS Fix:** **GPS Mode** **GPS Date and Time** **GPS Distance (m)** **Latitude Angle (deg)** **Latitude Direction** **Longitude Angle (deg)** **Longitude Direction** **GPS Fix** **Satellites in use** **Horizontal Dilution** **Altitude Value (m)** **Altitude Units** **Geoid Value (m) and Units** **DGPS Time** **DGPS ID** **Time Reference** **GPS Mode** **GPS Date and Time** **GPS Distance (m)** **Latitude Angle (deg)**

7.6 Survey measurement export options:	Bluetooth – 'live,' per measurement Bluetooth – batch export USB – selectable / batch export
7.7 Bluetooth survey measurement data protocol options:	PPP ASCII (choice of 3 formats) Optional GPS data appended

7.8 Usage-logging and GNSS ('GPS'):

RD8100 MODEL	PXL	PXLG	PDL	PDLG	PTL	PTLG
Usage-logging		●		●		●
On-board GNSS ('GPS')		●		●		●

7.9 Usage-logging memory:	4 GB
7.10 Usage-logging capacity:	Over 500 days, measured at 8 hours use per day
7.11 Usage-logging capture rate:	1/ second

7.12 Usage parameters logged:

Serial number Log reference and id Operating mode Locate frequency Sonde/line Signal strength Gain setting Depth Current Accessory in use Antenna mode Arrows readout Compass angle CD phase Overload status Dynamic Overload Protection Status	Keys pressed Audio status Volume Menu in use Battery status User warnings status Strike*Alert* status Bluetooth status Fault find arrow Sidestep status Language Depth units Power setting Compass setting CD reset status **Logging Units:** Date and time	**With a GNSS fix:** Latitude Longitude Altitude GNSS mode GNSS date and time Horizontal Dilution Geoid DGPS Time and ID Geoid Units GNSS fix Number of satellites Altitude units Time reference

8. Power options

8.1 Alkaline battery options:	2 × D-Cell (MN1300 / LR20) alkaline batteries (standard)
8.2 Rechargeable battery options:	Custom Lithium-Ion (Li-Ion) battery pack 2 × D-Cell (MN1300 / LR20) Nickel Metal Hydride (NiMH) batteries
8.3 Battery run-time (continuous)[4]:	Li-Ion pack: 35 hours 2 × Alkaline D-Cells 13 hours
8.4 Battery chemistry identification:	Lithium-Ion pack: Automatic sensing NiMH / Alkaline: Software switchable
8.5 Charging options (Li-Ion pack):	Mains charger: 100-250 Volts AC, 50/60 Hz Automotive charger: 12-24V DC
8.6 Charging time (Li-Ion pack):	3 hours to 80% from empty with maintenance trickle charging thereafter

9. Physical Characteristics

9.1 Design:	Ergonomic, balanced and lightweight design for comfortable use during extended surveys
9.2 Construction:	Injection Molded ABS Plastic
9.3 Weight:	**With Lithium-Ion battery pack fitted:** Metric: 1.8kg Imperial: 4.0lb **With D-cell alkaline batteries fitted:** Metric: 1.9kg Imperial: 4.2lb

9.4 Ingress Protection rating:	IP65 Protected against dust ingress and jets of water[5] applied from any direction
9.5 Display type:	High contrast custom made monochrome LCD
9.6 Audio options:	Built-in waterproofed speaker 3.5mm headphone socket
9.7 Operating temperature[6]:	Metric: -20°C to 50°C Imperial: -4°F to 122°F
9.8 Storage temperature:	Metric: -20°C to 70°C Imperial: -4°F to 158°F
9.9 Unit dimensions:	Metric: 648mm × 286mm × 125mm Imperial: 25.5" × 11.3" × 4.9"
9.10 Shipping dimensions:	Metric: 700mm x 260mm × 330mm Imperial: 27.6" x 10.2" x 13"
9.11 Shipping weight (with batteries fitted):	Metric: 2.6kg Imperial: 5.7lb

10. RD Manager™ Supporting PC Software

10.1 Operating System Compatibility:	Microsoft® Windows® XP, 7, 8, 8.1, 10, 32 and 64-bit versions
10.2 Locator system compatibility:	Radiodetection RD8100 Precision Locators RD7000+ and RD8000 Cable, Pipe and Marker Locators
10.3 Functions:	▪ Locator configuration ▪ eCert™ remote calibration certification ▪ Factory calibration certificate retrieval ▪ Usage-logging data collation and export ▪ Survey measurements data collation and export ▪ User account management ▪ CALSafe™ maintenance schedule enforcement ▪ Product registration for extended warranty ▪ Locator software update ▪ Contact Radiodetection ▪ Book a service
10.4 Data export formats:	.kml for Google® Maps .csv for database and spreadsheet applications .xls / .xlsx for Microsoft® Excel®
10.5 KML data export options:	Filter usage-logging and survey measurement points on Google® maps. Select data to be tagged. Customize icon type / color, label type / color, line type / color

11. Warranty and Maintenance

11.1 Manufacturer's warranty duration:	3 years standard, on registration
11.2 Recommended calibration and maintenance schedule:	Annual, or at the beginning / end of a lease period if earlier
11.3 eCert remote calibration:	▪ Remote calibration certification using an internet connection to Radiodetection ▪ Recommended schedule: annual, or at the beginning / end of a lease period
11.4 CALSafe™:	▪ Can be enabled to prevent the locator operating when beyond a defined calibration / maintenance schedule ▪ Disabled by default ▪ 30-day countdown to calibration due date
11.5 Enhanced Self-Test:	On-unit Applies test signals to locate circuitry to confirm correct operation, as well as the typical tests for screen and DSP functions. Recommended schedule: weekly, or before each use.

11.6 Storage recommendation:	Store in a clean and dry environment. Ensure all terminals and connection sockets are clean, free of debris and corrosion and are undamaged
11.7 Cleaning:	Clean with a soft, moistened cloth. Do not use ▪ Abrasive materials or chemicals ▪ High pressure jets of water If using this equipment in foul water systems or other areas where biological hazards may be present, use an appropriate disinfectant.

12. Certification and Compliance

12.1 Standards:	
Safety:	EN 61010-1:2010
EMC:	EN 61326-1:2013 EN 300 330-2 (V1.5.1) EN 300 440-2 (V1.4.1) EN 301 489-3 (V1.6.1) EN 301 489-17 (V2.2.1)
Environmental:	EN 60529 1992 A2 2013 EN 60068-2-64:2008 Test Fh ESTI EN 300 019-2-2:1999 (per table 6) EN 60068-2-27:2009 (Test Ea) ESTI EN 300 019-2-2:1999 (per table 6)
12.2 European directives:	R&TTE Directive 1999/5/EC Low Voltage Directive: 2006/95/EC EMC Directive: 2004/108/EC Declaration of conformity is available from www.radiodetection.com
12.3 Radio:	FCC, IC
12.4 Environmental:	WEEE compliant ROHS compliant
12.5 Manufacturing:	ISO 9001:2008

13. Compatible Accessories

	Accessory	Part description	Part number
13.1	Lithium-Ion battery packs	Li-Ion rechargeable battery mains kit (Includes mains charger) Li-Ion rechargeable battery pack (no charger)	10/RX-MBATPACK-LION-K 10/RX-BATPACK-LION
13.2	Lithium-Ion battery chargers	Li-Ion automotive charger Li-Ion mains charger	10/RX-ACHARGER-LION 10/RX-MCHARGER-LION
13.3	Alkaline battery trays	2 × D Cell battery tray (MN1300 / LR20)	10/RX-2DCELL-TRAY
13.4	Transportation and storage accessories – *For combined locator and transmitter*	Soft Carry Bag Wheeled Flight Case Hard Case	10/LOCATORBAG 10/RD7K8KCASE 10/RD7K8KCASE-USA
13.5	Locator signal clamps *– For identification and location of utilities*	Metric: 50mm Locator Clamp Imperial: 2" Locator Clamp Metric: 100mm Locator Clamp Imperial: 4" Locator Clamp Metric: 130mm Locator Clamp Imperial: 5" Locator Clamp CD and Current Measurement Clamp	10/RX-CLAMP-50 10/RX-CLAMP-2 10/RX-CLAMP-100 10/RX-CLAMP-4 10/RX-CLAMP-130 10/RX-CLAMP-5 10/RX-CD-CLAMP

