

**GEG | Geo Environmental Group**  
Geotechnical, Environmental & Ecological Consultants

GEG House, 17 Graham Road, Malvern, WR14 2HR  
Tel. 01684 212526 Fax 01684 576917 [www.g-eg.co.uk](http://www.g-eg.co.uk)



***PHASE I & PHASE II GEO-ENVIRONMENTAL ASSESSMENT***



***LAND NORTH OF BUNTING LANE  
OLD SARUM  
SALISBURY  
WILTSHIRE  
SP4 6PU***

***June 2023***

**Prepared for:**



Registered Company - GEG Ltd  
Registered in England No 6469985  
Registered Office: Granta Lodge, 71 Graham Rd, Malvern, WR14 2JS



**Report Title:**

**PHASE I & PHASE II  
GEO-ENVIRONMENTAL  
ASSESSMENT**

**Site Address:**

Land North of Bunting Lane  
Old Sarum  
Salisbury  
Wiltshire  
SP4 6PU

**Performed By:**

Geo Environmental Group  
GEG House  
17 Graham Road  
Malvern  
WR14 2HR

**On Behalf Of:**

Persimmon Wessex  
Verona House  
Tetbury Hill  
Malmesbury  
Wiltshire  
SN16 9JR

**Written by:**



Charlotte Mason  
*BSc(Hons) FGS*  
*Senior Geo-Environmental Consultant*

**Checked by:**



Matthew Perks  
*BSc(Hons) MSc FGS*  
*Principal Geo-Environmental Consultant*

**Approved by:**



Anthony Marriott  
*BSc(Hons) MRSC MEnvSc FGS*  
*Managing Director*

**Project Reference:**

GEG-23-786

**Report Reference:**

GEG-23-786/PI\_PII

**Issue Status:**

FINAL

**Date of Issue:**

Rev00: 27<sup>th</sup> June 2023



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## EXECUTIVE SUMMARY

### General

A Phase I & Phase II Geo-Environmental Assessment was required for for a proposed residential development at a site known as 'Land North of Bunting Lane, Old Sarum, Salisbury'.

### Site Location & Current Status

The site is located in the village of Old Sarum approximately 1 km north of Salisbury, in Wiltshire, at the approximate National Grid Reference 415150E, 133960N. It lies on land to the north west of Bunting Lane and covers an area of approximately 0.9 ha.

The roughly rectangular-shaped site comprised an area of undeveloped scrubland typically grassed and overgrown with remnants of an area of approximately 25 m<sup>2</sup> of hardstanding in the north west (where a construction site compound had previously been present as part of a wider development). An overgrown topsoil stockpile was present in the central western section of the site.

### Geology, Hydrogeology, Hydrology & Landfills

The solid geology beneath the site comprises the Seaford Chalk Formation of the Cretaceous period (a Principal Aquifer). A tongue of Head Deposits is conjectured crossing the south eastern section of the site (a Secondary Undifferentiated Aquifer).

The site lies within the Outer Protection Zone (Zone II) and the Total Catchment (Zone III) of a currently defined Groundwater Source Protection Zone (GWSPZ).

The nearest surface water feature is a drain 77 m north west of the site. The River Bourne is located approximately 1.4 km south east of the site.

No records of historical landfill sites have been identified within 500 m of the site.

### Flooding

The site lies within Flood Zone 1, being land that lies outside the 1 in 1000 year (0.1%AEP) flood risk area and hence has a low probability of flooding.

### History of Site and Site Surroundings

#### Site History

The history of the site has been traced back to 1888 when it comprised part of a wider agricultural field and remained largely unchanged until 2014, when satellite imagery indicated that the site was being used associated with adjacent residential development with a site compound and a large soil stockpile in the north western corner, and a small storage area (presumed building materials) in the south eastern corner. By 2018, satellite imagery of the site indicated complete removal of the site compound, although the north western corner of the site was still utilised as general storage. By 2021, the compound was not utilised, although a surface scar remained of the previous usage in the north west of the site.



### History of Site Surroundings

The history of the site surroundings has been traced back to 1880 when it comprised agricultural land. Later uses included a 'Sewage Works' adjacent to the south (between 1926 and 1990) and buildings associated with Old Sarum Airfield present 220 m south east. By 2000, a 'Football Ground' lay adjacent to the south west of the site, although 'Old Sarum Barracks' and the 'Airfield' were still present to the south. Satellite imagery of the site surroundings dated 2014 indicated that residential development had occurred or was underway adjacent to the north east, north west, and south east and further to the south west.

### **Intrusive Investigations**

The intrusive investigation was undertaken on 26<sup>th</sup> and 27<sup>th</sup> March 2023 and comprised machine-excavated trial pitting, infiltration testing, and in-situ CBR testing.

### **Ground Conditions**

Made Ground was encountered from depths of between 0.40 and 1.20 m locally in the south eastern and north western margins of the site, and an isolated occurrence in the central section. It typically comprised soft to firm CLAY.

Soft CLAY topsoil was encountered across the remainder of the site.

Head Deposits were encountered locally in the south eastern margins of the site, and comprised firm (locally firm to stiff) slightly gravelly CLAY.

The Seaford Chalk Formation was encountered from depths of between 0.20 and 1.90 m to the base of the exploratory holes. The formation consisted of a structureless CHALK of Grade Dm as a localised 'vener' extending to depths ranging between 0.50 and 1.20 m, predominantly located centrally and along the north western margin of the sites. Structureless CHALK of Grade Dc was encountered across the remainder, with underlying weak CHALK of Grade C encountered locally at 2 No. locations at depths ranging between 1.30 and 2.00 m.

Groundwater was not encountered during the intrusive investigation.

### **Proposed Development**

The planning layout of the development site comprises a mixture of 43 No. detached, semi-detached and terrace housing with associated access roads, parking areas, private gardens and landscaped areas.

### **Geotechnical Conclusions & Recommendations**

#### Anticipated Foundation Types

It is recommended that foundation loads are transferred onto the firm to stiff CLAY of the Head Deposits and/or the Grade Dc (or greater) CHALK, utilising traditional strip/trench fill foundations. An allowable bearing pressure of 100 kN/m<sup>2</sup> is recommended on the firm to stiff CLAY of the Head Deposits and the Grade Dc CHALK, based on total settlements of less than 25 mm for 0.45 and 0.60 m wide foundations.

Minimum foundation depths of 0.90 m are recommended for the Grade Dc CHALK in accordance with CIRIA Report C574 and NHBC Chapter 4.2, below any soft layers/pockets (including Grade Dm CHALK). This



depth exceeds the minimum depth recommended for frost susceptibility (0.45 m). Minimum depths of 0.90 m are anticipated for foundations on the Head Deposits at this stage (based on medium volume change potential), subject to confirmatory plasticity testing.

#### Other Considerations

Although not encountered in the exploratory holes, the presence of dissolution features in the chalk bedrock cannot be entirely discounted. As such, a watching brief is recommended during the site strip and foundation construction phases to identify any areas of potential dissolution features. If encountered, advice should be sought from GEG.

It is recommended that floor slabs are suspended due to the lateral and vertical variation in the strata (including Made Ground and Grade Dm Chalk) to limit differential settlement. However, locally, ground floor slabs may be suitable where Grade Dc or Head Deposits are confirmed to extend across the plot.

ACEC Class AC-2 (Design Class 2) conditions are indicated to prevail on site.

A CBR design value of less than 2% is recommended for geotechnically suitable Made Ground. CBR values for the Grade Dm and Dc chalk should be confirmed by in-situ CBR testing at the time of construction.

#### Soakaways

The infiltration tests undertaken in the Seaford Chalk Formation (including some shallow Head Deposits) yielded infiltration rates of  $1.00 \times 10^{-4}$  to  $7.46 \times 10^{-5}$  m/s.

The dry densities and soil moisture contents (SMC) of the chalk indicated a chalk of low density (5 No. samples) to medium density (5 No. samples), and occasionally high density (1 No. sample).

With reference to the CIRIA C574 guidance, soakaways on site will require a minimum distance of 10 m from foundations/roads. Deep borehole soakaways in the chalk are likely to be possible, and if the infiltration zone is at a suitable depth (say 10 – 15 m) outside any solution features, these could potentially be sited at a minimum distance of 5 m from subject to further localised deep borehole infiltration testing and adherence to appropriate guidance.

## **Environmental Risk Assessment & Liabilities**

### **Risks to Site Users**

Identified Sources: Based on the proposed end use, and chemical testing undertaken, no significant levels of contamination have been identified on the site.

Potential Risks: End users of the site and construction/maintenance workers are therefore not considered to be at significant risk from the site as no significant contaminant sources have been identified to date.



## **Risks to Controlled Waters**

Potential Sources: No significant soil sources have been identified.

Potential Risks: Risks to Controlled Waters are unlikely to be significant based on the information available.

## **Ground Gases**

According to BS8485, the site has been characterised as 'CS1' and therefore no special gas protection measures are deemed necessary.

No radon protective measures are required for the site.

## **Remediation**

### **Human Health Remedial Measures**

Based on the information available, no specific remedial measures are considered necessary to protect human health.

### **Protection of Controlled Waters**

No specific remedial measures are considered necessary to protect Controlled Waters from the site itself, based on the information available.

## **Further Investigation Requirements**

The following further work is recommended:

- A watching brief is recommended during the site strip and foundation construction phases to identify any areas of potential dissolution features.
- Additional deep borehole soakaway testing will be required if this option is proposed.

**This executive summary is intended to provide an outline of the site assessment concerning ground contamination and geotechnical parameters. It does not provide a definitive analysis of the information obtained.**





## **1. INTRODUCTION**

### **1.1 General**

Geo Environmental Group (GEG) were commissioned by Persimmon Wessex (the Client) to undertake a Phase I & Phase II Geo-Environmental Assessment of a site known as 'Land North of Bunting Lane, Old Sarum, Salisbury,' for the proposed residential development.

The purpose of this report was to determine:

- Potential environmental risks and liabilities associated with any potential soil and shallow groundwater contamination in accordance with current UK Environment Agency guidance (LCRM) for a future residential end use.
- Geotechnical requirements for foundations, buried concrete, excavations, earthworks and slope stability with respect to the proposed development of the site.
- The potential for using storm water soakaway drainage.

### **1.2 Available Information**

The following information was supplied by Persimmon:

- 'Site Location Plan,' Persimmon, Drawing No. 162\_101, dated March 2023.
- 'Topographical Survey,' Benjamin Moore Land Surveys on behalf of Persimmon, Drawing No. 1141-613, dated 7<sup>th</sup> December 2020.
- 'Planning Layout,' Persimmon, Drawing No. 162.100, dated March 2023.
- 'Report on Site Investigation at Old Sarum, Salisbury,' Structural Soils on behalf of Persimmon, Ref. 41367, dated April 2005.
- Various utility company service drawings.

GEG purchased an environmental data search report and historical Ordnance Survey maps for the site and surroundings.

### **1.3 Proposed Site Development**

The planning layout of the development site comprises a mixture of 43 No. detached, semi-detached and terrace housing with associated access roads, parking areas, private gardens and landscaped areas.

### **1.4 Scope**

The works performed by GEG included:

- A Phase I desk study including a site walkover and Phase II intrusive investigation.



- Associated chemical analysis and geotechnical testing.
- Generic quantitative human health and qualitative Controlled Waters environmental risk assessments, qualitative ground gas risk assessment, geotechnical assessment and recommendations for further investigation and/or remedial work (if required).

Limitations to the scope of the report are outlined in Section 12.

## **2. SITE SETTING**

### **2.1 Site Location**

The site is located in the village of Old Sarum approximately 1 km north of Salisbury, in Wiltshire, at the approximate National Grid Reference 415150E, 133960N. It lies on land to the north west of (and including) Bunting Lane and south west of Roger Way and covers an area of approximately 0.9 ha. The site is located approximately 1.6 km north east of Old Sarum, a prominent Iron Age fortification.

A section of the 1:25,000 Ordnance Survey (OS) map identifying the site location is shown in Figure 1 of Appendix A. The site layout plan is presented in Figures 2A to 2C (Appendix A) and a photographic record is provided in Appendix B.

### **2.2 Site Description**

With reference to Figures 2A to 2C, the following physical characteristics of the site were observed during the site walkover which was undertaken on 26<sup>th</sup> April 2023.

#### **Access**

The site was accessible from Sherbourne Drive to the north west, Roger Way to the north east, and Bunting Lane in the south east.

#### **Summary of current site status and boundaries**

The roughly rectangular-shaped site comprised an area of undeveloped scrubland typically grassed and overgrown with remnants of an area of approximately 25 m<sup>2</sup> of hardstanding (crushed stone and locally tarmacadam) in the north west (where a construction site compound had previously been present as part of a wider development, as indicated in Section 3.1). An overgrown topsoil stockpile (of approximately 40 m [L] x 15 m [W] x 2-3 m [H]) was present in the central western section of the site. A minor (approximately 3.00 m wide by 0.25 m deep) depression (presumably a former excavation related to the ongoing development) was present in the south eastern section of the site.

Bunting Lane (constructed as part of the wider residential development) was present along the southern eastern margins of the site.

The north west, north east, and south east site boundaries were open to the surrounding land use. The south western site boundary comprised a combination of wooden and metal-panel fencing associated with the



adjacent Salisbury Football Club, also with occasional semi-mature deciduous trees and sections of brambles and bushes.

**Ground levels / slopes on or close to the site**

Topographically, the site slopes gently to the south west from an elevation of approximately 74.5 m AOD on the north eastern boundary to approximately 73.0 m AOD on the south western boundary.

No significant slopes were observed on or close to the site.

**Depressions in the ground surface**

None observed, with the exception of a minor depression (presumably associated with the ongoing development) in the south eastern section of the site, as detailed above.

**Waterlogged or marshy ground**

None observed.

**Surface water**

None observed.

**Trees or hedges**

As described above, the south western site boundary consisted of occasional semi-mature deciduous trees.

**Potential Invasive Plant Species**

No evidence of invasive species such as Japanese Knotweed was visible during the site walkover survey, although, it should be noted that the site was not inspected by an ecologist.

**Existing buildings on site**

None observed.

**Basements on site**

None observed.

**External hardstanding**

As described above, an area of approximately 25 m<sup>2</sup> in the north west of the site consisted of hardstanding of crushed stone and poor quality tarmac associated with a former construction site compound.

**Made Ground, earthworks or quarrying**

As described above, a large topsoil stockpile was present in the south western site section. Furthermore, limited Made Ground (likely of inert materials) may be present in the north west of the site associated with the former compound.

**Overhead / Underground Services present**

No known services were considered to be present on site and it is understood that newly installed services for the wider development were located in the roads adjacent to the site.

Reference should be made to the utility plans for full details of services present on site. Other services may be present which are not identified on the drawings.



## 2.3 Adjacent Land Uses

A summary of surrounding land-use in the immediate vicinity of the site is provided below.

|                   |                                                                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>North West</b> | Sherbourne Drive (north) and residential development (north west) adjacent with further residences to the north.                                                                                                                                                   |
| <b>North East</b> | Roger Way adjacent with residential development beyond.                                                                                                                                                                                                            |
| <b>South East</b> | Residential development with light commercial end use 221 m south east.                                                                                                                                                                                            |
| <b>South</b>      | Overgrown grassed field with residential surrounds. A strip of warehouses (including light commercial activities, army, and airfield related activities) 220 m south east of the site and a grassed airfield (the former RAF Old Sarum Airfield 340 m south east). |
| <b>South West</b> | Salisbury Football Club (the Raymond McEnhill Stadium).                                                                                                                                                                                                            |

## 2.4 District Uses and Potential Sources of Contamination

The following pertinent information regarding land uses of the site and within the surrounding vicinity (within 250 m unless otherwise stated) has been derived from the environmental database search report presented in Appendix D.

|                                      |                                                                                                                                                                                    |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste Management</b>              | No records of historical or operational waste treatment transfer or disposal sites have been identified within 500 m of the site.                                                  |
| <b>Landfills</b>                     | No records of historical landfill sites have been identified within 500 m of the site.                                                                                             |
| <b>Discharge Consents</b>            | No records of discharge consents have been identified on or within 500 m of the site.                                                                                              |
| <b>Pollution Prevention Controls</b> | No records of Integrated Pollution Controls (IPC) Authorisations have been identified within 250 m of the site.                                                                    |
| <b>Dangerous Substances</b>          | No records of Control of Major Accident Hazard (COMAH) or Notification of Installations Handling Hazardous Substances (NIHHS) sites have been identified within 500 m of the site. |
| <b>Pollution Incidents</b>           | No records of Pollution Incidents to Controlled Waters have been identified within 500 m of the site.                                                                              |
| <b>Coal Mining Affected Areas</b>    | The local geology indicates that the site is not in an area that is affected by coal mining. Reference to the Coal Authority                                                       |



interactive map viewer confirms this, as the site is not shown to be in a Coal Mining Reporting Area.

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BGS Recorded Mineral Sites</b> | No BGS Recorded Mineral Sites have been identified within 500 m of the site.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Conservation</b>               | <p>No records of Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), Special Protection Areas (SPA), Special Areas of Conservation (SAC), Ancient Woodlands, Ramsar Sites or World Heritage Sites have been identified within 500 m of the site.</p> <p>The site lies within a Nitrate Vulnerable Zone.</p>                        |
| <b>Trade Directory Entries</b>    | <p>Records of 3 No. potentially contaminative industrial sites have been identified within 250 m of the site relating to car customisation and conversion specialists 232 and 250 m south east, and radio communication equipment 235 m.</p> <p>No records of petrol and fuel sites have been identified within 500 m of the site.</p> <p>No records of underground gas pipelines have been identified within 250 m of the site.</p> |
| <b>Radon</b>                      | The site is in a lower probability radon area, as less than 1% of properties are above the action level.                                                                                                                                                                                                                                                                                                                             |
| <b>UXO</b>                        | According to regional unexploded bomb risk maps provided by Zetica, the site falls within an area of low bomb risk and therefore no further action is required.                                                                                                                                                                                                                                                                      |

### 3. SITE HISTORY AND DEVELOPMENT

#### 3.1 Site History

The dates, approximate location and description of pertinent features of the site history as identified from the historical maps (Appendix E) are summarised as follows. (Capitalised words denoting structures or features are taken directly from historical maps.)

|                    |                                                                                                                                                                                                                                                   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1880</b>        | The history of the site has been traced back to 1888 when it comprised part of a wider agricultural field with an existing field boundary along the south western site boundary.                                                                  |
| <b>1880 – 2000</b> | No significant changes were indicated.                                                                                                                                                                                                            |
| <b>2014</b>        | Satellite imagery of the site dated 2014 indicated that the site was being used associated with adjacent residential development, with a site compound and a large soil stockpile in the north western corner, and a small storage area (presumed |



building materials) in the south eastern corner. Bunting Lane was shown along the south eastern site margin.

- 2017** By 2017, satellite imagery of the site indicated ongoing removal of the site compound and complete removal of the large stockpile in the north west, and removal of the storage area in the south east. The remainder of the site was shown as overgrown grass.
- 2018** By 2018, satellite imagery of the site indicated complete removal of the site compound, although the north western corner of the site was still utilised as general storage (presumably of construction materials).
- 2021** By 2021, satellite imagery of the site indicated that site was not utilised, although a surface scar remained of the previous usage in the north west of the site.
- 2021 – 2023** No significant changes were indicated.

### 3.2 Historical Uses of Adjacent Land

The dates, approximate location and description of pertinent features of the site's surroundings as identified from the historical maps (Appendix E) are summarised as follows. (Capitalised words in denoting structures or features are taken directly from historical maps.)

- 1880** The history of the site surroundings has been traced back to 1880 when it comprised agricultural land with a historic track, denoted as 'Site of Port Way (From Old Sarum to Silchester)' located 200 m south east.
- 1880 – 1901** No significant changes were indicated.
- 1901 – 1926** By 1926, a 'Sewage Works', with associated 'Tanks' and 'Filter Beds', was marked adjacent to the south of the southern corner of the site. Buildings and infrastructure associated with Old Sarum Airfield were present 220 m south east of the site. The airfield itself lay 340 m south east. (Both remained unmarked on the maps likely due to security considerations which were heightened in this period.) A brief internet search indicated that the airfield was opened in 1917 and operated initially as a training station for the Royal Flying Corps. By 1920, the training squadron was disbanded and preparations began to turn the station into the permanent home of the School of Army Co-operation.
- 1926 – 1939** By 1939, the land adjacent to the south west of the site (with the exception of the existing 'Sewage Works') comprised wooded and landscaped grounds and a 'Playing Field' associated with buildings 150 m south of the site which are presumed to be associated with Old Sarum Barracks (remaining unmarked on the maps). A brief internet search indicates that between 1934 and 1937, Old Sarum Airfield became a permanent station with





the development of new domestic, administrative and technical buildings (although the grassed flying field to the south remained the same size). A small area of 'Allotment Gardens' were also noted 190 m south east.

- 1939 – 1962** No significant changes were indicated. However, a brief internet search indicates that during the campaign of enemy attacks on RAF airfields in 1940, Old Sarum escaped lightly but one hangar and two aircraft were destroyed in an air raid in 1941.
- 1962 – 1975** By 1975, the 'Sewage Works' adjacent to the south west had expanded north westwards with further 'Tanks' marked. A 'Tank' was also marked at the barracks 110 m south. The 'Allotment Gardens' were no longer present.
- 1975 – 1981** No significant changes were indicated. (However, in 1971 Old Sarum ceased as an RAF airfield, although it served with the Army until 1979.)
- 1981 – 1990** By 1990, the 'Sewage Works' adjacent to the south had been removed.
- 1990 – 1994** No significant changes were indicated.
- 1994 – 2000** By 2000, a 'Football Ground' had been constructed adjacent to the south west of the site, although the 'Playing Field' the 'Old Sarum Barracks', and the 'Airfield' were still present to the south.
- 2014** Satellite imagery of the site surroundings dated 2014 indicated that residential development had occurred or was underway adjacent to the north east, north west, and south east and further to the south west (beyond the football pitch).
- 2014 – 2023** No significant changes were indicated.

## **4. GEOLOGY, HYDROLOGY, HYDROGEOLOGY**

### **4.1 Published Geology**

Reference to the 1:50,000 scale British Geological Survey digital mapping of the area (solid and drift) (Figure 3) indicates that the solid geology beneath the site comprises the Seaford Chalk Formation of the Cretaceous period. It is described as *firm white chalk with conspicuous semi-continuous nodular and tabular flint seams. Hardgrounds and thin marls are known from the lowest beds. Some flint nodules are large to very large.*

The Stockbridge Rock Member (of the Seaford Chalk Formation) is conjectured adjacent to the southern corner of the site, described as *very hard, locally porcellanous, creamy white chalk, grainy in part with abundant sponge spicules.*

A tongue of Head Deposits (*poorly sorted and poorly stratified deposits formed mostly by solifluction and/or hillwash and soil creep comprising gravel, sand and*



*clay depending on upslope source and distance from source. Locally with lenses of silt, clay or peat and organic material*) is conjectured crossing the south eastern section of the site.

No significant faults are conjectured to intersect the site at the surface.

#### **4.1.1 BGS Records**

The nearest BGS record (Ref. SU13SE29) was located approximately 130 m south west and was related to borehole SU13/77, undertaken at Salisbury City Football Club to a depth of 60 m, in 1996. The strata encountered is broadly summarised as follows:

- Soft CHALK and flints to 60 m.

Groundwater was encountered at a depth of 30 m (resting at a level of 24 m following completion).

#### **4.1.2 Potential Geo-Hazards**

No significant potential geo-hazards such as underground workings, natural cavities, dissolution, landslips, compressible deposits, running sands or swelling/shrinking clays are identified associated with the site in the database search report (Appendix C).

With reference to the Structural Soils (2005) report (as referenced in Section 1.2), the nearest natural cavity (relative to the wider site) was recorded from information obtained from Peter Brett Associates as 3.5 km to the south east (approximately 4.1 km south east of the current site). It was considered that conditions are not favourable for the development of solution features on the site.

### **4.2 Hydrogeology**

#### **4.2.1 Groundwater Designation**

The database search report indicates that the solid geology beneath the site is designated as a Principal Aquifer.

*Principal Aquifers as assigned where geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale.*

The superficial deposits are characterised as a Secondary Undifferentiated Aquifer.

*Secondary (undifferentiated) Aquifers are assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.*

#### **4.2.2 Groundwater Abstractions**

According to the database search report, there are 6 No. records of 1 No. groundwater abstraction licence within 250 m of the site, located 64 m west of the



site relating to spray irrigation at Salisbury Football Club, dated 1997 to 2008. There are no further abstractions recorded with 251 and 500 m of the site.

#### **4.2.3 Groundwater Source Protection Zone**

The site lies within the Outer Protection Zone (Zone II) and the Total Catchment (Zone III) of a currently defined Groundwater Source Protection Zone (GWSPZ).

### **4.3 Hydrology**

#### **4.3.1 Nearest Watercourse**

The nearest surface water feature is a drain 77 m north west of the site. The River Bourne is located approximately 1.4 km south east of the site.

#### **4.3.2 Surface Watercourse Abstractions**

According to the database search report, there are no surface water abstraction licences within 500 m of the site.

#### **4.3.3 Surface Water Flooding**

According to the Environment Agency online 'Flood Map for Planning', the site lies within Flood Zone 1, being land that lies outside the 1 in 1000 year (0.1%AEP) flood risk area and hence has a low probability of flooding.

#### **4.3.4 Potential for Groundwater Flooding**

According to the BGS, the site exhibits a limited potential for groundwater flooding to occur.

## **5. SUMMARY OF PREVIOUS PHASE II INVESTIGATION**

A previous Phase II investigation of a wider site (including the current site area) was undertaken by Structural Soils in 2005. 10 No. cable percussive boreholes, 6 No. window sample boreholes, and 40 No. trial pits were undertaken. A summary of the information relevant to the current site (as extracted from the previous report) is provided below.

### **5.1 Scope**

The scope of the Structural Soils investigation on the current site comprised 2 No. trial pits (TP22 and TP26) undertaken to depths of 2.20 and 2.50 m, respectively. Infiltration testing was also undertaken in TP22.

### **5.2 Ground Conditions Encountered**

#### **5.2.1 Topsoil**

Natural topsoil was encountered to a depth of 0.20 m.



### 5.2.2 *Solid Geology*

Structureless low density CHALK of Grade Dc was encountered underlying the topsoil to depths of 0.45 and 0.70 m, underlain by Grade Dc (also structureless, low density) to 1.00 m in TP26 only, below which a sequence progressing from weak low density Grades C4 to B3 was recorded.

### 5.3 **Groundwater**

No groundwater was encountered.

### 5.4 **Infiltration Testing**

Infiltration testing of TP22 calculated an infiltration rate of  $2.30 \times 10^{-4}$  m/s.

### 5.5 **Chemical Analyses**

No chemical testing was undertaken on the current site area.

### 5.6 **Chemical Assessment**

No contamination was identified on the wider site during the investigation (20 No. samples total).

### 5.7 **Geotechnical Analyses**

Soil samples tested during the investigation on the current site included 2 No. pH determinations and sulphate (soluble & total) and 1 No. saturated moisture content (SMC) of the chalk. The results were as follows:

- The pH ranged from 9.1 to 9.2 and the soluble sulphate from 0.06 to 0.10 g/l.
- The SMC testing of the chalk was undertaken from TP22 at 0.80 m and recorded a moisture content of 28%, a dry density of  $1.54 \text{ mg/m}^3$ , and a saturated moisture content of 28%.

Classification of the chalk from 25 No. samples tested for SMC across the wider site have also been reviewed in accordance with the CIRIA C574 (Table 3.2). The testing indicates that the chalk is mainly categorised as either low or medium density (specifically in the upper section of the low density and the lower section of the medium density). One result indicates high density. The on-site result was classified as low density. The saturated moisture content also confirms these categories.

According Structural Soils, the chalk was also classed as non-shrinkable according to NHBC Standards.

## 6. **PRELIMINARY RISK ASSESSMENT AND OUTLINE CONCEPTUAL MODEL**

A summary of the legislation and regulatory guidance used in preparation of the environmental risk assessment presented in this report is provided in Appendix C.



## 6.1 Potential Contaminants of Concern

### 6.1.1 Potential On-Site Contamination Sources

Based on the historical of the site as agricultural land and more recently as scrubland with a former site compound in the north west of the site, the potential **on-site** contamination sources are likely to be associated with:

- Any localised spillages or leakages of fuel or oils formerly from farming vehicles/machinery and latterly from construction plant.
- Any historically imported contaminated materials used to raise site levels/infill voids or fly-tipped material including activities taking place during the construction the adjacent residential dwellings.
- Pesticides and herbicides sprayed on the site (including the more persistent historical organochlorine pesticides now illegal in the UK).

### 6.1.2 Potential Off-Site Contamination Sources

The potential **off-site** contamination sources are likely to be associated with the following current and historical uses:

- Any localised spillages or leakages of fuel or oils from any current or historical tanks associated with adjacent land uses (including a former tank identified 110 m south at Old Sarum Barracks).
- Any historically imported contaminated Made Ground used to raise site levels/infill voids. In particular, Made Ground associated with the infilling of tanks and filter beds at the former sewage works identified adjacent to the south of the site (now green space and football pitch), which was decommissioned between 1981 and 1990.
- Any potential former sewage sludge (with associated potential heavy metal contamination) which may have been spread across the site or adjacent land (including during the decommissioning of the site). However, it is considered that pathogens and other biological hazards are unlikely to remain given the time that has elapsed since usage.
- Ground gases associated with potential sewage sludge are not deemed a significant issue where (as detailed above) it is considered likely to have been spread across the site or adjacent land following decommission.

The other identified land uses (including the former Old Sarum Barracks adjacent to the south west of the site; former allotments 190 m south east; the light commercial activities (including army and airfield related activities) 220 m south east; and the grassed airfield (the former RAF Old Sarum Airfield) 340 m south east, are considered sufficiently distant as to not represent a significant risk to the site.

### 6.1.3 Potential Contaminants of Concern

The potential limited contaminants of concern associated with the current and historical land uses outlined above include:

- Petroleum hydrocarbons (TPH) and polyaromatic hydrocarbons (PAHs).



- General contaminants including metals, semi-metals and non-metals, inorganic and organic chemicals.
- Herbicides/pesticides (including aldrin, DDT, dieldrin and endrin).

A diagrammatic illustration of the outline conceptual model is presented in Figure 3 of Appendix A.

## 6.2 Preliminary Human Health Conceptual Model

|                             |                                                                                                                                                                                                                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Potential Sources:</b>   | Potential limited contamination associated with the historical and current usage of the site and adjacent land, as detailed in Section 6.1.                                                                                                                                             |
| <b>Potential Pathways:</b>  | Ingestion of soil and dust, dermal contact with soil and dust, ingestion of home grown produce and attached soil, inhalation of soil and dust, and the inhalation of indoor and outdoor vapours and ground gases. Potential combustion or explosion of ground gases in confined spaces. |
| <b>Potential Receptors:</b> | Future site user, site workers, visitors, construction/maintenance workers and potential trespassers and adjacent residents.                                                                                                                                                            |

## 6.3 Preliminary Controlled Waters Conceptual Model

|                             |                                                                                                                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Potential Sources:</b>   | Potential and identified contamination associated with the former usage of the site and adjacent land, as detailed in Section 6.1.                                                                                                                                           |
| <b>Potential Pathways:</b>  | Infiltration of precipitation through the site's surface and leaching of potential contaminants and subsequent vertical migration to aquifers or lateral migration to watercourses.                                                                                          |
| <b>Potential Receptors:</b> | Underlying groundwater in the Principal and Secondary Undifferentiated Aquifers, drain 77 m north west, and groundwater abstraction for spray irrigation 64 m west. The site also lies within Outer Protection Zone (Zone II) and the Total Catchment (Zone III) of a GWSPZ. |

## 6.4 Preliminary Ground Gas Assessment

There are no records of any historical landfill sites within 500 m of the site and there is no evidence to suggest that there is a significant thickness of Made Ground on the site. Consequently, based on guidance given in Figure 6 of BS 8576:2013, the gas generation potential of the sources identified are considered to be very low at this stage.





## **6.5 Additional General Receptors**

In addition, ecological systems (i.e. fauna and flora) together with future buildings/structures and construction materials (i.e. water supply pipes) have been considered.

## **7. INTRUSIVE INVESTIGATION**

### **7.1 Site Works Overview**

The following section outlines the scope of the intrusive investigation carried out by GEG and details the ground conditions encountered and the testing undertaken.

All work was undertaken in general accordance with British Standard guidance (BS:5930:2015 and BS:10175) and the ICE UK Specification for Ground Investigation (2nd Edition 2012) guidelines.

Prior to commencement of the works, service plans were viewed to investigate the location of all major services and each exploratory hole location screened with a cable avoidance tool.

The exploratory holes were logged and sampled by an experienced geo-environmental engineer from GEG. The ground conditions encountered were recorded on the exploratory hole logs (Appendix G). Where the sample is disturbed but some guidance as to the in-situ consistency can be sensibly given, the consistency term is given in brackets, in accordance with BS:5930:2015.

Exploratory hole locations were surveyed using a handheld GPS surveying tool.

The locations of the exploratory holes are shown on Figure 5 presented in Appendix A.

### **7.2 Site Works**

#### **7.2.1 General**

The intrusive investigation was undertaken on 26<sup>th</sup> and 27<sup>th</sup> March 2023 and comprised machine-excavated trial pitting, infiltration testing, and in-situ CBR testing.

##### **7.2.1.1 Limitations of the Intrusive Investigation**

There were no limitations to access across the site for the duration of the intrusive investigations.

##### **7.2.2 Trial Pits**

19 No. trial pits (IT01-IT06 & TP01-TP13) were excavated using a JCB-3CX to a maximum depth of 3.50 m to facilitate investigation of the near surface soils.



### 7.2.3 Hand Excavated Pits

4 No. hand pits (SP01-SP04) were excavated to a depth of 0.30 m to facilitate investigation of the topsoil stockpile.

### 7.2.4 In Situ Testing

Pocket penetrometer tests (PP) were undertaken in the cohesive strata at selected horizons in the trial pits. The unconfined compressive strength (UCS) recorded is presented on the exploratory hole logs in Appendix G. It should be noted that typically  $UCS = 2S_u$ , where  $S_u$  is the undrained shear strength.

### 7.2.5 Rationale for the Exploratory Holes

The rationale for the exploratory locations is given in Table 1 below. A plan showing the locations of the exploratory holes is included as Figure 5.

Table 1. Rationale for the Exploratory Holes

| Exploratory Hole | Rationale                                                             |
|------------------|-----------------------------------------------------------------------|
| TP01-TP13        | General site coverage.                                                |
| IT01-IT06        | To undertake infiltration testing in general accordance with BRE 365. |
| SP01-SP04        | For purpose of sampling the topsoil stockpile.                        |

### 7.2.6 In-situ CBR Testing

In-situ CBR testing was undertaken in 10 No. shallow exploratory holes in accordance with BS 1377-9:1990. The results are presented in Section 9.1.8.

### 7.2.7 Infiltration Tests

18 No. infiltration tests were undertaken in 6 No. trial pits (IT01-IT06) in general accordance with BRE Digest 365.

The trial pits were excavated to depths of between 1.60 and 2.00 m and infiltration tests undertaken in the most permeable strata. Clean water was dispensed from a bowser at a rapid rate to fill each excavation as quickly as possible to the proposed depth of the invert levels and/or the most permeable strata. The excavations took less than 5 minutes to fill to the maximum capacity.

Measurements were then taken of the fall of water at suitable time increments to allow the infiltration rate to be calculated from the time taken for the water level to fall from 75% to 25% effective depth (where possible).

The infiltration test data and calculated infiltration rates are tabulated and graphically depicted on Figures H-1 to H-18 in Appendix H. The results are summarised in Table 2.



Table 2. Infiltration Test Results

| Location<br>(Depth Range<br>of Test [m]) | Test<br>No. | Strata <sup>[1]</sup>   | Effective Depth<br>Reached | Time<br>(mins) | Infiltration<br>Rate (m/s) |
|------------------------------------------|-------------|-------------------------|----------------------------|----------------|----------------------------|
| ITo1<br>0.88 – 1.90                      | 1           | SCF                     | 25%                        | 11             | $3.14 \times 10^{-4}$      |
| ITo1<br>0.80 – 1.77                      | 2           |                         | 25%                        | 12             | $2.75 \times 10^{-4}$      |
| ITo1<br>0.73 – 1.74                      | 3           |                         | 25%                        | 20             | $1.59 \times 10^{-4}$      |
| ITo2<br>0.77 – 1.80                      | 1           | SCF                     | 25%                        | 35             | $1.04 \times 10^{-4}$      |
| ITo2<br>0.72 – 1.75                      | 2           |                         | 25%                        | 64             | $5.98 \times 10^{-5}$      |
| ITo2<br>0.90 – 1.90                      | 3           |                         | 25%                        | 38             | $1.00 \times 10^{-4}$      |
| ITo3<br>0.75 – 1.60                      | 1           | SCF                     | 25%                        | 12             | $3.00 \times 10^{-4}$      |
| ITo3<br>0.70 – 1.42                      | 2           |                         | 25%                        | 18             | $2.03 \times 10^{-4}$      |
| ITo3<br>0.79 – 1.37                      | 3           |                         | 25%                        | 53             | $5.01 \times 10^{-5}$      |
| ITo4<br>0.64 – 1.90                      | 1           | SCF                     | 25%                        | 18             | $2.20 \times 10^{-4}$      |
| ITo4<br>0.71 – 1.70                      | 2           |                         | 25%                        | 47             | $7.05 \times 10^{-5}$      |
| ITo4<br>0.85 – 1.54                      | 3           |                         | 25%                        | 36             | $1.12 \times 10^{-4}$      |
| ITo5<br>0.66 – 1.70                      | 1           | HD <sup>[2]</sup> / SCF | 25%                        | 88             | $3.50 \times 10^{-5}$      |
| ITo5<br>0.66 – 1.67                      | 2           |                         | 25%                        | 102            | $3.36 \times 10^{-5}$      |
| ITo5<br>0.67 – 1.70                      | 3           |                         | 25%                        | 170            | $1.96 \times 10^{-5}$      |
| ITo6<br>0.61 – 1.60                      | 1           | HD <sup>[3]</sup> / SCF | 25%                        | 28             | $1.18 \times 10^{-4}$      |
| ITo6<br>0.46 – 1.40                      | 2           |                         | 25%                        | 44             | $7.46 \times 10^{-5}$      |
| ITo6<br>0.47 – 1.43                      | 3           |                         | 25%                        | 95             | $3.45 \times 10^{-5}$      |

[1] HD=Head Deposits; SCF=Seaford Chalk Formation

[2] Head Deposited encountered from 0.60 to 1.50 m in the trial pit.

[3] Head Deposited encountered from 0.40 to 0.80 m in the trial pit.

The infiltration tests undertaken in the Seaford Chalk Formation (including some shallow Head Deposits but below any Grade Dm chalk encountered) yielded infiltration rates of  $1.00 \times 10^{-4}$  to  $7.46 \times 10^{-5}$  m/s indicating that soakaways are potentially suitable for the site constructed at the depths tested. The tests performed in the chalk (only) typically yielded rates of  $1.00 \times 10^{-4}$  to  $7.05 \times 10^{-5}$  m/s, while the tests performed within both the Head Deposits and the chalk yielded rates typically of  $1.96 \times 10^{-5}$  to  $7.46 \times 10^{-5}$  m/s, with 1 No. test result of  $1.18 \times 10^{-4}$ .

Recommendations with respect to potential use of soakaway drainage are presented in Section 9.11.



#### 7.2.8 Reinstatement

The trial pits were backfilled with arisings and left slightly mounded to allow for settlement.

#### 7.2.9 Sampling

Samples were taken from the exploratory holes for geotechnical and chemical testing, as described in Sections 7.3 and 7.4 respectively.

### 7.3 Geotechnical Laboratory Testing

Selected samples were dispatched to Geo Site and Testing Services Ltd and scheduled for geotechnical testing. The schedule of testing comprised:

- 2 No. natural moisture contents (BS1377: Part 2: 1990: 3.2).
- 2 No. liquid and plastic limits (BS1377: Part 2: 1990: 4.2-4.4 & 5.2-5.4).
- 11 No. saturated moisture content of chalk (SMC) (BS1377: Part 2: 1990: 3.3).