	Accessory	Part description					Part number
13.6	Signal stethoscopes *– To locate and identify individual utilities e.g. within walls, congested areas or when cables/utilities are in close proximity to each other*	High Gain Stethoscope Large Stethoscope Small Stethoscope CD Stethoscope					10/RX-STETHOSCOPE-HG 10/RX-STETHOSCOPE-L 10/RX-STETHOSCOPE-S 10/RX-CD-STETHOSCOPE
13.7	Sondes *Battery powered signal transmitters for tracing or locating non-conductive utilities*		Diameter		Range		Freq (Hz)	
			mm	In	m	Ft		
		S6 Microsonde	6	¼	2	6½	33k	10/SONDE-MICRO-33
		S9 Minisonde	9	3/8	4	13	33k	10/SONDE-MINI-33
		S13 Super Small Sonde	13	½	2	6½	33k	10/SONDE-S13-33
		S18 Small Sonde	18	¾	4	14	33k	10/SONDE-S18A-33
		Standard C-Sonde	39	1½	5	16½	33k	10/SONDE-STD-33
							8k	10/SONDE-STD-8
							512	10/SONDE-STD-512
		Slim Sonde	22	7/8	3.5	11½	33k	10/SONDE-SLIM-33
		Sewer Sonde	64	2½	8	26	33k	10/SONDE-SEWER-33
		Super Sonde	64	2½	15	50	33k	10/SONDE-SUPER-33
		Flexi Sonde	23	7/8	6	20	512	10/SONDE-BENDI-512
13.8	Submersible antennas:	640 / 512Hz Submersible DD Antenna 8kHz Submersible DD Antenna						10/RX-SUBANTENNA-640 10/RX-SUBANTENNA-8K
13.9	FlexiTrace™ *– Use with a transmitter to trace small diameter pipes*	FlexiTrace 50m / 165' FlexiTrace 80m / 260'						10/TRACE50-GB 10/TRACE80-GB
13.10	Flexrods *– Fibreglass rod used for propelling Radiodetection sondes through pipes to trace the path and locate blockages*	Length		Diameter				
		m	Ft	mm	In			
		50	160	4.5	3/16			10/FLEXRODF50-4.5
		80	260	4.5	3/16			10/FLEXRODF80-4.5
		50	160	7	¼			10/FLEXRODF50-7
		100	320	7	¼			10/FLEXRODF100-7
		150	485	7	¼			10/FLEXRODF150-7
		60	195	9	3/8			10/FLEXRODF60-9
		120	390	9	3/8			10/FLEXRODF120-9
13.11	A-Frame *– Used for locating sheath faults on cables and coating defects on pipelines*	A-Frame (includes A-Frame Lead) A-Frame Bag						10/RX-AFRAME 10/RX-AFRAME-BAG
13.12	Headphones	Recommended for use in noisy environments						10/RX-HEADPHONES
13.13	Warning Triangle	Three sided folding warning sign						10/WARNING-TRIANGLE
13.14	PDAs	GPS PDA with SurveyCERT™+						10/RX-PDA
13.15	Calibration Certificates	Locator Calibration Certificate, per unit (request with initial locator order) eCert™ Calibration Credit						97/RX-CALCERT 10/RX-ECERT

● Available feature

All specification are measured in test conditions, at 21°C / 70°F, and fitted with 2 × good quality alkaline batteries unless otherwise noted.

[1] Based on volumetric testing at a known fixed depth. True depth accuracy depends on factors such as ground composition, utility characteristics and the locate frequency / signal strength employed. Always follow local safe digging guidelines.

[2] The RD8100 will locate to greater depths in the right conditions, but depth accuracy will be compromised. Depth measurement will not be displayed beyond these depths.

[3] Tested with clear line-of-sight. Range is dependent on electrical environment and weather conditions. For optimum range, face the locator toward the transmitter and raise the transmitter 2' / 60cm from the ground.

[4] To provide repeatable measurements, run-time is measured with GPS and Bluetooth functions switched to 'off'.

[5] Water projected by a nozzle at a pressure of 30kPa /0.3 bar / 4.4 psi in accordance with BS EN 60529 1992 A2 2013.

[6] At very low temperatures, battery life will be degraded, LCD performance may slow and measurement precision may reduce.

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SPX

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90/RD8100-DATA-ENG/03

Trimble R980

GNSS SYSTEM

Unmatched GNSS performance with connected workflows to elevate survey productivity.



Seamless connectivity. Total confidence.

Productive

Trimble® Inertial Platform™ (TIP™) technology. Calibration-free IMU-based tilt compensation for topo measurements and stakeout.

Trimble ProPoint® GNSS positioning engine. Engineered for improved accuracy and productivity in challenging GNSS conditions.

Trimble CenterPoint® RTX corrections for RTK level accuracy worldwide via satellite or internet.

Connected

Integrated 450 MHz or dual-band 450/900 MHz UHF transceiver.

Integrated worldwide 4G LTE modem.

Internet base station and remote receiver control capabilities.

Bluetooth® and Wi-Fi® data connectivity.

Trusted

Trimble TIP integrity monitoring.

Trimble xFill® correction outage technology.

Trimble IonoGuard™ technology for mitigation of ionospheric GNSS signal disruptions.

Military-spec rugged design and IP-67 rating.

Lithium ion battery with built-in status indicator.

Trimble®

Find out more at:
geospatial.trimble.com/r980

SPEC SHEET

Trimble R980

GNSS system

PERFORMANCE SPECIFICATIONS		
GNSS TECHNOLOGY		
	Constellation agnostic, flexible signal tracking, improved positioning in challenging environments[1] and inertial measurement integration with Trimble ProPoint GNSS technology.	
	Increased measurement and stakeout productivity and traceability with Trimble TIP technology IMU-based tilt compensation	
	Dual Trimble Maxwell™ 7 Custom GNSS chips with 672 channels	
	Trimble EVEREST™ Plus multipath signal rejection	
	Trimble IonoGuard technology for mitigation of ionospheric GNSS signal disruptions	
	Trimble CenterPoint RTX correction service is activated and ready to use for the initial 12 months. Learn more at **rtx.trimble.com**	
	Spectrum Analyzer to troubleshoot GNSS jamming	
	Digital Signal Processor (DSP) techniques to detect and recover from spoofed GNSS signals	
	Iridium filtering above 1616 MHz allows antenna to be used up to 20 m away from iridium transmitter	
	Japanese LTE filtering below 1510 MHz allows antenna to be used up to 100 m away from Japanese LTE cell tower	
SATELLITE TRACKING		
	GPS: L1C, L1C/A, L2C, L2E, L5	
	GLONASS: L1C/A, L1P, L2C/A, L2P, L3	
	SBAS (WAAS, EGNOS, GAGAN, MSAS, SDCM): L1C/A, L5	
	Galileo: E1, E5A, E5B, E5 AltBOC, E6[2]	
	BeiDou: B1I, B1C, B2I, B2A, B2B, B3I	
	QZSS: L1C/A, L1S, L1C, L2C, L5, L6	
	NavIC (IRNSS): L5	
	L-band: Trimble RTX® Corrections	
POSITIONING PERFORMANCE[3]		
STATIC GNSS SURVEYING		
High-Precision Static		
	Horizontal	3 mm + 0.1 ppm RMS
	Vertical	3.5 mm + 0.4 ppm RMS
Static and Fast Static		
	Horizontal	3 mm + 0.5 ppm RMS
	Vertical	5 mm + 0.5 ppm RMS
REAL TIME KINEMATIC SURVEYING		
Single Baseline < 30 km		
	Horizontal	8 mm + 1 ppm RMS
	Vertical	15 mm + 1 ppm RMS
Network RTK[4]		
	Horizontal	8 mm + 0.5 ppm RMS
	Vertical	15 mm + 0.5 ppm RMS
	RTK start-up time for specified precisions[5]	2 to 8 seconds
TRIMBLE INERTIAL PLATFORM (TIP) TECHNOLOGY		
TIP Compensated Surveying[6]		
	Horizontal	RTK + 5 mm + 0.4 mm/° tilt (up to 30°) RMS
	Horizontal	RTX + 5 mm + 0.4 mm/° tilt (up to 30°) RMS
IMU Integrity Monitor	Bias monitoring	Temperature, age and shock
Operation	IMU alignment	Calibration-free and immune to magnetic interference
TRIMBLE RTX CORRECTION SERVICES		
CenterPoint RTX[7]		
	Horizontal	2 cm RMS
	Vertical	3 cm RMS
	Convergence time for specified precisions in Trimble RTX Fast regions	< 1 min
	Convergence time for specified precisions in non Trimble RTX Fast regions	< 3 min
	QuickStart convergence time for specified precisions	< 1 min
TRIMBLE XFILL[8]		
	Horizontal	RTK[9] + 10 mm/minute RMS
	Vertical	RTK[9] + 20 mm/minute RMS