7 No. water soluble sulphate and pH determinations were also undertaken on the natural soils as part of the chemical testing (Section 7.4).

### 7.4 Chemical Laboratory Testing

#### 7.4.1 Schedule of Analysis

Representative samples of Made Ground and natural ground were dispatched to I2 Analytical for chemical analysis. The schedule of analysis as detailed below comprised a combination of a range of contaminants commonly identified on brownfield sites, together with specific determinands based on the former and current site and adjacent site uses, as identified below. All soil analysis was MCerts accredited where possible. The results of the chemical testing are presented in Appendix J.

#### Soils

|                                    |                                                                                                                                                                               |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Metals:</i>                     | Cadmium, chromium (total, III and VI), copper, lead, nickel, zinc, mercury.                                                                                                   |
| <i>Semi-Metals and Non-Metals:</i> | Arsenic, boron, selenium.                                                                                                                                                     |
| <i>Inorganic Chemicals:</i>        | Cyanide (total and free), sulphate (soluble), sulphide.                                                                                                                       |
| <i>Others:</i>                     | pH, soil organic matter, asbestos*.                                                                                                                                           |
| <i>Organics:</i>                   | Total phenols, banded petroleum hydrocarbons (TPHs), speciated polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCP)*, organophosphorus pesticides (OPP)*. |



\* *Selected samples only*

#### 7.4.2 Scope of Analysis

The scope of the chemical testing as outlined in Section 7.4.1 is summarised in Tables 3A to 3C below.

Table 3A. Scope of Made Ground Chemical Testing

| Sample Type | Analyses               | No. | Rationale             |
|-------------|------------------------|-----|-----------------------|
| Made Ground | General Suite          | 7   | General site coverage |
|             | Asbestos               | 2   |                       |
|             | Pesticides (OCP & OPP) | 1   |                       |

Table 3B. Scope of Natural Ground Chemical Testing

| Sample Type    | Analyses               | No. | Rationale             |
|----------------|------------------------|-----|-----------------------|
| Natural Ground | General Suite          | 3   | General site coverage |
|                | Pesticides (OCP & OPP) | 1   |                       |

Table 3C. Scope of Stockpile Chemical Testing

| Sample Type | Analyses                                | No. | Rationale |
|-------------|-----------------------------------------|-----|-----------|
| Stockpile   | General Suite                           | 4   | Targeted  |
|             | Asbestos                                | 4   |           |
|             | Waste Acceptance Criteria (WAC) - Inert | 2   |           |

## 7.5 Ground Conditions Encountered

The ground conditions encountered are described below and broadly confirmed the published geology. The strength/relative density of the strata is detailed further in the geotechnical assessment in Section 9.1.

### 7.5.1 Made Ground

Made Ground was encountered from depths of between 0.40 and 1.20 m in the south eastern margins of the site at 7 No. locations (IT05, IT06, TP03, TP04 & TP08-TP10), and from depths of between 0.30 and 1.00 m at 4 No. locations (IT01, IT02, TP07 & TP13) in the north west. Made Ground was also encountered locally in the central section of the site in TP01 to 0.40 m.

It typically comprised soft CLAY of reworked topsoil to depths of between 0.10 and 0.30 m (IT01, IT02, IT06, TP01, TP03, TP07, TP09 & TP10). The remainder of the Made Ground consisted of soft to firm variably sandy gravelly silty CLAY, with the gravel component including brick, concrete, flint, chalk, and locally (TP13)



tarmacadam. Occasional plastic sheeting, whole bricks, and boulders of curbstone were encountered locally. The Made Ground in TPO1 from 0.20 to 0.40 m comprised loose GRAVEL of chalk and quartzite (representing a possible drainage medium).

#### 7.5.2 *Topsoil*

Soft CLAY topsoil was encountered across the remainder of the site (typically within the central section and along the north western margins) to depths of between 0.20 and 0.30 m.

#### 7.5.3 *Head Deposits*

Head Deposits were encountered locally underlying the Made Ground and topsoil in the south eastern margins of the site at 7 No. locations (IT05, IT06, TPO3 & TPO8-TP11) from depths of between 0.50 and 1.90 m, becoming progressively thicker towards the south. It typically comprised firm (locally firm to stiff) slightly gravelly (flint and chalk) CLAY.

#### 7.5.4 *Seaford Chalk Formation*

The Seaford Chalk Formation was encountered underlying the Made Ground, topsoil, and Head Deposits from depths of between 0.20 and 1.90 m to the base of the exploratory holes.

The formation was encountered as follows:

- Structureless CHALK of Grade Dm (composed of white locally mottled light brown clayey gravelly SILT. Clasts are very weak low density) at 9 No. locations (IT03, IT04, TPO1, TPO2, TPO4-TP07 & TP12) as a localised 'veneer' extending to depths ranging between 0.50 and 1.20 m, predominantly located centrally and along the north western margin of the sites.
- Structureless CHALK of Grade Dc (composed of white locally mottled light orangish brown silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density. Occasional flint nodules extended to the base of all exploratory holes, with the exception of TPO2 and TPO6, as detailed below).
- Weak CHALK of Grade C (composed of medium density white with occasional black flecks CHALK with occasional cobble-sized flint nodules. Fractures subvertical closely spaced (20/80/150) infilled (5/10/20) with white silt) encountered locally at 2 No. locations (TPO2 & TPO6) underlying the Grade Dc chalk at depths ranging between 1.30 and 2.00 m.

#### 7.5.5 *Groundwater*

No groundwater was encountered in any of the exploratory holes during the intrusive investigation. groundwater levels may vary due to seasonal and other effects, including the relatively short time periods for which the trial pits remained open.





#### 7.5.6 Topsoil Stockpile

The stockpile comprised soft CLAY topsoil.

#### 7.5.7 Stability of Trial Pits

The sides of all trial pit excavations were stable with the exception of the following locations:

Table 4. Stability of Trial Pits

| Trial Pit | Strata <sup>[1]</sup> | Stability                   |
|-----------|-----------------------|-----------------------------|
| TP05      | SCF                   | Side collapsing from 1.00 m |
| TP09      | SCF                   | Sides collapsed from 1.00 m |

[1] SCF=Seaford Chalk Formation.

#### 7.5.8 Visual and Olfactory Evidence of Contamination

No visual or olfactory evidence of contamination was encountered in any of the exploratory holes undertaken with occasional gravel-sized fragments of tarmacadam in the Made Ground in TP13.

## 8. GENERIC HUMAN HEALTH QUANTITATIVE RISK ASSESSMENT

### 8.1 Generic Human Health QRA

#### 8.1.1 C4SLs

In accordance with EA LCRM Stage 1 Risk Assessment Guidance, where available, DEFRA Category 4 Screening Levels (C4SLs) have been used in the generic human health quantitative risk assessment. Where no C4SLs are available, reference has been made to in-house Generic Assessment Criteria (GACs) derived in CLEA v.1.071, as detailed below, or the now withdrawn Soil Guideline Values (SGVs) as a screening tool only.

#### 8.1.2 CLEA v.1.071

GACs were derived in CLEA v.1.071, assuming a 'sand' soil type of pH 7 and SOM of 1% were used in the assessment of the Made Ground and natural ground.

The 'residential with home grown produce' for a semi-detached property has been used in the assessment as this is the most sensitive generic land use and building type in the CLEA model applicable to the proposed development.

#### 8.1.3 Other Assessment Criteria

EIC/AGS/CL:AIRE GAC have been used where available for organic compounds not covered by the CLEA Model. In the absence of these, the Risk Based Corrective Action (RBCA) Toolkit has been used.

A GEG in-house GAC for total cyanide (for all end uses) has been derived based on acute toxicity and a one-time soil ingestion event.



Sulphate and sulphide were not assessed as these contaminants are not generally considered to represent a significant risk to human health unless at extremely high levels.

#### 8.1.4 PAH Profiling

##### Methodology

Public Health England (2017) has recommended benzo(a)pyrene as a surrogate marker for the assessment of the risks posed by genotoxic PAH compounds where sufficiently similar to the 2 No. coal tar mixtures investigated by Culp *et al.* (1998).

Using a PAH profiling tool, it is possible to assess how closely the ratio of benzo(a)pyrene correlates to the standard mixtures of PAHs. If the mean results are within  $\pm x10$  of the 2 No. coal tar mixtures then it is possible to use benzo(a)pyrene as a surrogate PAH marker.

##### Assessment

The assessment is presented in Appendix H and confirms that the samples listed below which recorded PAH levels above the laboratory detection limit showed PAH profiles sufficiently similar to the Culp coal tar profiles to allow benzo(a)pyrene to be used as a surrogate marker. The majority of positive results were found to be within  $\pm x2.5$ .

- IT01 (0.40 m) – Made Ground
- TP03 (0.30 m) – Made Ground
- TP07 (0.10 m) – Made Ground
- TP09 (0.40 m) – Made Ground
- TP13 (0.30 m) – Made Ground
- TP05 (0.10 m) – Natural Ground
- TP12 (0.10 m) – Natural Ground
- SP01 – Stockpile Sample
- SP02 – Stockpile Sample

PAH concentrations recorded in the above samples were therefore assessed using benzo(a)pyrene as a surrogate marker. The PAHs recorded for the other samples were screened individually against the respective critical concentrations, as detailed in the following sections.

#### 8.1.5 Vapour Risk Associated with PAHs

PAHs (including benzo(a)pyrene) are typically of low volatility. However, selected compounds including naphthalene and to a lesser degree dibenzo(ah)anthracene, benzo(a)anthracene, and ideno(123-cd)pyrene are of higher volatility. Consequently, GEG consider that the benzo(a)pyrene surrogate marker approach could potentially not fully characterise vapour risks for PAHs, particularly if mixtures are present containing for example naphthalene. As such GEG screen individual PAHs against inhalation health criteria values (IHCV) derived in CLEA to assess these risks (as detailed in the following sections).



## **8.2 Direct Screening of Soil Chemical Data**

### **8.2.1 Methodology**

Statistical analysis as detailed in the guidance produced by (CL:AIRE, 2021) has not been undertaken for this site as update to the ESI Ltd Contaminated Land Statistical Calculator used to undertake the statistics is awaited. As such, the data have been screened directly against the critical concentrations as detailed below.

### **8.2.2 Made Ground**

#### **8.2.2.1 General Contaminants**

The Made Ground chemical analyses were screened directly against the critical concentrations in Table A (Appendix L) (7 No. samples).

All determinands from the Made Ground were below the relevant critical concentrations including:

- Metals (arsenic, cadmium, chromium VI, chromium III, copper, lead, mercury, nickel and zinc).
- Semi-metals and non-metals (boron and selenium).
- Inorganic chemicals (total and free cyanide).
- Organics (total phenols, C6-C40 banded petroleum hydrocarbons, coal tar PAHs, USEPA 16 polycyclic aromatic hydrocarbons [naphthalene, acenaphthylene, acenaphthene, fluorine, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(123-cd)pyrene, dibenzo(ah)anthracene and benzo(ghi)perylene]).

The recorded levels of individual PAHs were screened against the CLEA derived inhalation health criteria value (IHCV) in Table B (Appendix L). No samples were found to be above the relevant criteria and as such are not considered to represent a potential vapour risk via the inhalation pathway.

#### **8.2.2.2 Pesticides**

No organochlorine and organophosphorus pesticides were identified in the 1 No. sample of Made Ground analysed.

#### **8.2.2.3 Asbestos**

No asbestos was identified in the 2 No. samples of Made Ground screened.

### **8.2.3 Natural Ground**

#### **8.2.3.1 General Determinants**

The natural ground chemical analyses (3 No. samples) were screened directly against the critical concentrations in Table C (Appendix L).



All determinands listed in Section 8.2.2.1 were below the relevant critical concentrations.

The recorded levels of individual PAHs were also screened against the CLEA derived inhalation health criteria value (IHCV) in Table B (Appendix L). No samples were found to be above the relevant criteria and as such are not considered to represent a potential vapour risk via the inhalation pathway.

#### *8.2.3.2 Pesticides*

No organochlorine and organophosphorus pesticides were identified in the 1 No. sample of natural ground analysed.

### *8.2.4 Stockpile Testing*

#### *8.2.4.1 General Determinants*

The topsoil stockpile chemical analyses (4 No. samples) were screened directly against the critical concentrations in Table D (Appendix L).

All determinands listed in Section 8.2.2.1 were below the relevant critical concentrations.

The recorded levels of individual PAHs were also screened against the CLEA derived inhalation health criteria value (IHCV) in Table B (Appendix L). No samples were found to be above the relevant criteria and as such are not considered to represent a potential vapour risk via the inhalation pathway.

#### *8.2.4.2 Asbestos*

No asbestos was identified in the 4 No. samples of the topsoil stockpile screened.

## **8.3 Summary of Soil Contamination**

No elevated soil contaminants have been identified.

## **8.4 Generic Controlled Waters Quantitative Risk Assessment**

#### *8.4.1 Identified Soil Contaminants*

No significant sources of contamination have been identified by the soil analyses undertaken.

#### *8.4.2 Identified Groundwater Contaminants*

No groundwater analyses were undertaken as part of this investigation.

## **8.5 Generic Ecological Systems Quantitative Risk Assessment**

#### *8.5.1 Identified Soil Contaminant Concentrations*

No significant sources of contamination have been identified by the soil analyses undertaken for home grown produce, as such it is considered that there will be no



significant impact on ecological systems on the site or on adjacent sites from the site itself.

## **9. GEOTECHNICAL CONCLUSIONS AND RECOMMENDATIONS**

### **9.1 Overview**

#### *9.1.1 Summary of Strata Encountered*

Made Ground was encountered from depths of between 0.40 and 1.20 m locally in the south eastern and north western margins of the site, and an isolated occurrence in the central section. It typically comprised soft CLAY of reworked topsoil to depths of between 0.10 and 0.30 m. The remainder consisted of soft to firm CLAY, including occasional gravel-sized brick, concrete, flint, chalk, and locally tarmacadam (and also locally with occasional plastic sheeting, whole bricks, and curbstone boulders).

Soft CLAY topsoil was encountered across the remainder of the site to depths of between 0.20 and 0.30 m.

Head Deposits were encountered locally in the south eastern margins of the site from depths of between 0.50 and 1.90 m, becoming progressively thicker towards the south. It typically comprised firm (locally firm to stiff) slightly gravelly CLAY.

The Seaford Chalk Formation was encountered from depths of between 0.20 and 1.90 m to the base of the exploratory holes. The formation consisted of a structureless CHALK of Grade Dm as a localised 'veneer' extending to depths ranging between 0.50 and 1.20 m, predominantly located centrally and along the north western margin of the sites. Structureless CHALK of Grade Dc was encountered across the remainder, with underlying weak CHALK of Grade C encountered locally at 2 No. locations at depths ranging between 1.30 and 2.00 m.

#### *9.1.2 Groundwater*

Groundwater was not encountered during the intrusive investigation.

#### *9.1.3 Trial Pit Stability*

The sides of all trial pit excavations were stable with the exception of instability within TPO5 and TPO9 from a depth of 1.00 m.

#### *9.1.4 Undrained Shear Strength*

##### *9.1.4.1 Pocket Penetrometer - Unconfined Compressive Strength*

The results of the pocket penetrometer testing are presented in Graphs 1A and 1B of Appendix I for the Head Deposits. Undrained strength classifications are quoted in accordance with Table 9 of BS5930:2015 with the former terminology in brackets. In-situ pocket penetrometer tests recorded unconfined compressive strengths (UCSs) of 150 to 250 kN/m<sup>2</sup> at 0.90 m in the cohesive strata. This indicates estimated undrained shear strength of 75 to 125 kN/m<sup>2</sup> and an undrained strength classification of medium (firm to stiff) to high (stiff).



### 9.1.5 Chalk

No evidence of dissolution features or cavities was encountered in the chalk bedrock underlying the site. This is supported by the environmental database search report which categorises the potential for such hazards on the site as very low to low. However, as with all sites located on the chalk bedrock, the presence of dissolution features including collapsed swallow holes and infilled solution pipes, cannot be entirely discounted.

Attention should therefore be given to the possibility of dissolution features when undertaking the detailed site design. In addition, a watching brief is recommended during the site strip and foundation construction phases to identify any areas of potential dissolution features. If encountered, advice should be sought from GEG.

### 9.1.6 Chalk Strength

Chalk strengths in accordance with BS5930, are presented in Table 5 below based on relationships between the saturation moisture content (SMC), dry density, and strength detailed in CIRIA.

Table 5. SMC, Dry Density, Intact Dry Density, and Strength of Chalk.

| Exploratory Hole / Depth (m) | SMC (%) | Dry Density (Mg/m <sup>3</sup> ) | Intact Dry Density <sup>[1]</sup> | Strength <sup>[2]</sup> |
|------------------------------|---------|----------------------------------|-----------------------------------|-------------------------|
| TP01 / 1.50                  | 19      | 1.78                             | High                              | Weak                    |
| TP02 / 2.00                  | 26      | 1.59                             | Medium                            | Very weak to weak       |
| TP03 / 1.70                  | 27      | 1.55                             | Medium                            | Moderately weak         |
| TP05 / 1.80                  | 30      | 1.50                             | Low                               | Weak                    |
| TP06 / 1.70                  | 28      | 1.54                             | Low                               | Very weak to weak       |
| TP07 / 1.40                  | 28      | 1.54                             | Low                               | Very weak to weak       |
| TP09 / 1.30                  | 29      | 1.52                             | Low                               | Very weak to weak       |
| TP10 / 2.40                  | 28      | 1.55                             | Medium                            | Weak                    |
| TP11 / 1.40                  | 28      | 1.54                             | Low                               | Very weak to weak       |
| TP12 / 1.60                  | 25      | 1.60                             | Medium                            | Weak                    |
| TP13 / 1.20                  | 27      | 1.55                             | Medium                            | Weak                    |

[1] In accordance with Table 3.2 of CIRIA C574.

[2] In accordance with Table 3.7 of CIRIA C574.

The SMC of the chalk ranged from 19% to 30% with associated dry densities of 1.50 to 1.78 Mg/m<sup>3</sup>, indicating chalk of low (5 No. samples) to medium (5 No. samples), and occasionally high density (1 No. sample). Correlations between SMC and dry density indicate chalk of a strength of very weak to moderately weak.



### 9.1.7 Plasticity Indices (PI)

The Modified Plasticity Indices and Volume Change Potential of the natural clay are presented in Table 6 below in accordance with NHBC Standards Chapter 4.2.

Table 6. Volume Change Potential

| Location / Depth (m) | Strata <sup>[1]</sup> | Plasticity Index (Ip) (%) | Fraction <0.425mm (%) | Modified Plasticity Index (I <sub>p</sub> ') <sup>[2]</sup> (%) | Volume Change Potential |
|----------------------|-----------------------|---------------------------|-----------------------|-----------------------------------------------------------------|-------------------------|
| TPo8 / 2.10          | SCF                   | 10                        | 100                   | 10                                                              | Low                     |
| TP13 / 1.90          | SCF                   | 11                        | 100                   | 11                                                              | Low                     |

[1] SCF=Seaford Chalk Formation.

[2] Modified Plasticity Index (I<sub>p</sub>') = Plasticity Index (Ip) x (% <0.425mm/100)

### 9.1.8 In-situ CBR Testing

In-situ CBR test results and calculated subgrade surface modulus (in accordance with CD225) are presented in Table 7 below.

Table 7. In-situ CBR Test Results & Estimated Subgrade Surface Modulus

| Exploratory Hole / Depth (m) | On-Site Testing Laboratory's Description (unless otherwise indicated) | Strata <sup>[1]</sup> (Based on nearest trial pit/s) | In Situ CBR Value (%) | Estimated Subgrade Surface Modulus (E) (MPa) <sup>[2]</sup> |
|------------------------------|-----------------------------------------------------------------------|------------------------------------------------------|-----------------------|-------------------------------------------------------------|
| CBR 1 / 0.20                 | Brown gravelly sandy silty CLAY                                       | MG                                                   | 10                    | 77                                                          |
| CBR 2 / 0.25                 | Brown gravelly sandy silty CLAY                                       | MG                                                   | 7.1                   | 62                                                          |
| CBR 3 / 0.25                 | Brown gravelly sandy silty CLAY                                       | MG                                                   | 6.9                   | 61                                                          |
| CBR 4 / 0.30                 | CHALK <sup>[3]</sup>                                                  | SCF                                                  | 4.9                   | 49                                                          |
| CBR 5 / 0.25                 | CHALK <sup>[3]</sup>                                                  | SCF                                                  | 7.1                   | 62                                                          |
| CBR 6 / 0.20                 | Brown gravelly sandy silty CLAY                                       | HD                                                   | 8.6                   | 70                                                          |
| CBR 7 / 0.30                 | Brown gravelly sandy silty CLAY                                       | HD                                                   | 8.4                   | 69                                                          |
| CBR 8 / 0.25                 | CHALK <sup>[3]</sup>                                                  | SCF                                                  | 7.3                   | 63                                                          |
| CBR 9 / 0.25                 | Brown gravelly sandy silty CLAY                                       | MG                                                   | 9.5                   | 74                                                          |
| CBR 10 / 0.27                | Brown gravelly sandy silty CLAY                                       | MG                                                   | 8.9                   | 71                                                          |





[1] MG=Made Ground; HD=Head Deposits; SCF=Seaford Chalk Formation.

[2] Based on  $E = 17.6(CBR)^{0.64}$  [Valid for CBR values in the range 2-12%].

[3] Based on nearest trial pits.

#### 9.1.9 *Proposed Development*

As previously described, the planning layout of the development site comprises a mixture of 43 No. detached, semi-detached and terrace housing with associated access roads, parking areas, private gardens and landscaped areas.

### 9.2 **Identified Geotechnical Constraints**

The following potential geotechnical constraints have been identified by the desk study and ground investigation:

- Localised Made Ground encountered to depths of between 0.40 and 1.20 m locally in the south eastern and north western margins of the site, and an isolated occurrence in the central section.
- Localised Head Deposits.
- A veneer of chalk of Grade Dm centrally and along the north eastern margins of the site to depths of between 0.50 m and 1.20 m.
- Lateral and vertical variability in strata at potential founding depths.
- A limited potential for dissolution features in the chalk.
- Potential frost susceptibility of the chalk.
- Localised shallow instability of excavations in excess of 1.00 m.

### 9.3 **Anticipated Foundation Types**

#### 9.3.1 *General*

Based on the information available and current site levels, the anticipated foundations for the site have been determined as follows.

#### 9.3.2 *Shallow/Trench Fill Foundations*

The Made Ground is not considered suitable bearing strata due to the potential significant inherent variability, which is likely to result in unacceptable differential settlements.

It is recommended that foundation loads are transferred onto the firm to stiff CLAY of the Head Deposits and/or the Grade Dc (or greater) CHALK, utilising traditional strip/trench fill foundations. (Without confirmation by in situ plate load testing, it is anticipated that shallow foundations within the Grade Dm CHALK would experience unacceptable settlements.) An allowable bearing pressure of 100 kN/m<sup>2</sup> is recommended on the firm to stiff CLAY of the Head Deposits and the Grade Dc CHALK, based on total settlements of less than 25 mm for 0.45 and 0.60 m wide foundations.

#### 9.3.3 *Anticipated Foundation Depths*

Minimum foundation depths of 0.90 m are recommended for the Grade Dc CHALK in accordance with CIRIA Report C574 and NHBC Chapter 4.2, below any soft



layers/pockets (including Grade Dm CHALK). This depth exceeds the minimum depth recommended for frost susceptibility (0.45 m).

Minimum depths of 0.90 m are anticipated for foundations on the Head Deposits at this stage (based on medium volume change potential), subject to confirmatory plasticity testing.

#### *9.3.4 Potential Dissolution Features*

Although not encountered in the exploratory holes, as advised previously (see Section 4.1.2), the presence of dissolution features in the chalk bedrock cannot be entirely discounted. As such, a watching brief is recommended during the site strip and foundation construction phases to identify any areas of potential dissolution features. If encountered, advice should be sought from GEG.

#### *9.3.5 Reinforcement of Foundations*

Foundations should be suitably reinforced due to the potential natural variation of strata encountered.

#### *9.3.6 Deepening of Foundations due to Trees*

Deepening of foundations with respect to former, current, and proposed trees is likely to be required in sections of the site where cohesive horizons predominate below the founding depth (in accordance with the aforementioned NHBC guidelines).

#### *9.3.7 Deepening of Foundations due to Made Ground*

Deepening of foundations due to Made Ground is likely to be required locally.

#### *9.3.8 Deepening of Foundations due to Soft/Loose Strata*

Foundations should be deepened below any Grade Dm chalk and any soft strata.

#### *9.3.9 Inspection of Foundation Excavations*

It is recommended that the proposed founding formations are inspected by a suitably experienced engineer prior to construction.

#### *9.3.10 Floor Slabs*

It is recommended that floor slabs are suspended due to the lateral and vertical variation in the strata (including Made Ground and Grade Dm Chalk) to limit differential settlement. However, locally, ground floor slabs may be suitable where Grade Dc or Head Deposits are confirmed to extend across the plot.

### **9.4 Chemical Attack on Buried Concrete**

On the basis of the maximum soil soluble sulphate concentration for the site of 651 mg/l, and most acidic pH of 7.9 (excluding the topsoil which is to be stripped), ACEC Class AC-2 (Design Class 2) conditions are indicated to prevail on site as defined in BRE Special Digest 1 (2005) for buried concrete, based on greenfield locations and static groundwater conditions.



## **9.5 Underground Plastic Services**

Special precautions with respect to the protection of underground plastic water mains are not considered necessary for this site based on the information available.

## **9.6 Slope Stability and Retaining Walls**

Based on current ground levels, slope stability is not considered an issue on this site. However, should significant cut/fill be proposed, further assessment is recommended.

Any proposed retaining walls, slopes or significant changes in site profiles would need to be designed by a suitably experienced engineer.

## **9.7 Earthworks**

Recorded moisture contents, bulk and dry densities of the chalk (obtained from the geotechnical testing) ranged from 19% to 30%, 1.94 to 2.11 Mg/m<sup>3</sup> and 1.50 and 1.78 Mg/m<sup>3</sup>, respectively.

The suitability of site won materials as engineering fill should be determined by further testing should significant earthworks be proposed, and a detailed Earthworks Specification produced by GEG. It should be noted that chalk earthworks' compaction requires tight control, particularly related to moisture and voids content.

Prior to commencement of construction, a Materials Management Plan (MMP) should be produced by the contractor or similarly qualified representative, in accordance with current CL:AIRE documentation.

## **9.8 Excavations**

Dewatering of shallow excavations is unlikely to be required except during periods of heavy precipitation or if excavations are to remain open for prolonged periods.

In general shallow excavations are likely to be stable for short periods of time. However, in deeper excavations and/or where shallow groundwater is encountered, excavations are likely to be less stable and will locally require shoring; particularly where excavations extend beyond 1.20 m depth. In accordance with current Health and Safety Requirements, shoring or battering back of excavations is required in all cases where access for personnel is required to enter those excavations whenever there is a risk that collapse of the excavation could occur.

## **9.9 Road Pavement Design**

Recorded in-situ CBR values and associated estimated subgrade surface moduli (E), respectively, were: 6.9% to 10% and 61 to 77 MPa for the Made Ground; 8.4% and 8.6% and 69 and 70 MPa for the cohesive Head Deposits; and 4.9% to 7.3% and 49 and 63 MPa for the Seaford Chalk Formation, as detailed in Section 9.1.8.

A CBR design value of less than 2% is recommended for geotechnically suitable Made Ground together with the use of a suitable geotextile, due to potential variations in the stratum.



CBR values for the Grade Dm and Dc chalk should be confirmed by in-situ CBR testing at the time of construction. Where chalk is highly softened, a CBR value of <2% is recommended together with the use of geotextiles or lime/cement stabilisation (subject to suitability).

The formation should be protected during construction to avoid softening and the works programmed to be undertaken ideally during the drier months. No works should be undertaken during wet conditions.

Where the formation comprises chalk, a minimum thickness of 450 mm of frost resistant material should be provided.

### **9.10 Loose/Soft Spots**

The formation should be inspected for soft/loose spots by a suitably experienced engineer. Soft spots (e.g. soils typically with an undrained shear strength less than 30 kN/m<sup>2</sup>) if encountered should be removed and replaced with suitable well compacted granular material/lean mix concrete as deemed appropriate. Soft spots beneath roads may also require the use of additional geotextiles. Any loose soils at formation level may need to be proof rolled to increase their relative density.

### **9.11 Soakaways**

The infiltration tests undertaken in the Seaford Chalk Formation (including some shallow Head Deposits) yielded infiltration rates of  $1.00 \times 10^{-4}$  to  $7.46 \times 10^{-5}$  m/s.

The dry densities and soil moisture contents (SMC) of the chalk obtained from the geotechnical testing (as detailed in Section 9.1.6) indicate a chalk of low density (5 No. samples) to medium density (5 No. samples), and occasionally high density (1 No. sample). This conformed with the testing previously undertaken by Structural Soils across the wider site (as detailed in Section 5.0).

Concentrated ingress of water into the chalk can initiate new dissolution features, particularly in low density chalk and destabilise the loose backfill of existing ones. With reference to the CIRIA C574 guidance, the distances of soakaway construction from foundations in chalk (Section 7.10.2 – ‘Control of Drainage’) is as follows:

- Where the chalk is of low density, or its density is not known, soakaways should be sited at least 10 m away from any foundations of roads or structures.
- Where the chalk is of medium density (or higher), the closest part of the soakaway should be sited at least 5 m away from any foundations of roads or structures.
- CIRIA also states that soakaways should not be placed under roads.

It should be noted that all GEG samples were taken from trial pits targeting the location of the proposed gardens of properties. However, given the variation in density recorded over relatively short distances (e.g. TPO2: medium density, TP19: high density, and TPO6: low density; which span a limited distance of approximately 40 m) zoning of the site was not possible.



Therefore, it is concluded that the variation in density is randomly spaced and as such soakaways require a minimum distance of 10 m from foundations/roads, as outlined in CIRIA C574. Deep borehole soakaways in the chalk are likely to be possible, and if the infiltration zone is at a suitable depth (say 10 – 15 m) outside any solution features, these could potentially be sited at a minimum distance of 5 m from subject to further localised deep borehole infiltration testing and adherence to appropriate guidance. As such, it is therefore envisaged that a combination of traditional and deep borehole and traditional shallow soakaways could be utilised.

## **10. ENVIRONMENTAL CONCLUSIONS & RECOMMENDATIONS**

Following the findings of the intrusive investigation and generic quantitative risk assessment, the preliminary conceptual site model has been revised as detailed below in Sections 10.1.1 and 10.1.2 and as illustrated in Figures 7A and 7B of Appendix A.

### **10.1 Revised Conceptual Model**

#### *10.1.1 Revised Human Health Conceptual Model*

**Identified Sources:** No significant contamination has been identified in the Made Ground, natural ground or topsoil stockpile for the proposed residential end use by the chemical analyses undertaken to date.

**Potential Risks:** End users of the site and construction/maintenance workers are therefore not considered to be at significant risk from the site as no significant contaminant sources have been identified to date.

#### *10.1.2 Revised Controlled Waters Conceptual Model*

**Potential Sources:** No significant soil sources have been identified.

**Potential Risks:** Risks to Controlled Waters are unlikely to be significant based on the information available.

### **10.2 Ground Gases**

No recorded landfills or other significant sources of ground gas have been identified within influencing distance of the site and no significant Made Ground has been encountered on site. Consequently, risks associated with ground gas are considered very low at this stage and it is recommended that the site is classified as ‘Green’ under the NHBC Traffic Light System.

### **10.3 Risks to Adjacent Land and Third Parties**

The information available indicates that risks to adjacent land from the area investigated are not considered to be significant.



#### **10.4 Risks to Ecological Systems**

No significant sources of contamination have been identified by the soil analyses undertaken for home grown produce, as such it is considered that risks to Ecological Systems from the area investigated are not considered to be significant.

#### **10.5 Risks from Adjacent Land and Third Parties**

Risks from adjacent land are not considered to be significant based on the information available.

#### **10.6 Potential Geo-Environmental Liabilities**

Potential geo-environmental liabilities under Pt2A of the Environmental Protection Act (1990) and the Groundwater Regulations (GWR) 2009, relating to the site in its current condition are not anticipated to be significant.

#### **10.7 Waste Classification**

WAC testing undertaken on 2 No. samples of the topsoil stockpile indicate that the strata can be characterised as non-hazardous / inert waste. Therefore, excess arisings should be suitable for use as general fill on other development sites based on the WAC testing and the total soil analyses.

#### **10.8 Re-Use of Topsoil**

The chemical analysis undertaken indicates that the topsoil present on site (both in situ and within the stockpile) is chemically suitable for re-use.

#### **10.9 Remediation**

##### *10.9.1 Human Health Remedial Measures*

Based on the information available, no specific remedial measures are considered necessary to protect human health.

##### *10.9.2 Protection of Controlled Waters*

No specific remedial measures are considered necessary to protect Controlled Waters from the site itself, based on the information available.

##### *10.9.3 Unidentified Contamination*

GEG should be contacted if any unidentified contamination is encountered as part of any future groundworks, with a view to its assessment and removal.

##### *10.9.4 Unidentified Underground Structures*

GEG should be contacted if any underground structures are encountered such as tanks or wells to determine further requirements.



## 10.10 Further Assessment

The following further work is recommended:

- A watching brief is recommended during the site strip and foundation construction phases to identify any areas of potential dissolution features.
- Additional deep borehole soakaway testing will be required if this option is proposed.

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## 12. LIMITATIONS

As with all intrusive site investigations, there is a possibility that localised contamination 'hotspots'/geotechnical features remain undetected on the site. Therefore, as with standard practices, this report does not provide a warranty to cover limited localised contamination 'hotspots'/geotechnical features or any post-investigation importation of contamination.

The conclusions and recommendations stated herein are based on information available at the time of production. These may not necessarily apply if the site is to be utilised for a more or less sensitive purpose in the future, or if operational procedures or management alter over time.

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It should be noted that any warranty or liability offered or incurred by GEG, related to this report commences from the date of first issue of this report and is not altered by subsequent report revisions.

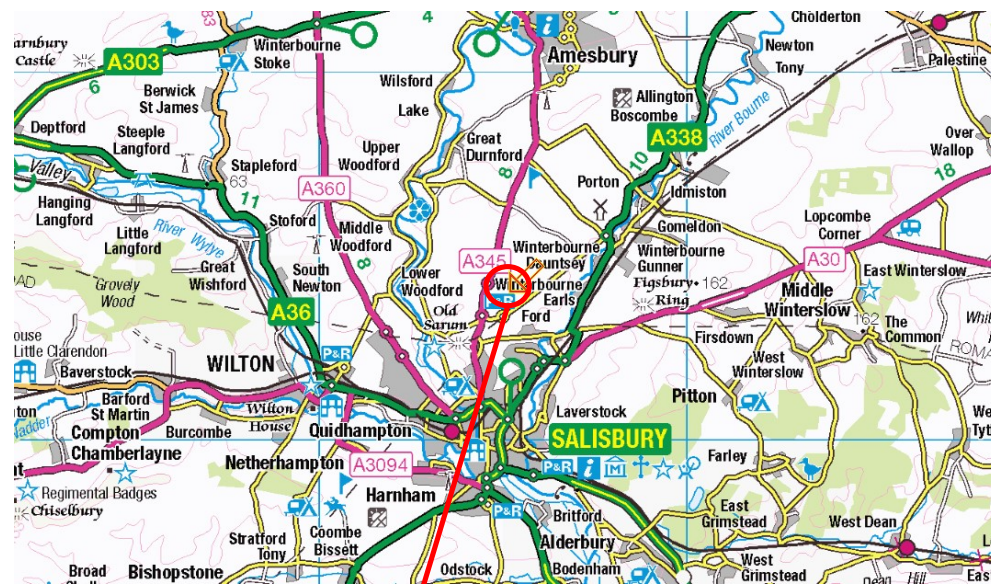
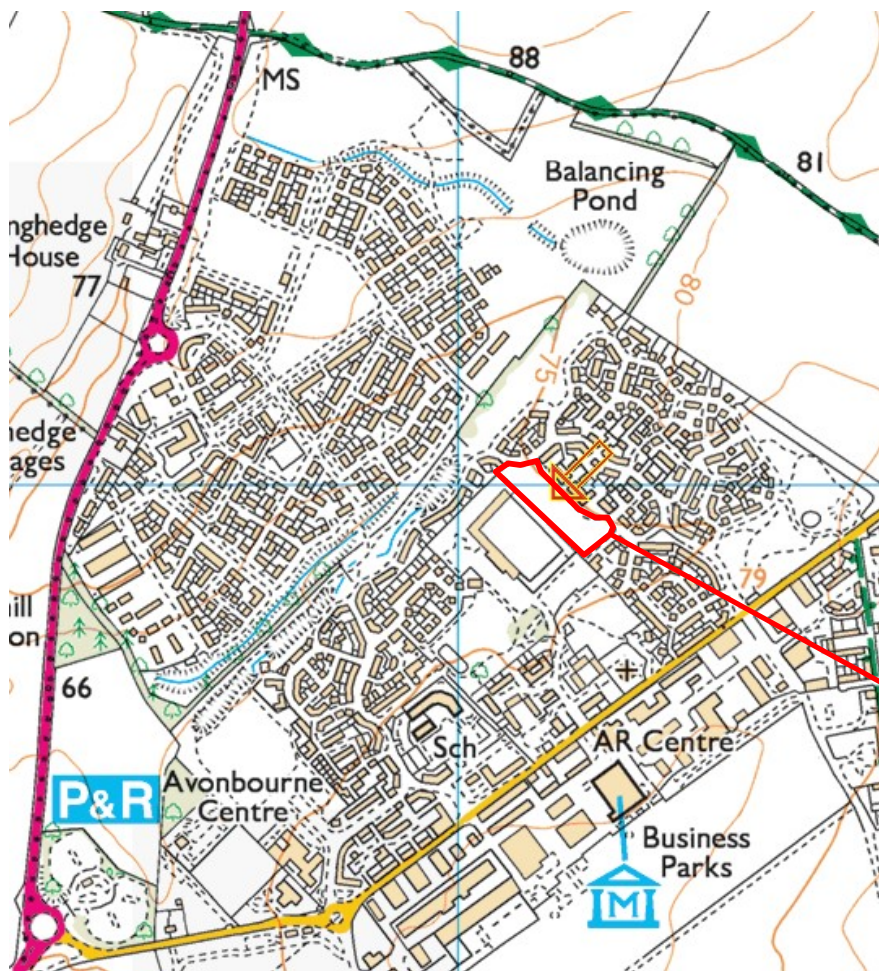
Whilst GEG may identify the presence of potential invasive plant species during the standard geo-environmental walkover and/or investigations, the Client should be aware that ecological issues including an invasive species surveys etc. are beyond the scope of the works and as such no associated liability is accepted by GEG.



## **APPENDIX A**

### **FIGURES AND PLANS**





SITE LOCATION

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**TITLE: FIGURE 1:**  
SITE LOCATION PLAN

**CLIENT:**  
PERSIMMON

**DRAWN/CHECKED:**  
MP / AM

**SITE:** LAND NORTH OF BUNTING  
LANE, OLD SARUM, SALISBURY

**PROJECT No.:**  
GEG-23-786

**SCALE:**  
NTS

**DATE:**  
11/05/23

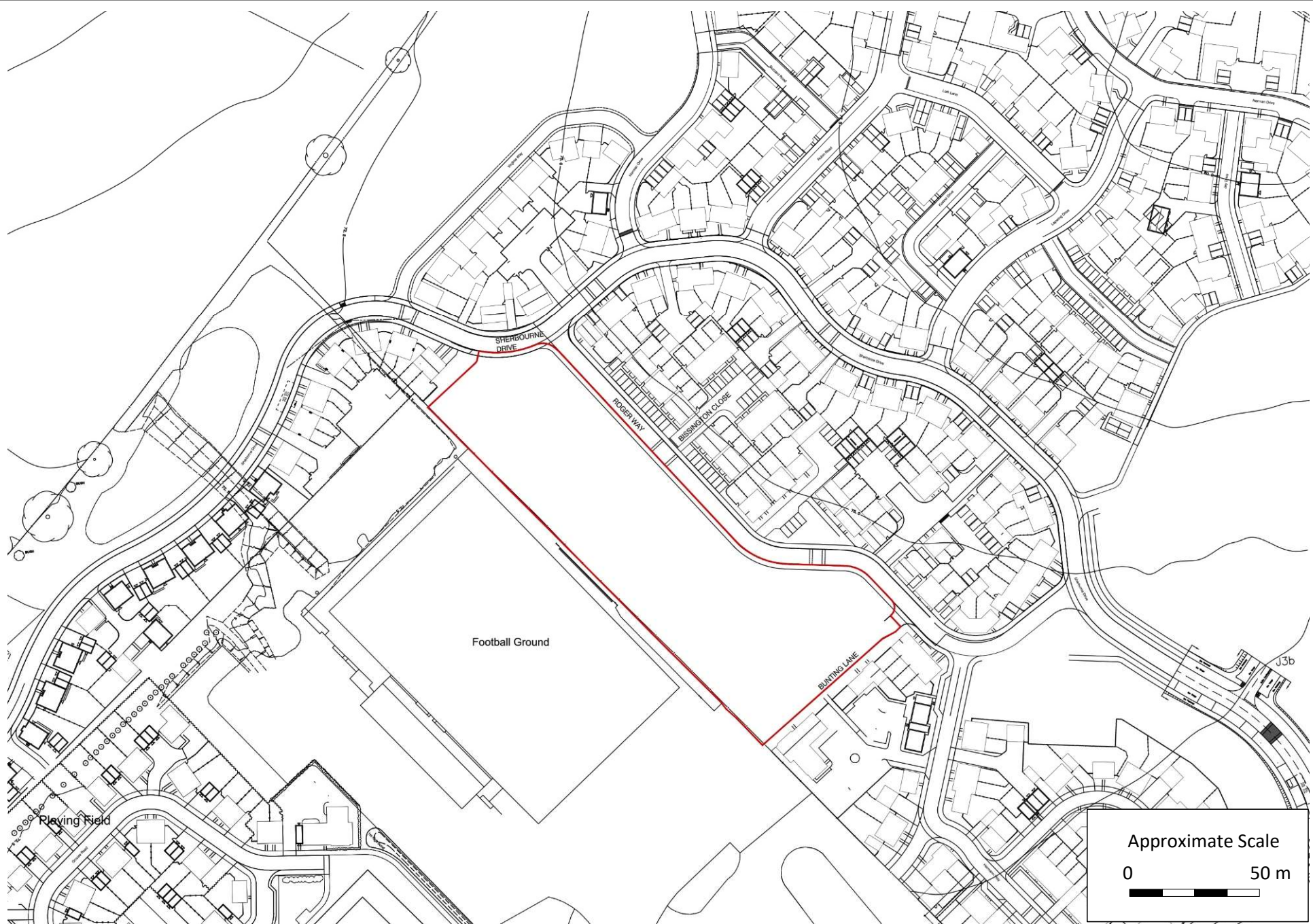
**REVISION:**  
A

GEG House, 17 Graham Road  
Malvern, WR14 2HR  
Tel. 01684 212526  
Fax 01684 576917  
admin@g-eg.co.uk, www.g-eg.co.uk

Geo  
Environmental  
Group







**TITLE:** FIGURE 2A: CURRENT  
LAYOUT PLAN – RED LINE

**CLIENT:**  
PERSIMMON

**DRAWN/CHECKED:**  
MP / AM

GEG House, 17 Graham Road  
Malvern, WR14 2HR  
Tel. 01684 212526  
Fax 01684 576917  
admin@g-eg.co.uk, www.g-eg.co.uk

**SITE:** LAND NORTH OF BUNTING  
LANE, OLD SARUM, SALISBURY

**PROJECT No.:**  
GEG-23-786

**SCALE:**  
As shown

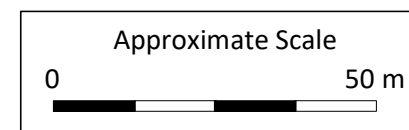
**DATE:**  
11/05/3

**REVISION:**  
A

**Geo  
Environmental  
Group**

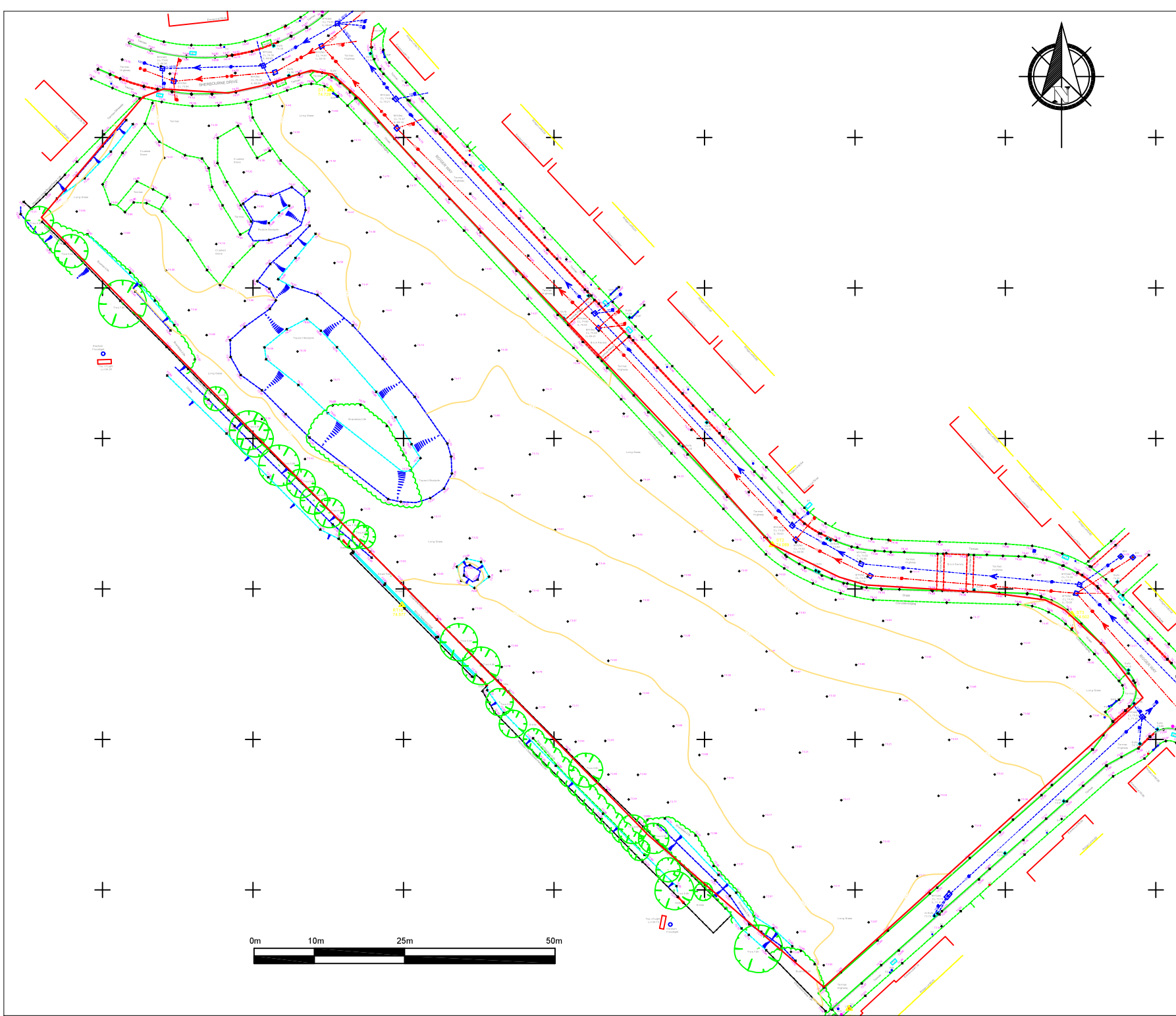






|                                                               |                                   |                                  |                                                                                                                             |                       |                                                                                                                                           |
|---------------------------------------------------------------|-----------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TITLE:</b> FIGURE 2B: CURRENT LAYOUT PLAN – AERIAL         | <b>CLIENT:</b><br>PERSIMMON       | <b>DRAWN/CHECKED:</b><br>MP / AM | GEG House, 17 Graham Road<br>Malvern, WR14 2HR<br>Tel. 01684 212526<br>Fax 01684 576917<br>admin@g-eg.co.uk, www.g-eg.co.uk |                       |                                                                                                                                           |
| <b>SITE:</b> LAND NORTH OF BUNTING LANE, OLD SARUM, SALISBURY | <b>PROJECT No.:</b><br>GEG-23-786 | <b>SCALE:</b><br>As shown        | <b>DATE:</b><br>11/05/3                                                                                                     | <b>REVISION:</b><br>A | <div> <b>Geo<br/>Environmental<br/>Group</b>  </div> |





LEGEND

 GEG RED LINE BOUNDARY

NOTES:  
1. DRAWING TO BE USED IN CONJUNCTION WITH GEG REPORT GEG-23-786/PII.

|                                                                   |                   |                     |                                                                                                                  |                      |
|-------------------------------------------------------------------|-------------------|---------------------|------------------------------------------------------------------------------------------------------------------|----------------------|
| JOB NUMBER<br>GEG-23-786                                          |                   |                     | <br>Geo Environmental Group |                      |
| PROJECT TITLE<br>LAND NORTH OF BUNTING LANE, OLD SARUM, SALISBURY |                   |                     |                                                                                                                  |                      |
| DRAWING TITLE<br>FIGURE 4:<br>EXPLORATORY HOLE LOCATION PLAN      |                   |                     | DRAWING NO.<br>GEG-23-786_001                                                                                    |                      |
| CLIENT<br>PERSIMMON                                               | REVISION NO.<br>A | ORIGINAL SIZE<br>A3 | DIMENSIONS<br>A3<br>METRES                                                                                       | SCALE<br>A3<br>SHOWN |
| DRAWN BY<br>JM                                                    | CHECKED BY<br>MP  | APPROVED BY<br>AM   | ISSUE<br>DRAFT<br>ISSUE                                                                                          | DATE<br>17-05-23     |



#### LEGEND

##### *Superficial Deposits*

[1] Head Deposits

##### *Solid Geology*

[2] Seaford Chalk Formation

[3] Stockbridge Rock Member

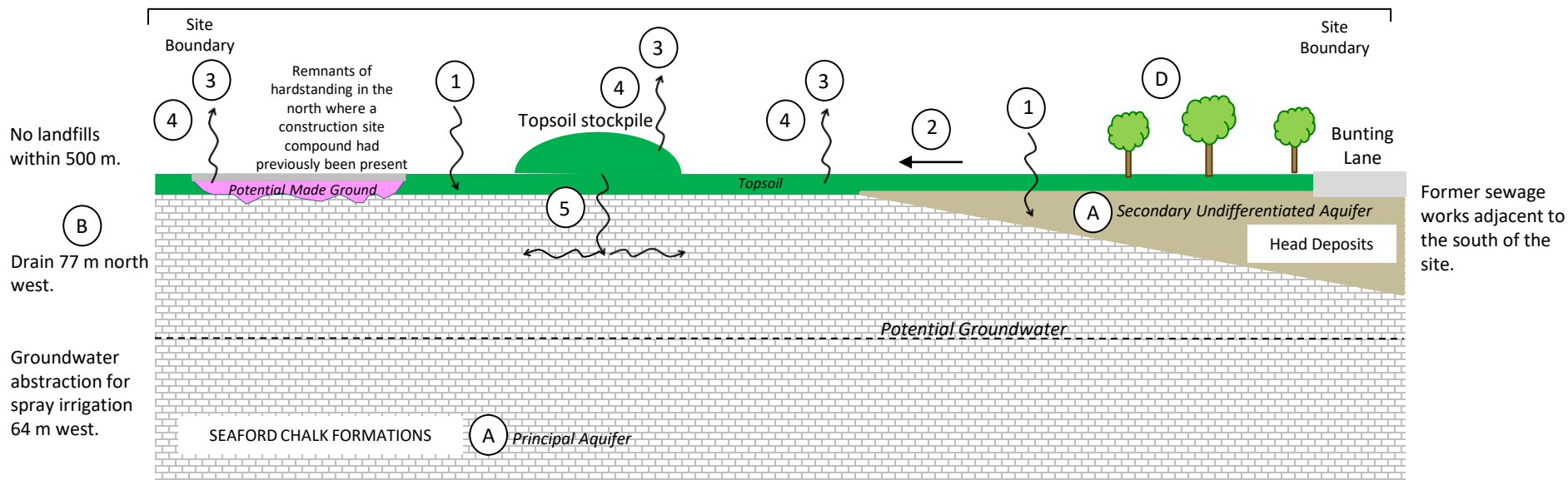
[4] Newhaven Chalk Formation

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|                                                                  |                                   |                                  |                                                                                                                             |                       |
|------------------------------------------------------------------|-----------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>TITLE:</b> FIGURE 3:<br>PUBLISHED GEOLOGY                     | <b>CLIENT:</b><br>PERSIMMON       | <b>DRAWN/CHECKED:</b><br>MP / AM | GEG House, 17 Graham Road<br>Malvern, WR14 2HR<br>Tel. 01684 212526<br>Fax 01684 576917<br>admin@g-eg.co.uk, www.g-eg.co.uk |                       |
| <b>SITE:</b> LAND NORTH OF BUNTING<br>LANE, OLD SARUM, SALISBURY | <b>PROJECT No.:</b><br>GEG-23-786 | <b>SCALE:</b><br>AS SHOWN        | <b>DATE:</b><br>11/05/23                                                                                                    | <b>REVISION:</b><br>A |

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Group**





## PATHWAYS

- ① Infiltration of precipitation
- ② Surface water run off
- ③ Migration of ground gases (methane and carbon dioxide)
- ④ Potential dermal contact, ingestion of contaminated soil and/or dust and inhalation of gases/vapours
- ⑤ Potential leaching/mobilisation of contaminants and lateral and vertical migration

## RECEPTORS

- |                |                                                |
|----------------|------------------------------------------------|
| ① Aquifer type | ③ Building Materials (including plastic pipes) |
| ② Watercourse  | ④ Fauna & Flora                                |

## SIGNIFICANT SOURCES

Potential sources of contamination associated with historical/current site usage (see text)

*Please refer to the text of the report for further information relating to this diagram.*

**TITLE:** FIGURE 4:  
PRELIMINARY CONCEPTUAL SITE MODEL

**SITE:** LAND NORTH OF BUNTING  
LANE, OLD SARUM

**CLIENT:**  
PERSIMMON WESSEX

**PROJECT No.:**  
GEG-23-786

**DRAWN/CHECKED:**  
CM / MP

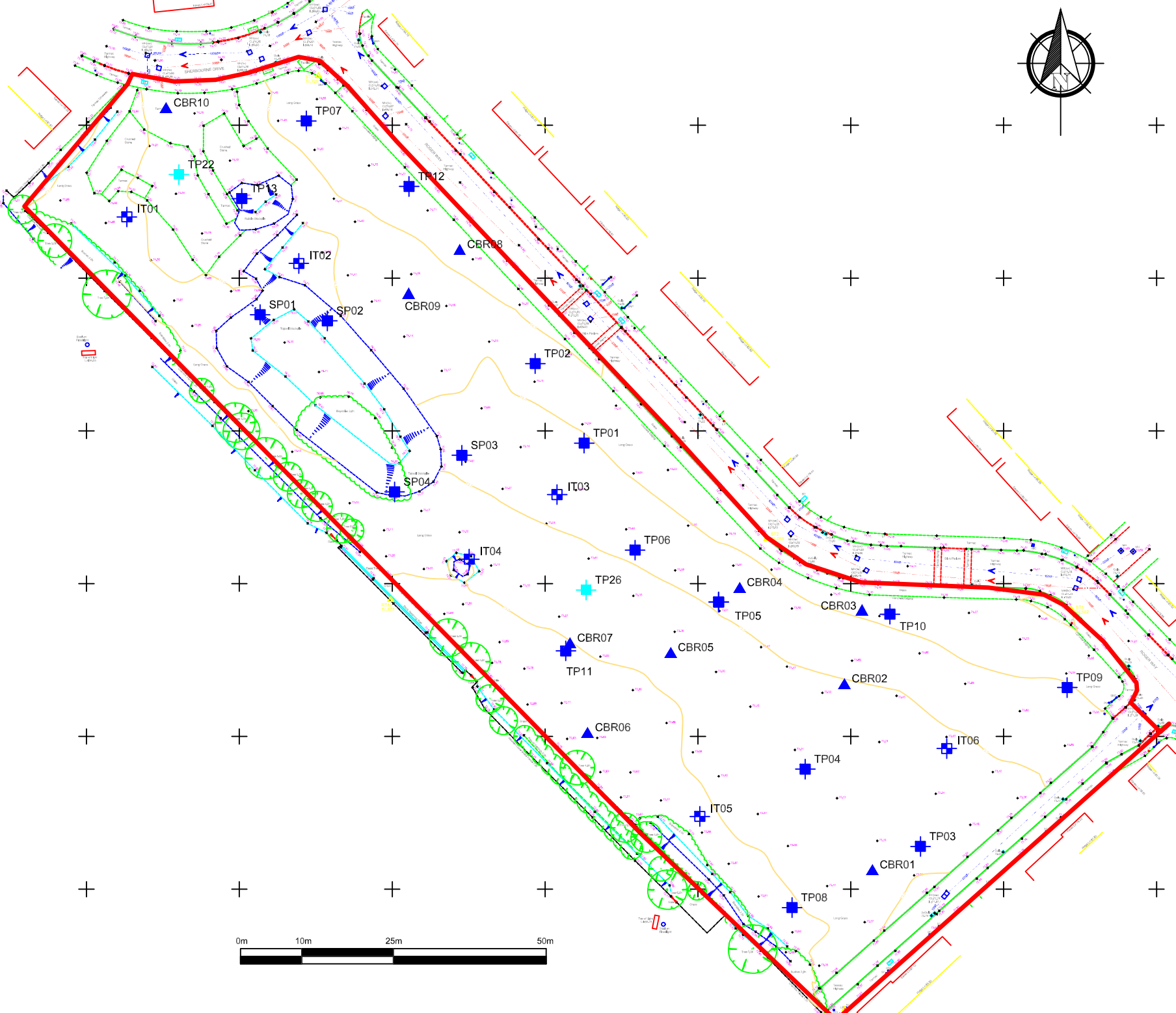
**SCALE:**  
NTS

**DATE:**  
02/06/23

**Geo  
Environmental  
Group**

GEG House  
17 Graham Road  
Malvern  
WR14 2HR  
Tel. 01684 212526  
Fax 01684 576917  
admin@g-eg.co.uk  
www.g-eg.co.uk





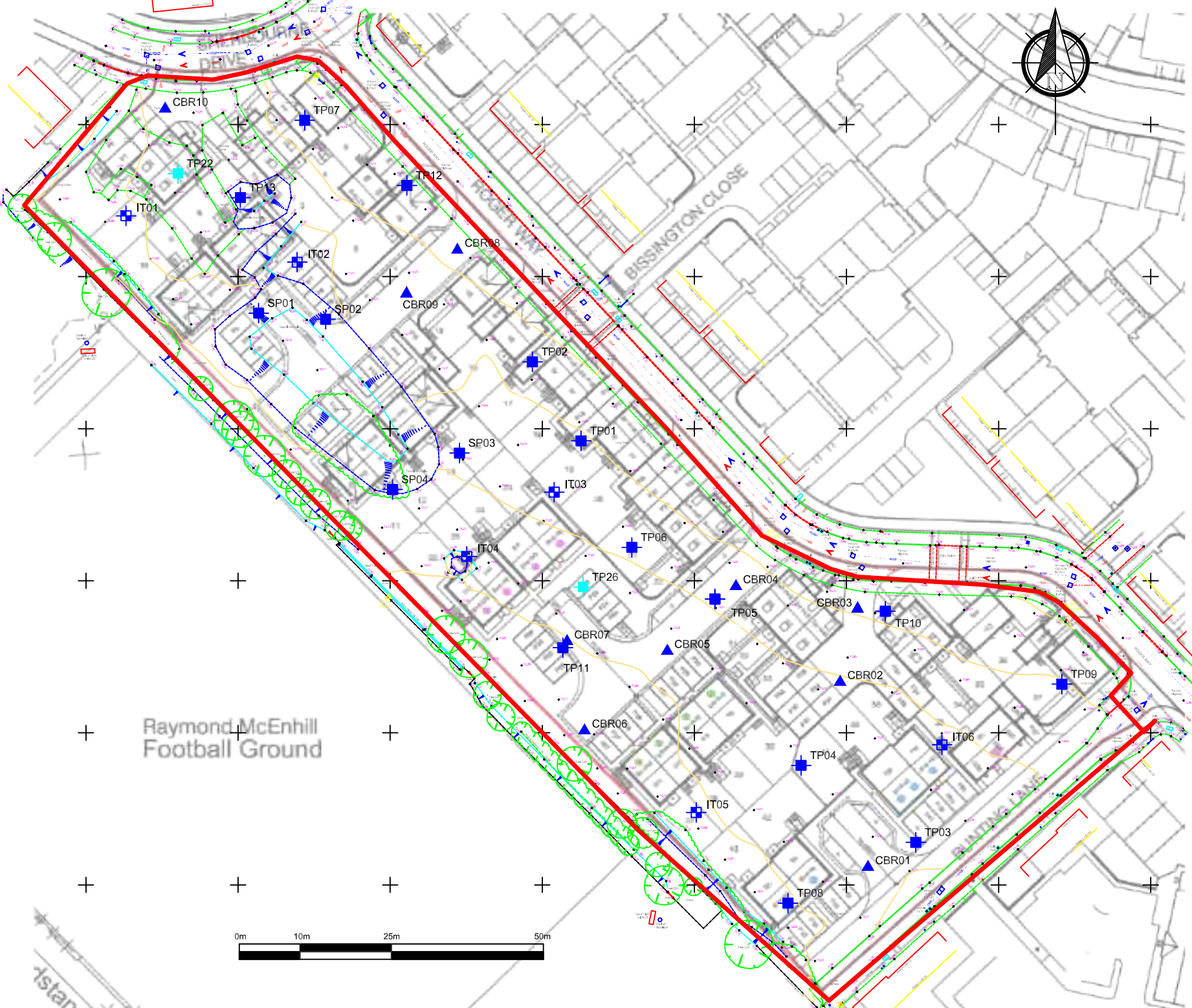
LEGEND

 GEG SITE BOUNDARY

NOTES:  
1. DRAWING TO BE USED IN CONJUNCTION WITH GEG REPORT GEG-23-786/P.II.

|                                                                      |                   |                     |                                                                                                                  |                      |
|----------------------------------------------------------------------|-------------------|---------------------|------------------------------------------------------------------------------------------------------------------|----------------------|
| JOB NUMBER<br>GEG-23-796                                             |                   |                     | <br>Geo Environmental Group |                      |
| PROJECT TITLE<br>LAND NORTH OF BUNTING LANE, OLD<br>SARUM, SALISBURY |                   |                     |                                                                                                                  |                      |
| DRAWING TITLE<br>FIGURE 5:<br>EXPLORATORY HOLE LOCATION PLAN         |                   |                     | DRAWING NO.<br>GEG-23-786_001                                                                                    |                      |
| CLIENT<br>PERSIMMON                                                  | REVISION NO.<br>A | ORIGINAL SIZE<br>A3 | DIMENSIONS<br>METRES                                                                                             | SCALE<br>AS<br>SHOWN |
| DRAWN BY<br>JM                                                       | CHECKED BY<br>MP  | APPROVED BY<br>AM   | ISSUE<br>FINAL<br>ISSUE                                                                                          | DATE<br>17-05-23     |





LEGEND

TP01

GEG TRIAL PIT LOCATION

SP01

GEG STOCKPILE SAMPLE LOCATION

IT01

GEG INFILTRATION TEST LOCATION

CBR01

GEG CBR TEST LOCATION

PREVIOUS INVESTIGATION (2005)

TP01

APPROXIMATE LOCATION OF STRUCTURAL SOILS TRIAL PITS

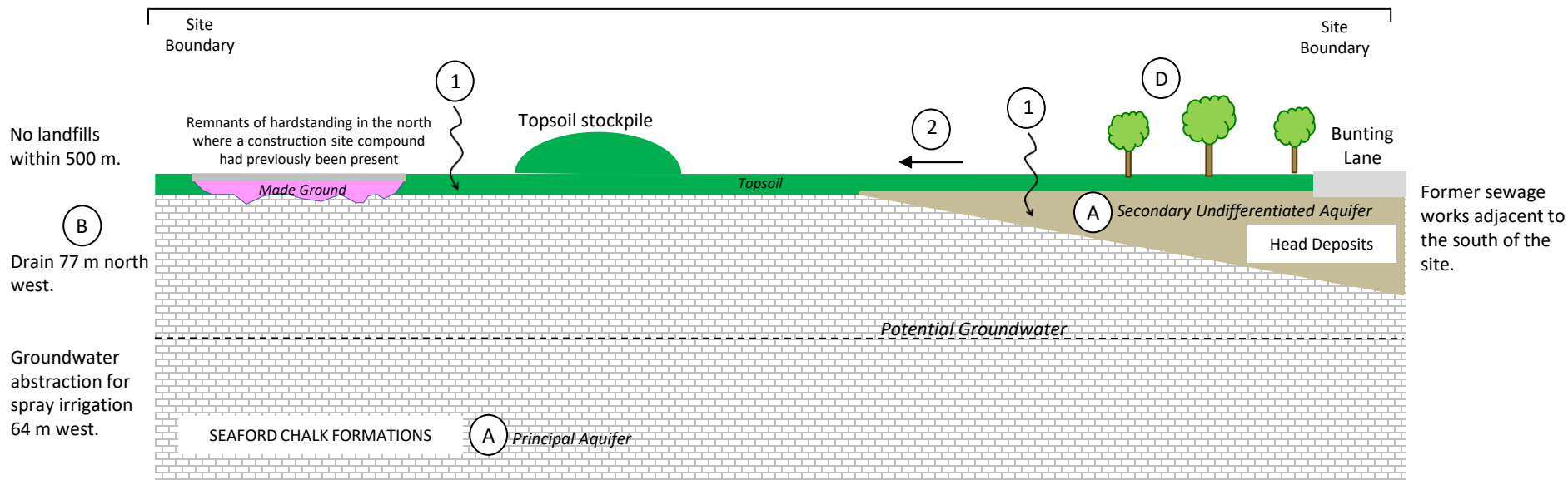
NOTES:

1. BASE IMAGE PROVIDED BY PERSIMMON HOMES.

2. DRAWING TO BE USED IN CONJUNCTION WITH GEG REPORT GEG-23-786/PIL

|                                                                      |                  |                                                                                                                  |                      |                     |
|----------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|
| JOB NUMBER<br>GEG-23-786                                             |                  | <br>Geo Environmental Group |                      |                     |
| PROJECT TITLE<br>LAND NORTH OF BUNTING LANE,<br>OLD SARUM, SALISBURY |                  | DRAWING NO.<br>GEG-23-786_002                                                                                    |                      |                     |
| DRAWING TITLE<br>FIGURE 6:<br>PROPOSED LAYOUT PLAN                   |                  | CLIENT<br>PERSIMMON                                                                                              | REVISION NO.<br>A    | ORIGINAL SIZE<br>A3 |
|                                                                      |                  | DIMENSIONS<br>METRES                                                                                             | SCALE<br>AS SHOWN    | DATE                |
| DRAWN BY<br>JM                                                       | CHECKED BY<br>MP | APPROVED BY<br>MR                                                                                                | ISSUE<br>FINAL ISSUE | 25-05-23            |





## PATHWAYS

- 1 Infiltration of precipitation
- 2 Surface water run off
- 3 Migration of ground gases (methane and carbon dioxide)
- 4 Potential dermal contact, ingestion of contaminated soil and/or dust and inhalation of gases/vapours
- 5 Potential leaching/mobilisation of contaminants and lateral and vertical migration

## RECEPTORS

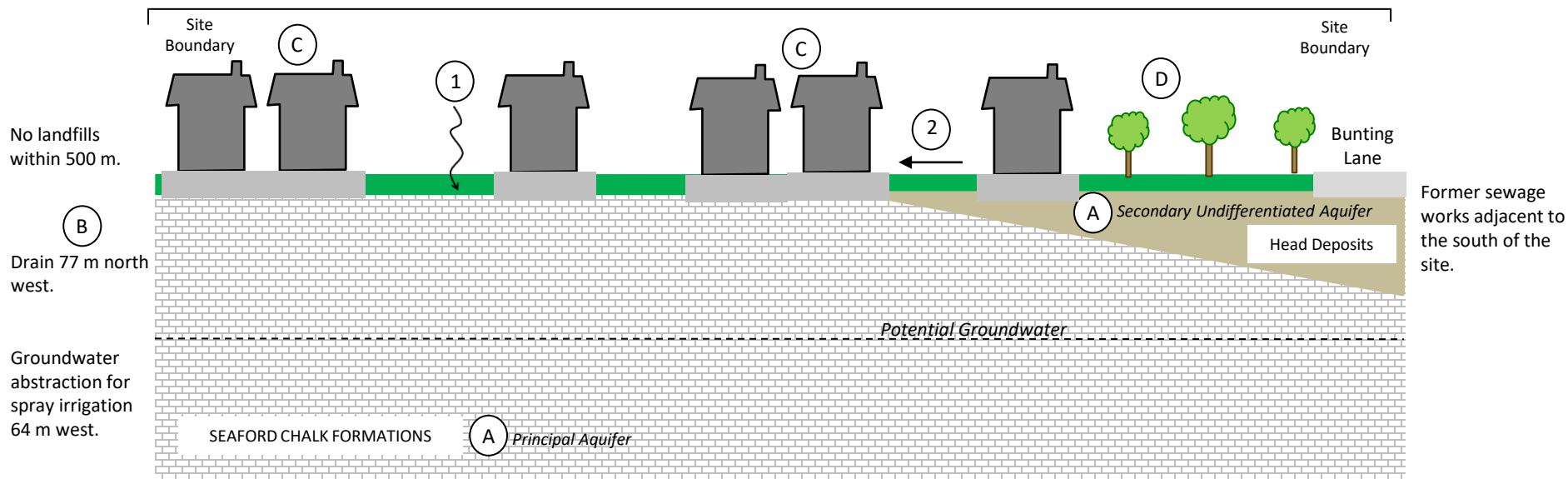
- |                |                                                |
|----------------|------------------------------------------------|
| A Aquifer type | C Building Materials (including plastic pipes) |
| B Watercourse  | D Fauna & Flora                                |

## SIGNIFICANT SOURCES

No significant sources of contamination have been identified associated with historical/current site usage.

Please refer to the text of the report for further information relating to this diagram.

|                                                              |                                  |                                                                                                                                                                                |                                                                                       |
|--------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>TITLE:</b> FIGURE 7A:<br>CONCEPTUAL SITE MODEL (EXISTING) |                                  | <b>Geo<br/>Environmental<br/>Group</b><br><br>GEG House<br>17 Graham Road<br>Malvern<br>WR14 2HR<br>Tel. 01684 212526<br>Fax 01684 576917<br>admin@g-eg.co.uk<br>www.geg.co.uk |  |
| <b>SITE:</b> LAND NORTH OF BUNTING<br>LANE, OLD SARUM        |                                  |                                                                                                                                                                                |                                                                                       |
| <b>CLIENT:</b><br>PERSIMMON WESSEX                           |                                  |                                                                                                                                                                                |                                                                                       |
| <b>PROJECT No.:</b><br>GEG-23-786                            | <b>DRAWN/CHECKED:</b><br>CM / MP |                                                                                                                                                                                |                                                                                       |
| <b>SCALE:</b><br>NTS                                         | <b>DATE:</b><br>02/06/23         |                                                                                                                                                                                |                                                                                       |



## PATHWAYS

- 1 Infiltration of precipitation
- 2 Surface water run off
- 3 Migration of ground gases (methane and carbon dioxide)
- 4 Potential dermal contact, ingestion of contaminated soil and/or dust and inhalation of gases/vapours
- 5 Potential leaching/mobilisation of contaminants and lateral and vertical migration

## RECEPTORS

- |                  |                                                  |
|------------------|--------------------------------------------------|
| (A) Aquifer type | (C) Building Materials (including plastic pipes) |
| (B) Watercourse  | (D) Fauna & Flora                                |

## SIGNIFICANT SOURCES

No significant sources of contamination have been identified associated with historical/current site usage.

Please refer to the text of the report for further information relating to this diagram.

|                                                              |                                  |                                                                                                                                             |
|--------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TITLE:</b> FIGURE 7B:<br>CONCEPTUAL SITE MODEL (PROPOSED) |                                  | <div>Geo<br/>Environmental<br/>Group</div> <div></div> |
| <b>SITE:</b> LAND NORTH OF BUNTING<br>LANE, OLD SARUM        |                                  |                                                                                                                                             |
| <b>CLIENT:</b><br>PERSIMMON WESSEX                           |                                  |                                                                                                                                             |
| <b>PROJECT No.:</b><br>GEG-23-786                            | <b>DRAWN/CHECKED:</b><br>CM / MP |                                                                                                                                             |
| <b>SCALE:</b><br>NTS                                         | <b>DATE:</b><br>02/06/23         |                                                                                                                                             |
|                                                              |                                  | GEG House<br>17 Graham Road<br>Malvern<br>WR14 2HR<br>Tel. 01684 212526<br>Fax 01684 576917<br>admin@g-eg.co.uk<br>www.g-eg.co.uk           |



## **APPENDIX B**

### **PHOTOGRAPHIC RECORD**



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*Photo 1: Existing stockpile bund.*



*Photo 2: View facing east south east.*



*Photo 3: View facing north east.*



*Photo 4: View facing north.*



*Photo 5: View Facing north-west.*



*Photo 6: View facing south east.*



Geo Environmental Group



*Photo 7: View facing south.*



*Photo 8: Western site boundary.*





## **PHASE II INTRUSIVE INVESTIGATION**



Geo Environmental Group



*Photo 1: TP01 - Arisings*



*Photo 2: TP01 - Excavation*



*Photo 3: TP02 - Arisings*



*Photo 4: TP02 - Excavation*



*Photo 5: TP03 - Arisings*



*Photo 6: TP03 - Excavation*





Geo Environmental Group



*Photo 7: TP04 - Arisings*



*Photo 8: TP04 - Excavation*



*Photo 9: TP05 - Arisings*



*Photo 10: TP05 - Excavation*



*Photo 11: TP06 - Arisings*



*Photo 12: TP06 - Excavation*





Geo Environmental Group



*Photo 13: TP07 - Arisings*



*Photo 14: TP07 - Excavation*



*Photo 15: TP08 - Arisings (2)*



*Photo 16: TP08 - Arisings*



*Photo 17: TP08 - Excavation (2)*



*Photo 18: TP08 - Excavation*





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*Photo 19: TP09 - Arisings*



*Photo 20: TP09 - Excavation*



*Photo 21: TP10 - Arisings*



*Photo 22: TP10 - Excavation*



*Photo 23: TP11 - Arisings*



*Photo 24: TP11 - Excavation*





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*Photo 25: TP12 - Arisings*



*Photo 26: TP12 - Excavation*



*Photo 27: TP13 - Arisings*



*Photo 28: TP13 - Excavation*



## **APPENDIX C**

# **ENVIRONMENTAL RISK ASSESSMENT METHODOLOGY**



## **1. ENVIRONMENTAL RISK ASSESSMENT METHODOLOGY**

### **1.1 Regulatory Controls**

Contaminated land in England is principally controlled by:

- Part 2A of the Environmental Protection Act (1990) and accompanying Statutory Guidance.
- Planning and Development Controls.

Part 2A relates to contaminated land risks from land in its current condition, whilst the planning and development control essentially is applicable to new developments which fall within the planning regime and applies to the proposed end use of the land.

These two key pieces of legislation are discussed further in the following sections together with other potentially relevant systems.

### **1.2 Environmental Protection Act - Part 2A**

Part 2A of the Environmental Protection Act (1990) [EPA], which was introduced by section 57 of the Environment Act 1995, requires an overall risk-based approach to dealing with contaminated sites, to ensure that they are 'suitable for use'.

DETR Circular 02/2000 'Contaminated Land' which came into force in England on 1st April 2000 provided accompanying regulations and Statutory Guidance. This was superseded by DEFRA Circular 01/2006 'Contaminated Land' which included amendments to address land contaminated by radioactivity.

#### **Definition of Contaminated Land**

Contaminated land is defined in section 78A(2) of Part 2A as:

'Any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in on or under the land, that –

- Significant harm is being caused or there is a significant possibility of such harm being caused; or
- Pollution of controlled waters is being, or is likely to be caused.'

The Water Act 2003 s86 modified the definition of contaminated land to:

Any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in on or under the land, that –

- Significant harm is being caused or there is a significant possibility of such harm being caused; or
- Significant pollution of controlled waters is being caused, or there is a significant possibility of such pollution being caused.'



Recent changes to Part 2A require the local authority to use a four category system to decide whether or not land is designated as contaminated land.

Category 1 describes land which is clearly problematic e.g. because similar sites are known to have caused a significant problem in the past.

Categories 2 and 3 cover the less straightforward land where detailed consideration is needed before deciding whether it is contaminated land. The test rests on whether or not the Local Authority believes there is a strong case for regulatory action – and thus whether it should be placed into Category 2 (contaminated land) or Category 3 (not contaminated land). The decision basis is initially related to human health risks, and if this is not conclusive due to uncertainty over risks, wider socio-economic factors (e.g. cost, views of local people etc.).

Category 4 describes land that is clearly not contaminated land. The new Category 4 test is particularly important in terms of reducing uncertainty over when land is clearly not contaminated land in the legal sense. Land at or below SGV/GAC levels derived using the CLEA methodology is likely to be well within Category 4. DEFRA are currently in the process of producing Category 4 screening levels. PT2A states that normal levels of contaminants in soil should not be considered to cause land to qualify as contaminated land, unless there is a particular reason to consider otherwise. DEFRA have commissioned BGS to produce a report determining normal levels of contaminants in UK soils.

Once land has been determined as contaminated land, the enforcing authority must consider how it should be remediated and, where appropriate, it must issue a remediation notice to require such remediation. The enforcing authority for the purposes of remediation may be the local authority which determined the land, or the Environment Agency, which takes on responsibility once land has been determined if the land is deemed to be a “special site”. The rules on what land is to be regarded as special sites, and various rules on the issuing of remediation notices, are set out in the Contaminated Land (England) Regulations 2006.

### **‘Special Sites’**

In certain cases, the Environment Agency is the regulatory authority for the contaminated land legislation. This arises if the site under investigation has been used for certain processes, or if the site is situated on bedrock classed as a Principal Aquifer (i.e. water-bearing strata). In the legislation, these sites are referred to as “Special Sites”.

## **1.3 Planning and Development Controls**

The Part 2A contaminated land regime will not normally apply where land is being managed within the normal cycle of land redevelopment and regeneration, where planning and development control will continue to be the primary means of control.

Land contamination, or the possibility of it, is a material consideration for the purposes of town and country planning. Current planning control on contaminated land is set out in **National Planning Policy Framework (2018)**, which was published in July 2018, and replaces the original 2012 NPPF.





**National Planning Policy Framework (England)** is intended to complement the pollution control framework under the Pollution Prevention and Control Act 1999 and the PPC Regulations 2000.

In addition to the planning system, the **Building Regulations 1991** (made under the Building Act 1984) may require measures to be taken to protect the fabric of new buildings, and their future occupants, from the effects of contamination. Approved Document Part C (Site Preparation and Resistance to Contaminates and Moisture) 2004 edition gives guidance on these requirements.

#### **1.4 Environmental Protection Act 1990 Part III – Statutory Nuisance**

Statutory nuisance provisions will no longer apply where the nuisance arises regarding land in a ‘contaminated state’. However, nuisance provisions could still apply where land gives rise to a nuisance (such as an odour) that is an offence to human senses but which is not covered under the various categories of harm set out in the Contaminated Land Statutory Guidance.