SPEC SHEET

Trimble R980

GNSS system

CODE DIFFERENTIAL GNSS POSITIONING		
	Horizontal	0.25 m + 1 ppm RMS
	Vertical	0.50 m + 1 ppm RMS
	SBAS[10]	Typically < 5 m 3DRMS

HARDWARE		
PHYSICAL		
Dimensions (W×H)	11.9 cm x 13.6 cm (4.6 in x 5.4 in)	
Weight	1.13 kg (2.49 lb) with internal battery, integrated radio and UHF antenna 3.96 kg (8.73 lb) items above plus range pole, Trimble TSC7 data collector and bracket	
Temperature[11]		
	Operating	-40 °C to +65 °C (-40 °F to +149 °F)
	Storage	-40 °C to +80 °C (-40 °F to +176 °F)
Humidity	100%, condensing	
Ingress protection	IP67 for temporary submersion to depth of 1 m (3.3 ft), dustproof	
Shock and vibration		
	Pole drop	Designed to survive a 2 m (6.6 ft) pole drop onto a hard surface
	Shock - Non-operating	To 75 g, 6 ms
	Shock - Operating	To 40 g, 10 ms, saw-tooth
	Vibration	MIL-STD-810H, Fig 514.8C-6
ELECTRICAL		
External	11 to 24 V DC external power input with over-voltage protection on Port 1 and Port 2 (7-pin Lemo)	
Battery	Rechargeable, removable 7.4 V, 3.7 Ah Lithium-ion smart battery with LED status indicators	
Power consumption	4.2–4.6 W in rover mode with internal 450 MHz receive radio	5.4–6.6 W in base mode with internal 450 MHz transmit radio
	4.0 W in rover mode with internal 900 MHz receive radio	4.3 W in base mode with internal 900 MHz transmit radio
	3.7 W in rover mode with internal LTE modem	3.7 W in base mode with internal LTE modem
Operating times on internal battery[12]		
Rover	450 or 900 MHz receive	5.5–6.3 hours
	Cellular receive (Internal or Controller via Bluetooth)	7.0 hours
Base station	450 MHz transmit (0.5 W)	4.7 hours
	450 MHz transmit (1.0 W)	3.7–4.1 hours (1.0 W transmit available only where legally permitted)
	900 MHz transmit (1.0 W)	6.0 hours (900 MHz transmit available only where legally permitted)
	Cellular transmit	7.0 hours

COMMUNICATIONS AND DATA STORAGE		
Radio modem	Fully-integrated, sealed 450 MHz wide band transceiver with frequency range of 410-473 MHz (RED 2014/53/EU compliant) or dual-band 450/900 MHz transceiver (410-473 / 902-928[13] MHz frequency range)	
	Support for Trimble, Pacific Crest, and SATEL radio protocols	
	Transmit power	0.5 W, 1.0 W (1.0 W available only where legally permitted)
	Range	3-5 km typical, 10 km optimal[14]
Cellular[15]	Fully integrated, fully-sealed LTE compliant module with 2G/3G fallback	FDD-LTE: bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 18, 19, 20, 26, 28, 66
		TD-LTE: bands 38, 40
		UMTS (WCDMA/FDD): bands 1, 2, 3, 4, 5, 6, 8, 19
		Quad band GSM: 850, 900, 1800, 1900 MHz
Bluetooth	Fully-integrated, fully-sealed 2.4 GHz Bluetooth module	Bluetooth EDR/BR v5.1
Wi-Fi	Fully-integrated, fully-sealed 2.4 GHz Wi-Fi module	Simultaneous Access Point (AP) and Client modes
Positioning rates	1 Hz, 2 Hz, 5 Hz, 10 Hz, and 20 Hz	
I/O ports	Serial, USB, TCP/IP, IBSS/NTRIP, Bluetooth	
Data storage	9 GB internal memory	
Correction fomats	CMRx, CMR+, CMR, RTCM 2.x, RTCM 3.x (RTCM output not supported for 900 MHz UHF)	
Data outputs	NMEA 0183, GSOF, RT17 and RT27	
Serial	7-pin 0S Lemo, 3-wire RS-232	
USB	USB v2.0, supports data download and high speed communications	

SPEC SHEET

Trimble R980

GNSS system

Web UI	
	Offers simple configuration, operation, status, and data transfer using desktop or mobile web browsers
	Accessible via Wi-Fi, Serial, USB, and Bluetooth
SUPPORTED CONTROLLERS & FIELD SOFTWARE	
	Trimble TSC7, TSC5, Trimble TDC6, Trimble T100, Trimble T7, Android™ and iOS devices running supported apps
	Trimble Access™ 2024.00 and later
	Supports Trimble Internet Base Station Service (IBSS) for streaming RTK corrections using Trimble Access 2023.10 and later
CERTIFICATIONS	
Safety	IEC 62368-1, IEC 60950-1, IEC 62311, IEEE C95.3, UN 38.3, UL 2054
FCC	Part 15 Subpart B (Class B), Subpart C, Section 15.247, Part 90, Part 22/24/27, Part 2, KDB 447498 D01
Canada	ICES-003 (Class B). RSS-GEN, RSS-102, RSS-119, RSS-130, RSS-132, RSS-133, RSS-139, RSS-199, RSS-247
EU	RED 2014/53/EU, EN 300 113, EN 300 487, EN 300 328, EN 301 908, EN 303 413, RoHS Directive 2011/65/EU, WEEE Directive 2012/19/EU
UKCA	S.I. 2017 No. 1206, S.I. 2016 No. 1091, S.I. 2016 No. 1101
ACMA	AS/NZS 4268, AS/NZS CISPR 32
Communications	PTCRB, Bluetooth SIG, AT&T (data-only SIM)
TRIMBLE PROTECTED PROTECTION PLANS	
	Add a Trimble Protected protection plan for worry-free ownership over and above the standard Trimble product warranty. Added enhancements include coverage for wear & tear, environmental damage, and more. Accidental damage is covered with Premium plans, available only at point-of-sale in selected regions. For details, visit **trimbleprotected.com** or contact a local Trimble distributor.