#### **1.5 Permitted Installations**

Part 2A will not apply where the Environment Agency or the Local Authority has powers under Integrated Pollution Prevention and Control (IPPC) provisions of the Environmental Permitting Regulations 2007 to take action to remedy contamination resulting from the breach of an installation permit.

#### **Waste Management Licensing (Part II of EPA 1990)**

Part 2A will not normally apply where contamination has resulted from land subject to a waste management licence, although it may apply where adverse effects arise from causes other than a breach of licence conditions or from activities that are permitted under the licence. Licences are regulated and issued by the Environment Agency.

Waste management licensing is currently being incorporated into the Environmental Permitting Regulations (see Permitted Installations).

#### **1.6 Water Resources Act (WRA) 1991**

Sections 161 to 161D of the Water Resources Act 1991 give the Environment Agency powers to take action to prevent or remedy the pollution of controlled waters. The Agency can serve a ‘works notice’ on any person who has ‘caused or knowingly permitted’ potential pollution to be in a place from which it is likely to enter controlled waters, or to have caused or knowingly permitted a pollutant to enter controlled waters. The works notice specifies what actions have to be taken in what time periods. Where urgent action is required or a works notice is not complied with, the Agency has the power to carry out the works itself and recover costs from the appropriate person.

The Water Resources Act may apply where the Part 2A regime does not, for example where there is historical pollution of groundwater.

The Water Act 2003 includes a provision, not yet commenced, to amend the current Part 2A definition of pollution of controlled waters to introduce a ‘significance’ test. The Government propose to return to this issue when a



significance test for radioactive and non-radioactive contamination can be considered together.

## 1.7 Groundwater Regulations (GWR) 2009

The existing Groundwater Directive (80/68/EEC) aims to protect groundwater from pollution by controlling discharges and disposals of certain dangerous substances to groundwater. In the UK, the directive is implemented through the Groundwater Regulations (GWR) 2009.

Groundwater is protected under these regulations by preventing or limiting the inputs of polluting substances into groundwater. Substances controlled under these regulations fall into two categories:

- **Hazardous** substances are the most toxic and must be prevented from entering groundwater. Substances in this list may be disposed of to the ground, under a permit, but must not reach groundwater. They include pesticides, sheep dip, solvents, hydrocarbons, mercury, cadmium and cyanide. Hazardous substances replace the previous List 1 substances which came under the 1998 GWR.
- **Non-hazardous pollutants** are less dangerous, and can be discharged to groundwater under a permit, but must not cause pollution. Examples include sewage, trade effluent and most wastes. Non-hazardous pollutants include any substance capable of causing pollution and the list is much wider than the previous List 2 substances. For example, nitrate is included as a pollutant but it was excluded from List 2 in the 1998 GWR.

The existing Groundwater Directive is to be repealed by the Water Framework Directive 2000/60/EC (WFD) in 2013. The GWR 2009 has recently been made law to enact both the WFD and its Daughter Directive 2006/118/EC on the protection of groundwater. This new Groundwater Directive (2006/118/EC) is commonly referred to as the Groundwater Daughter Directive (GWDD).

## 1.8 Suitable for Use Approach

In practice, most sites with a previous potentially contaminating history are remediated to a condition 'suitable for use' under the planning regime rather than the Part 2A legislation.

The 'suitable for use' approach outlined in DEFRA Circular 01/2006 consists of the following three elements:

- Ensuring that land is suitable for its current use.
- Ensuring that land is made suitable for any new use, as planning permission is given for that new use.
- Limiting requirements for remediation to the work necessary to prevent unacceptable risks to human health or the environment regarding the current use or future use of land for which planning permission is being sought.



Where new development is taking place, it will be the responsibility of the developer to carry out the necessary remediation. In most cases, the enforcement of any remediation requirements will be through planning conditions and building control, rather than through a remediation notice issued under Part 2A.

## **1.9 Assessment Methodology**

The Environment Agency (EA) issued new online guidance on 8<sup>th</sup> October 2020 regarding Land Contamination Risk Management (LCRM).

The LCRM is made up of three stages.

1. LCRM: Risk assessment.
2. LCRM: Options Appraisal.
3. LCRM: Remediation and Verification.

The EA use a three staged risk based approach and each stage is broken down into tiers or steps as detailed below.

### **Stage 1: Risk Assessment**

A three tiered approach to risk assessment is recommended:

1. Preliminary risk assessment.
2. Generic quantitative risk assessment.
3. Detailed quantitative risk assessment.

Stage 1 includes information for intrusive site investigations (formerly known as the Phase I Geo-Environmental Assessment – Desk Study). Stages 2 and 3 were formerly known as the Phase II Geo-Environmental (Intrusive) Assessment. As the risk assessment procedure has remained unchanged, GEG have retained the universally understood Phase I and Phase II titles, which now refer to the revised Stage 1 Risk Assessment as outlined.

### **Stage 2: Options Appraisal**

There are three steps to an Options Appraisal as detailed below:

1. Identify feasible remediation options.
2. Do a detailed evaluation of options.
3. Select the final remediation option.

### **Stage 3: Remediation and Verification**

There are four steps to remediation and verification comprising:

1. Development of a remediation strategy.
2. Remediation.



3. Production of a verification report.
4. Undertaking of long term monitoring and maintenance, if required.

### **Overview of LCRM**

The LCRM process always starts with a preliminary risk assessment.

The risk assessment stage is an iterative process. The three tiers can be undertaken in order or progression can be made directly from a preliminary risk assessment to a detailed quantitative risk assessment. As part of a generic or detailed quantitative risk assessment collection of detailed information about the site will be required. This is usually through an intrusive site investigation.

Depending on the level of risk or regulatory requirements, progression from a preliminary risk assessment to the options appraisal stage can be made. If progression is made directly to the options appraisal stage, collection of detailed site investigation information will be required by the generic and detailed quantitative risk assessments, to confirm that the approach is viable and acceptable.

Following the risk assessment stage, if it is concluded that the risks are acceptable, with agreement from the relevant regulator, then the process can end.

If there are unacceptable risks then remediation or mitigation is required in accordance with stages 2 and 3.

In Stage 2 Options Appraisal, the following will be undertaken:

1. Consideration of the most feasible options.
2. Production of a shortlist of options.
3. Evaluation and assessment of the shortlisted options.
4. Selection of which ones are the most suitable to take forward to Stage 3.

In Stage 3 Remediation and Verification, a remediation strategy will be produced, remediation undertaken and a verification report produced.

At the Options Appraisal stage it will be determined if long term monitoring and maintenance is the remediation option. Post-remediation monitoring may be required for further verification.

### **Determination of Risk**

A pollutant linkage must be present for there to be a Source-Pathway-Receptor relationship as defined below.

**Source** - a contaminant or pollutant that is in, on or under the land and that has the potential to cause harm or pollution.

**Pathways** - a route by which a receptor is or could be affected by a contaminant.





**Receptors** - something that could be adversely affected by a contaminant, for example a person, Controlled Waters, an organism, an ecosystem, or Part 2A receptors such as buildings, crops or animals.

**Without a pollutant linkage, there is not a risk** - even if a contaminant is present.



## **APPENDIX D**

### **ENVIRONMENTAL INFORMATION**



# Envirocheck<sup>®</sup> Report:

## Datasheet

### Order Details:

**Order Number:**

310397757\_1\_1

**Customer Reference:**

GEG-23-786

**National Grid Reference:**

415150, 133960

**Slice:**

A

**Site Area (Ha):**

0.91

**Search Buffer (m):**

1000

### Site Details:

Old Sarum

Salisbury

SP4 6PU

### Client Details:

Mr M Perks

Geo Environmental Group

GEG House

17 Graham Road

Malvern

Worcestershire

WR14 2HR



| Report Section        | Page Number |
|-----------------------|-------------|
| Summary               | -           |
| Agency & Hydrological | 1           |
| Waste                 | 13          |
| Hazardous Substances  | -           |
| Geological            | 14          |
| Industrial Land Use   | 17          |
| Sensitive Land Use    | 22          |
| Data Currency         | 23          |
| Data Suppliers        | 27          |
| Useful Contacts       | 28          |

## Introduction

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

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## Report Version v53.0





## Summary

| Data Type                                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Agency &amp; Hydrological</b>                              |             |         |           |             |                             |
| BGS Groundwater Flooding Susceptibility                       | pg 1        | Yes     | Yes       |             | n/a                         |
| Contaminated Land Register Entries and Notices                |             |         |           |             |                             |
| Discharge Consents                                            |             |         |           |             |                             |
| Prosecutions Relating to Controlled Waters                    |             |         | n/a       | n/a         | n/a                         |
| Enforcement and Prohibition Notices                           |             |         |           |             |                             |
| Integrated Pollution Controls                                 |             |         |           |             |                             |
| Integrated Pollution Prevention And Control                   |             |         |           |             |                             |
| Local Authority Integrated Pollution Prevention And Control   |             |         |           |             |                             |
| Local Authority Pollution Prevention and Controls             | pg 1        |         |           | 1           |                             |
| Local Authority Pollution Prevention and Control Enforcements |             |         |           |             |                             |
| Nearest Surface Water Feature                                 | pg 1        |         | Yes       |             |                             |
| Pollution Incidents to Controlled Waters                      |             |         |           |             |                             |
| Prosecutions Relating to Authorised Processes                 |             |         |           |             |                             |
| Registered Radioactive Substances                             | pg 1        |         |           | 2           |                             |
| River Quality                                                 |             |         |           |             |                             |
| River Quality Biology Sampling Points                         |             |         |           |             |                             |
| River Quality Chemistry Sampling Points                       |             |         |           |             |                             |
| Substantiated Pollution Incident Register                     | pg 1        |         |           |             | 1                           |
| Water Abstractions                                            | pg 2        |         | 6         |             | 2 (*14)                     |
| Water Industry Act Referrals                                  |             |         |           |             |                             |
| Groundwater Vulnerability Map                                 | pg 7        | Yes     | n/a       | n/a         | n/a                         |
| Groundwater Vulnerability - Soluble Rock Risk                 | pg 8        | 2       | n/a       | n/a         | n/a                         |
| Bedrock Aquifer Designations                                  | pg 8        | Yes     | n/a       | n/a         | n/a                         |
| Superficial Aquifer Designations                              | pg 8        | Yes     | n/a       | n/a         | n/a                         |
| Source Protection Zones                                       | pg 8        | 2       | 1         |             |                             |
| Extreme Flooding from Rivers or Sea without Defences          |             |         |           | n/a         | n/a                         |
| Flooding from Rivers or Sea without Defences                  |             |         |           | n/a         | n/a                         |
| Areas Benefiting from Flood Defences                          |             |         |           | n/a         | n/a                         |
| Flood Water Storage Areas                                     |             |         |           | n/a         | n/a                         |
| Flood Defences                                                |             |         |           | n/a         | n/a                         |
| OS Water Network Lines                                        | pg 9        |         | 8         | 17          | 4                           |



## Summary

| Data Type                                                           | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Waste</b>                                                        |             |         |           |             |                             |
| BGS Recorded Landfill Sites                                         |             |         |           |             |                             |
| Historical Landfill Sites                                           |             |         |           |             |                             |
| Integrated Pollution Control Registered Waste Sites                 |             |         |           |             |                             |
| Licensed Waste Management Facilities (Landfill Boundaries)          |             |         |           |             |                             |
| Licensed Waste Management Facilities (Locations)                    |             |         |           |             |                             |
| Local Authority Landfill Coverage                                   | pg 13       | 2       | n/a       | n/a         | n/a                         |
| Local Authority Recorded Landfill Sites                             |             |         |           |             |                             |
| Registered Landfill Sites                                           |             |         |           |             |                             |
| Registered Waste Transfer Sites                                     |             |         |           |             |                             |
| Registered Waste Treatment or Disposal Sites                        |             |         |           |             |                             |
| <b>Hazardous Substances</b>                                         |             |         |           |             |                             |
| Control of Major Accident Hazards Sites (COMAH)                     |             |         |           |             |                             |
| Explosive Sites                                                     |             |         |           |             |                             |
| Notification of Installations Handling Hazardous Substances (NIHHS) |             |         |           |             |                             |
| Planning Hazardous Substance Consents                               |             |         |           |             |                             |
| Planning Hazardous Substance Enforcements                           |             |         |           |             |                             |
| <b>Geological</b>                                                   |             |         |           |             |                             |
| BGS 1:625,000 Solid Geology                                         | pg 14       | Yes     | n/a       | n/a         | n/a                         |
| BGS Recorded Mineral Sites                                          |             |         |           |             |                             |
| CBSCB Compensation District                                         |             |         | n/a       | n/a         | n/a                         |
| Coal Mining Affected Areas                                          |             |         | n/a       | n/a         | n/a                         |
| Mining Instability                                                  |             |         | n/a       | n/a         | n/a                         |
| Man-Made Mining Cavities                                            |             |         |           |             |                             |
| Natural Cavities                                                    |             |         |           |             |                             |
| Non Coal Mining Areas of Great Britain                              | pg 14       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Collapsible Ground Stability Hazards                  | pg 14       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Compressible Ground Stability Hazards                 |             |         |           | n/a         | n/a                         |
| Potential for Ground Dissolution Stability Hazards                  | pg 14       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Landslide Ground Stability Hazards                    | pg 14       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Running Sand Ground Stability Hazards                 | pg 15       | Yes     | Yes       | n/a         | n/a                         |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards   | pg 15       | Yes     | Yes       | n/a         | n/a                         |
| Radon Potential - Radon Affected Areas                              |             |         | n/a       | n/a         | n/a                         |
| Radon Potential - Radon Protection Measures                         |             |         | n/a       | n/a         | n/a                         |



## Summary

| Data Type                            | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|--------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Industrial Land Use</b>           |             |         |           |             |                             |
| Contemporary Trade Directory Entries | pg 17       |         | 3         | 28          | 21                          |
| Fuel Station Entries                 |             |         |           |             |                             |
| Gas Pipelines                        |             |         |           |             |                             |
| Underground Electrical Cables        |             |         |           |             |                             |
| <b>Sensitive Land Use</b>            |             |         |           |             |                             |
| Ancient Woodland                     |             |         |           |             |                             |
| Areas of Adopted Green Belt          |             |         |           |             |                             |
| Areas of Unadopted Green Belt        |             |         |           |             |                             |
| Areas of Outstanding Natural Beauty  |             |         |           |             |                             |
| Environmentally Sensitive Areas      |             |         |           |             |                             |
| Forest Parks                         |             |         |           |             |                             |
| Local Nature Reserves                |             |         |           |             |                             |
| Marine Nature Reserves               |             |         |           |             |                             |
| National Nature Reserves             |             |         |           |             |                             |
| National Parks                       |             |         |           |             |                             |
| Nitrate Sensitive Areas              |             |         |           |             |                             |
| Nitrate Vulnerable Zones             | pg 22       | 1       |           |             |                             |
| Ramsar Sites                         |             |         |           |             |                             |
| Sites of Special Scientific Interest |             |         |           |             |                             |
| Special Areas of Conservation        |             |         |           |             |                             |
| Special Protection Areas             |             |         |           |             |                             |
| World Heritage Sites                 |             |         |           |             |                             |



## Agency & Hydrological

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A13NW (NE)                             | 0                            | 1       | 415154<br>133963 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A13NW (W)                              | 65                           | 1       | 415000<br>133963 |
| 1      | <b>Prosecutions Relating to Controlled Waters</b><br>Location: Raymond Mcenhill Stadium, Partridge Way, Old Sarum, Salisbury, Sp4 6pu<br>Prosecution Text: Abstracting excess volumes of water<br>Prosecution Act: Wra91 S24(1a)<br>Hearing Date: 27th April 2008<br>Verdict: Guilty<br>Fine: 3000<br>Cost: 1392<br>Positional Accuracy: Manually positioned within the geographical locality                                                                                                                                                                                                                                                          | A13SW (SW)                             | 115                          | 3       | 415043<br>133872 |
| 2      | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Shrewton Laundry Ltd<br>Location: Unit 12a Sarum Business Park, Old Sarum, SP4 6FB<br>Authority: Wiltshire Council, Environmental Health Department<br>Permit Reference: WC/EP127<br>Dated: Not Supplied<br>Process Type: Local Authority Pollution Prevention and Control<br>Description: PG6/45 Surface cleaning<br><b>Status: Permitted</b><br>Positional Accuracy: Manually positioned to the address or location                                                                                                                                                                | A8NW (S)                               | 396                          | 2       | 415076<br>133506 |
|        | <b>Nearest Surface Water Feature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A13NW (NW)                             | 77                           | -       | 414990<br>134032 |
| 3      | <b>Registered Radioactive Substances</b><br>Name: John K Brehm<br>Location: Unit 6, Centre One Old Sarum Park, Lysander Way Old Sarum, SALISBURY, Wiltshire, SP4 6BU<br>Authority: Environment Agency, South West Region<br>Permit Reference: BF1432<br>Dated: 17th May 1999<br>Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)<br>Description: Authorisation under RSA in respect of a registration under S7 when Technetium 99M is used being =< 10 gigabecquerels<br><b>Status: Authorisation either revoked or cancelled</b><br>Positional Accuracy: Manually positioned to the address or location | A13SE (SE)                             | 300                          | 3       | 415380<br>133650 |
| 3      | <b>Registered Radioactive Substances</b><br>Name: John K Brehm<br>Location: Unit 6, Centre One Old Sarum Park, Lysander Way Old Sarum, SALISBURY, Wiltshire, SP4 6BU<br>Authority: Environment Agency, South West Region<br>Permit Reference: AI7378<br>Dated: 6th August 1993<br>Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)<br>Description: Authorisation under RSA<br><b>Status: Authorisation either revoked or cancelled</b><br>Positional Accuracy: Manually positioned to the address or location                                                                                            | A13SE (SE)                             | 300                          | 3       | 415380<br>133650 |
| 4      | <b>Substantiated Pollution Incident Register</b><br>Authority: Environment Agency - South West Region, Wessex Area<br>Incident Date: 27th March 2009<br>Incident Reference: 665102<br>Water Impact: Category 2 - Significant Incident<br>Air Impact: Category 4 - No Impact<br>Land Impact: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 10m<br>Pollutant: Oils And Fuel: Mixed/Waste Oils                                                                                                                                                                                                                        | A7NE (SW)                              | 767                          | 3       | 414698<br>133298 |



## Agency & Hydrological

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 5      | <b>Water Abstractions</b><br>Operator: Salisbury City Football Club<br>Licence Number: 13/43/021/G/255<br>Permit Version: 102<br>Location: Salisbury City Football Club Borehole #1<br>Authority: Environment Agency, South West Region<br>Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Land At Salisbury Golf Club<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                                      | A13NW (W)                              | 64                           | 3       | 415010 133980 |
| 5      | <b>Water Abstractions</b><br>Operator: Salisbury City Football Club<br>Licence Number: 13/43/021/G/255<br>Permit Version: 102<br>Location: Salisbury City Football Club Borehole #1<br>Authority: Environment Agency, South West Region<br>Abstraction: Sports Grounds/Facilities: Drinking; Cooking; Sanitary; Washing; (Small Garden)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Land At Salisbury City Football Club<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 27th April 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NW (W)                              | 64                           | 3       | 415010 133980 |
| 5      | <b>Water Abstractions</b><br>Operator: Salisbury City Football Club<br>Licence Number: 13/43/021/G/255<br>Permit Version: 101<br>Location: Salisbury City Football Club Borehole #1<br>Authority: Environment Agency, South West Region<br>Abstraction: Sports Grounds/Facilities: Drinking; Cooking; Sanitary; Washing; (Small Garden)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Land At Salisbury City Football Club<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 25th July 2000<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | A13NW (W)                              | 64                           | 3       | 415010 133980 |
| 5      | <b>Water Abstractions</b><br>Operator: Salisbury City Football Club<br>Licence Number: 13/43/021/G/255<br>Permit Version: 101<br>Location: Salisbury City Football Club Borehole #1<br>Authority: Environment Agency, South West Region<br>Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Land At Salisbury Golf Club<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 25th July 2000<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                                      | A13NW (W)                              | 64                           | 3       | 415010 133980 |





| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 5      | <b>Water Abstractions</b><br>Operator: Salisbury City Football Club<br>Licence Number: 13/43/021/G/255<br>Permit Version: 100<br>Location: Salisbury City Football Club Borehole #1<br>Authority: Environment Agency, South West Region<br>Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Quantities Combined For L/S<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 9th May 1997<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                                                                 | A13NW (W)                              | 64                           | 3       | 415010 133980 |
| 5      | <b>Water Abstractions</b><br>Operator: Salisbury City Football Club<br>Licence Number: 13/43/021/G/255<br>Permit Version: 100<br>Location: Salisbury City Football Club Borehole #1<br>Authority: Environment Agency, South West Region<br>Abstraction: Sports Grounds/Facilities: Drinking; Cooking; Sanitary; Washing; (Small Garden)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Land At Salisbury City Football Club Outlined Red On Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 9th May 1997<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A13NW (W)                              | 64                           | 3       | 415010 133980 |
| 6      | <b>Water Abstractions</b><br>Operator: Dolphin Farms Ltd<br>Licence Number: 13/43/024/G/040<br>Permit Version: 100<br>Location: Manor Farm, Laverstock Well #1<br>Authority: Environment Agency, South West Region<br>Abstraction: General Farming And Domestic<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Lands At Laverstock Outlined Red On Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 24th June 1987<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                                                       | A9SW (SE)                              | 852                          | 3       | 415700 133200 |
| 7      | <b>Water Abstractions</b><br>Operator: Lord Chichester<br>Licence Number: 13/43/024/G/035<br>Permit Version: 100<br>Location: Hurdcott Field Barn Well #1<br>Authority: Environment Agency, South West Region<br>Abstraction: General Farming And Domestic<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Lands At Winterbourne Outlined Red On Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 29th September 1976<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                                                     | A19NW (N)                              | 951                          | 3       | 415500 134900 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>Water Abstractions</b><br>Operator: Mr & Mrs E Ripplier<br>Licence Number: 13/43/024/S/112<br>Permit Version: 100<br>Location: R Bourne At Ford<br>Authority: Environment Agency, South West Region<br>Abstraction: Private Non-Industrial Amenity: Lake And Pond Throughflow<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Lands At Laverstock Outlined In Red On Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2019<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A4NE (SE)                              | 1417                         | 3       | 416100<br>132795 |
|        | <b>Water Abstractions</b><br>Operator: Mr G C Langdon<br>Licence Number: 13/43/021/G/207<br>Permit Version: 100<br>Location: Salterton Farm, Durnford Borehole<br>Authority: Environment Agency, South West Region<br>Abstraction: General Farming And Domestic<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Lands At Durnford Outlined Red On Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 29th October 1973<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                | A22SW (NW)                             | 1492                         | 3       | 414300<br>135300 |
|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 101<br>Location: Dean'S Farm Borehole No 1<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Deans Farm Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 24th September 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m              | A6NW (W)                               | 1552                         | 3       | 413600<br>133500 |
|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 101<br>Location: Dean'S Farm Borehole No 2<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Deans Farm Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 24th September 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m              | A6NW (W)                               | 1552                         | 3       | 413600<br>133500 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 100<br>Location: Dean'S Farm Borehole No 1<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Wyndham Road/Deans Farm Wells With Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 3rd April 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A6NW (W)                               | 1552                         | 3       | 413600<br>133500 |
|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 100<br>Location: Dean'S Farm Borehole No 2<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Wyndham Road/Deans Farm Wells With Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 3rd April 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | A6NW (W)                               | 1552                         | 3       | 413600<br>133500 |
|        | <b>Water Abstractions</b><br>Operator: Dolphin Farms Ltd<br>Licence Number: 13/43/024/S/123<br>Permit Version: 101<br>Location: River Bourne At Ford<br>Authority: Environment Agency, South West Region<br>Abstraction: Environmental: Non-remedial River/Wetland Support: Transfer between sources<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2021<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                          | A10SE (SE)                             | 1631                         | 3       | 416640<br>133090 |
|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 102<br>Location: Dean'S Farm Borehole C<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Deans Farm Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2018<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                            | A6NW (W)                               | 1647                         | 3       | 413500<br>133500 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 101<br>Location: Deans Farm Borehole3<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Deans Farm Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 24th September 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m   | A6NW (W)                               | 1647                         | 3       | 413500<br>133500 |
|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 101<br>Location: Dean'S Farm Borehole C<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Deans Farm Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 24th September 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A6NW (W)                               | 1647                         | 3       | 413500<br>133500 |
|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 102<br>Location: Dean'S Farm Borehole A<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Deans Farm Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2018<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m      | A6NW (W)                               | 1681                         | 3       | 413500<br>133400 |
|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 102<br>Location: Dean'S Farm Borehole B<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Deans Farm Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2018<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m      | A6NW (W)                               | 1681                         | 3       | 413500<br>133400 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 101<br>Location: Dean'S Farm Borehole A<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Deans Farm Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 24th September 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A6NW (W)                               | 1681                         | 3       | 413500<br>133400 |
|        | <b>Water Abstractions</b><br>Operator: Wessex Water Services Ltd<br>Licence Number: 13/43/021/G/208<br>Permit Version: 101<br>Location: Dean'S Farm Borehole B<br>Authority: Environment Agency, South West Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Deans Farm Boreholes<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 24th September 2010<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A6NW (W)                               | 1681                         | 3       | 413500<br>133400 |
|        | <b>Groundwater Vulnerability Map</b><br>Combined Classification: Secondary Superficial Aquifer - High Vulnerability<br>Combined Vulnerability: High<br>Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer<br>Pollutant Speed: High<br>Bedrock Flow: Well Connected Fractures<br>Dilution: 300-550 mm/year<br>Baseflow Index: >70%<br>Superficial Patchiness: <90%<br>Superficial Thickness: <3m<br>Superficial Recharge: No Data                                                                                                                                                                                                                        | A13SW (S)                              | 0                            | 4       | 415150<br>133943 |
|        | <b>Groundwater Vulnerability Map</b><br>Combined Classification: Principle Bedrock Aquifer - High Vulnerability<br>Combined Vulnerability: High<br>Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer<br>Pollutant Speed: High<br>Bedrock Flow: Well Connected Fractures<br>Dilution: 300-550 mm/year<br>Baseflow Index: >70%<br>Superficial Patchiness: <90%<br>Superficial Thickness: <3m<br>Superficial Recharge: No Data                                                                                                                                                                                                                                    | A13NW (N)                              | 0                            | 4       | 415154<br>134000 |





| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>Groundwater Vulnerability Map</b><br>Combined Principle Bedrock Aquifer - High Vulnerability<br>Classification: High<br>Combined Vulnerability: High<br>Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer<br>Pollutant Speed: High<br>Bedrock Flow: Well Connected Fractures<br>Dilution: 300-550 mm/year<br>Baseflow Index: >70%<br>Superficial <90%<br>Patchiness: <3m<br>Superficial Thickness: No Data<br>Superficial Recharge: | A13SW (S)                              | 0                            | 4       | 415145 133906 |
|        | <b>Groundwater Vulnerability Map</b><br>Combined Principle Bedrock Aquifer - High Vulnerability<br>Classification: High<br>Combined Vulnerability: High<br>Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer<br>Pollutant Speed: High<br>Bedrock Flow: Well Connected Fractures<br>Dilution: 300-550 mm/year<br>Baseflow Index: >70%<br>Superficial <90%<br>Patchiness: <3m<br>Superficial Thickness: No Data<br>Superficial Recharge: | A13NW (NE)                             | 0                            | 4       | 415154 133963 |
|        | <b>Groundwater Vulnerability - Soluble Rock Risk</b><br>Classification: Significant Risk - Low Possibility                                                                                                                                                                                                                                                                                                                                                | A13NW (N)                              | 0                            | 4       | 415154 134000 |
|        | <b>Groundwater Vulnerability - Soluble Rock Risk</b><br>Classification: Significant Risk - Low Possibility                                                                                                                                                                                                                                                                                                                                                | A13NW (NE)                             | 0                            | 4       | 415154 133963 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Principal Aquifer                                                                                                                                                                                                                                                                                                                                                                             | A13NW (NE)                             | 0                            | 4       | 415154 133963 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - Undifferentiated                                                                                                                                                                                                                                                                                                                                                      | A13SW (S)                              | 0                            | 4       | 415150 133943 |
| 8      | <b>Source Protection Zones</b><br>Name: Not Supplied<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.                                                                                                                                                                                                         | A13NW (NE)                             | 0                            | 3       | 415154 133963 |
| 9      | <b>Source Protection Zones</b><br>Name: Not Supplied<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.                                                                                                                                                                                                     | A13NW (NE)                             | 0                            | 3       | 415154 133963 |
| 10     | <b>Source Protection Zones</b><br>Name: Not Supplied<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.                                                                                                                                                                                                                             | A13SW (SW)                             | 92                           | 3       | 415047 133883 |
|        | <b>Extreme Flooding from Rivers or Sea without Defences</b><br>None                                                                                                                                                                                                                                                                                                                                                                                       |                                        |                              |         |               |
|        | <b>Flooding from Rivers or Sea without Defences</b><br>None                                                                                                                                                                                                                                                                                                                                                                                               |                                        |                              |         |               |
|        | <b>Areas Benefiting from Flood Defences</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |                              |         |               |
|        | <b>Flood Water Storage Areas</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |                              |         |               |



| Map ID | Details                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>Flood Defences</b><br>None                                                                                                                                                                                                             |                                        |                              |         |                  |
| 11     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 107.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1 | A13NW (W)                              | 132                          | 5       | 414942<br>133965 |
| 12     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 75.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1  | A13NW (W)                              | 159                          | 5       | 414908<br>133990 |
| 13     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 7.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1   | A13SW (W)                              | 221                          | 5       | 414856<br>133942 |
| 14     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 4.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1   | A13SW (W)                              | 223                          | 5       | 414855<br>133937 |
| 15     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 8.4<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1         | A13SW (W)                              | 227                          | 5       | 414852<br>133934 |
| 16     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 31.1<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1        | A13SW (W)                              | 228                          | 5       | 414872<br>133891 |
| 17     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 5.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1   | A13SW (W)                              | 236                          | 5       | 414845<br>133929 |
| 18     | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 26.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1          | A13SW (W)                              | 241                          | 5       | 414840<br>133927 |
| 19     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 13.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1  | A13SW (W)                              | 259                          | 5       | 414843<br>133879 |



| Map ID | Details                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 20     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 7.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1   | A13SW (W)                              | 263                          | 5       | 414821<br>133913 |
| 21     | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 5.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1           | A13SW (W)                              | 263                          | 5       | 414821<br>133913 |
| 22     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 371.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1 | A13SW (W)                              | 266                          | 5       | 414821<br>133908 |
| 23     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 13.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1        | A13SW (W)                              | 273                          | 5       | 414832<br>133871 |
| 24     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 31.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1  | A13SW (W)                              | 286                          | 5       | 414823<br>133861 |
| 25     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 34.1<br>Watercourse Level: On ground surface<br>Permanent: False<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1 | A12SE (W)                              | 313                          | 5       | 414809<br>133833 |
| 26     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 26.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1  | A18SE (N)                              | 341                          | 5       | 415189<br>134367 |
| 27     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 9.0<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1         | A18SE (N)                              | 341                          | 5       | 415163<br>134369 |
| 28     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 51.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1  | A18SW (N)                              | 341                          | 5       | 415154<br>134370 |



| Map ID | Details                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 29     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 31.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1  | A12SE (SW)                             | 347                          | 5       | 414784<br>133809 |
| 30     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 41.3<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1        | A18SW (N)                              | 366                          | 5       | 415112<br>134399 |
| 31     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 75.8<br>Watercourse Level: On ground surface<br>Permanent: False<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1 | A12SE (SW)                             | 370                          | 5       | 414775<br>133783 |
| 32     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 134.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1 | A18SW (N)                              | 394                          | 5       | 415080<br>134425 |
| 33     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 42.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1  | A12SE (SW)                             | 446                          | 5       | 414710<br>133743 |
| 34     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 5.0<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1         | A18SW (N)                              | 449                          | 5       | 414962<br>134463 |
| 35     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 150.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1 | A18SW (N)                              | 451                          | 5       | 414957<br>134463 |
| 36     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 8.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1         | A18SW (NW)                             | 537                          | 5       | 414826<br>134502 |
| 37     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 15.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1  | A18SW (NW)                             | 539                          | 5       | 414817<br>134500 |



## Agency & Hydrological

| Map ID | Details                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 38     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 4.1<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1         | A17SE (NW)                             | 545                          | 5       | 414802 134497 |
| 39     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 130.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Avon Hampshire<br>Primacy: 1 | A17SE (NW)                             | 547                          | 5       | 414798 134497 |





| Map ID | Details                                                                                                                                | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>Local Authority Landfill Coverage</b><br>Name: Wiltshire County Council<br>- Has supplied landfill data                             |                                        | 0                            | 7       | 415154<br>133963 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Salisbury District Council<br>- Landfill data has been supplied by another authority |                                        | 0                            | 6       | 415154<br>133963 |



| Map ID | Details                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>BGS 1:625,000 Solid Geology</b><br>Description: White Chalk Subgroup                                                                                                 | A13NW (NE)                             | 0                            | 1       | 415154<br>133963 |
|        | <b>Coal Mining Affected Areas</b><br>In an area that might not be affected by coal mining                                                                               |                                        |                              |         |                  |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Rare<br>Source: British Geological Survey, National Geoscience Information Service                               | A13NW (NE)                             | 0                            | 1       | 415154<br>133963 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Rare<br>Source: British Geological Survey, National Geoscience Information Service                               | A13NW (W)                              | 65                           | 1       | 415000<br>133963 |
|        | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13NW (NE)                             | 0                            | 1       | 415154<br>133963 |
|        | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13NW (W)                              | 65                           | 1       | 415000<br>133963 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (NE)                             | 0                            | 1       | 415154<br>133963 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (W)                              | 65                           | 1       | 415000<br>133963 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service        | A13SW (S)                              | 0                            | 1       | 415150<br>133943 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13NW (NE)                             | 0                            | 1       | 415154<br>133963 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13NW (W)                              | 65                           | 1       | 415000<br>133978 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service        | A13NW (W)                              | 74                           | 1       | 415000<br>133963 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service        | A13NW (NW)                             | 96                           | 1       | 415013<br>134097 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13SW (W)                              | 116                          | 1       | 415000<br>133915 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service   | A13NW (NW)                             | 128                          | 1       | 414970<br>134099 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service    | A13SW (S)                              | 0                            | 1       | 415145<br>133906 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service    | A13NW (NE)                             | 0                            | 1       | 415154<br>133963 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service     | A13SW (S)                              | 0                            | 1       | 415150<br>133943 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service    | A13SE (S)                              | 48                           | 1       | 415180<br>133833 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service    | A13NW (W)                              | 65                           | 1       | 415000<br>133978 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service     | A13NW (W)                              | 74                           | 1       | 415000<br>133963 |



| Map ID | Details                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                       | A13NW (NW)                             | 96                           | 1       | 415013 134097 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                      | A13SW (W)                              | 116                          | 1       | 415000 133915 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                      | A13NW (NW)                             | 128                          | 1       | 414970 134099 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                      | A13SW (SW)                             | 196                          | 1       | 415000 133801 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                      | A13NW (NW)                             | 239                          | 1       | 414923 134208 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                   | A13NW (NE)                             | 0                            | 1       | 415154 133963 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                    | A13SW (S)                              | 0                            | 1       | 415150 133943 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                   | A13NW (W)                              | 65                           | 1       | 415000 133978 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                    | A13NW (W)                              | 74                           | 1       | 415000 133963 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                    | A13NW (NW)                             | 96                           | 1       | 415013 134097 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                   | A13SW (W)                              | 116                          | 1       | 415000 133915 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                   | A13NW (NW)                             | 128                          | 1       | 414970 134099 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                      | A13SW (S)                              | 0                            | 1       | 415150 133943 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                     | A13NW (NE)                             | 0                            | 1       | 415154 133963 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                     | A13NW (W)                              | 65                           | 1       | 415000 133978 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                      | A13NW (W)                              | 74                           | 1       | 415000 133963 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                      | A13NW (NW)                             | 96                           | 1       | 415013 134097 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                     | A13SW (W)                              | 116                          | 1       | 415000 133915 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                     | A13NW (NW)                             | 128                          | 1       | 414970 134099 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>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).<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (NE)                             | 0                            | 1       | 415154 133963 |



| Map ID | Details                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <p><b>Radon Potential - Radon Protection Measures</b></p> <p>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> | A13NW (NE)                             | 0                            | 1       | 415154 133963 |



## Industrial Land Use

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 40     | <b>Contemporary Trade Directory Entries</b><br>Name: Custom Consoles For Minis Ltd<br>Location: Unit 1, Centre One, Old Sarum Park, Lysander Way, Old Sarum, Salisbury, Wiltshire, SP4 6BU<br>Classification: Car Customisation & Conversion Specialists<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address     | A13SE (SE)                             | 232                          | -       | 415341 133705 |
| 40     | <b>Contemporary Trade Directory Entries</b><br>Name: Delcom Systems Ltd<br>Location: Unit 3, Centre One, Old Sarum Park, Lysander Way, Old Sarum, Salisbury, SP4 6BU<br>Classification: Radio Communication Equipment<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                          | A13SE (SE)                             | 235                          | -       | 415353 133713 |
| 41     | <b>Contemporary Trade Directory Entries</b><br>Name: Westover Land Rover Salisbury<br>Location: Old Sarum Park, Old Sarum, Salisbury, SP4 6EB<br>Classification: Car Customisation & Conversion Specialists<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                  | A13SE (SE)                             | 250                          | -       | 415418 133754 |
| 42     | <b>Contemporary Trade Directory Entries</b><br>Name: Vincent'S Wholesale<br>Location: Unit 14/15, Hurricane Close, Old Sarum, Salisbury, SP4 6LG<br>Classification: Lingerie & Hosiery Manufacturers & Wholesalers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                           | A13SE (SE)                             | 291                          | -       | 415333 133629 |
| 42     | <b>Contemporary Trade Directory Entries</b><br>Name: Wielander & Schill Ltd<br>Location: Unit 12/13, Hurricane Close, Old Sarum, Salisbury, SP4 6LG<br>Classification: Garage Equipment<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                                      | A13SE (SE)                             | 293                          | -       | 415323 133621 |
| 42     | <b>Contemporary Trade Directory Entries</b><br>Name: G W P Protective<br>Location: Unit 1, Hurricane Close, Old Sarum, Salisbury, SP4 6LG<br>Classification: Packaging Materials Manufacturers & Suppliers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                     | A8NE (SE)                              | 319                          | -       | 415333 133598 |
| 42     | <b>Contemporary Trade Directory Entries</b><br>Name: Dynamic Air Products Ltd<br>Location: Unit 2, Hurricane Close, Old Sarum, Salisbury, Wiltshire, SP4 6LG<br>Classification: Ventilators & Ventilation Systems<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                            | A8NE (SE)                              | 330                          | -       | 415337 133587 |
| 42     | <b>Contemporary Trade Directory Entries</b><br>Name: Dynamic Air Products<br>Location: Unit 1, Hurricane Close, Old Sarum, Salisbury, SP4 6LG<br>Classification: Ventilators & Ventilation Systems<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                           | A8NE (SE)                              | 334                          | -       | 415373 133603 |
| 43     | <b>Contemporary Trade Directory Entries</b><br>Name: Colourview<br>Location: Unit 8, Woodford Centre, Old Sarum Park, Lysander Way, Old Sarum, Salisbury, SP4 6BU<br>Classification: Printers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                                  | A13SE (SE)                             | 299                          | -       | 415381 133652 |
| 43     | <b>Contemporary Trade Directory Entries</b><br>Name: H & F Elastomers Ltd<br>Location: Unit 7/8, Woodford Centre, Old Sarum Park, Lysander Way, Old Sarum, Salisbury, Wiltshire, SP4 6BU<br>Classification: Rubber & Plastic Products - Manufacturers<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location | A13SE (SE)                             | 300                          | -       | 415380 133650 |
| 43     | <b>Contemporary Trade Directory Entries</b><br>Name: Ret<br>Location: Unit 7-8, Woodford Centre, Old Sarum Park, Lysander Way, Old Sarum, Salisbury, Wiltshire, SP4 6BU<br>Classification: Computer Recycling & Disposal<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location                              | A13SE (SE)                             | 300                          | -       | 415380 133650 |