1 Challenging GNSS environments are locations where the receiver has sufficient satellite availability to achieve minimum accuracy requirements, but where the signal may be partly obstructed by and/or reflected off of trees, buildings, and other objects. Actual results may vary based on user's geographic location and atmospheric activity, scintillation levels, GNSS constellation health and availability, and level of multipath and signal occlusion.
2 The current capability in the receivers is based on publicly available information. As such, Trimble cannot guarantee that these receivers will be fully compatible with a future generation of Galileo satellites or signals.
3 Precision and reliability may be subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions. The specifications stated recommend the use of stable mounts in an open sky view, EMI and multipath clean environment, optimal GNSS constellation configurations, along with the use of survey practices that are generally accepted for performing the highest-order surveys for the applicable application including occupation times appropriate for baseline length. Baselines longer than 30 km require precise ephemeris and occupations up to 24 hours may be required to achieve the high precision static specification.
4 Network RTK PPM values are referenced to the closest physical base station.
5 May be affected by atmospheric conditions, signal multipath, obstructions and satellite geometry. Initialisation reliability is continuously monitored to ensure highest quality.
6 TIP references the overall positioning error estimate at the tip of the surveying pole throughout the tilt compensation range. RTK refers to the estimated horizontal precision of the underlying GNSS position, which is dependent on factors that affect GNSS solution quality. The 5 mm constant error component accounts for residual misalignment between the vertical axes of the receiver and the built-in Inertial Measurement Unit (IMU) after factory calibration, assuming the receiver is mounted on a standard 2 m carbon fiber range pole which is properly calibrated and free from physical defects. The tilt-dependent error component is a function of the quality of the computed tilt azimuth, which is assumed here to be aligned using optimal GNSS conditions.
7 RMS performance based on repeatable in field measurements. Achievable accuracy and initialisation time may vary based on type and capability of receiver and antenna, user's geographic location and atmospheric activity, scintillation levels, GNSS constellation health and availability and level of multipath including obstructions such as large trees and buildings.
8 Accuracies are dependent on GNSS satellite availability. xFill positioning ends after 5 minutes of radio downtime. xFill is not available in all regions, check with your local sales representative for more information.
9 RTK refers to the last reported precision before the correction source was lost and xFill started.
10 Depends on SBAS system performance.
11 Receiver will operate normally to -40 °C, internal batteries are rated from -20 °C to +60 °C (ambient +50 °C).
12 Varies with temperature and wireless data rate. When using a receiver and internal radio in the transmit mode, it is recommended that an external 6 Ah or higher battery is used.
13 900 MHz range only available in select regions.
14 Varies with terrain and operating conditions.
15 Due to local regulations, the integrated cellular modem cannot be enabled in China, Taiwan, or Brazil. A Trimble controller integrated cellular modem or external cellular modem can be used to obtain GNSS corrections via an IP (Internet Protocol) connection.

Specifications subject to change without notice.

Made for
- iPhone 13
- iPhone 13 Pro
- iPhone 13 Pro Max
- iPad (9th generation)
- iPad Pro 12.9-in. (5th generation)
- iPad Pro 11-in. (3rd generation)

Made for iPhone | iPad

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ISSUE:	DESCRIPTION:	BY:	DATE:
B	Site off Odstock Road, Nunton	KSB	03/06/25

SCALE:	DRAWN:	CHECKED:	APPROVED:
Not to Scale	SA	NS	KSB
	DATE: 27/05/2025	DATE: 30/05/2025	DATE: 02/06/2025

- Openreach – [British Telecommunications]
- Openreach – [British Telecommunications] – Supply
- Wessex Water – Foul Sewer
- Scottish and Southern Electricity – High Voltage [11kV]

TITLE:

Digital Utility Overview Plan

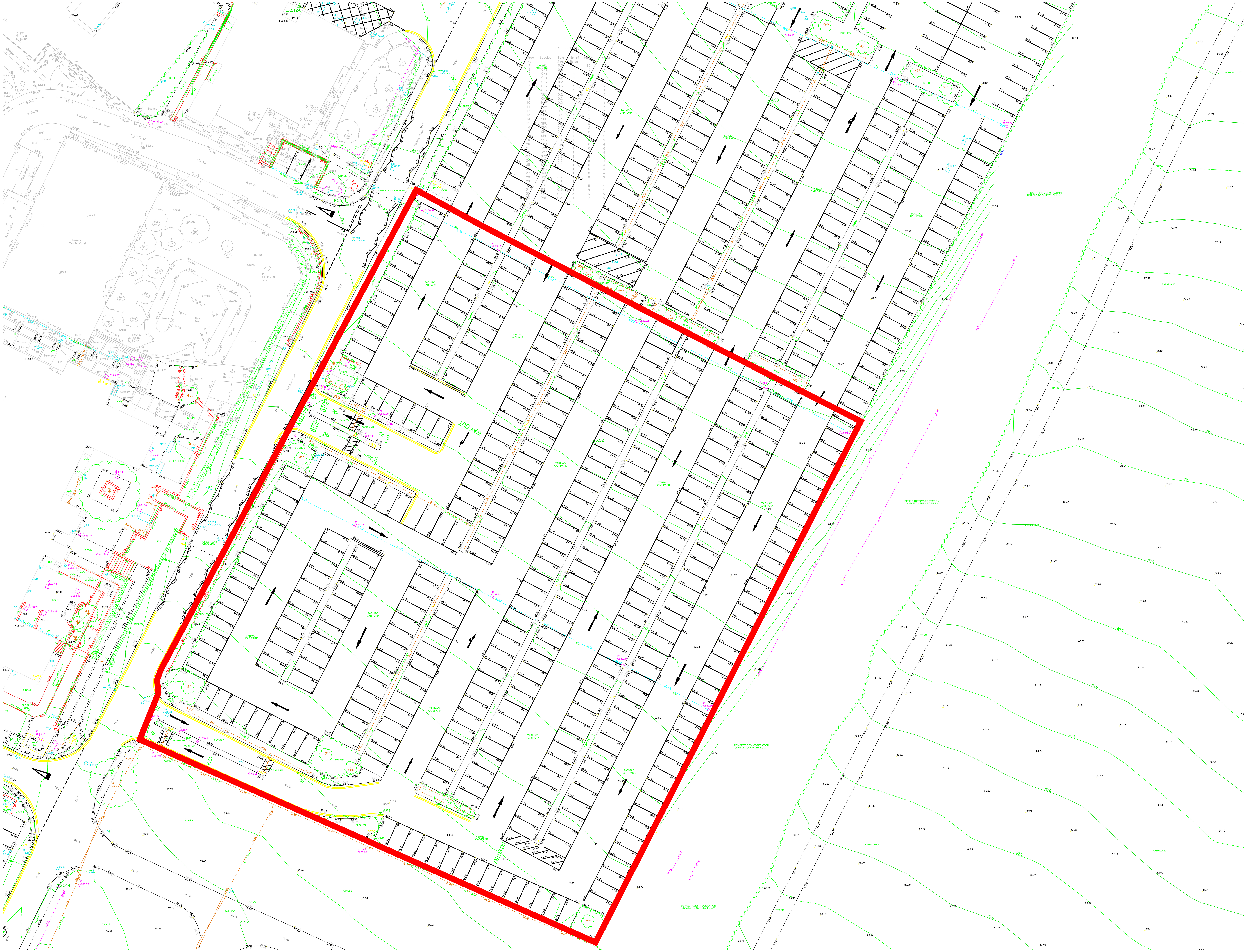
Reference No:

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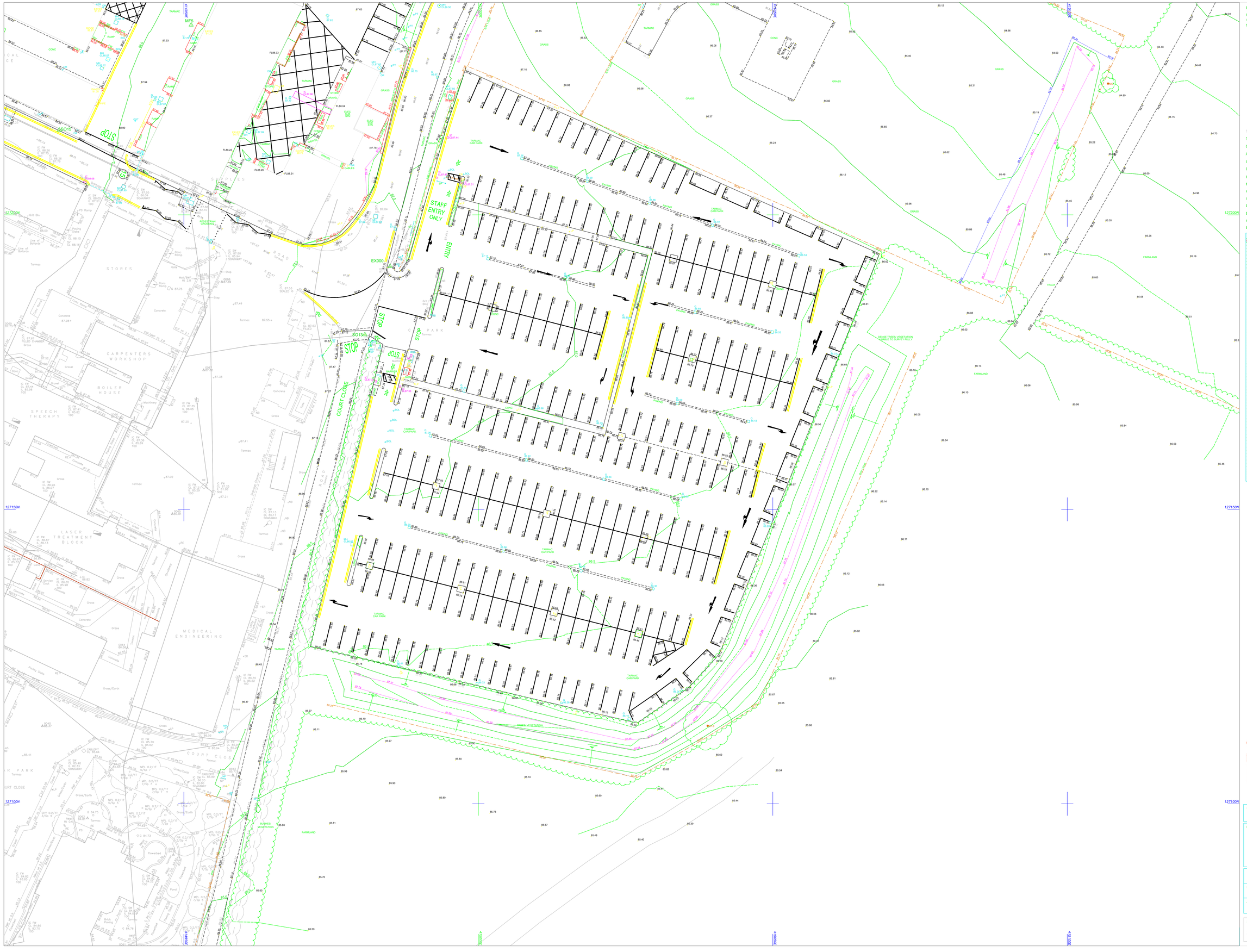
Landmark Information

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OS AC0000813445

D. Topography



TREE SCHEDULE
Tree No
Species
Bole Size
No of Boles
Height
Spread
TARMAC CAR PARK
WAY OUT
NO ENTRY
STOP
OUT
EXIT
BARRIER
BUSHES
PEDESTRIAN CROSSING
PAY STATION
CONC
GRASS
GREENHOUSE
BENCH
RESIN
O/H WALKWAY
SLOPING BRICK RTW
BRICK WALL
STONE WALL
GRAVEL
FIRE KEEP
Tarmac Tennis Court
Play Area
Tarmac Road
Tarmac Footpath
Bike Shelter
DENSE TREES/ VEGETATION UNABLE TO SURVEY FULLY
FARMLAND
TRACK
EX511
EX512A
AS1
AS2
AS3
ASO14
MF1



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N

Notes:

The survey is plotted on a plane local Grid, Orientation to National Grid.

All levels relate to Ordnance Datum, achieved using the OS National GPS Network.

Survey Control Markers established for Mapping purposes only and should not be used for Construction without the written approval of Survey Operations Ltd.

Levels in parenthesis indicate top of walls.

Digital Terrain Surveys drawing reference number DT515010940707 shown faint in the background.

SURVEY STATIONS

Name	Easting	Northing	Height
AS1	415058.56	127254.18	84.54
AS2	415095.23	127321.78	81.25
AS3	415124.70	127379.26	77.53
AS4	415172.04	127401.33	75.24
AS5	415178.72	127459.53	72.69
AS6	415215.89	127477.62	72.49
AS7	415165.98	127419.92	74.46
AS00	415053.84	127334.72	82.00
DC1	415042.50	127404.56	80.05
DC2	415058.59	127427.38	78.20
DC3	415049.23	127445.65	78.24
DC4	415063.14	127471.14	77.15
EX000	414986.01	127191.26	87.20
EX0003	414809.78	127284.99	88.50
EX0015	414817.51	127258.12	89.40
EX511	415053.51	127362.13	80.34
EX512	415079.27	127398.10	78.19
MF00	414967.57	127310.83	87.07
MF07	414967.50	127310.83	87.07
MF10	414987.50	127344.17	83.00
MF11	414942.50	127344.83	86.66
MF12	414922.61	127349.67	86.98
MF13	414905.46	127319.78	88.80
MF14	414903.91	127327.83	88.58
MF15	414876.76	127345.82	88.95
MF16	414876.50	127345.82	88.95
MF17	414871.86	127359.02	88.90
MF18	414864.54	127378.41	88.64
MF2	414963.74	127290.99	87.67
MF3	414959.54	127297.33	87.72
MF4	414939.04	127277.39	89.24
MF5	414926.25	127284.39	89.20
MF6	414908.05	127274.03	88.53
MF7	414912.87	127246.49	88.56
MF8	414923.53	127270.60	88.64
MF9	414905.95	127280.19	89.24
SA1	414917.65	127319.37	86.20
SA2	414738.64	127316.89	74.31
SD10	414738.64	127316.89	74.31
SD11	414881.28	127304.78	81.10
SD12	414947.57	127343.95	83.80
SD13	414964.74	127379.67	83.80
SD14	415004.68	127246.87	86.50
SD15	415008.31	127244.40	86.58
SD16	415068.31	127265.09	78.46
SD2	415014.82	127600.77	79.48
SD3	414948.31	127542.98	79.72
SD4	414894.54	127549.09	83.25
SD5	414715.99	127479.28	90.66
SD63	414806.30	127424.26	90.21
SD64	414858.52	127414.04	90.01
SD65	414805.51	127322.65	90.09
SD7	414879.21	127280.65	91.10
SD8	414738.12	127271.27	88.19
SD9	414788.32	127081.54	79.48
T1	415470.16	127491.46	87.49
T10	415268.06	127115.69	84.46
T11	415268.06	127115.69	84.46
T12	415245.62	127115.69	84.46
T13	415214.62	127120.74	84.43
T2	415500.87	127484.39	62.97
T3	415514.09	127472.33	61.87
T4	415428.97	127423.95	87.51
T5	415408.97	127423.95	87.51
T6	415363.74	127394.13	72.50
T7	415319.41	127276.69	76.82
T8	415307.19	127250.81	78.21
T9	415297.82	127214.69	80.00
X1	414941.39	127170.28	89.58
X2	414855.36	127347.70	89.00
X3	414963.66	127337.86	87.67

1
2
3 6 7
4 5 8 9 10
11 12 13 14
15 16 17
18 19

SurveY OPERATIONS
Smith Street, Skelmersdale, Lancs. WN8 8LN
Tel: 01695 725662 Fax: 01695 51816
Email: mail@survops.co.uk – www.survops.co.uk

Client: Cherrington Planning Ltd

Drawing Title: Topographical Survey of Land at: Heat Project, Salisbury, Sheet 16 of 19

Scale(s)	1:200	Surveyor	Var
Date	Sep 19	Drawn	DIF
Job Number	19G074	Checked	TP/MG

Sheet Size & Drg Number & Revision: A0 19G074/016

E. BGS Exploratory Record Summary

A summary of the ground conditions based on the BGS boreholes reviewed are summarised in in Table E.1 below.