## Industrial Land Use

| Map ID | Details                                                                                                                                                                                                                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 44     | <b>Contemporary Trade Directory Entries</b><br>Name: Jaguar & Land Rover Military Sales<br>Location: Old Sarum Park, Old Sarum, Salisbury, Wiltshire, SP4 6EB<br>Classification: Car Dealers<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned to the road within the address or location                      | A13SE (SE)                             | 300                          | -       | 415479 133747 |
| 44     | <b>Contemporary Trade Directory Entries</b><br>Name: Sarum Hydraulics<br>Location: Unit 1, Danebury Court, Old Sarum Park, Old Sarum, Salisbury, SP4 6EB<br>Classification: Hydraulic Systems & Equipment Manufacturers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                  | A13SE (SE)                             | 321                          | -       | 415474 133709 |
| 44     | <b>Contemporary Trade Directory Entries</b><br>Name: Sortimo International Ltd<br>Location: Old Sarum Park, Old Sarum, SALISBURY, SP4 6EB<br>Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                | A14SW (SE)                             | 341                          | -       | 415516 133727 |
| 44     | <b>Contemporary Trade Directory Entries</b><br>Name: Fahr Industries<br>Location: Unit 3-4, Spitfire Road, Old Sarum, Salisbury, SP4 6GB<br>Classification: Polythene & Plastic Sheeting Supplies<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                      | A14SW (SE)                             | 341                          | -       | 415516 133727 |
| 45     | <b>Contemporary Trade Directory Entries</b><br>Name: Marchwood Appliance Repairs<br>Location: The Portway Centre, 1, Old Sarum Park, Old Sarum, Salisbury, SP4 6EB<br>Classification: Domestic Appliances - Servicing, Repairs & Parts<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address | A14SW (E)                              | 303                          | -       | 415528 133830 |
| 45     | <b>Contemporary Trade Directory Entries</b><br>Name: Hendy Group<br>Location: The Portway Centre, Old Sarum Park, Old Sarum, Salisbury, Wiltshire, SP4 6EB<br>Classification: Car Dealers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                | A14SW (E)                              | 303                          | -       | 415528 133830 |
| 46     | <b>Contemporary Trade Directory Entries</b><br>Name: Do Systems Ltd<br>Location: Unit 1-2, Woodford Centre, Old Sarum Park, Lysander Way, Old Sarum, Salisbury, SP4 6BU<br>Classification: Optical Goods - Manufacturers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address               | A13SE (SE)                             | 313                          | -       | 415452 133699 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: The Chord Co Ltd<br>Location: 35A, Old Sarum Airfield, Old Sarum, Salisbury, Wiltshire, SP4 6DZ<br>Classification: Hi-Fi Equipment Manufacturers & Distributors<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                   | A8NW (S)                               | 363                          | -       | 415110 133530 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Brew Uk<br>Location: Unit 8-9, Lancaster Road, Sarum Business Park, Salisbury, SP4 6FB<br>Classification: Brewery Supplies<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                          | A8NW (S)                               | 366                          | -       | 415101 133530 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: L C Power Ltd<br>Location: Unit 10, Lancaster Road, Sarum Business Park, Salisbury, SP4 6FB<br>Classification: Electrical Engineers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                 | A8NW (S)                               | 382                          | -       | 415089 133516 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Indian Asian Furniture<br>Location: Unit 59g Old Sarum Airfield, Old Sarum, Salisbury, Wiltshire, SP4 6DZ<br>Classification: Furniture Manufacturers - Home & Office<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned within the geographical locality   | A8NW (S)                               | 402                          | -       | 415104 133492 |



## Industrial Land Use

| Map ID | Details                                                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Dark Revolution Ltd<br>Location: UNIT 3-5, LANCASTER ROAD, SARUM BUSINESS PARK, SALISBURY, SP4 6FB<br>Classification: Brewers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                               | A8NW (S)                               | 402                          | -       | 415103<br>133492 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: S L S Laundry Ltd<br>Location: Unit 13, Lancaster Road, Sarum Business Park, Salisbury, SP4 6FB<br>Classification: Commercial Cleaning Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                           | A8NW (S)                               | 405                          | -       | 415068<br>133499 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Shrewton Laundry Ltd<br>Location: Unit 12a Lancaster Road, Sarum Business Park, Salisbury, Wiltshire, SP4 6FB<br>Classification: Laundries & Launderettes<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned within the geographical locality                      | A8NW (S)                               | 405                          | -       | 415068<br>133499 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Ab Supplies (Landscaping & Building Materials) Ltd<br>Location: Hanger 1, Sarum Business Park, Salisbury, Wiltshire, SP4 6FB<br>Classification: Builders' Merchants<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the address or location                | A8NW (S)                               | 420                          | -       | 415087<br>133478 |
| 48     | <b>Contemporary Trade Directory Entries</b><br>Name: Swapp Art & Design Ltd<br>Location: 59a, Old Sarum Airfield, Old Sarum, Salisbury, SP4 6DZ<br>Classification: Print Finishers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                             | A8NE (S)                               | 390                          | -       | 415157<br>133496 |
| 49     | <b>Contemporary Trade Directory Entries</b><br>Name: William Sheppee Ltd<br>Location: Old Sarum Airfield, Old Sarum, Salisbury, Wiltshire, SP4 6DZ<br>Classification: Furniture Manufacturers - Home & Office<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                  | A8NW (S)                               | 456                          | -       | 415093<br>133439 |
| 49     | <b>Contemporary Trade Directory Entries</b><br>Name: Didbox<br>Location: Hangar 1 South, Old Sarum Airfield, Old Sarum, Salisbury, SP4 6DZ<br>Classification: Industrial Instrument & Apparatus Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                  | A8NW (S)                               | 463                          | -       | 415099<br>133431 |
| 50     | <b>Contemporary Trade Directory Entries</b><br>Name: Specialist Instruments Ltd<br>Location: Unit 18, Lancaster Road, Sarum Business Park, Salisbury, SP4 6FB<br>Classification: Industrial Instrument & Apparatus Manufacturers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                 | A8NW (S)                               | 464                          | -       | 415022<br>133453 |
| 51     | <b>Contemporary Trade Directory Entries</b><br>Name: Sm Art Pyrotechnics<br>Location: Unit 21, 22, Lancaster Rd, Sarum Business Pk, Salisbury, Wiltshire, SP4 6FB<br>Classification: Firework Technicians, Manufacturers & Distribution<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the address or location | A8NW (S)                               | 497                          | -       | 414999<br>133426 |
| 51     | <b>Contemporary Trade Directory Entries</b><br>Name: Alltechnique<br>Location: Unit 24-26, Lancaster Road, Sarum Business Park, Salisbury, SP4 6FB<br>Classification: Garage Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                            | A8NW (S)                               | 511                          | -       | 414977<br>133421 |
| 51     | <b>Contemporary Trade Directory Entries</b><br>Name: V P Motorcycles Ltd<br>Location: UNIT 23, LANCASTER ROAD, SARUM BUSINESS PARK, SALISBURY, SP4 6FB<br>Classification: Garage Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                        | A8NW (S)                               | 522                          | -       | 414987<br>133404 |



## Industrial Land Use

| Map ID | Details                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 52     | <b>Contemporary Trade Directory Entries</b><br>Name: T K Hockey<br>Location: Unit 8, Castlegate Business Park, Old Sarum, Salisbury, SP4 6QX<br>Classification: Sports Equipment Manufacturers & Distributors<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address    | A8NW (S)                               | 516                          | -       | 415080 133381 |
| 53     | <b>Contemporary Trade Directory Entries</b><br>Name: Spruce Pools<br>Location: Unit 17, Portway Business Centre, Old Sarum, Salisbury, SP4 6QX<br>Classification: Swimming Pool Contractors, Repairers & Service<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address | A8NW (S)                               | 553                          | -       | 414929 133399 |
| 54     | <b>Contemporary Trade Directory Entries</b><br>Name: Masterprint<br>Location: Unit 1, The Centurion Centre, Castlegate Business Park, Old Sarum, Salisbury, SP4 6QX<br>Classification: Printers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                | A8NW (S)                               | 571                          | -       | 415020 133340 |
| 54     | <b>Contemporary Trade Directory Entries</b><br>Name: Deepcove Ltd<br>Location: Unit 1, Centurion Centre, Castlegate Business Park, Old Sarum, SP4 6QX<br>Classification: Distribution Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                 | A8NW (S)                               | 576                          | -       | 415026 133333 |
| 55     | <b>Contemporary Trade Directory Entries</b><br>Name: Top Drawer Joinery<br>Location: Castlegate Business Park, Old Sarum, Salisbury, Wiltshire, SP4 6QX<br>Classification: Joinery Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned within the geographical locality  | A8NW (S)                               | 587                          | -       | 414957 133347 |
| 55     | <b>Contemporary Trade Directory Entries</b><br>Name: Equinox<br>Location: Unit 1, Castlegate Business Park, Old Sarum, Salisbury, SP4 6QX<br>Classification: Stainless Steel Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                     | A8NW (S)                               | 587                          | -       | 414957 133347 |
| 55     | <b>Contemporary Trade Directory Entries</b><br>Name: Equinox International Ltd<br>Location: Unit 1, Castlegate Business Park, Old Sarum, Salisbury, SP4 6QX<br>Classification: Metal Industries - Primary<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address      | A8NW (S)                               | 587                          | -       | 414957 133346 |
| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: Pulse Precision Ltd<br>Location: Unit 9, Portway Business Centre, Old Sarum, Salisbury, SP4 6QX<br>Classification: Precision Engineers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                      | A8NW (SW)                              | 596                          | -       | 414889 133372 |
| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: Metalwise Ltd<br>Location: Unit 9, Castlegate Business Park, Old Sarum, Salisbury, SP4 6QX<br>Classification: Precision Engineers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                         | A8NW (SW)                              | 596                          | -       | 414889 133372 |
| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: Carton Handling Solutions Ltd<br>Location: Unit 5 Portway Business Centre, Old Sarum, Salisbury, Wiltshire, SP4 6QX<br>Classification: Boxes & Cartons<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address      | A8NW (S)                               | 606                          | -       | 414911 133348 |
| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: The Print Factory Within Sarum Graphics<br>Location: Unit 4 Portway Business Centre, Old Sarum, Salisbury, Wiltshire, SP4 6QX<br>Classification: Printers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address | A8NW (SW)                              | 621                          | -       | 414868 133355 |



## Industrial Land Use

| Map ID | Details                                                                                                                                                                                                                                                                                                                        | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: Sarum Graphics Ltd<br>Location: Unit 4 Portway Business Centre, Old Sarum, Salisbury, Wiltshire, SP4 6QX<br>Classification: Printers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                             | A8NW (SW)                              | 621                          | -       | 414868 133355 |
| 57     | <b>Contemporary Trade Directory Entries</b><br>Name: C B Domestics<br>Location: 1, ROCKHAVEN BUSINESS CENTRE, RHODES-MOORHOUSE WAY, LONGHEDGE, SP4 6RT<br>Classification: Domestic Appliances - Servicing, Repairs & Parts<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address            | A12SW (W)                              | 601                          | -       | 414475 133902 |
| 58     | <b>Contemporary Trade Directory Entries</b><br>Name: Salisbury Caravans Centre Ltd<br>Location: Castle Gate Business Park, Old Sarum, Salisbury, Wiltshire, SP4 6QX<br>Classification: Caravan Dealers & Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned within the geographical locality | A8SW (S)                               | 653                          | -       | 415025 133253 |
| 59     | <b>Contemporary Trade Directory Entries</b><br>Name: Wynnstey Agricentre<br>Location: Castlegate Business Park, Old Sarum, Salisbury, SP4 6QX<br>Classification: Agricultural Merchants<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                             | A8SW (S)                               | 664                          | -       | 414946 133268 |
| 59     | <b>Contemporary Trade Directory Entries</b><br>Name: Phoenix Lifting Systems Ltd<br>Location: Unit 5, Castlegate Business Centre, Old Sarum, Salisbury, SP4 6QX<br>Classification: Lift Manufacturers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                 | A8SW (S)                               | 701                          | -       | 414902 133246 |
| 60     | <b>Contemporary Trade Directory Entries</b><br>Name: Salisbury Caravans Ltd<br>Location: Unit 2, Castlegate Business Park, Old Sarum, Salisbury, SP4 6QX<br>Classification: Caravan Dealers & Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                         | A8SW (S)                               | 698                          | -       | 414866 133268 |
| 61     | <b>Contemporary Trade Directory Entries</b><br>Name: Interloc (Uk) Ltd<br>Location: Unit 19/20, Old Sarum Airfield, Old Sarum, Salisbury, SP4 6DZ<br>Classification: Foam Products - Rubber & Plastics<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                              | A7NE (SW)                              | 713                          | -       | 414766 133313 |
| 61     | <b>Contemporary Trade Directory Entries</b><br>Name: J R Recycling<br>Location: Unit 19/20, Old Sarum Airfield, Old Sarum, Salisbury, Wiltshire, SP4 6DZ<br>Classification: Reclaiming - Waste Products<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the address or location                      | A7NE (SW)                              | 713                          | -       | 414766 133313 |



## Sensitive Land Use

| Map ID | Details                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
| 62     | <b>Nitrate Vulnerable Zones</b><br>Name: South Wessex<br>Description: Groundwater<br>Source: Environment Agency, Head Office | A13NW (NE)                             | 0                            | 4       | 415154<br>133963 |





| Agency & Hydrological                                                                                                                                                                                                                            | Version                                    | Update Cycle                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------|
| <b>Contaminated Land Register Entries and Notices</b><br>Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department<br>Environment Agency - Head Office<br>Wiltshire Council - Environmental Health Department | December 2008<br>June 2020<br>October 2017 | Not Applicable<br>Annually<br>Annually |
| <b>Discharge Consents</b><br>Environment Agency - South West Region<br>Environment Agency - Southern Region                                                                                                                                      | January 2023<br>January 2023               | Quarterly<br>Quarterly                 |
| <b>Enforcement and Prohibition Notices</b><br>Environment Agency - South West Region                                                                                                                                                             | March 2013                                 |                                        |
| <b>Integrated Pollution Controls</b><br>Environment Agency - South West Region                                                                                                                                                                   | January 2009                               |                                        |
| <b>Integrated Pollution Prevention And Control</b><br>Environment Agency - South West Region                                                                                                                                                     | January 2023                               | Quarterly                              |
| <b>Local Authority Integrated Pollution Prevention And Control</b><br>Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department<br>Wiltshire Council - Environmental Health Department                        | January 2009<br>July 2015                  | Not Applicable<br>Variable             |
| <b>Local Authority Pollution Prevention and Controls</b><br>Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department<br>Wiltshire Council - Environmental Health Department                                  | January 2009<br>July 2015                  | Not Applicable<br>Annually             |
| <b>Local Authority Pollution Prevention and Control Enforcements</b><br>Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department<br>Wiltshire Council - Environmental Health Department                      | January 2009<br>July 2015                  | Not Applicable<br>Variable             |
| <b>Nearest Surface Water Feature</b><br>Ordnance Survey                                                                                                                                                                                          | January 2023                               |                                        |
| <b>Pollution Incidents to Controlled Waters</b><br>Environment Agency - Southern Region<br>Environment Agency - South West Region                                                                                                                | December 1999<br>September 1999            |                                        |
| <b>Prosecutions Relating to Authorised Processes</b><br>Environment Agency - South West Region                                                                                                                                                   | July 2015                                  |                                        |
| <b>Prosecutions Relating to Controlled Waters</b><br>Environment Agency - South West Region                                                                                                                                                      | March 2013                                 |                                        |
| <b>Registered Radioactive Substances</b><br>Environment Agency - South West Region                                                                                                                                                               | June 2016                                  | As notified                            |
| <b>River Quality</b><br>Environment Agency - Head Office                                                                                                                                                                                         | November 2001                              | Not Applicable                         |
| <b>River Quality Biology Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                                 | April 2012                                 |                                        |
| <b>River Quality Chemistry Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                               | April 2012                                 |                                        |
| <b>Substantiated Pollution Incident Register</b><br>Environment Agency - South West Region - South Wessex Area<br>Environment Agency - South West Region - Wessex Area                                                                           | January 2023<br>January 2023               | Quarterly<br>Quarterly                 |
| <b>Water Abstractions</b><br>Environment Agency - South West Region<br>Environment Agency - Southern Region                                                                                                                                      | April 2023<br>April 2023                   | Quarterly<br>Quarterly                 |
| <b>Water Industry Act Referrals</b><br>Environment Agency - South West Region                                                                                                                                                                    | October 2017                               |                                        |
| <b>Groundwater Vulnerability Map</b><br>Environment Agency - Head Office                                                                                                                                                                         | June 2018                                  | As notified                            |
| <b>Groundwater Vulnerability - Soluble Rock Risk</b><br>Environment Agency - Head Office                                                                                                                                                         | June 2018                                  | As notified                            |



| Agency & Hydrological                                                                                                                                                                                      | Version                        | Update Cycle                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|
| <b>Bedrock Aquifer Designations</b><br>Environment Agency - Head Office                                                                                                                                    | January 2018                   | Annually                         |
| <b>Superficial Aquifer Designations</b><br>Environment Agency - Head Office                                                                                                                                | January 2018                   | Annually                         |
| <b>Source Protection Zones</b><br>Environment Agency - Head Office                                                                                                                                         | September 2022                 | Bi-Annually                      |
| <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office                                                                                                            | February 2023                  | Quarterly                        |
| <b>Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office                                                                                                                    | February 2023                  | Quarterly                        |
| <b>Areas Benefiting from Flood Defences</b><br>Environment Agency - Head Office                                                                                                                            | February 2023                  | Quarterly                        |
| <b>Flood Water Storage Areas</b><br>Environment Agency - Head Office                                                                                                                                       | February 2023                  | Quarterly                        |
| <b>Flood Defences</b><br>Environment Agency - Head Office                                                                                                                                                  | August 2022                    | Quarterly                        |
| <b>OS Water Network Lines</b><br>Ordnance Survey                                                                                                                                                           | January 2023                   | Quarterly                        |
| <b>BGS Groundwater Flooding Susceptibility</b><br>British Geological Survey - National Geoscience Information Service                                                                                      | May 2013                       | As notified                      |
| Waste                                                                                                                                                                                                      | Version                        | Update Cycle                     |
| <b>BGS Recorded Landfill Sites</b><br>British Geological Survey - National Geoscience Information Service                                                                                                  | November 2002                  | As notified                      |
| <b>Historical Landfill Sites</b><br>Environment Agency - Head Office                                                                                                                                       | March 2023                     | Quarterly                        |
| <b>Integrated Pollution Control Registered Waste Sites</b><br>Environment Agency - South West Region                                                                                                       | January 2009                   | Not Applicable                   |
| <b>Licensed Waste Management Facilities (Landfill Boundaries)</b><br>Environment Agency - South West Region - South Wessex Area<br>Environment Agency - South West Region - Wessex Area                    | January 2023<br>January 2023   | Quarterly<br>Quarterly           |
| <b>Licensed Waste Management Facilities (Locations)</b><br>Environment Agency - South West Region - South Wessex Area<br>Environment Agency - South West Region - Wessex Area                              | January 2023<br>January 2023   | Quarterly<br>Quarterly           |
| <b>Local Authority Landfill Coverage</b><br>Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department<br>Wiltshire County Council (now part of Wiltshire Council)       | February 2003<br>February 2003 | Not Applicable<br>Not Applicable |
| <b>Local Authority Recorded Landfill Sites</b><br>Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department<br>Wiltshire County Council (now part of Wiltshire Council) | October 2018<br>October 2018   |                                  |
| <b>Registered Landfill Sites</b><br>Environment Agency - South West Region - South Wessex Area<br>Environment Agency - South West Region - Wessex Area                                                     | March 2006<br>March 2006       | Not Applicable<br>Not Applicable |
| <b>Registered Waste Transfer Sites</b><br>Environment Agency - South West Region - South Wessex Area<br>Environment Agency - South West Region - Wessex Area                                               | April 2018<br>April 2018       |                                  |
| <b>Registered Waste Treatment or Disposal Sites</b><br>Environment Agency - South West Region - South Wessex Area<br>Environment Agency - South West Region - Wessex Area                                  | June 2015<br>June 2015         |                                  |



| Hazardous Substances                                                                                                                                                                                                  | Version                                     | Update Cycle                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------|
| <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Health and Safety Executive                                                                                                                                 | March 2023                                  | Bi-Annually                                         |
| <b>Explosive Sites</b><br>Health and Safety Executive                                                                                                                                                                 | March 2017                                  | Annually                                            |
| <b>Notification of Installations Handling Hazardous Substances (NIHHS)</b><br>Health and Safety Executive                                                                                                             | August 2001                                 |                                                     |
| <b>Planning Hazardous Substance Enforcements</b><br>Wiltshire County Council (now part of Wiltshire Council)<br>Wiltshire Council - Planning Department<br>Salisbury District Council (now part of Wiltshire Council) | December 2008<br>February 2016<br>July 2009 | Annual Rolling Update<br>Variable<br>Not Applicable |
| <b>Planning Hazardous Substance Consents</b><br>Wiltshire County Council (now part of Wiltshire Council)<br>Wiltshire Council - Planning Department<br>Salisbury District Council (now part of Wiltshire Council)     | December 2008<br>February 2016<br>July 2009 | Annual Rolling Update<br>Variable<br>Not Applicable |
| Geological                                                                                                                                                                                                            | Version                                     | Update Cycle                                        |
| <b>BGS 1:625,000 Solid Geology</b><br>British Geological Survey - National Geoscience Information Service                                                                                                             | January 2009                                | As notified                                         |
| <b>BGS Recorded Mineral Sites</b><br>British Geological Survey - National Geoscience Information Service                                                                                                              | November 2022                               | Bi-Annually                                         |
| <b>CBSCB Compensation District</b><br>Cheshire Brine Subsidence Compensation Board (CBSCB)<br>Cheshire Brine Subsidence Compensation Board (CBSCB)                                                                    | August 2011<br>November 2020                | As notified                                         |
| <b>Coal Mining Affected Areas</b><br>The Coal Authority - Property Searches                                                                                                                                           | February 2023                               | Annual Rolling Update                               |
| <b>Mining Instability</b><br>Ove Arup & Partners                                                                                                                                                                      | June 1998                                   | Not Applicable                                      |
| <b>Non Coal Mining Areas of Great Britain</b><br>British Geological Survey - National Geoscience Information Service                                                                                                  | May 2015                                    | Not Applicable                                      |
| <b>Potential for Collapsible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                      | April 2020                                  | As notified                                         |
| <b>Potential for Compressible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                     | January 2019                                | As notified                                         |
| <b>Potential for Ground Dissolution Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                      | January 2019                                | As notified                                         |
| <b>Potential for Landslide Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                        | January 2019                                | As notified                                         |
| <b>Potential for Running Sand Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                                     | January 2019                                | As notified                                         |
| <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                                                                       | January 2019                                | As notified                                         |
| <b>Radon Potential - Radon Affected Areas</b><br>British Geological Survey - National Geoscience Information Service                                                                                                  | September 2022                              | Annually                                            |
| <b>Radon Potential - Radon Protection Measures</b><br>British Geological Survey - National Geoscience Information Service                                                                                             | September 2022                              | Annually                                            |



| Industrial Land Use                                                                                                                               | Version                  | Update Cycle           |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|
| <b>Contemporary Trade Directory Entries</b><br>Thomson Directories                                                                                | January 2023             | Quarterly              |
| <b>Fuel Station Entries</b><br>Catalist Ltd - Experian                                                                                            | February 2023            | Quarterly              |
| <b>Gas Pipelines</b><br>National Grid                                                                                                             | October 2021             | Bi-Annually            |
| <b>Underground Electrical Cables</b><br>National Grid                                                                                             | February 2023            | Bi-Annually            |
| Sensitive Land Use                                                                                                                                | Version                  | Update Cycle           |
| <b>Ancient Woodland</b><br>Natural England                                                                                                        | February 2021            | Bi-Annually            |
| <b>Areas of Adopted Green Belt</b><br>Salisbury District Council (now part of Wiltshire Council)<br>Wiltshire Council - Planning Department       | July 2022<br>July 2022   | Quarterly<br>Quarterly |
| <b>Areas of Unadopted Green Belt</b><br>Salisbury District Council (now part of Wiltshire Council)<br>Wiltshire Council - Planning Department     | July 2022<br>July 2022   | Quarterly<br>Quarterly |
| <b>Areas of Outstanding Natural Beauty</b><br>Natural England                                                                                     | August 2022              | Bi-Annually            |
| <b>Environmentally Sensitive Areas</b><br>Natural England                                                                                         | January 2017             |                        |
| <b>Forest Parks</b><br>Forestry Commission                                                                                                        | April 1997               | Not Applicable         |
| <b>Local Nature Reserves</b><br>Natural England                                                                                                   | March 2023               | Bi-Annually            |
| <b>Marine Nature Reserves</b><br>Natural England                                                                                                  | April 2023               | Bi-Annually            |
| <b>National Nature Reserves</b><br>Natural England                                                                                                | February 2023            | Bi-Annually            |
| <b>National Parks</b><br>Natural England                                                                                                          | February 2018            | Bi-Annually            |
| <b>Nitrate Sensitive Areas</b><br>Natural England                                                                                                 | April 2023               | Not Applicable         |
| <b>Nitrate Vulnerable Zones</b><br>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)<br>Environment Agency - Head Office | April 2016<br>March 2023 | Bi-Annually            |
| <b>Ramsar Sites</b><br>Natural England                                                                                                            | March 2023               | Bi-Annually            |
| <b>Sites of Special Scientific Interest</b><br>Natural England                                                                                    | March 2023               | Bi-Annually            |
| <b>Special Areas of Conservation</b><br>Natural England                                                                                           | April 2023               | Bi-Annually            |
| <b>Special Protection Areas</b><br>Natural England                                                                                                | April 2023               | Bi-Annually            |



## Data Suppliers

A selection of organisations who provide data within this report

| Data Supplier                          | Data Supplier Logo                                                                                                                                            |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ordnance Survey                        |                                                                            |
| Environment Agency                     |                                                                            |
| Scottish Environment Protection Agency |                                                                            |
| The Coal Authority                     |                                                                            |
| British Geological Survey              | <br>British Geological Survey<br>NATURAL ENVIRONMENT RESEARCH COUNCIL      |
| Centre for Ecology and Hydrology       | <br>Centre for Ecology & Hydrology<br>NATURAL ENVIRONMENT RESEARCH COUNCIL |
| Natural Resources Wales                |                                                                           |
| Scottish Natural Heritage              |                                                                          |
| Natural England                        |                                                                          |
| Public Health England                  |                                                                          |
| Ove Arup                               |                                                                          |
| Stantec UK Ltd                         |                                                                          |

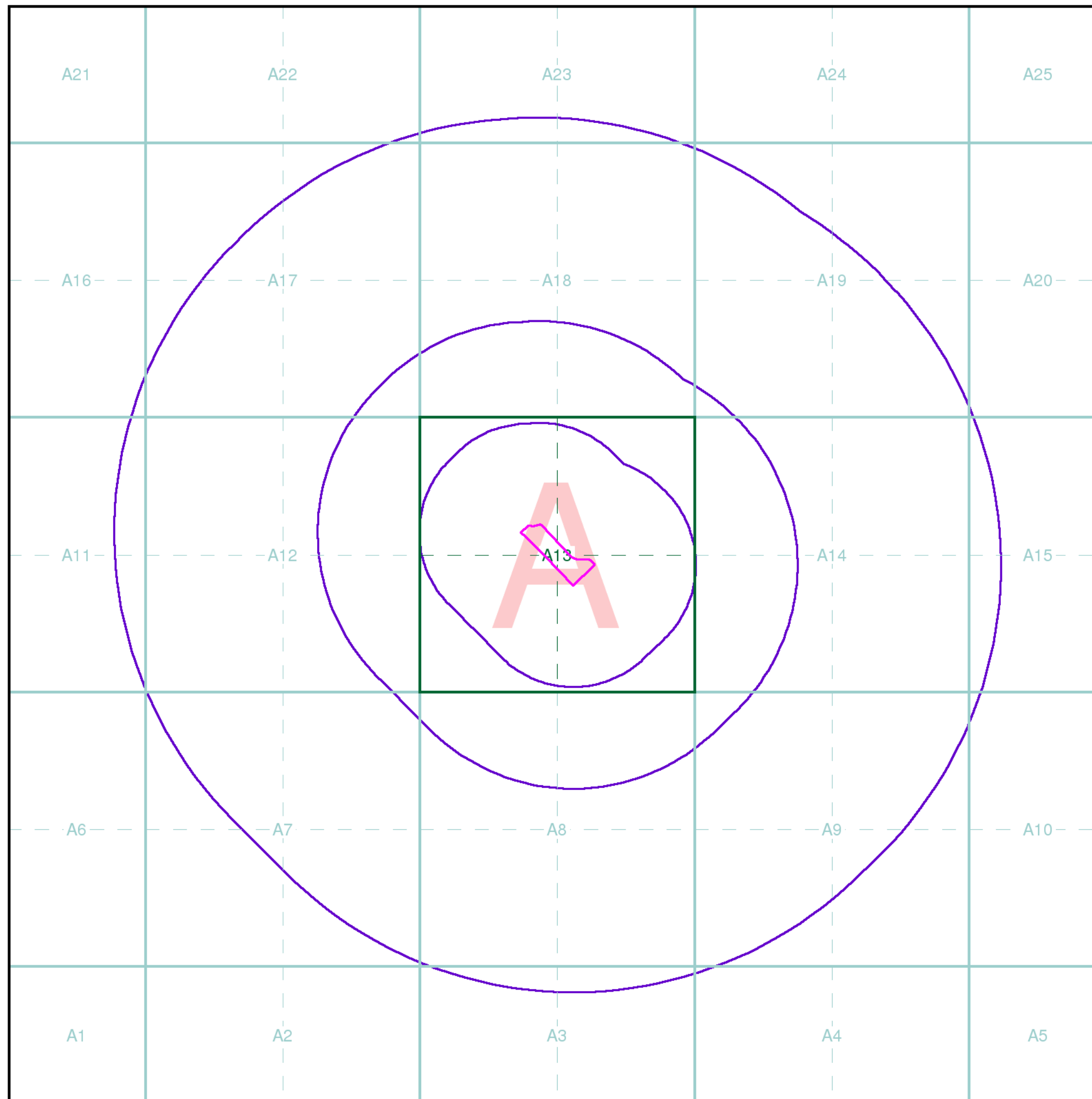




## Useful Contacts

| Contact | Name and Address                                                                                                                                                   | Contact Details                                                                                                                 |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1       | <b>British Geological Survey - Enquiry Service</b><br>British Geological Survey, Environmental Science Centre, Keyworth,<br>Nottingham, Nottinghamshire, NG12 5GG  | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: enquiries@bgs.ac.uk<br>Website: www.bgs.ac.uk                          |
| 2       | <b>Wiltshire Council - Environmental Health Department</b><br>County Hall, Bythesea Road, Trowbridge, Wiltshire, BA14 8JN                                          | Telephone: 01225 713000<br>Email: customerservices@wiltshire.gov.uk<br>Website: www.wiltshire.gov.uk                            |
| 3       | <b>Environment Agency - National Customer Contact Centre (NCCC)</b><br>PO Box 544, Templeborough, Rotherham, S60 1BY                                               | Telephone: 03708 506 506<br>Email: enquiries@environment-agency.gov.uk                                                          |
| 4       | <b>Environment Agency - Head Office</b><br>Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon,<br>BS32 4UD                                         | Telephone: 01454 624400<br>Fax: 01454 624409                                                                                    |
| 5       | <b>Ordnance Survey</b><br>Adanac Drive, Southampton, Hampshire, SO16 0AS                                                                                           | Telephone: 03456 05 05 05<br>Email: customerservices@ordnancesurvey.co.uk<br>Website: www.ordnancesurvey.gov.uk                 |
| 6       | <b>Salisbury District Council (now part of Wiltshire Council) - Environmental Health Department</b><br>County Hall, Bythesea Road, Trowbridge, Wiltshire, BA14 8JN | Telephone: 0300 456 0100<br>Website: www.wiltshire.gov.uk                                                                       |
| 7       | <b>Wiltshire County Council (now part of Wiltshire Council)</b><br>County Hall, Bythesea Road, Trowbridge, Wiltshire, BA14 8JN                                     | Telephone: 01225 713000<br>Email: communications@wiltshire.gov.uk<br>Website: www.wiltshire.gov.uk                              |
| 8       | <b>Natural England</b><br>County Hall, Spetchley Road, Worcester, WR5 2NP                                                                                          | Telephone: 0300 060 3900<br>Email: enquiries@naturalengland.org.uk<br>Website: www.naturalengland.org.uk                        |
| -       | <b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b><br>Chilton, Didcot, Oxfordshire, OX11 0RQ                    | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: radon@phe.gov.uk<br>Website: www.ukradon.org                             |
| -       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD                                                                   | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmarkinfo.co.uk<br>Website: www.landmarkinfo.co.uk |

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



## 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:



Envirocheck reports are compiled from 136 different sources of data.

## Client Details

Mr M Perks, Geo Environmental Group, GEG House, 17  
Graham Road, Malvern, Worcestershire, WR14 2HR

## Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

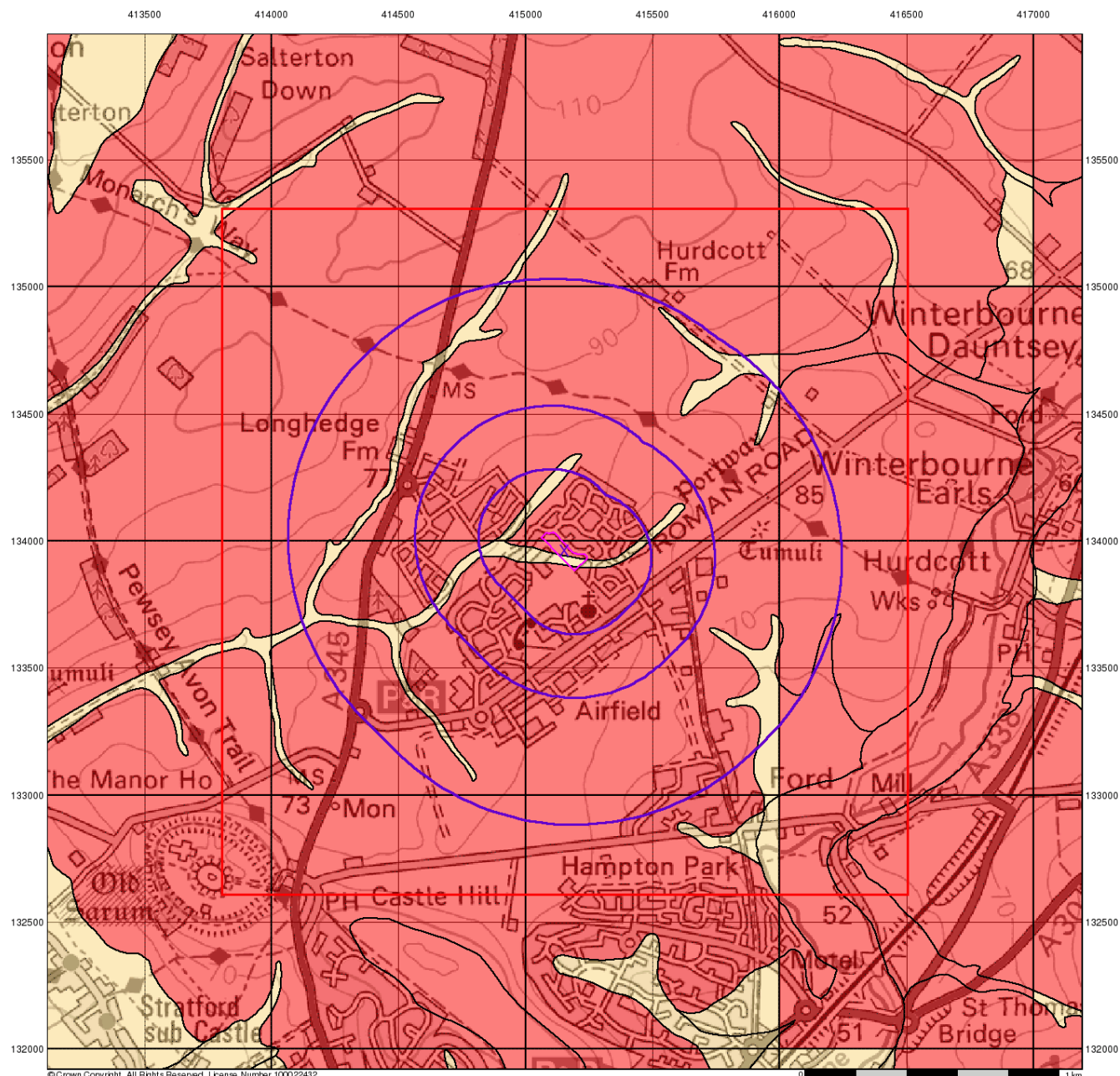
## Site Details

Old Sarum, Salisbury, SP4 6PU

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<http://www.landmarkinfo.co.uk/Terms/Show/515>

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## Groundwater Vulnerability

### General

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

### Agency and Hydrological

#### Bedrock Aquifers

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

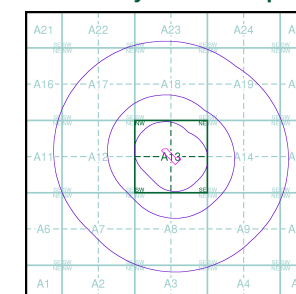
#### Superficial Aquifers

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

Unproductive Aquifer

Soluble Rock

### Site Sensitivity Context Map - Slice A



### Order Details

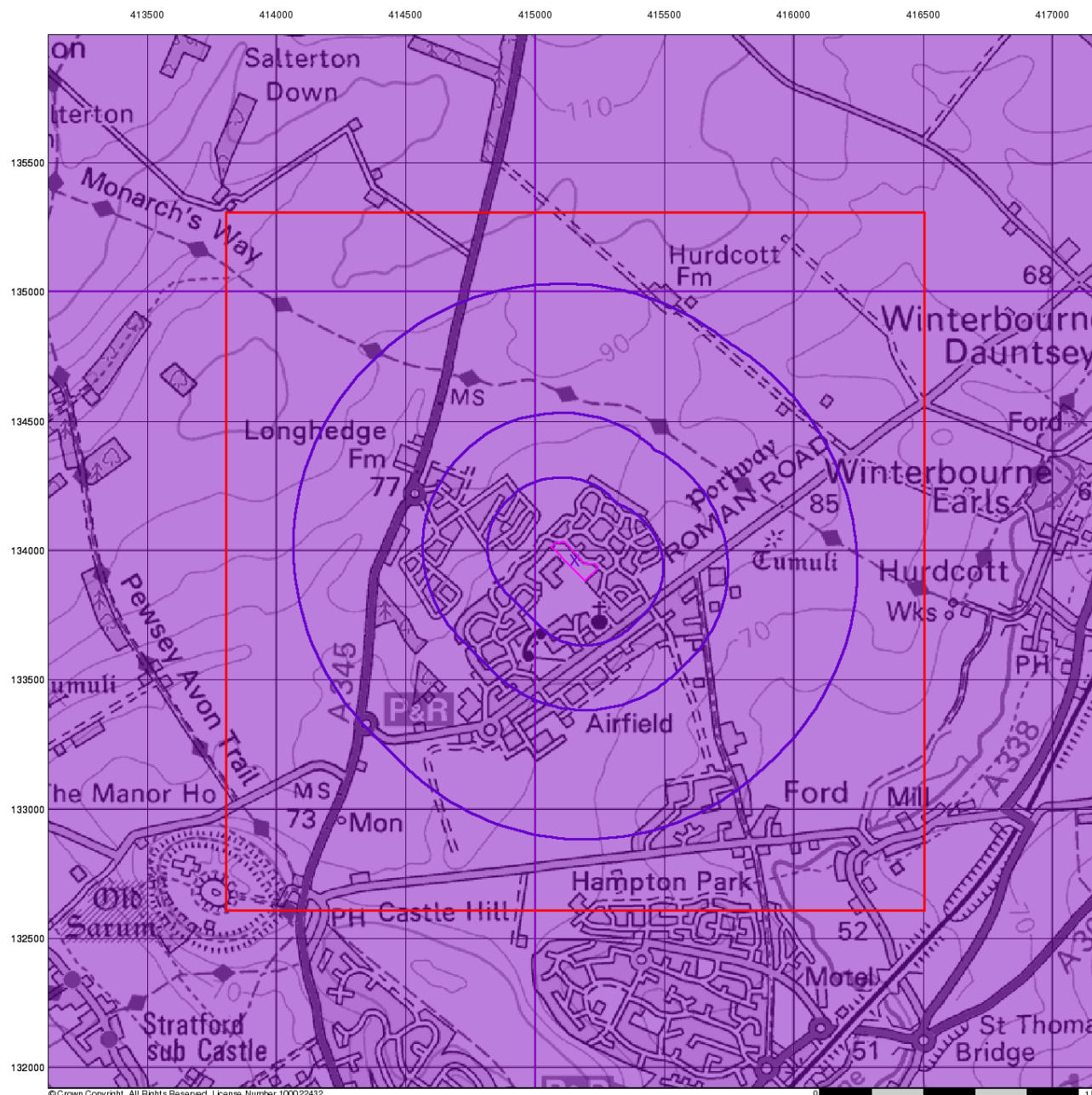
Order Number: 310397757\_1\_1  
 Customer Ref: GEG-23-786  
 National Grid Reference: 415150, 133960  
 Slice: A  
 Site Area (Ha): 0.91  
 Search Buffer (m): 1000