Table E.1: BGS borehole Summary

Strata	Top Depth (m bgl)	Bottom Depth (m bgl)	Thickness (m)
Topsoil Firm friable dark brown CLAY with occasional subangular to angular fine to coarse flint gravel. Cobbles below 0.25m with numerous rootlets.	0	0.2 – 0.3	0.2 – 0.3.
Culver Chalk Formation (Grade V) Structureless CHALK composed of subangular fine to coarse gravel size white moderately weathered weak fragments with little cream sandy silt size fragments. Occasional subangular coarse flint gravel with some pockets of intact chalk.	0.2 – 0.3	1 – 1.1	0.7 – 0.9
Culver Chalk Formation (Grade IV) White moderately weak weathered CHALK. Fractures are extremely to very closely spaced between (50/20/40) and (10/30/70) open and infilled up to 3mm with fine gravelly sandy silt size fragments and traces of clay.	1 – 1.1	1.7 – 2	0.7 – 0.9
Culver Chalk Formation (Grade IV/III) White moderately weak weathered CHALK. Fractures are extremely to very closely spaced between (10/40/80) and (20/40/80) open and infilled up to 1mm with sandy silt sized fragments and traces of clay	1.7 – 2	2.4 – 2.6	0.6 – 0.7
Culver Chalk Formation (Grade III) White moderately/0ccassionally weak weathered CHALK. Fractures are closely spaced between (20/70/120) and (20/90/170) either clean and tight or open and infilled less than 1mm occasionally 3mm with fine gravelly sandy silt size fragments and traces of clay.	2.4 – 2.6	3.3 – 3.4	0.7 – 1
Culver Chalk Formation (Grade III/II) White moderately weak weathered CHALK. Fractures are closely spaced (40/50/270) either clean and tight or open less than 1mm and infilled with traces of clay.	3.3 – 3.4	4* - 4.1*	0.7* – 0.7*

* Depth and Thickness not proven. It should be noted that in one the BGS logs the strata boundaries were not clearly defined, hence the boundaries stated in Table 3.2 should be treated with caution.

It should be noted that the Mundford classification system has been used to classify the Culver Chalk Formation in the reviewed BGS logs in Table E.1. Subsequently a revised classification system for chalk has been introduced based on CIRIA C574 [19], this classification was developed based on the hardness of intact chalk, bedding/discontinuity and pattern, and discontinuity aperture [19].

Table E.2 presents the CIRIA C574 classifications grade of the chalk descriptions in Table E.1 above.

Table E.2: Comparison of Mundford and CIRIA Classification Systems

Mundford Classification System	CIRIA Classification System
Grade V	Grade Dc

Mundford Classification System	**CIRIA Classification System**
Grade IV	Grade C5/C4
Grade IV/III	Grade B4
Grade III	Grade B3/B2
Grade III/II	Grade A3/A2

F. Historical Ground Investigations Summary

F.1 CJ Associates Geotechnical Limited (2008)

The completed scope of the 2008 GI works comprised the following:

- 5no. window sample boreholes up to 8m bgl.
- In-situ testing
  - 10no. In-situ Standard Penetration Tests (SPTs).
- 4no Particle size distribution tests.
- 3no sulphate content of 2:1 soil: water extract.
- 3no Ph value tests.
- Contamination Testing.

F.1.1 Summary of Ground Conditions

The encountered ground conditions comprised of Made Ground overlying the Culver Chalk Formation (Grade Dc). No ground water strikes were observed in the exploratory holes and no long-term groundwater monitoring installations were undertaken during the GI. Table F.1 summarises the encountered ground conditions during the GI.

Table F.1: Summary of Ground Conditions (2008 GI)

Strata	Top Depth (m bgl)	Bottom Depth (m bgl)	Thickness (m)
Made Ground Grass/Hedge over brown with white mottling slightly gravelly very clayey fine to medium SAND with occasional fragments of wood, red brick, and porcelain. Gravel is subangular to subrounded fine to coarse of chalk.	0	0.36 – 1.4*	0.36 – 1.4*
Culver Chalk Formation (Grade Dc) Structureless CHALK composed of cream slightly clayey slightly sandy subangular to subrounded fine to coarse GRAVEL. Clasts are very weak and weak, low and medium density, white with occasional black specks. Matrix is uncompacted, light brown occasional subrounded flint cobles present Clasts becoming weak and medium density between 2.16 and 2.61, 3.5 and 3.99, 4.22 and 4.5, 4.87 – 5.29, 5 and 5.23, 5.7 and 6.5m bgl.	0.36 – 0.84	6.0* – 8.0*	5.2* – 7.2*

* Depth and thickness are unproven.

F.1.2 In-situ Testing (Standard Penetration Tests)

Ten SPT tests were conducted within the Culver Chalk Formation as part of the GI, in three tests, full penetration of the SPT hammer to 450mm was not achieved for 50 blows and the extrapolated SPT N values have been calculated based on CIRIA 143 [21]. It should be noted that the SPT hammer efficiency ratio was not provided in the draft report and the N_{60} values have not been derived.

The N values for the Chalk ranged between 18 and 30, Table F.2 and Figure F.1 summarises the SPT testing conducted on the site.

A trend of a slight increase in strength with depth was observed in the SPT N values. Based on CIRIA C574, SPT N values greater 25 could indicate medium to high density chalk, which may

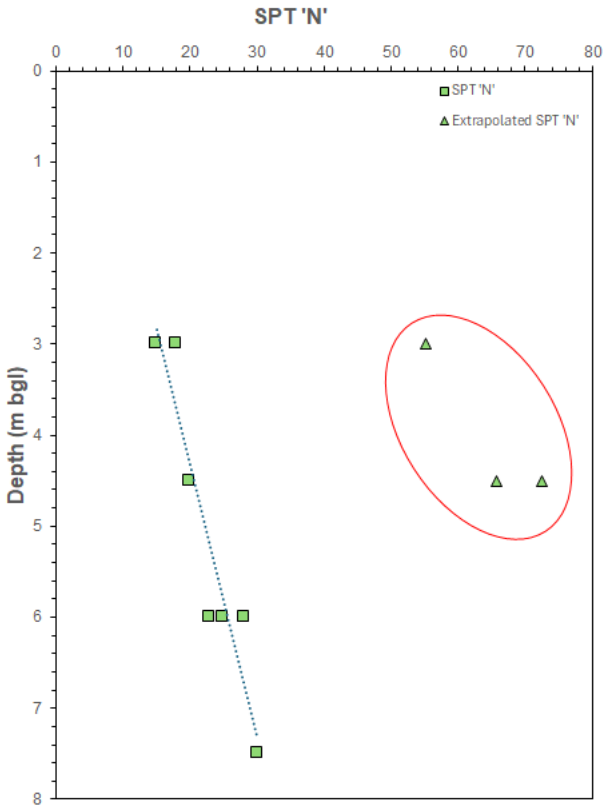
indicate increase in strength of the Culver Chalk Formation with depth. However, this should be treated with caution as the strength of chalk cannot be derived from SPT tests alone as the test can be influenced affected by flints, causing higher blow counts possibly leading to refusal, but occasionally also where the boring method to remove flint fragments weakens the chalk [19].

It should be noted that the extrapolated values between 55 and 72.4 (circled in red in Figure 4.2) may have been caused by the presence of occasional flint cobbles as stated in Table F.1 and may not be a true reflection of the strength of the Culver Chalk Formation on the site.

Table F.2: Culver Chalk Formation -Summary of SPT Tests (2008 GI)

Parameter	No. of Tests	Minimum	Maximum	Mean	Median
N Value	7	18.0	30.0	22.7	23.0
Extrapolated N Value	3	55.1	72.5	64.5	65.8

Figure F.1: SPT N Value Versus Depth – Culver Chalk Formation (2008 GI)



F.1.3 Laboratory Testing

Particle Size Distribution Tests (PSD)

Four PSD tests were undertaken in the Chalk which are summarised in Table F.3.

Table F.3: Culver Chalk Formation - Summary of PSD Tests (2008 GI)11

Borehole ID	Depth (m bgl)	% Gravel	% Sand	%Silt	% Clay
RC1A	5.5	19.6	14.1	66.6	
RC2A	2.5	52.2	16.0	26.2	5.6
RC2A	7.0	33.3	14	51.9	
RC3	4	27.3	17.3	44.9	10.5

The engineering logs in the factual and interpretative report which was summarised in Table F.1, indicated that the Chalk Grade encountered on the site was Grade Dc [19], but out of the four PSDs only one result in RC2A at 2.5m bgl correlates with the logs, the remaining results indicating the a Grade Dm chalk based on CIRIA C574 [19], where the cohesive constituents (silt and clay) ranging between 51.9 and 66.6% in RC1A, RC2A, and RC3 at 5.5, 7 and 4m bgl respectively. It should be noted that in the GI factual and interpretative report [15] these results were not considered representative of the strata, as it was attributed that the process of wet sieving had broken down the chalk during testing, which could explain the results.

F.1.4 Ground Aggressivity

Three water soluble sulphates (SO_4) ranging between <0.01 and 2.5 mg/l and pH testing ranging between 8.7 and 8.8 was undertaken in the Chalk. Based on guidance from BRE SD:2005 [21], the lowest pH (8.7) and highest sulphate value (2.5 mg/l) have been used to classify the Design Sulphate(DS) and Aggressive Chemical Environment for Concrete (ACEC) Class. The unit was classified as DS1 and AC-1 respectively.

F.2 CJ Associates Geotechnical Limited (2022)

The completed scope of the 2022 GI works comprised the following:

- 2no. window sample boreholes up to 6.2m bgl.
- 1no. handheld window sample borehole up to1.5m bgl.
- 1no. machine -excavated trial pit to depth of 1.5m bgl.
- In-situ testing
  - 96no. Dynamic Probing tests.
  - 1no. infiltration test.
- 4no. Moisture content test.
- 4no. Atterberg tests.
- 4no. Particle Size Distribution test.
- 6no. BRE Sulphate (water sol 2:1).
- 6no. BRE Sulphate (Suite D).
- Groundwater monitoring, WS01 (0.90 to 5m bgl) within reworked chalk and WS02 (1 to 5m bgl) Grade Dc structureless chalk.

F.2.1 Encountered Ground Conditions

The encountered ground conditions comprised of Made Ground overlying possible reworked Chalk and the Culver Chalk Formation (Grade Dc). No ground water strikes were observed in the exploratory holes. Table F.4 summarises the encountered ground conditions during the GI.

Table F.4: Encountered Geology – 2022 GI

Strata	Top Depth (m bgl)	Bottom Depth (m bgl)	Thickness (m)	Top Elevation (m AOD)	Bottom Elevation (m AOD).
Made Ground *Encountered as both cohesive and Granular constituents.* Firm brown and light brown slightly sandy gravelly silty CLAY/clayey SILT with low cobble content and many rootlets. Gravel is angular to sub-angular Fine to coarse of chalk, Flint and occasional brick. Cobbles are very strong angular of flint. Cream to light brown to greyish brown silty sandy angular to sub-angular Fine to coarse GRAVEL of limestone, chalk and flint with low cobble content.	0	0.55 – 0.66	0.55 – 0.66	83.76 – 85.93	80.93 – 85.38
Possible Reworked Culver Chalk Formation Cream and light brown slightly clayey sandy angular to sub-angular fine to coarse GRAVEL of chalk and occasional flint.	0.5 - 0.6	1.4 – 1.5	0.8 – 0.9	85.32 – 84.43	84.52 – 84.53
Culver Chalk Formation (Grade Dc) Cream and light brown slightly clayey sandy angular to sub-angular Fine to coarse GRAVEL of chalk and occasional flint. Extremely weak to very weak of white and cream clayey structureless CHALK.	0.6 – 1.4	1.5* - 6.2*	0.9* - 3.6*	83.16 – 84.53	80.93* - 82.26*

Source: 2009 Ground Investigations [16].
* Thickness and depth is unproven.

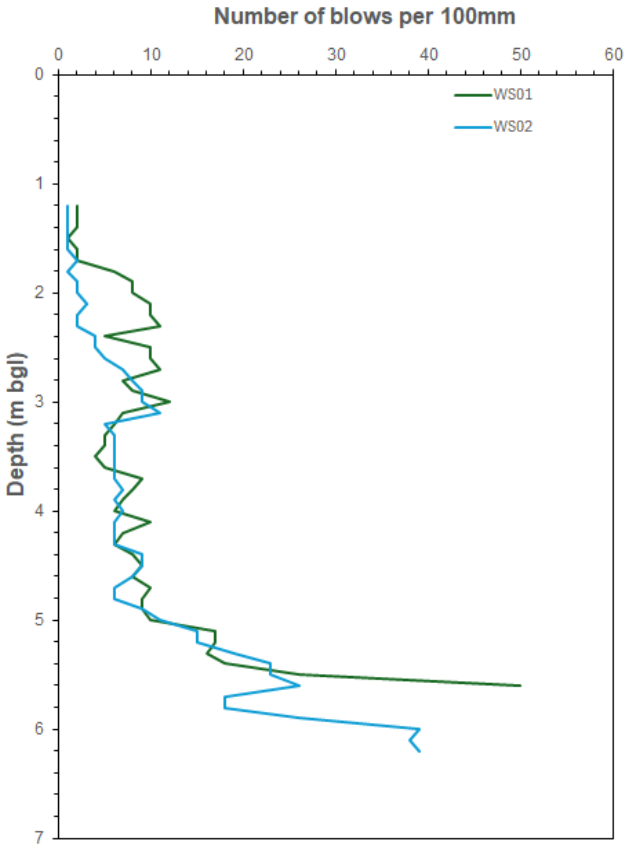
F.2.2 Groundwater Monitoring

Monitoring records between October and November 2022 indicated that groundwater level was between 4.8m bgl (81.12m AOD) and 4.88 (81.04m AOD) within the chalk.

F.2.3 In-situ Testing - Dynamic Probing

Ninety-six number of blow were undertaken in the Culver chalk Formation with the number of blow per 100mm ranging between 1 and 50 (Figure F.2). Although there is no direct correlation between dynamic probe results and Standard Penetration Tests (SPT), a few trends can be observed in the two sets of results in Figure F.2. Above 5m bgl, relatively low values are observed with the number of blows per 100mm ranging between 1 and 12 this could correlate to a firm to stiff /medium dense material in Grade Dm and Grade Dc chalk respectively. Below 5m bgl, high values are evident ranging between 9 and 50 blows per 100mm which could indicate a fairly competent material correlating with a dense to a very dense material in Grade Dc chalk.

Figure F.2: Dynamic Probe - Culver Chalk Formation (2022 GI)



F.2.4 Soil Infiltration Test

One soil infiltration test was undertaken in the Culver Chalk Formation (Grade Dc) comprising of 3 sets of tests after which a design infiltration rate was calculated. Table F.5 summarises the infiltration test on the site.

Table F.5: Culver Chalk Formation - Summary of infiltration Rate (2022 GI)

Location	Test No	Infiltration rate (m/s)	Design infiltration rate (m/s)	Strata
TP01	1	8.82 X 10^{-5}	6.20 X 10^{-5}	Extremely weak to very weak of white and cream clayey structureless CHALK (Dc)
	2	6.68 X 10^{-5}		
	3	6.2 X 10^{-5}		

Source: 2022 Ground Investigations [16]

F.2.5 Laboratory Testing

F.2.5.1 Moisture content and Plasticity

Four moisture content testing were undertaken in the Culver Chalk Formation (Grade Dc), with results ranging between 22 and 28.3%.

Four Atterberg Limit testing was undertaken in the Culver Chalk Formations. The soil behaved non- plastic correlates with the chalk grading given for the material. The Liquid Limit for the Chalk ranged between 3- and 34%.

F.2.5.2 Particle size Distribution Testing

Four PSD tests were undertaken in the Chalk, Table F.6 summarises the PSD tests undertaken in the unit during 2022 GI.

Table F.6: Culver Chalk Formation - Summary of PSD Tests (2022 GI).