### Site Details

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## Bedrock Aquifer Designation

### General

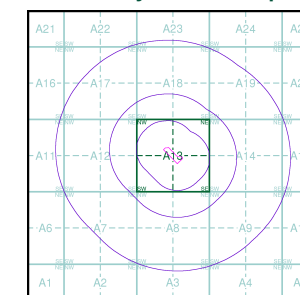
- ◊ Specified Site    ○ Specified Buffer(s)    X Bearing Reference Point
- Slice    8 Map ID

### Agency and Hydrological

#### Geological Classes

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 310397757\_1\_1  
 Customer Ref: GEG-23-786  
 National Grid Reference: 415150, 133960  
 Slice: A  
 Site Area (Ha): 0.91  
 Search Buffer (m): 1000

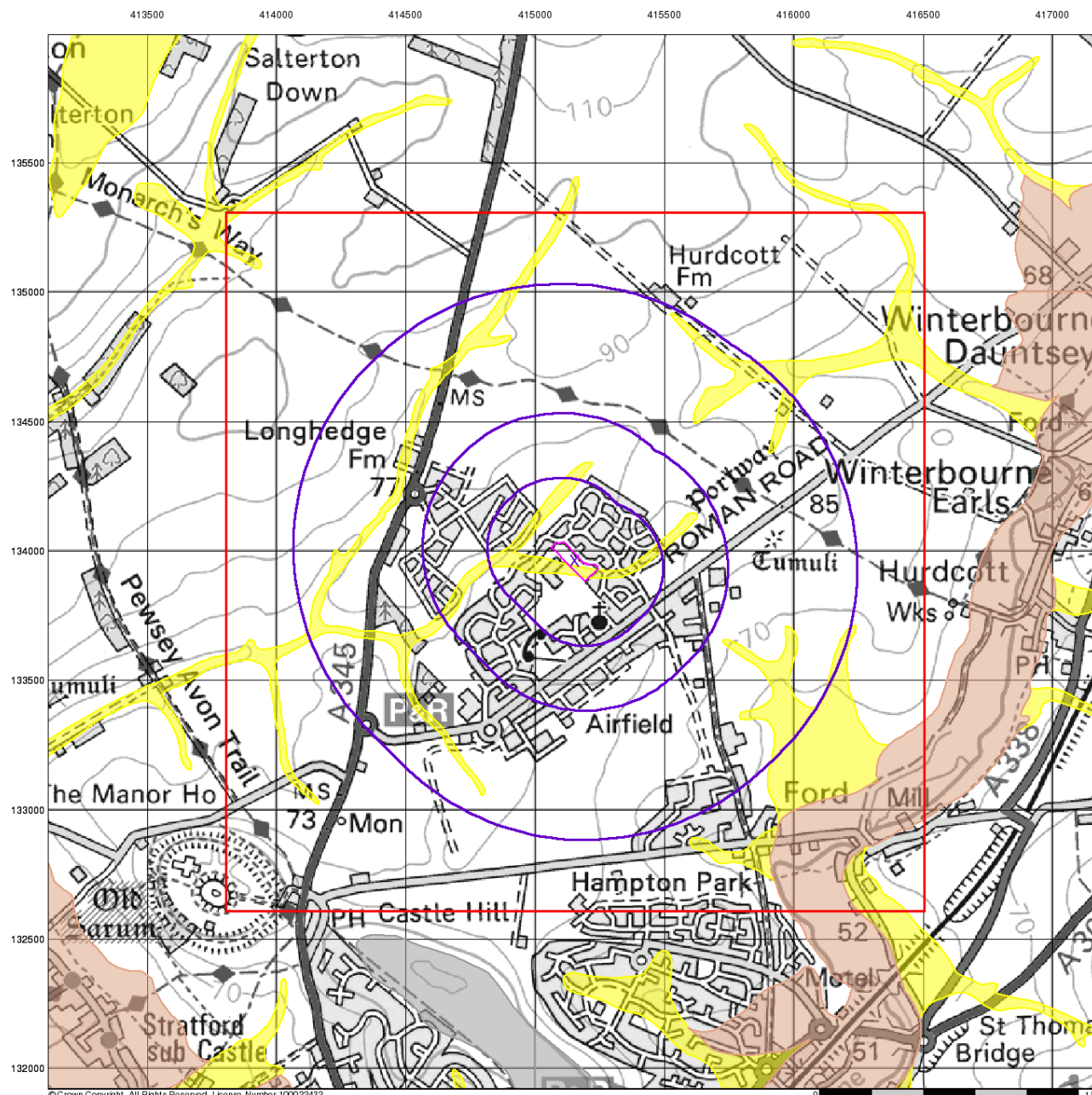
### Site Details

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## Superficial Aquifer Designation

### General

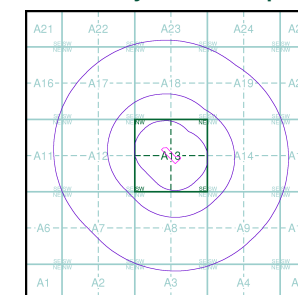
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 310397757\_1\_1  
 Customer Ref: GEG-23-786  
 National Grid Reference: 415150, 133960  
 Slice: A  
 Site Area (Ha): 0.91  
 Search Buffer (m): 1000

### Site Details

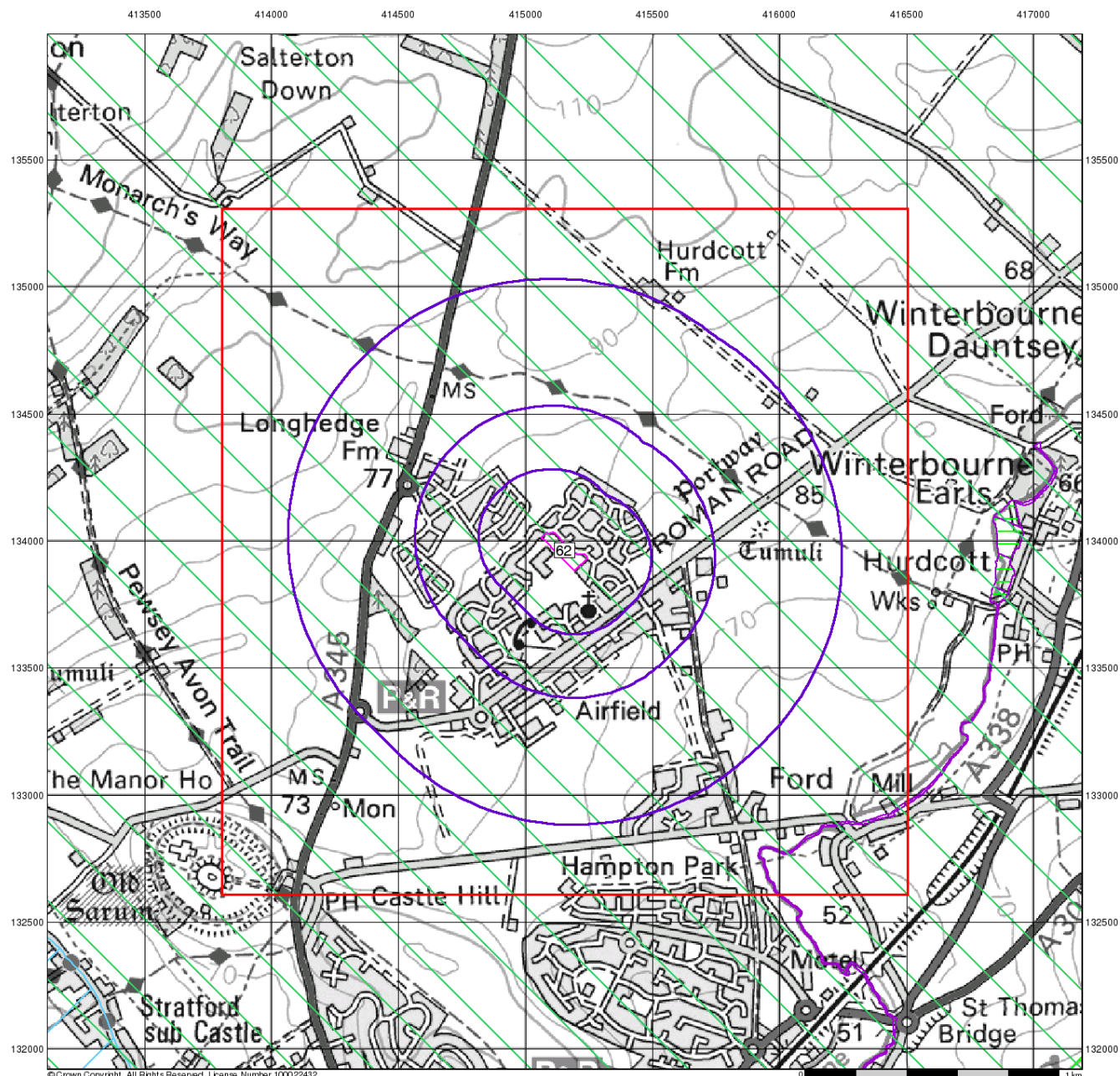
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## Sensitive Land Uses

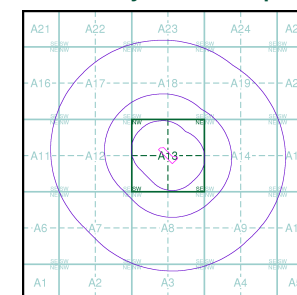
### General

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

### Sensitive Land Uses

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 310397757\_1\_1  
 Customer Ref: GEG-23-786  
 National Grid Reference: 415150, 133960  
 Slice: A  
 Site Area (Ha): 0.91  
 Search Buffer (m): 1000

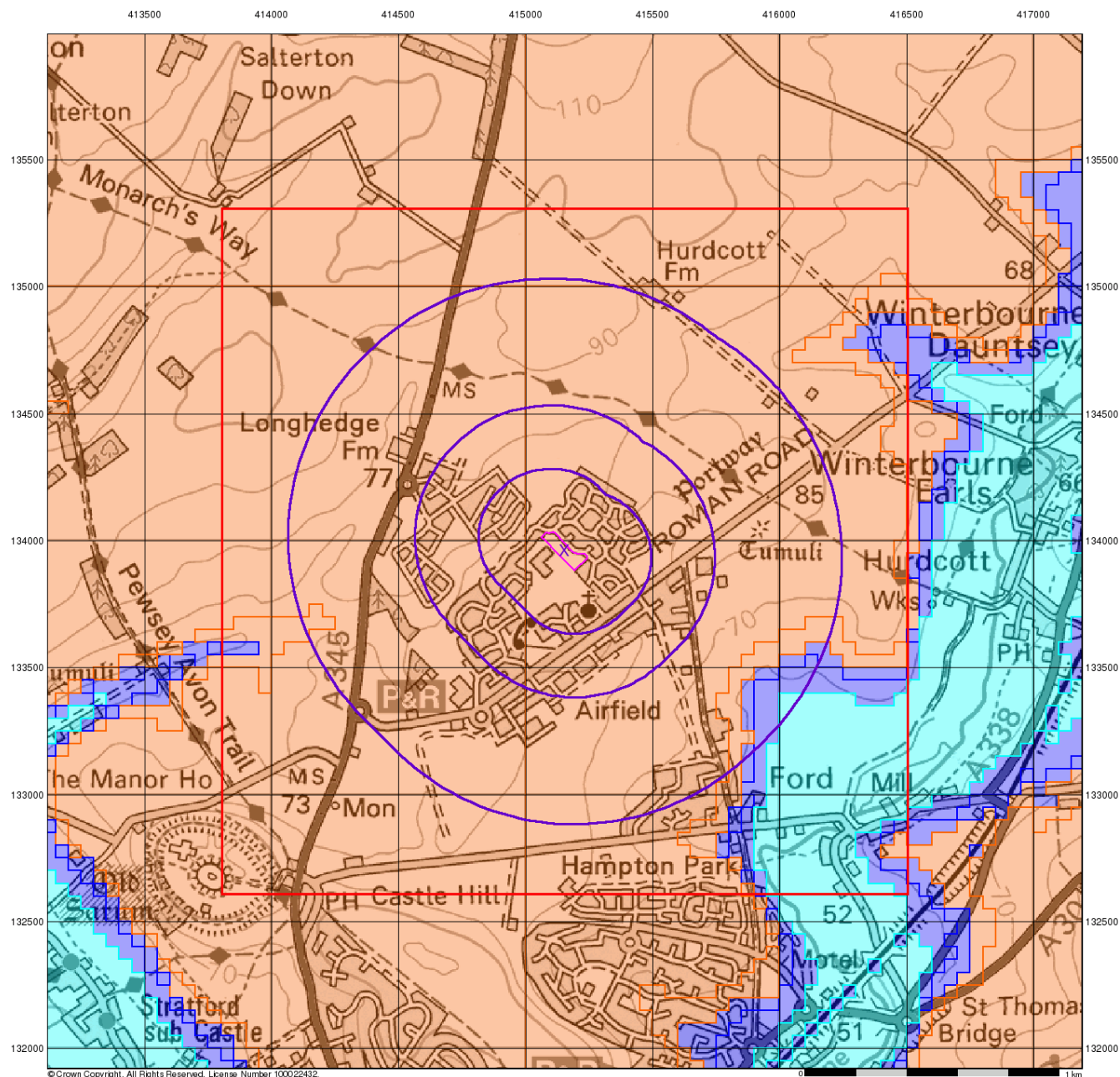
### Site Details

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## BGS Flood GFS Data

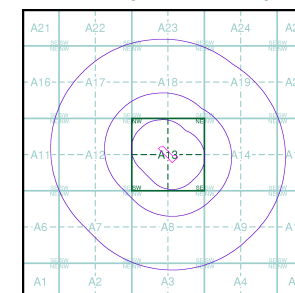
### General

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

### Agency and Hydrological (Flood)

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

### Site Sensitivity Context Map - Slice A



### Order Details

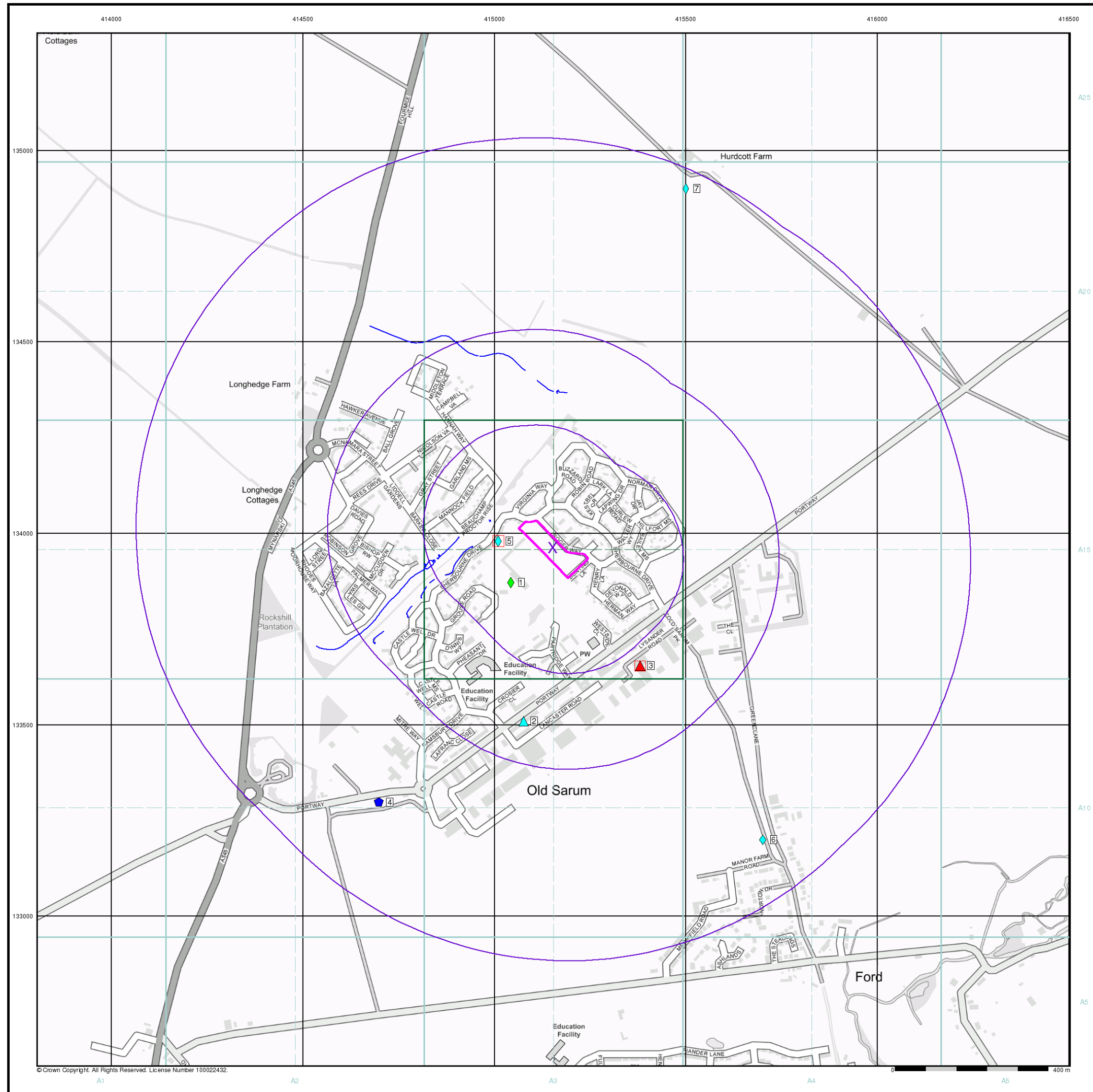
Order Number: 310397757\_1\_1  
 Customer Ref: GEG-23-786  
 National Grid Reference: 415150, 133960  
 Slice: A  
 Site Area (Ha): 0.91  
 Search Buffer (m): 1000

### Site Details

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General

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

Agency and Hydrological

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

Waste

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

Hazardous Substances

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

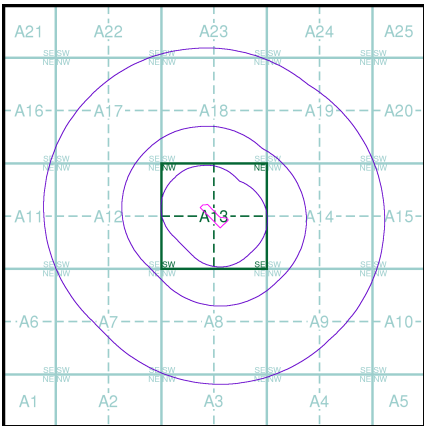
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A



Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

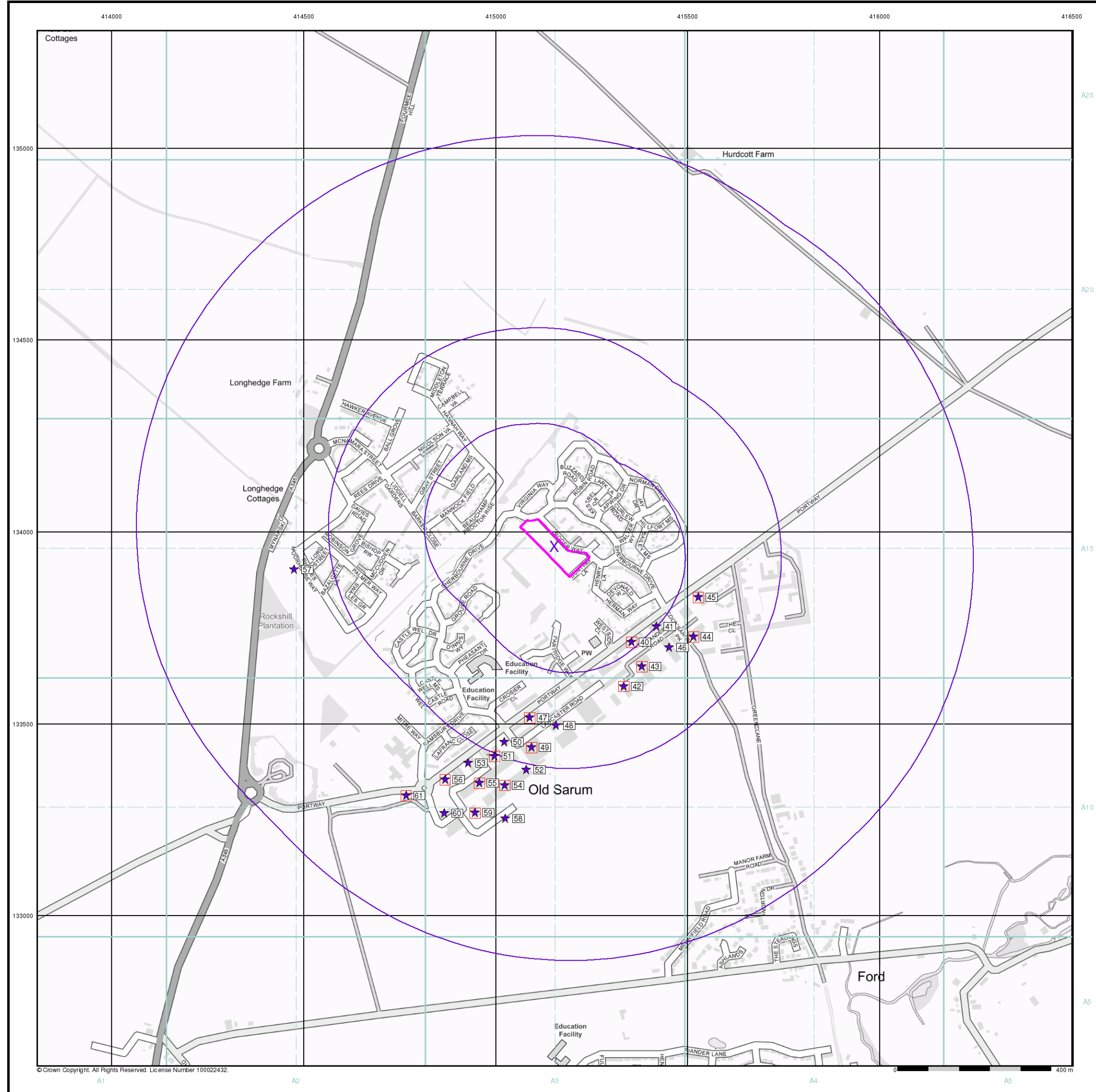
Site Details

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Industrial Land Use Map

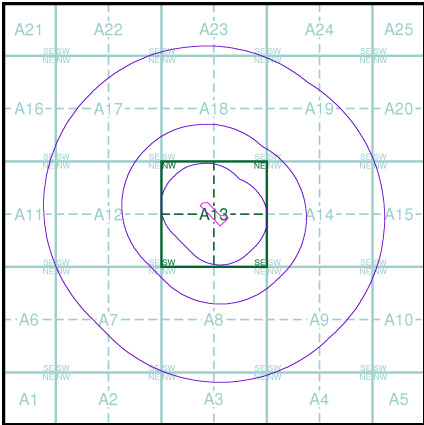
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

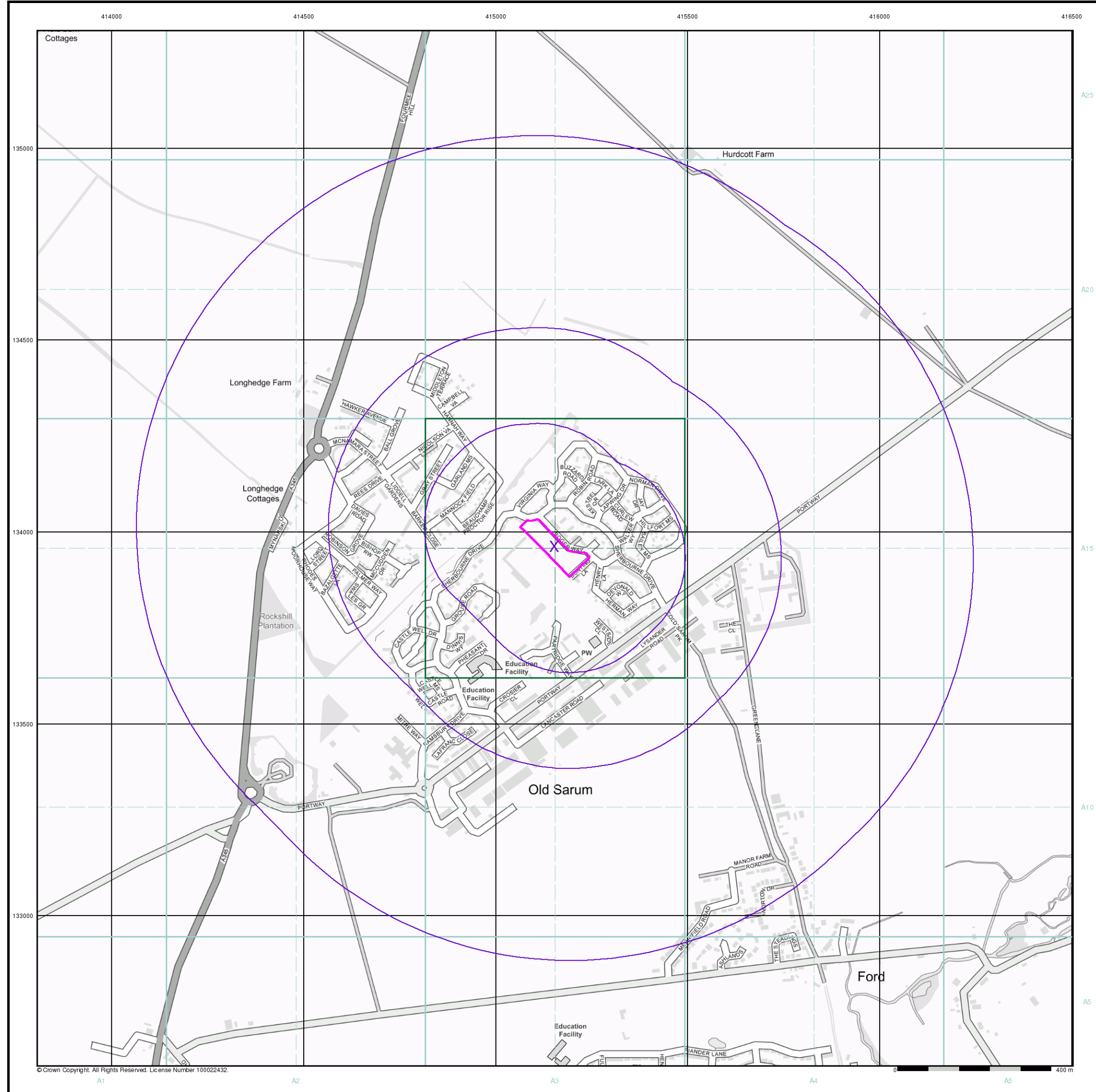
Site Details

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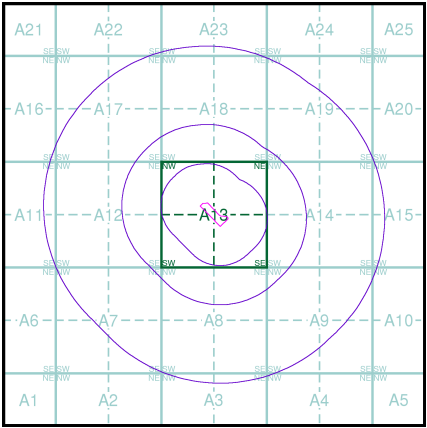
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

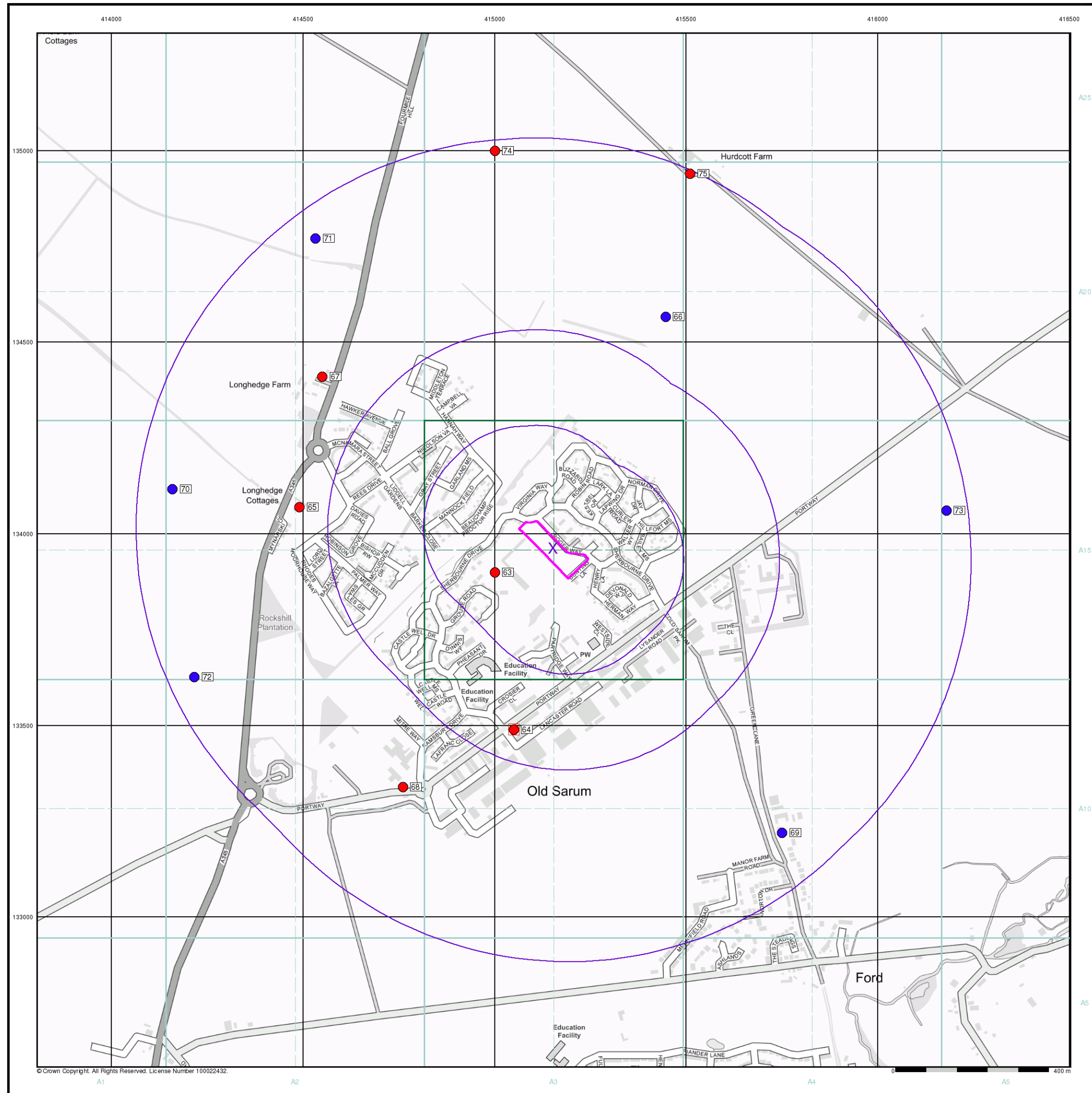
Order Number: 310397757\_1\_1  
 Customer Ref: GEG-23-786  
 National Grid Reference: 415150, 133960  
 Slice: A  
 Site Area (Ha): 0.91  
 Search Buffer (m): 1000

Site Details

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**General**

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

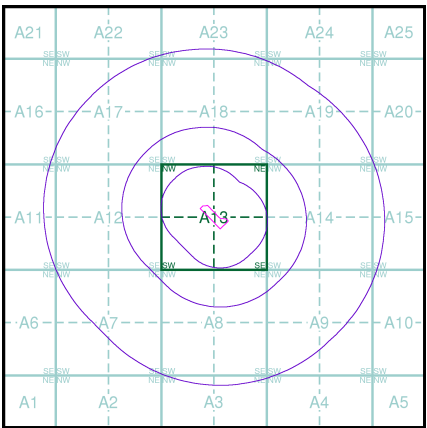
**Agency and Hydrological (Boreholes)**

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

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

A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

**Borehole Map - Slice A**



**Order Details**

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

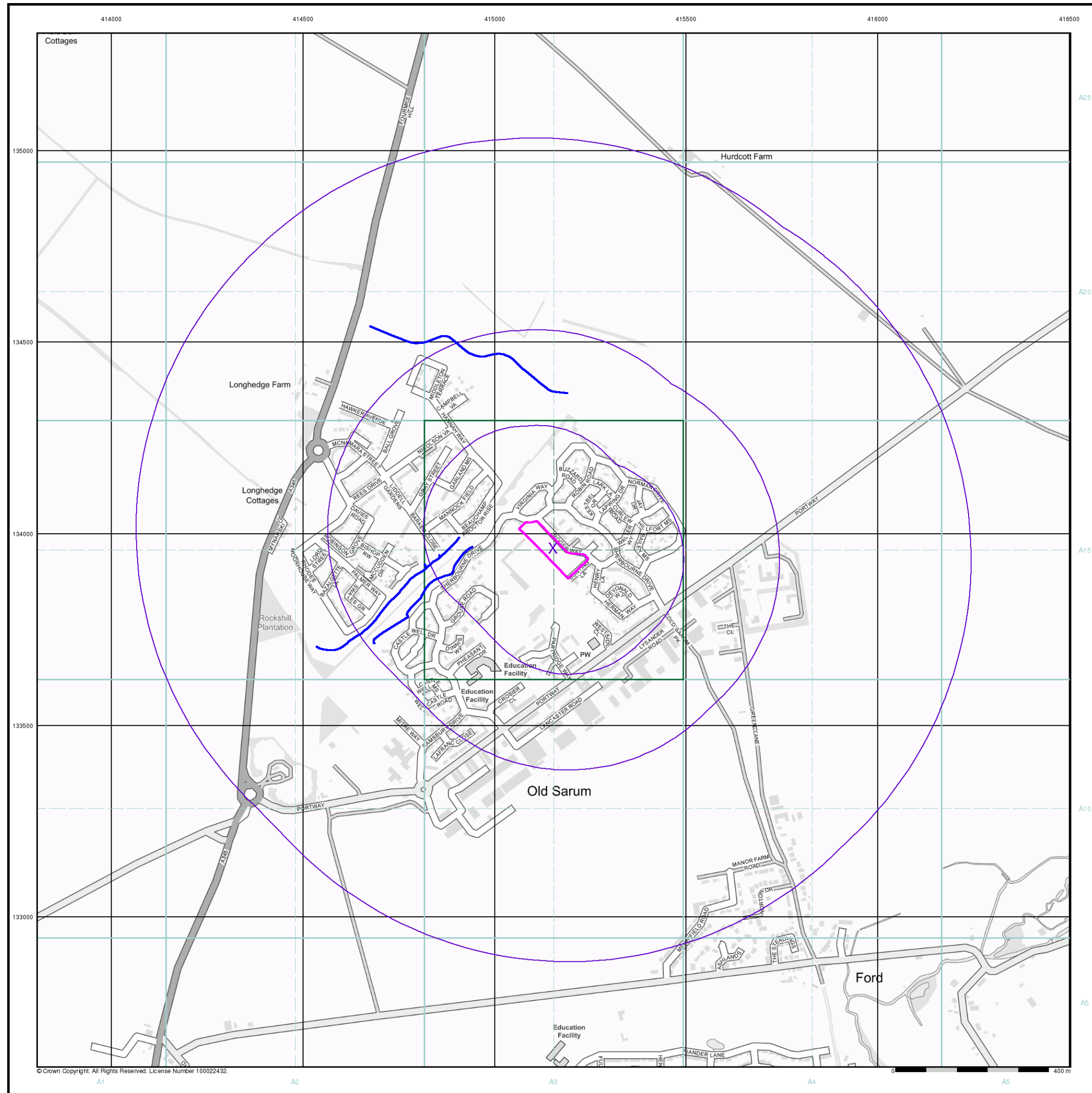
**Site Details**

Old Sarum, Salisbury, SP4 6PU



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





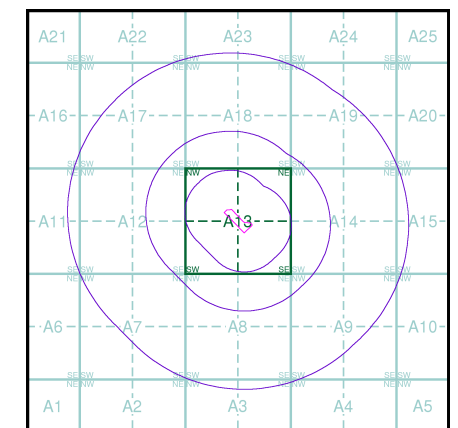
### General

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

### OS Water Network Data

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

### OS Water Network Map - Slice A



### Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

### Site Details

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## **APPENDIX E**

### **HISTORICAL MAPS**

# Historical Mapping Legends

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

Quarry

Gravel Pit

Sand Pit

Clay Pit

Shingle

Refuse Heap

Sloping Masonry

Flat Rock

Marsh

Reeds

Osiers

Rough Pasture

Furze

Wood

Mixed Wood

Brushwood

Orchard

Fir

Ford

Stepping Stones

Ferry

Waterfall

Lock

Trig. Station

Altitude at Trig. Station

B.M. 325.9

Bench Mark

Surface Level

Arrow denotes flow of water

Antiquities (site of)

Cutting

Embankment

Railway crossing Road

Level Crossing

Road crossing Railway

Railway crossing River or Canal

Road over single stream

Road over River or Canal

County Boundary (Geographical)

County & Civil Parish Boundary

Administrative County & Civil Parish Boundary

County Borough Boundary (England)

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

S.L. Sluice

F.P. Foot Path

S.P. Spring

G.P. Guide Post or Board

T.C.B. Telephone Call Box

M.S. Mile Stone

T.R. 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

Inactive Quarry, Chalk Pit or Clay Pit

Active Quarry, Chalk Pit or Clay Pit

Rock

Boulders

Cliff

Slopes

Top

Roofed Building

Glazed Roof Building

Sloping Masonry

Archway

Non-Coniferous Tree (surveyed)

Coniferous Tree (surveyed)

Non-Coniferous Trees (not surveyed)

Coniferous Trees (not surveyed)

Orchard Tree

Scrub

Bracken

Coppice, Osier

Reeds

Marsh, Saltings

Rough Grassland

Heath

Culvert

Direction of water flow

Bench Mark

Antiquity (site of)

Cave Entrance

Triangulation Station

Electricity Pylon

Electricity Transmission Line

County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

Admin. County or County Bor. Boundary

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

EI 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

Cliff

Rock

Boulders

Positioned Boulder

Non-Coniferous Tree (surveyed)

Coniferous Tree (surveyed)

Non-Coniferous Trees (not surveyed)

Coniferous Trees (not surveyed)

Orchard Tree

Scrub

Bracken

Coppice, Osier

Reeds

Marsh, Saltings

Rough Grassland

Heath

Culvert

Direction of water flow

Triangulation Station

Antiquity (site of)