Borehole ID	Depth (m bgl)	% Gravel	% Sand	% Fines	Strata from engineering logs
HH01	0.7	37.0	28.0	36.0	Possible reworked Culver Chalk Formation
TP01	1.0	65.0	19.0	17.0	Culver Chalk Formation (Grade Dc)
WS01	1.2	10.0	13.0	77.0	Possible reworked Culver Chalk Formation
WS02	1.2	73.0	10.0	17	Possible reworked Culver Chalk Formation

From the PSD tests results, in samples classified as Grade Dc chalk in the engineering logs the results indicated a gravel content of 65% which correlates with the material descriptions. In samples classified as possible reworked chalk granular content ranged between 10 and 73% with fines ranging between 17 and 77%.

F.2.5.3 Ground aggressivity

Six BRE testing was undertaken during the GI, out of which two tests were in Made Ground and Four tests were in the Culver Chalk Formation.

Water soluble sulphates (SO_4) results in Made Ground ranged between 20 and 40mg/l and pH testing ranging between 8.28 and 8.39.

Water soluble sulphates (SO_4) results in Chalk ranged between <10 and 152mg/l and pH testing ranging between 8 and 8.94.

Based on guidance from BRE SD:2005 [22], both unit had a Design Sulphate(DS) of DS-1 Aggressive Chemical Environment for Concrete (ACEC) Class of AC-1 respectively. [16]

G. Contaminated Land Risk Methodology

G.1 Contaminated Land Regulations and Definitions

G.1.1 General

The primary regulatory regime, under which contaminated land in the UK is managed is Part IIA of the Environmental Protection Act (EPA) 1990, although numerous other subsidiary Regulations are also relevant (including Land Contamination: Risk Management – LCRM). This report adopts a strategy for the assessment of potential land contamination based on current guidance documents related to Part II A of the EPA. Particular reference is made to CIRIA Report C552 [23] and Land Contamination: Risk Management (LCRM) [24].

New development is regulated under the Town and Country Planning Act 1990 (as amended). This regime provides a mechanism for the planning authority to enforce the proper investigation of a development site in order to ensure that once development has occurred, it is suitable for its intended use. In England the National Planning Policy Framework (NPPF) provides guidance on the implementation of contaminated land and pollution management requirements to address contamination risks associated with future site uses through the planning system. Paragraphs 187, 196, 197, and 198 of the NPPF state the following:

187: Planning policies and decisions should contribute to and enhance the natural and local environment by:

1. protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils (in a manner commensurate with their statutory status or identified quality in the development plan);
2. recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland;
3. maintaining the character of the undeveloped coast, while improving public access to it where appropriate;
4. minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures;
5. preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and

a) remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.

196. Planning policies and decisions should ensure that:

a) a site is suitable for its proposed use taking account of ground conditions and any risks arising from land instability and contamination. This includes risks arising from natural hazards or former activities such as mining, and any proposals for mitigation including land remediation (as well as potential impacts on the natural environment arising from that remediation);
b) after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990; and

c) adequate site investigation information, prepared by a competent person, is available to inform these assessments.

197. Where a site is affected by contamination or land stability issues, responsibility for securing a safe development rests with the developer and/or landowner.

198. Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development. In doing so they should:

a) mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life;
b) Identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason; and
c) limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation.

G.2 Contaminated Land Risk Assessment Methodology

G.2.1 Conceptual Model

A key element of an environmental risk assessment is the development of a conceptual model which is done undertaking a Source – Pathway – Receptor analysis of the site:

- Sources (S) are potential or know contaminant sources e.g. a former land use.
- Pathways (P) are environmental systems through which a contaminant could migrate e.g. air, groundwater.
- Receptors (R) are sensitive environmental receptors that could be adversely affected by contaminants e.g. site occupiers, groundwater resources.

When a source, relevant pathway and receptor are present, a pollutant linkage is considered to exist whereby there is a circumstance through which environmental harm could occur and a potential environmental liability is considered to exist.

G.2.2 Preliminary Contaminated Land Risk Assessment Methodology

For each potential pollutant linkage identified within the conceptual model presented in this report, the potential risk to a receptor has been evaluated based on the probability of the pollution event, and the severity it may have on site users and the environment.

The contaminated land risk assessment methodology used for this assessment is based on Environment Agency, Land Contamination Risk Management (LCRM), October 2020 and Construction Industry Research and Information Association (CIRIA), CIRIA C552 January 2001 guidance. The methodology quantifies potential risk via risk estimation and risk evaluation in order to determine an overall risk category which can be used to identify likely actions. This methodology uses qualitative descriptors and therefore is a qualitative approach. The methodology requires the classification of:

- The magnitude of the consequence (severity) of a risk occurring, and
- The magnitude of the probability (likelihood) of a risk occurring.

The potential consequences of contamination risk occurring at this site are classified in accordance with Table G.1 below.

Table G.1: Classification of Consequence

Classification	Definition
Severe	Short-term (acute) risk to human health Short-term risk of pollution of sensitive water resources or ecosystems Catastrophic damage to crops/buildings/property/infrastructure, including off-site soils
Medium	Medium/long-term (chronic) risk to human health Medium/long-term risk of pollution of sensitive water resources or ecosystems Significant damage to crops/buildings/property/infrastructure, on or off site Contamination of off-site soils
Mild	Easy preventable, permanent health effects of humans Pollution of non-sensitive water resources Localised damage to crops/buildings/property/infrastructure, on or off-site
Minor / Negligible	Easily preventable, non-permanent health effects of humans, or no effects Minor, low level and localised contamination of on-site soils Easily repairable damage to crops/buildings/property/infrastructure

Source: Construction Industry Research and Information Association (CIRIA), CIRIA C552 January 2001

The probability of contamination risk occurring at this site will be classified in accordance with Table G.2 below. Note that for each category, it is assumed that a pollutant linkage exists. Where a pollution linkage does not exist, the likelihood is zero, as is the risk.

Table G.2: Classification of Probability

Classification	Definition
High Likelihood	Circumstances are such that an event appears very likely in the short-term or almost inevitable in the long-term; or there is already evidence that such an event has occurred.
Likely	Circumstances are such that an event is not inevitable, but it is possible in the short-term and it likely over the long term.
Low Likelihood	Circumstances are such that it is by no means certain that an event would occur even over a longer period and is less likely in the short-term.
Unlikely	Circumstances are such that it is improbable than an event would occur even in the long term.

Source: Construction Industry Research and Information Association (CIRIA), CIRIA C552 January 2001

For each possible pollution linkage (source-pathway-receptor) identified the potential risk can be evaluated, using Table G.3. Based upon this, Table G.4 presents definitions of the risk categories, together with the investigatory and remedial actions that are likely to be necessary in each case. These risk categories apply to each pollutant linkage, not simply to each hazard or receptor.

Table G.3: Classification of Risk (Significance)

Probability (Likelihood)	Consequence			
	Severe	Medium	Mild	Minor
High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate/ Low Risk

Probability (Likelihood)	Consequence			
	Severe	Medium	Mild	Minor
Likely	High Risk	Moderate Risk	Moderate/ Low Risk	Low Risk
Low Likelihood	Moderate Risk	Moderate/ Low Risk	Low Risk	Very Low Risk
Unlikely	Moderate/ Low Risk	Low Risk	Very Low Risk	Very Low Risk

Source: Construction Industry Research and Information Association (CIRIA), CIRIA C552 January 2001

Table G.4: Definition of Classified Risks / Risk Terms

Classification	Definition
Very High Risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. The risk, if realised, is likely to result in a substantial liability Urgent investigation (if not already undertaken) and remediation are likely to be required
High Risk	Harm is likely to arise to a designated receptor from an identified hazard Realisation of the risk is likely to present a substantial liability Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely in the long term
Moderate Risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, if [it] is relatively unlikely that any such harm would be severe, or If any harm were to occur it is more likely that the harm would be relatively mild Investigation (if not already undertaken) is normally required to clarify the risk and determine the potential liability. Some remedial works may be required in the longer term
Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised would be at worse relatively mild
Very Low Risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Source: Construction Industry Research and Information Association (CIRIA), CIRIA C552 January 2001