Electricity Transmission Line

Electricity Pylon

Bench Mark

Buildings with Building Seed

Roofed Building

Glazed Roof Building

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

Disntd Rly Dismantled Railway

PW Place of Worship

El Gen Sta Electricity Generating Station

Sewage Ppg Sta Sewage Pumping Station

EI 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 Governor

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

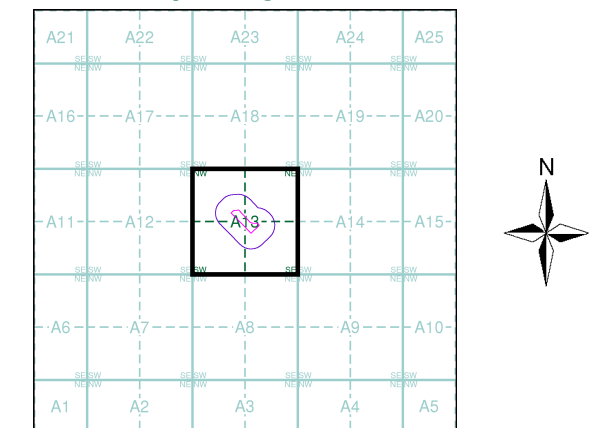
W Well



## Historical Mapping & Photography included:

| Mapping Type                   | Scale   | Date        | Pg |
|--------------------------------|---------|-------------|----|
| Wiltshire                      | 1:2,500 | 1880 - 1881 | 2  |
| Wiltshire                      | 1:2,500 | 1901        | 3  |
| Wiltshire                      | 1:2,500 | 1926        | 4  |
| Wiltshire                      | 1:2,500 | 1939        | 5  |
| Ordnance Survey Plan           | 1:2,500 | 1975        | 6  |
| Additional SIMs                | 1:2,500 | 1990        | 7  |
| Large-Scale National Grid Data | 1:2,500 | 1993        | 8  |

## Historical Map - Segment A13



## Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 100

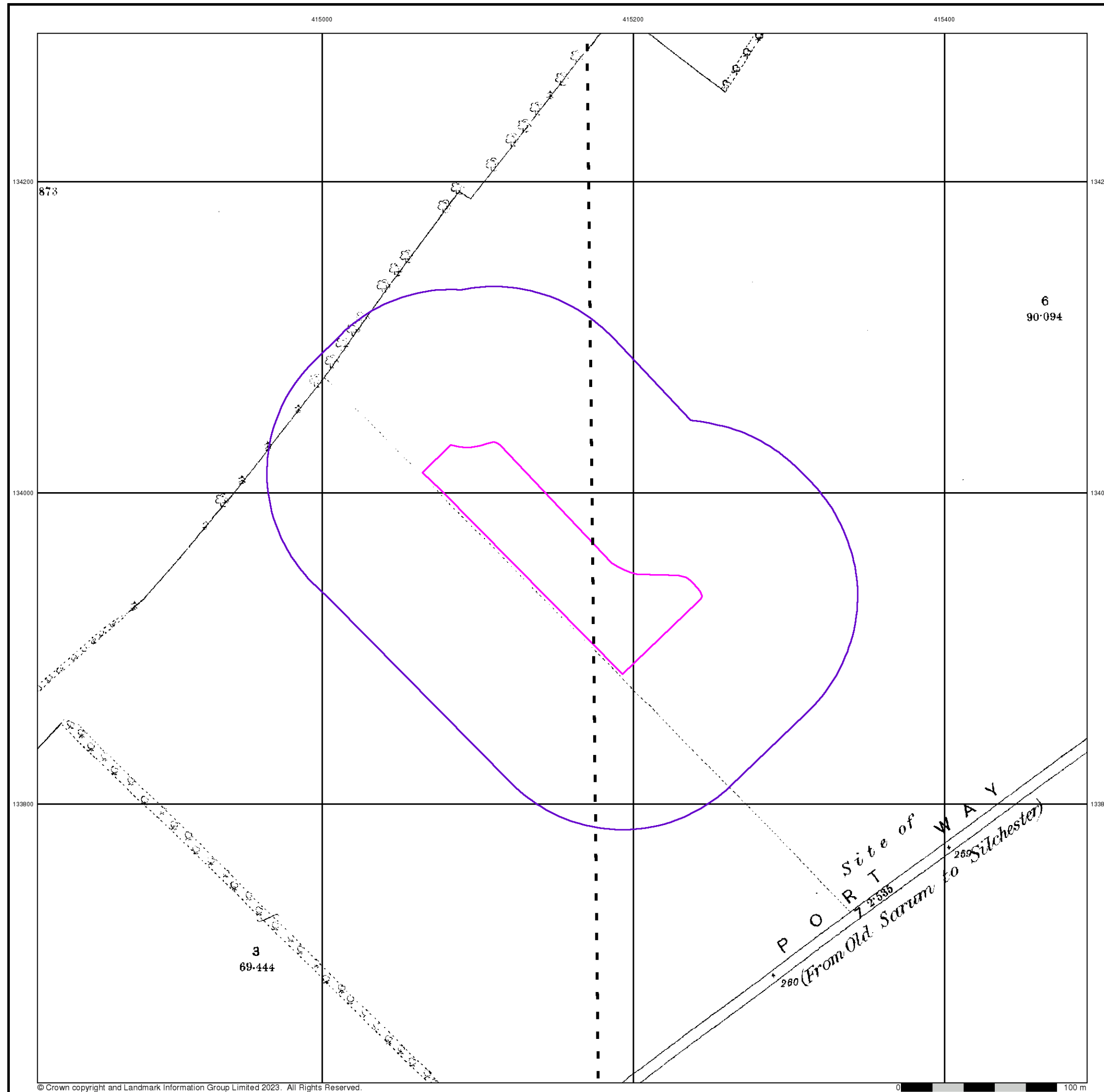
## Site Details

Old Sarum, Salisbury, SP4 6PU

**Landmark**  
INFORMATION GROUP

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





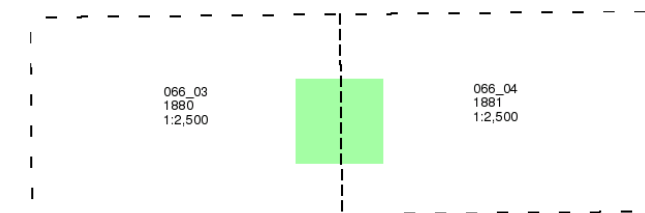
Wiltshire

Published 1880 - 1881

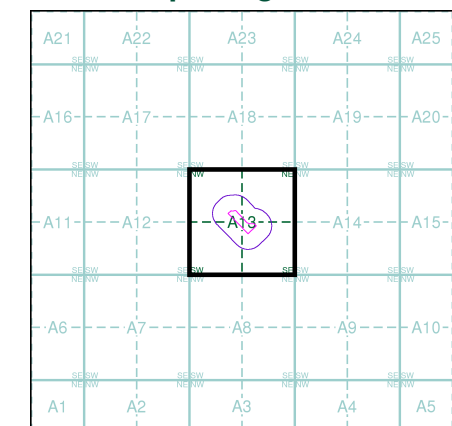
Source map scale - 1:2,500

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

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
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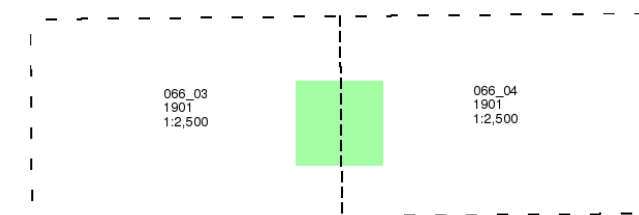
## Wiltshire

Published 1901

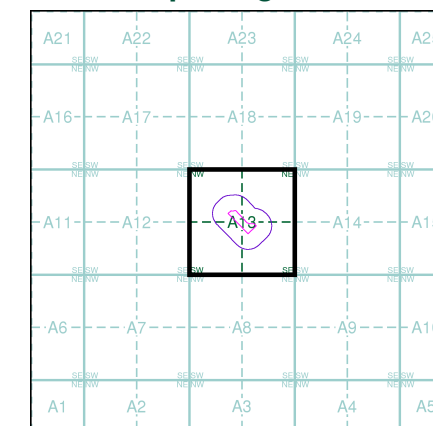
Source map scale - 1:2,500

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

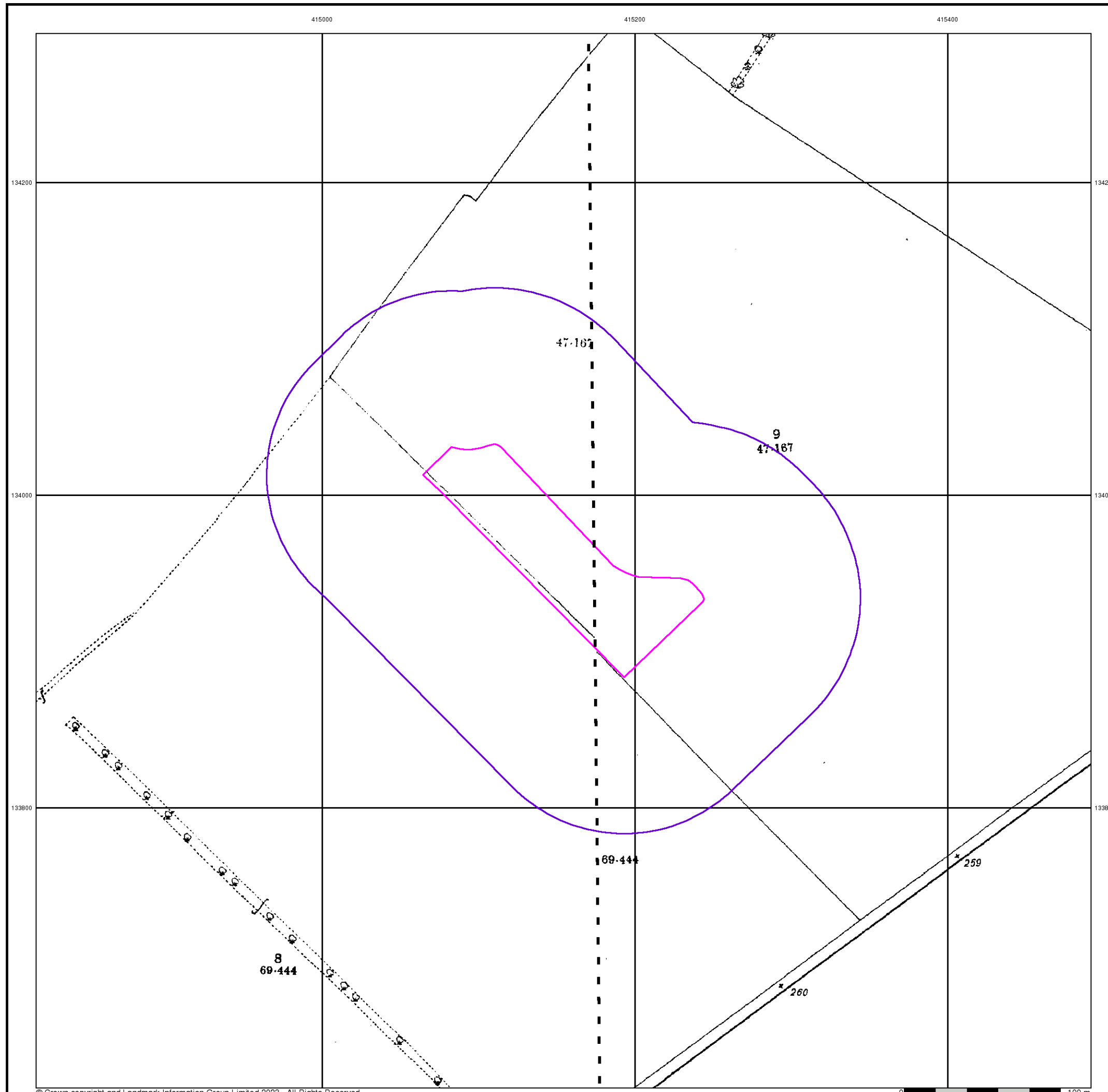
Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
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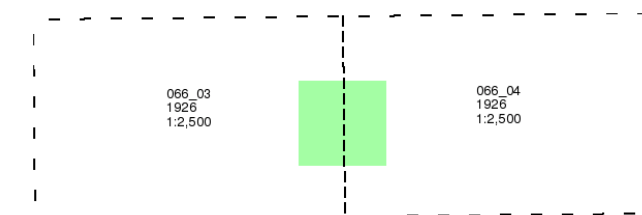
Wiltshire

Published 1926

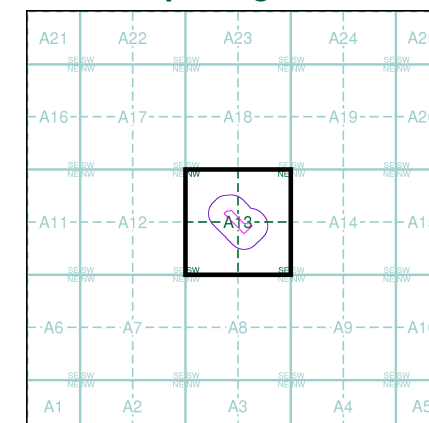
Source map scale - 1:2,500

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

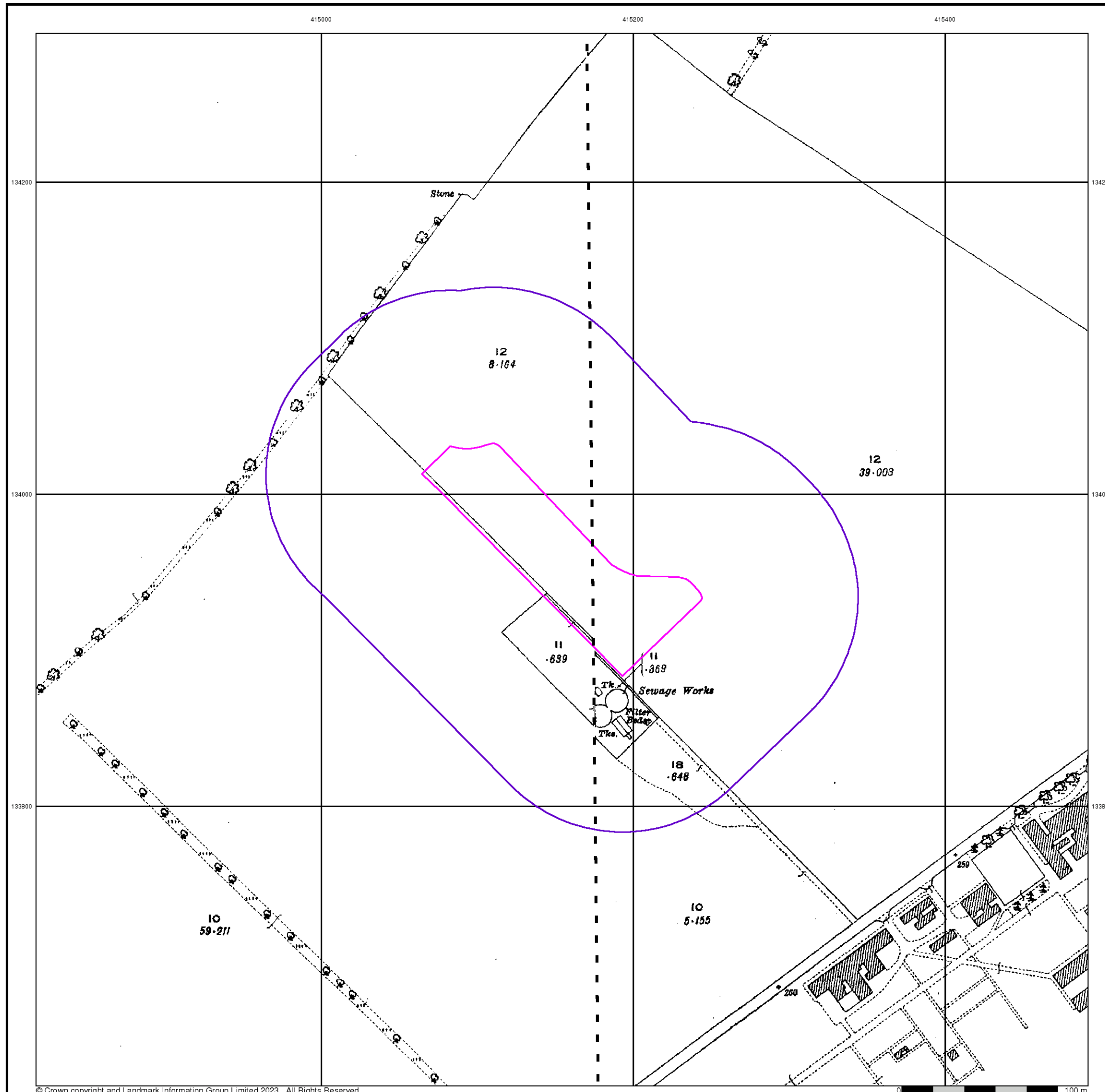
Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 100

### Site Details

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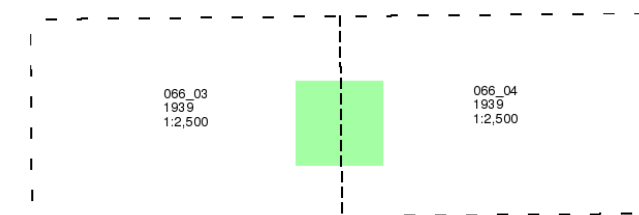
Wiltshire

Published 1939

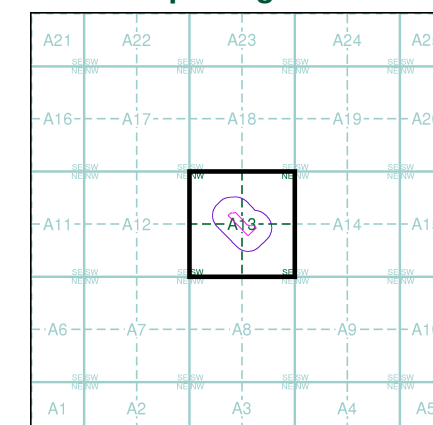
Source map scale - 1:2,500

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: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 100

### Site Details

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## Ordnance Survey Plan

Published 1975

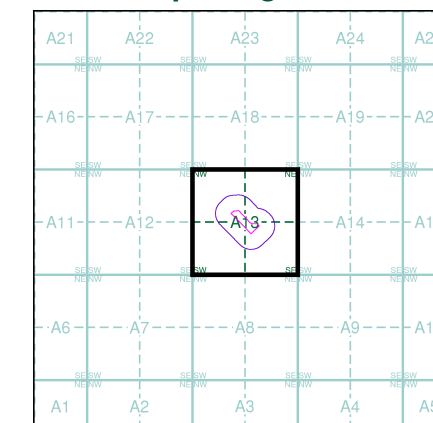
Source map scale - 1:2,500

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)

|                          |                          |
|--------------------------|--------------------------|
| SU1434<br>1975<br>12,500 | SU1534<br>1975<br>12,500 |
| SU1433<br>1975<br>12,500 | SU1533<br>1975<br>12,500 |

### Historical Map - Segment A13



### Order Details

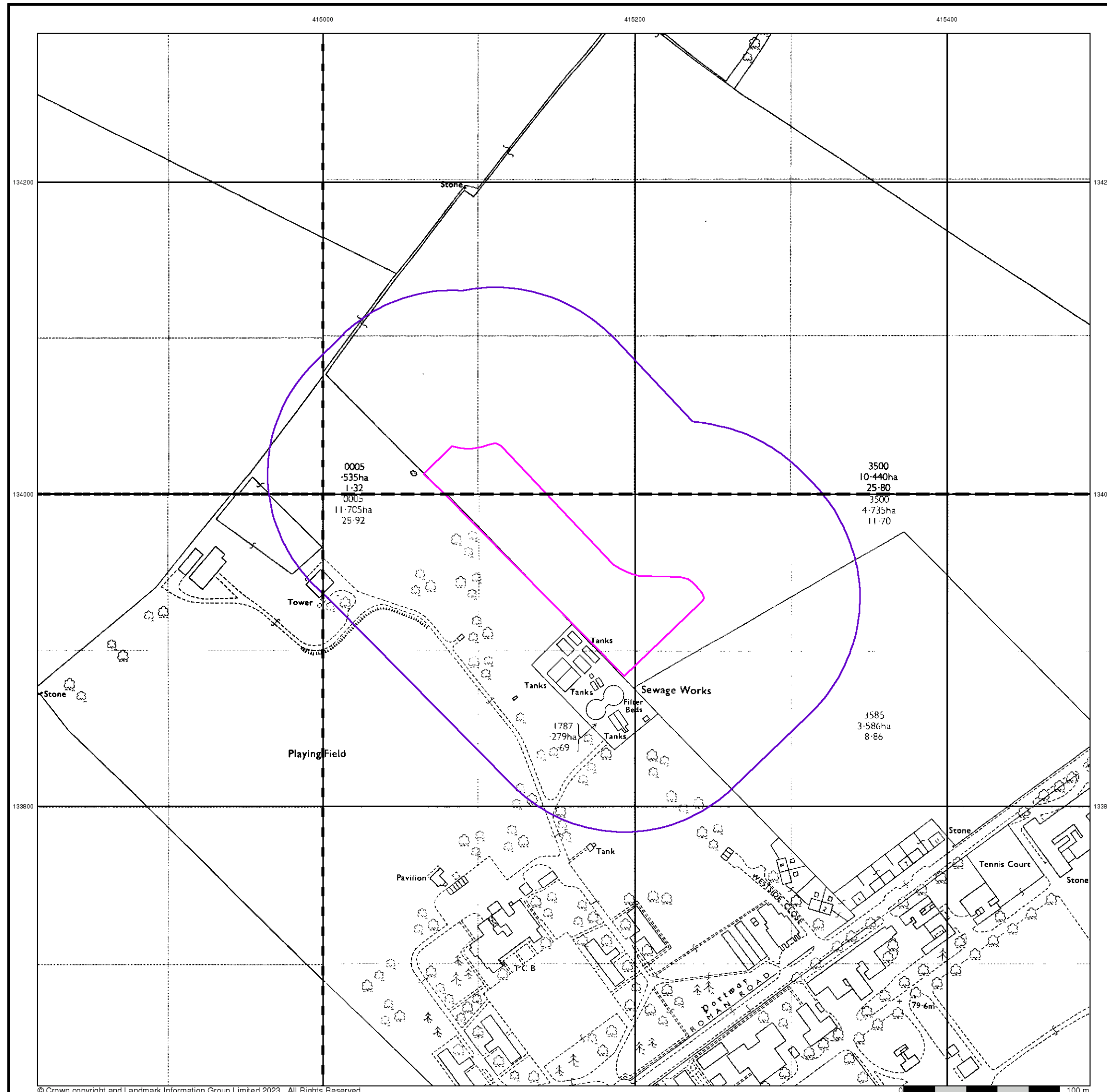
Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 100

### Site Details

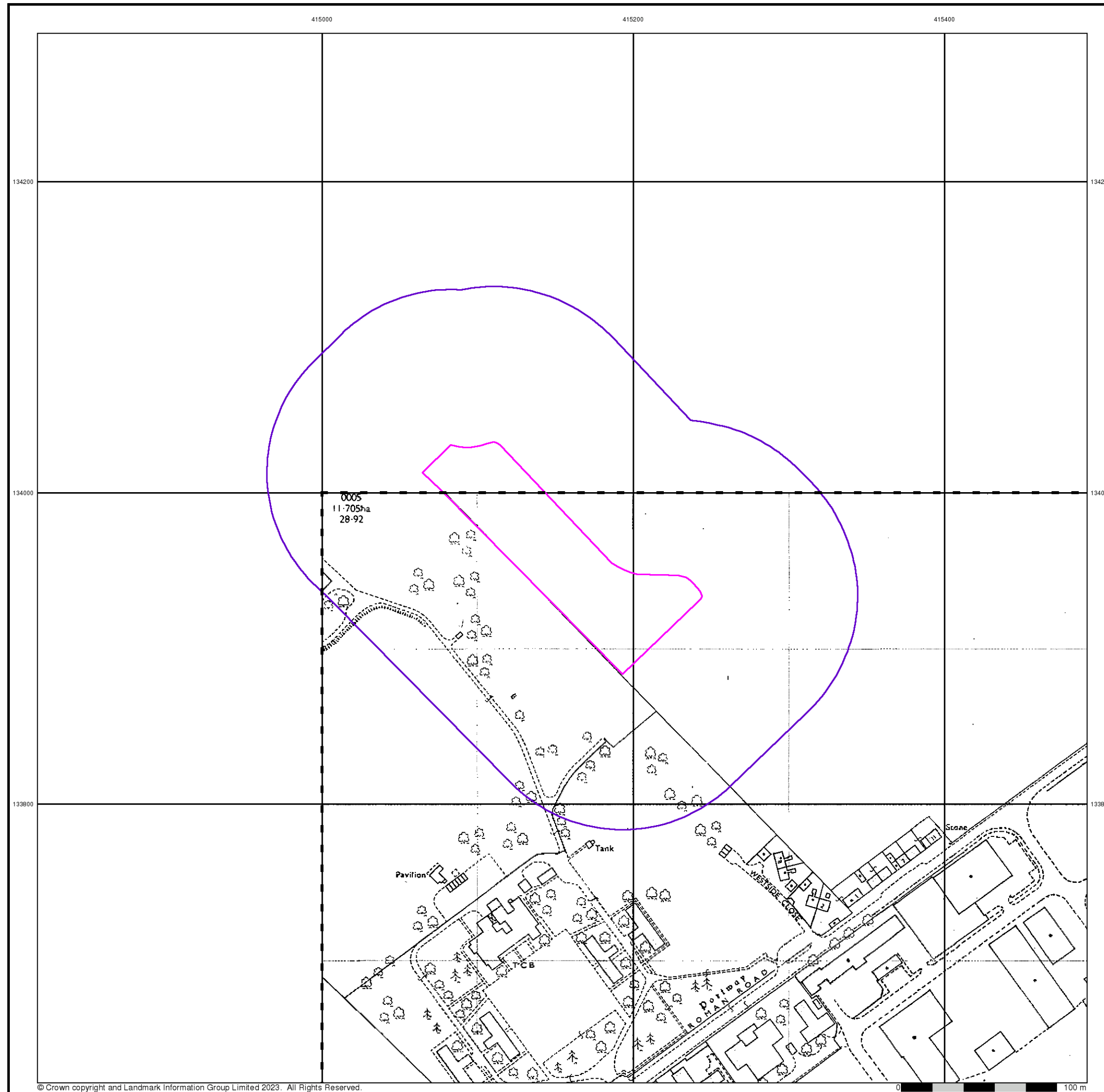
Old Sarum, Salisbury, SP4 6PU

**Landmark**  
INFORMATION GROUP

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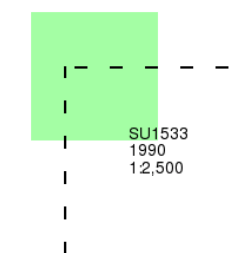
## Additional SIMs

Published 1990

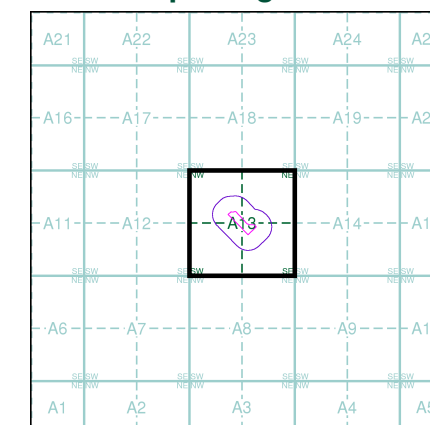
Source map scale - 1:2,500

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

## Map Name(s) and Date(s)



## Historical Map - Segment A13



## Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 100

## Site Details

Old Sarum, Salisbury, SP4 6PU

**Landmark**  
INFORMATION GROUP

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## Large-Scale National Grid Data

Published 1993

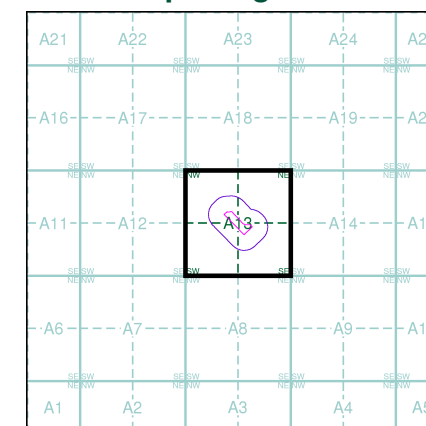
Source map scale - 1:2,500

'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)

|                          |                          |
|--------------------------|--------------------------|
| SU1434<br>1993<br>12,500 | SU1534<br>1993<br>12,500 |
| SU1433<br>1993<br>12,500 | SU1533<br>1993<br>12,500 |

### Historical Map - Segment A13



### Order Details

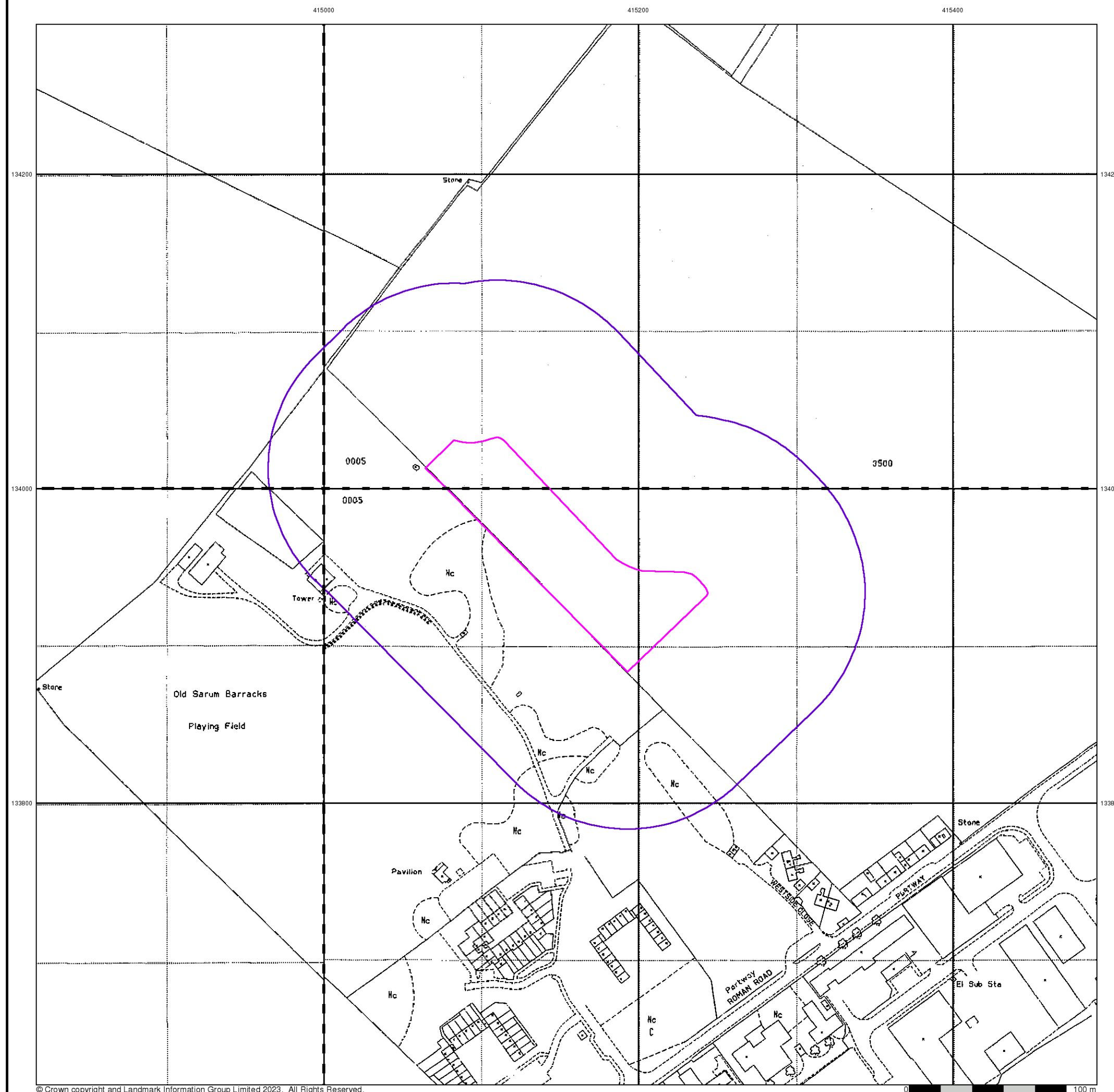
Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 100

### Site Details

Old Sarum, Salisbury, SP4 6PU

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INFORMATION GROUP

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# 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                                    |  | Minor Roads                 |  |               |
|  | 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 |  |                             |  |               |
|  | County Borough Boundary (England)             |  |                             |  |               |
|  | County Burgh Boundary (Scotland)              |  |                             |  |               |
|  | 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                                                   |
|  | Bracken                                                               |  | Heath                                                   |
|  | Marsh                                                                 |  | Reeds                                                   |
|  | Building                                                              |  | Glasshouse                                              |
|  | Sloping Masonry                                                       |  | Pylon                                                   |
|  | Cutting                                                               |  | Embankment                                              |
|  | Road Under                                                            |  | Road Over                                               |
|  | Level Crossing                                                        |  | Foot Bridge                                             |
|  | Standard Gauge Multiple Track                                         |  | 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                   |
|  | Civil Parish                                                          |  |                                                         |
|  | BP, BS Boundary Post or Stone                                         |  | Police Station                                          |
|  | Church                                                                |  | Post Office                                             |
|  | Club House                                                            |  | Public Convenience                                      |
|  | Fire Engine Station                                                   |  | Public House                                            |
|  | Foot Bridge                                                           |  | Signal Box                                              |
|  | Fountain                                                              |  | Spring                                                  |
|  | Guide Post                                                            |  | Telephone Call Box                                      |
|  | Mile Post                                                             |  | Telephone Call Post                                     |
|  | Mile Stone                                                            |  | Well                                                    |

## 1:10,000 Raster Mapping

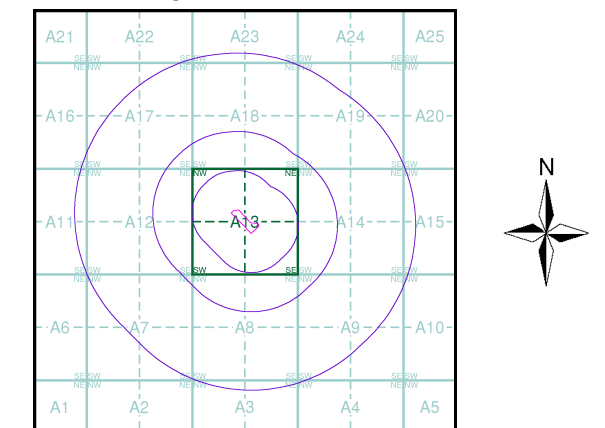
|  |                                                          |  |                                            |
|--|----------------------------------------------------------|--|--------------------------------------------|
|  | Gravel Pit                                               |  | Refuse tip or slag heap                    |
|  | Rock                                                     |  | Rock (scattered)                           |
|  | Boulders                                                 |  | Boulders (scattered)                       |
|  | Shingle                                                  |  | Mud                                        |
|  | 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                                |
|  | Mean high water (springs)                                |  | Mean low water (springs)                   |
|  | Telephone line (where shown)                             |  | Electricity transmission line (with poles) |
|  | 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                         |



## Historical Mapping & Photography included:

| Mapping Type         | Scale    | Date        | Pg |
|----------------------|----------|-------------|----|
| Wiltshire            | 1:10,560 | 1887        | 2  |
| Wiltshire            | 1:10,560 | 1901        | 3  |
| Wiltshire            | 1:10,560 | 1926        | 4  |
| Wiltshire            | 1:10,560 | 1939        | 5  |
| Ordnance Survey Plan | 1:10,000 | 1961 - 1963 | 6  |
| Ordnance Survey Plan | 1:10,000 | 1962        | 7  |
| Ordnance Survey Plan | 1:10,000 | 1970        | 8  |
| Ordnance Survey Plan | 1:10,000 | 1977        | 9  |
| Ordnance Survey Plan | 1:10,000 | 1981 - 1983 | 10 |
| 10K Raster Mapping   | 1:10,000 | 2000        | 11 |
| Street View          | Variable |             | 12 |

## Historical Map - Slice A



## Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

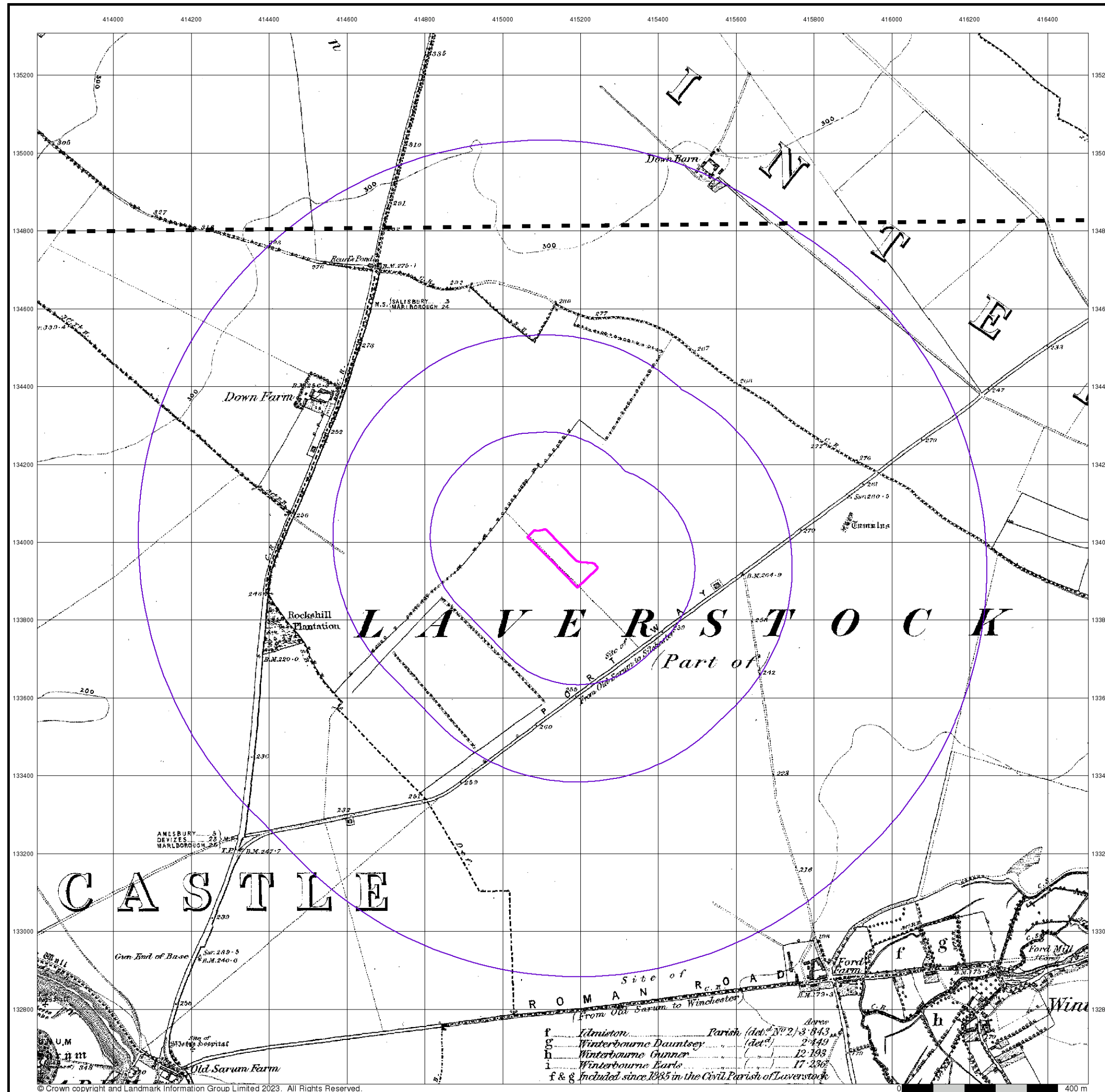
## Site Details

Old Sarum, Salisbury, SP4 6PU

**Landmark**  
INFORMATION GROUP

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





Wiltshire

Published 1887

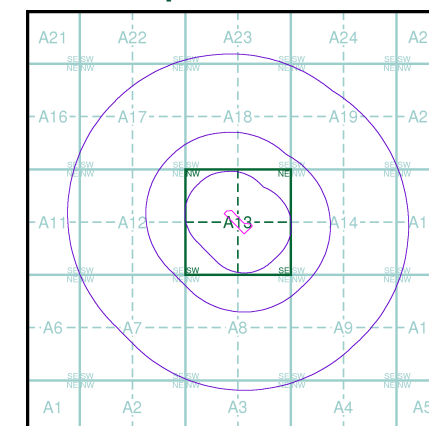
Source map scale - 1:10,560

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)

|       |      |          |
|-------|------|----------|
| 06000 | 1887 | 1:10,560 |
| 06600 | 1887 | 1:10,560 |

Historical Map - Slice A



Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
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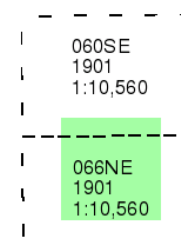
Wiltshire

Published 1901

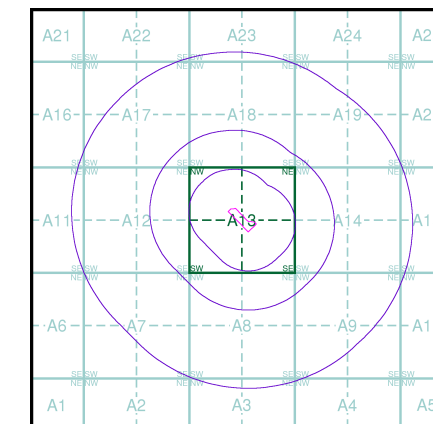
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

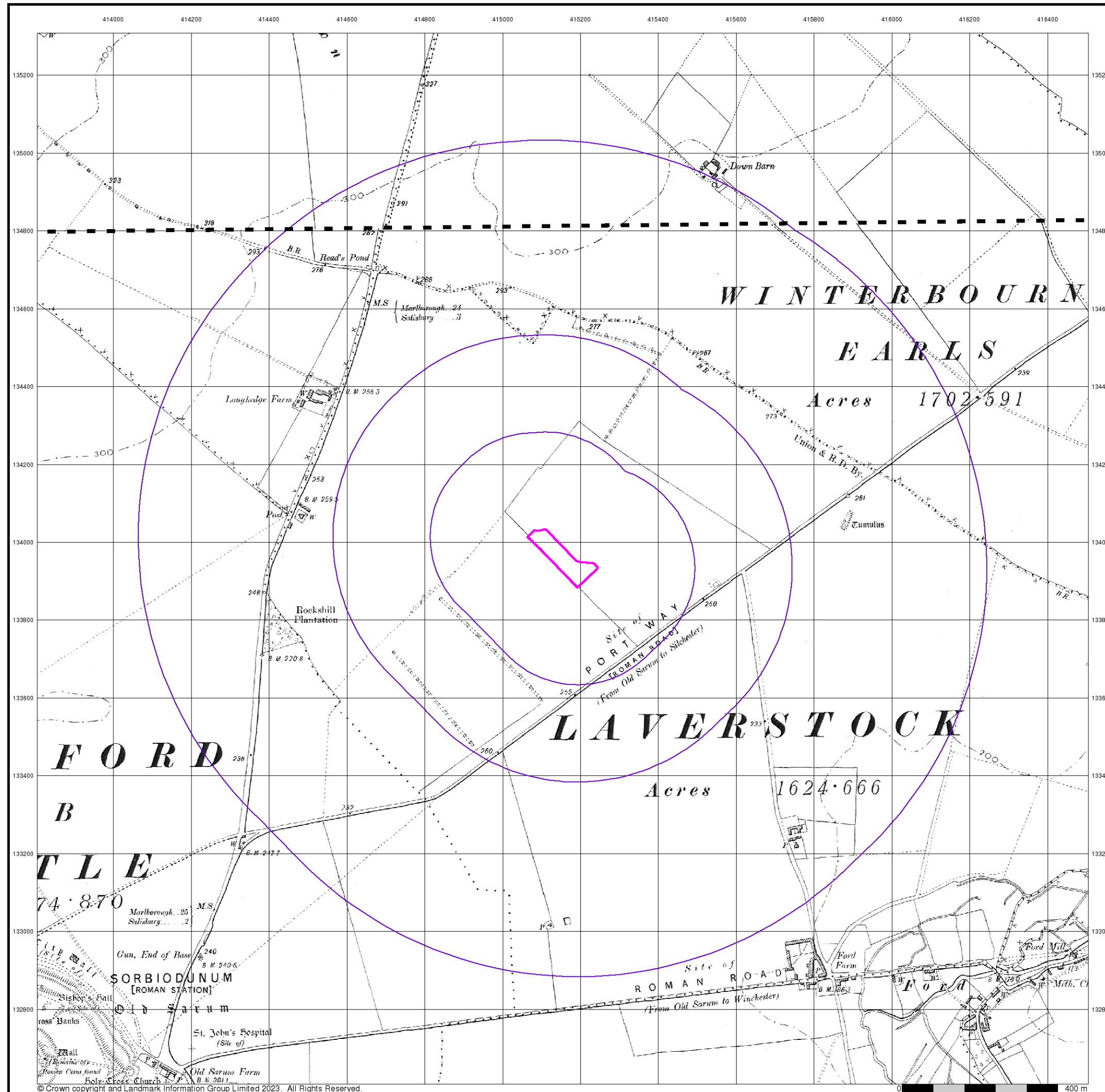
Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

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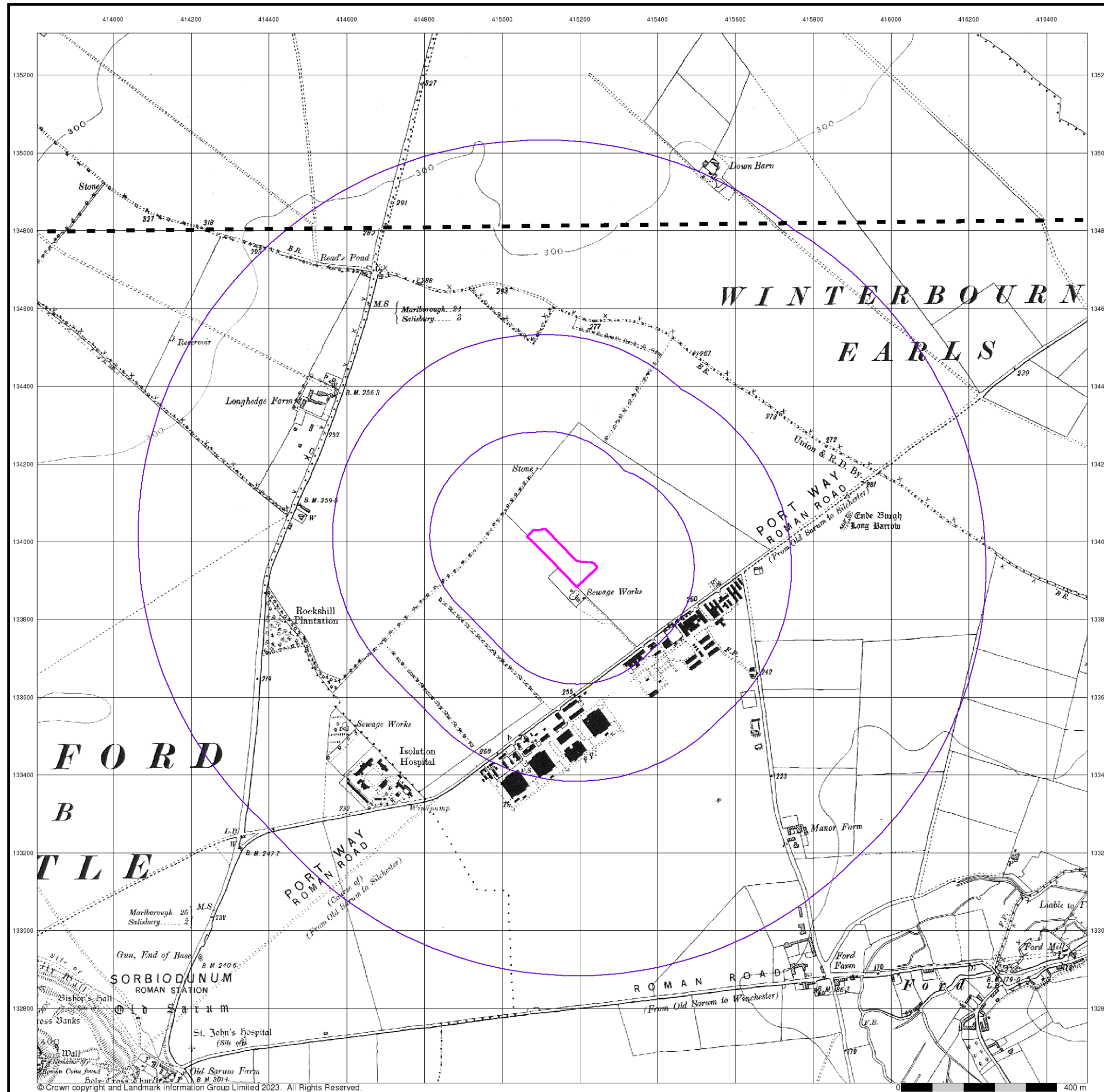
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Wiltshire

Published 1926

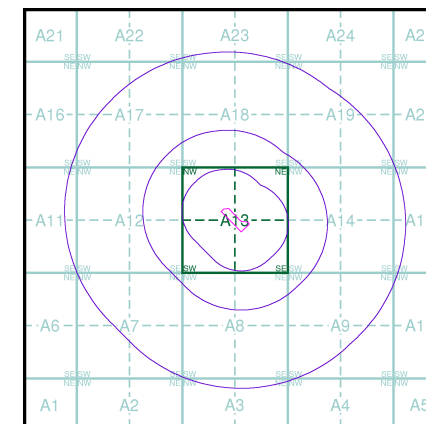
Source map scale - 1:10,560

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)

|          |
|----------|
| 060SE    |
| 1926     |
| 1:10,560 |
| 066NE    |
| 1926     |
| 1:10,560 |

Historical Map - Slice A



Order Details

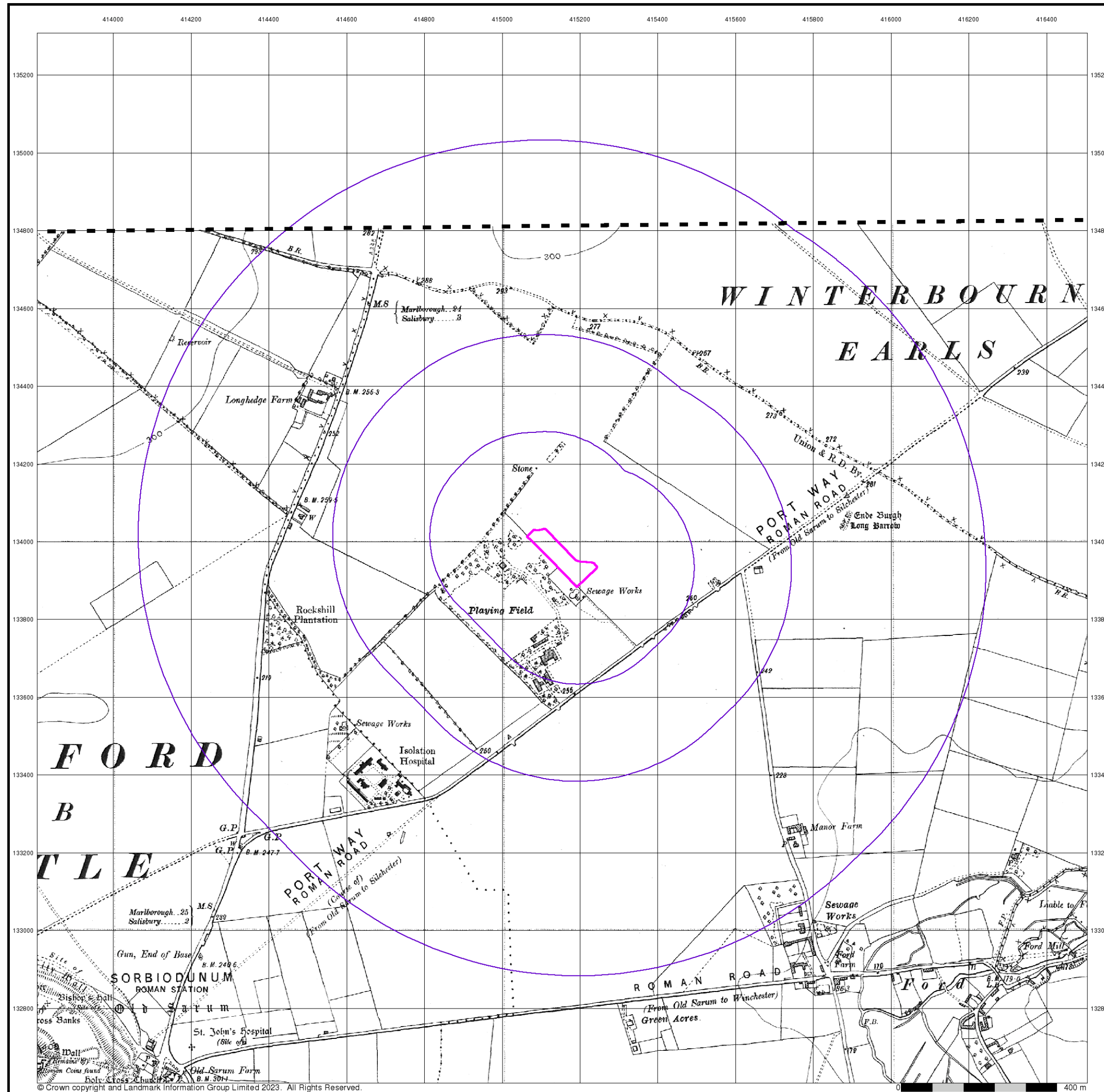
Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

Site Details

Old Sarum, Salisbury, SP4 6PU

Landmark  
INFORMATION GROUP

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



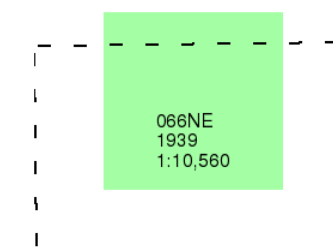
## Wiltshire

Published 1939

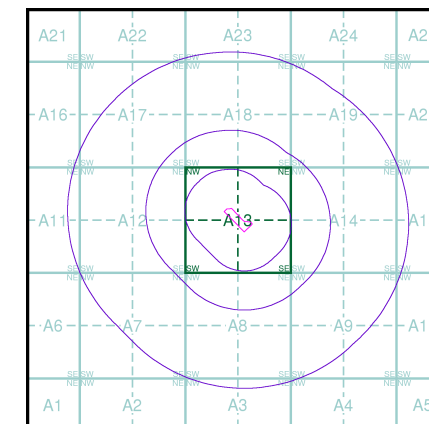
Source map scale - 1:10,560

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

## Map Name(s) and Date(s)



## Historical Map - Slice A



## Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

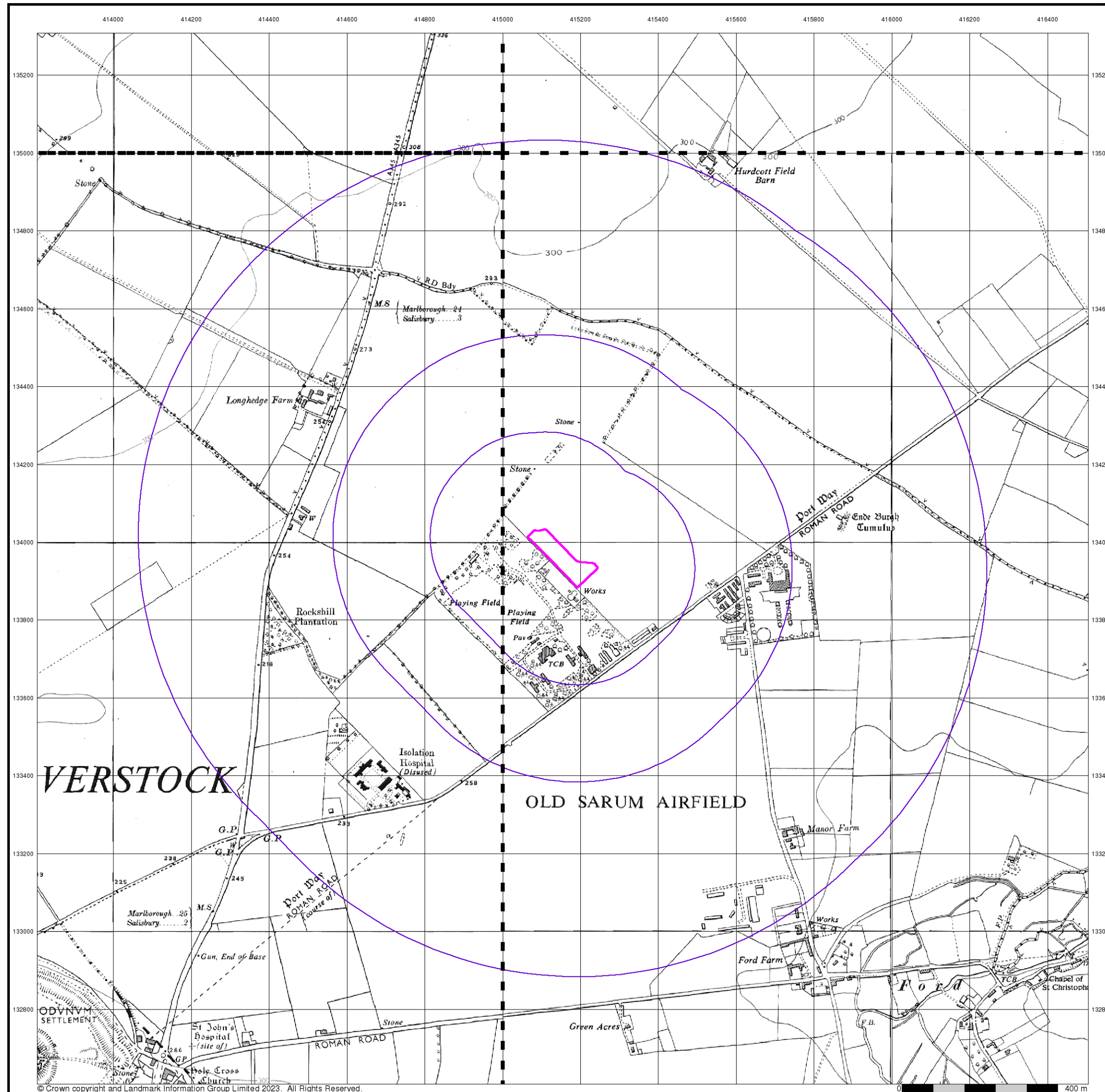
## Site Details

Old Sarum, Salisbury, SP4 6PU

**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





## Ordnance Survey Plan

Published 1961 - 1963

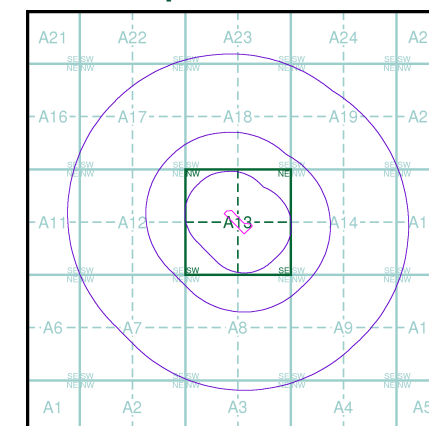
Source map scale - 1:10,000

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)

|          |          |
|----------|----------|
| SU13NW   | SU13NE   |
| 1961     | 1962     |
| 1:10,560 | 1:10,560 |
| SU13SW   | SU13SE   |
| 1963     | 1962     |
| 1:10,560 | 1:10,560 |

## Historical Map - Slice A



## Order Details

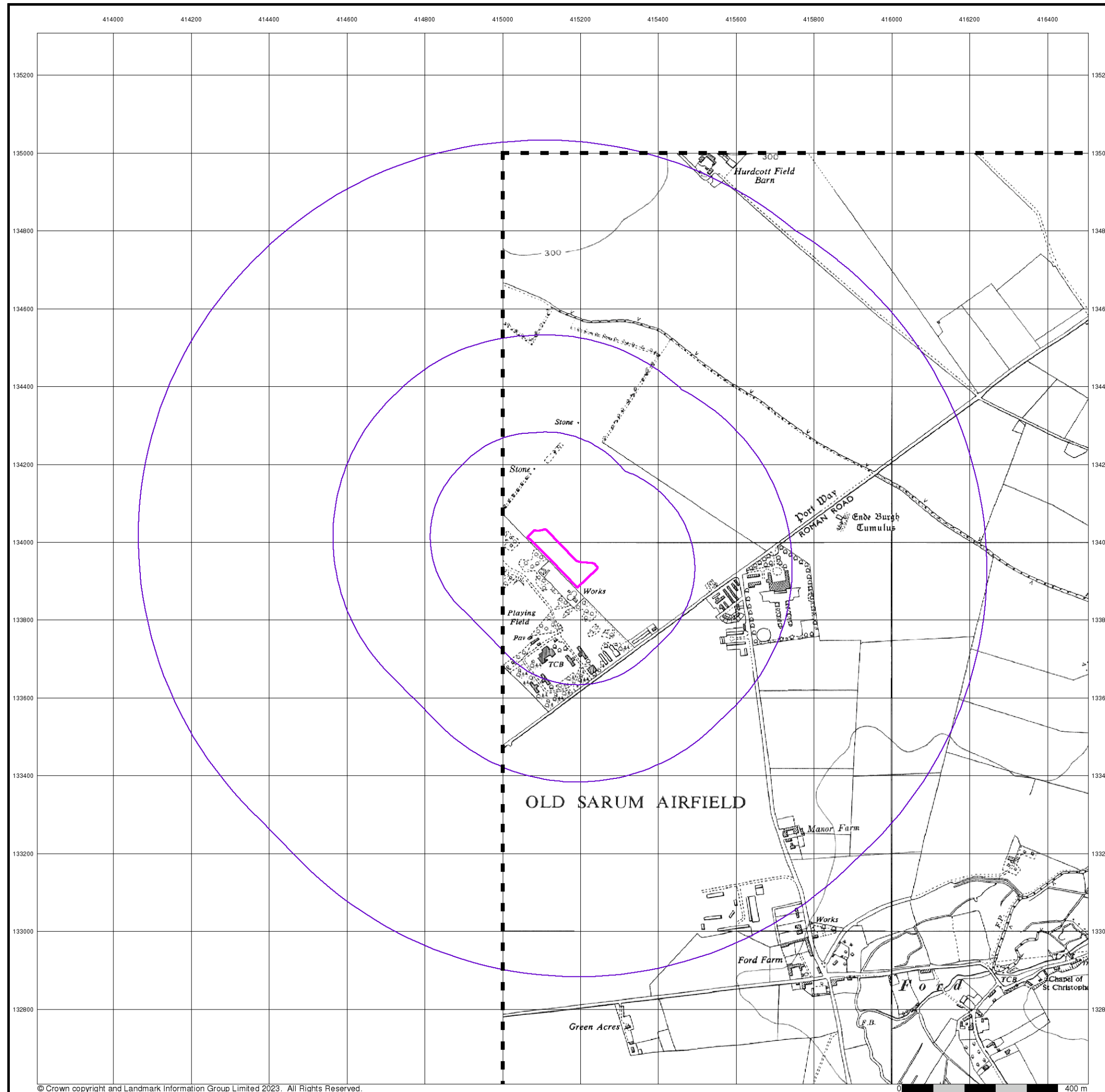
Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

## Site Details

Old Sarum, Salisbury, SP4 6PU

**Landmark**  
INFORMATION GROUP

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0 400 m



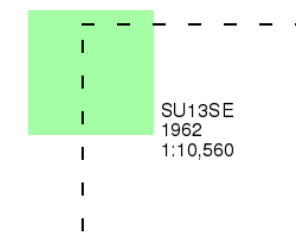
## Ordnance Survey Plan

Published 1962

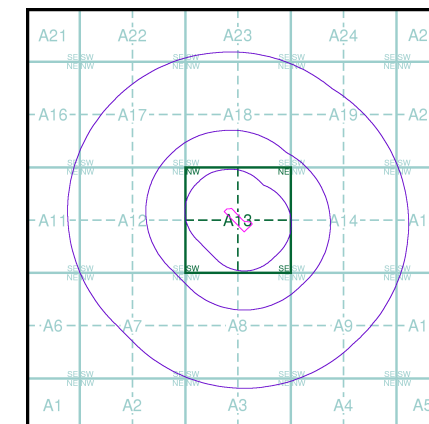
Source map scale - 1:10,000

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



## Order Details

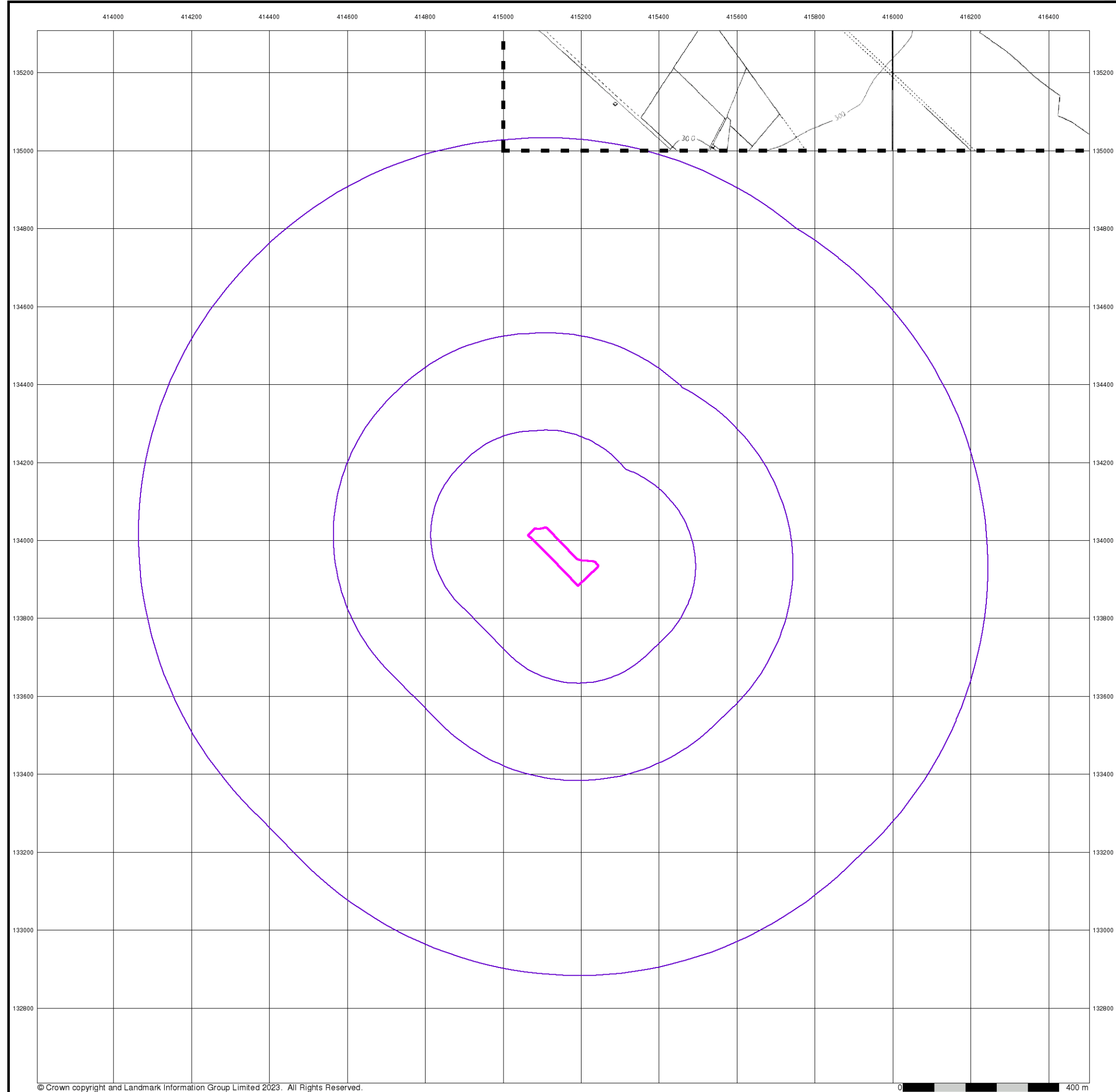
Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

## Site Details

Old Sarum, Salisbury, SP4 6PU

**Landmark**  
INFORMATION GROUP

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Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



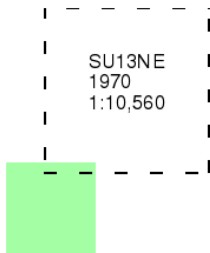
Ordnance Survey Plan

Published 1970

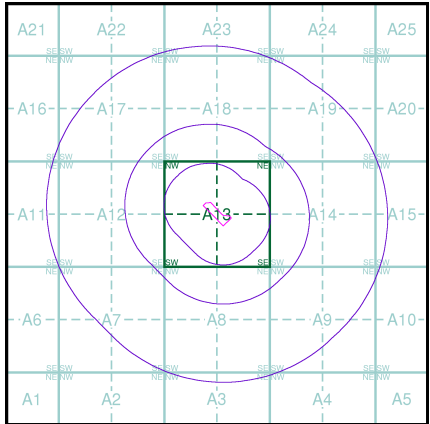
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

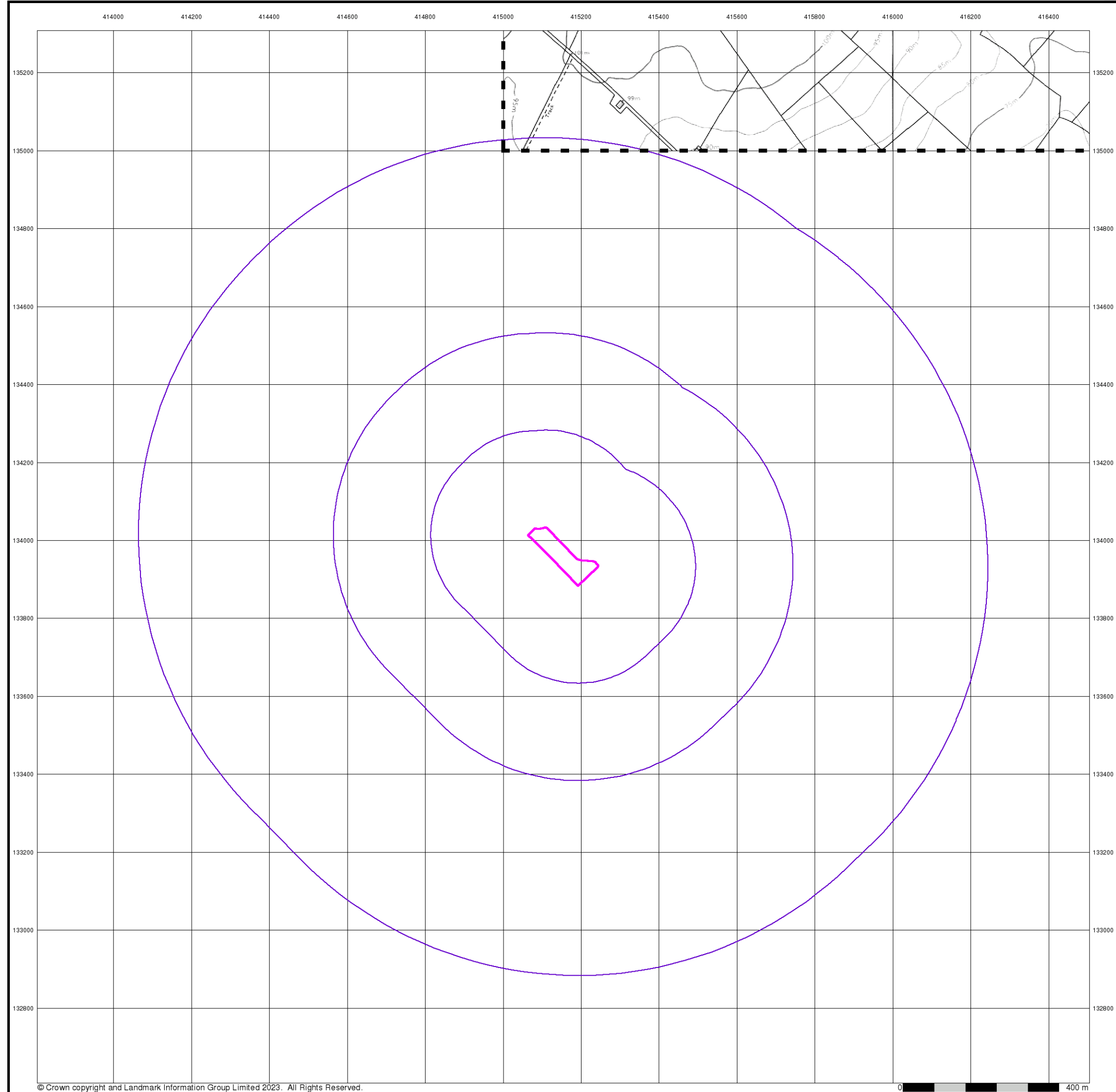
Site Details

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0 400 m



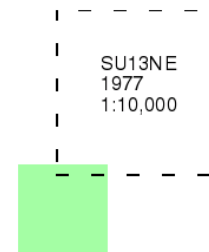
## Ordnance Survey Plan

Published 1977

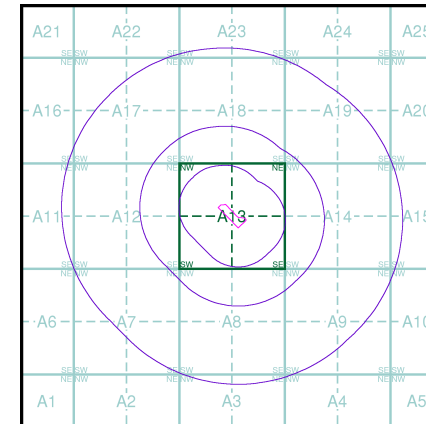
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

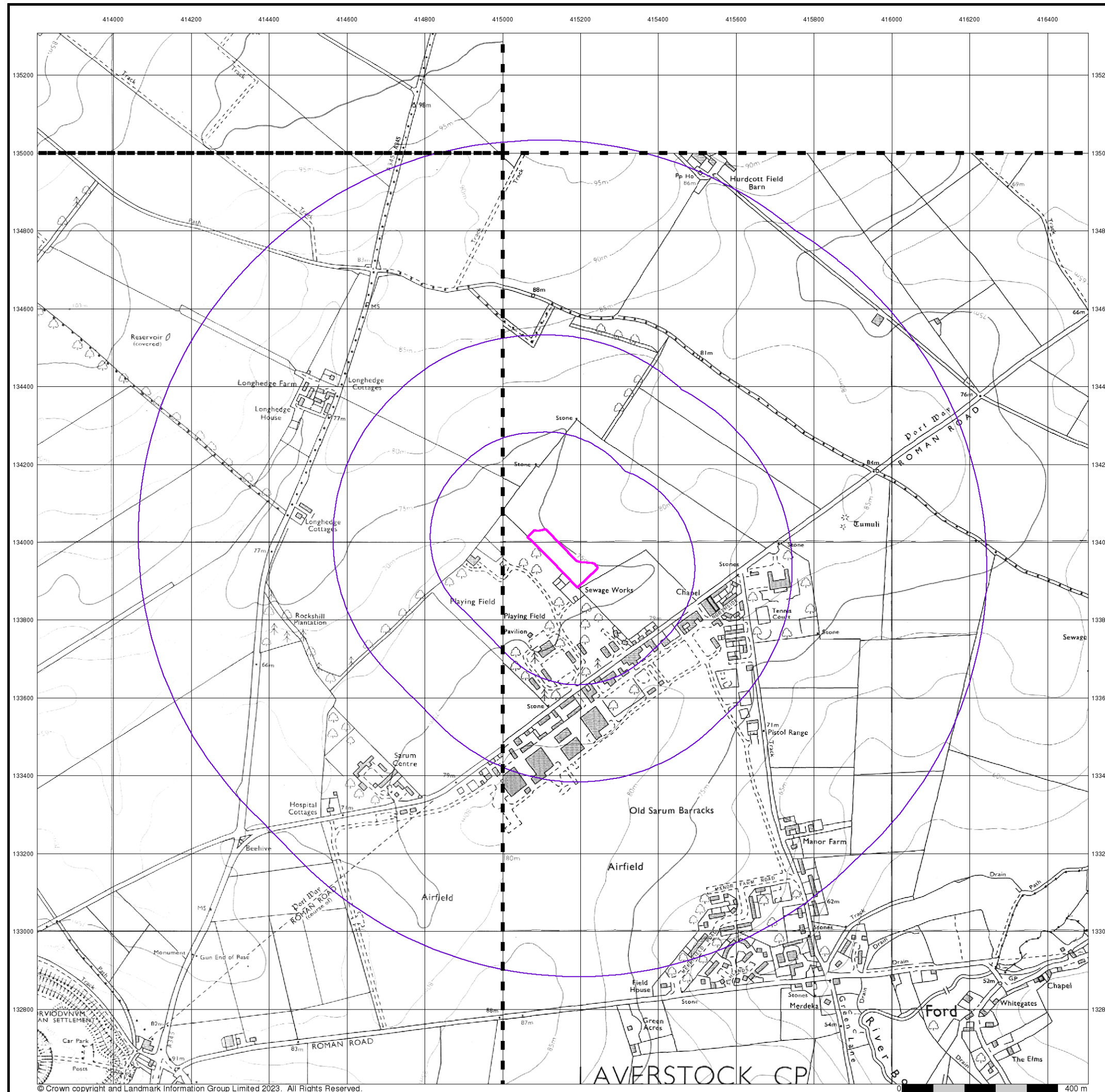
Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

### Site Details

Old Sarum, Salisbury, SP4 6PU

**Landmark**  
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Fax: 0844 844 9951  
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## Ordnance Survey Plan

Published 1981 - 1983

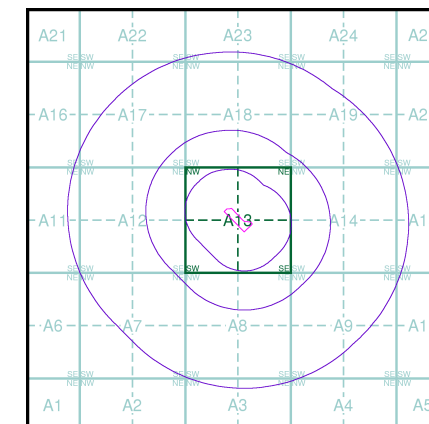
Source map scale - 1:10,000

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)

|        |      |          |
|--------|------|----------|
| SU13NW | 1983 | 1:10,000 |
| SU13SW | 1982 | 1:10,000 |
| SU13SE | 1981 | 1:10,000 |

## Historical Map - Slice A



## Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

## Site Details

Old Sarum, Salisbury, SP4 6PU

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## 10k Raster Mapping

Published 2000

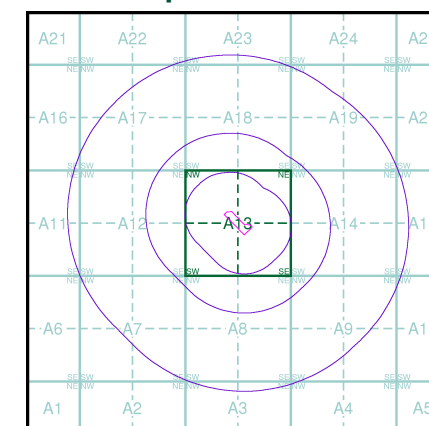
Source map scale - 1:10,000

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)

|          |          |
|----------|----------|
| SU13NW   | SU13NE   |
| 2000     | 2000     |
| 1:10,000 | 1:10,000 |
| SU13SW   | SU13SE   |
| 2000     | 2000     |
| 1:10,000 | 1:10,000 |

### Historical Map - Slice A



### Order Details

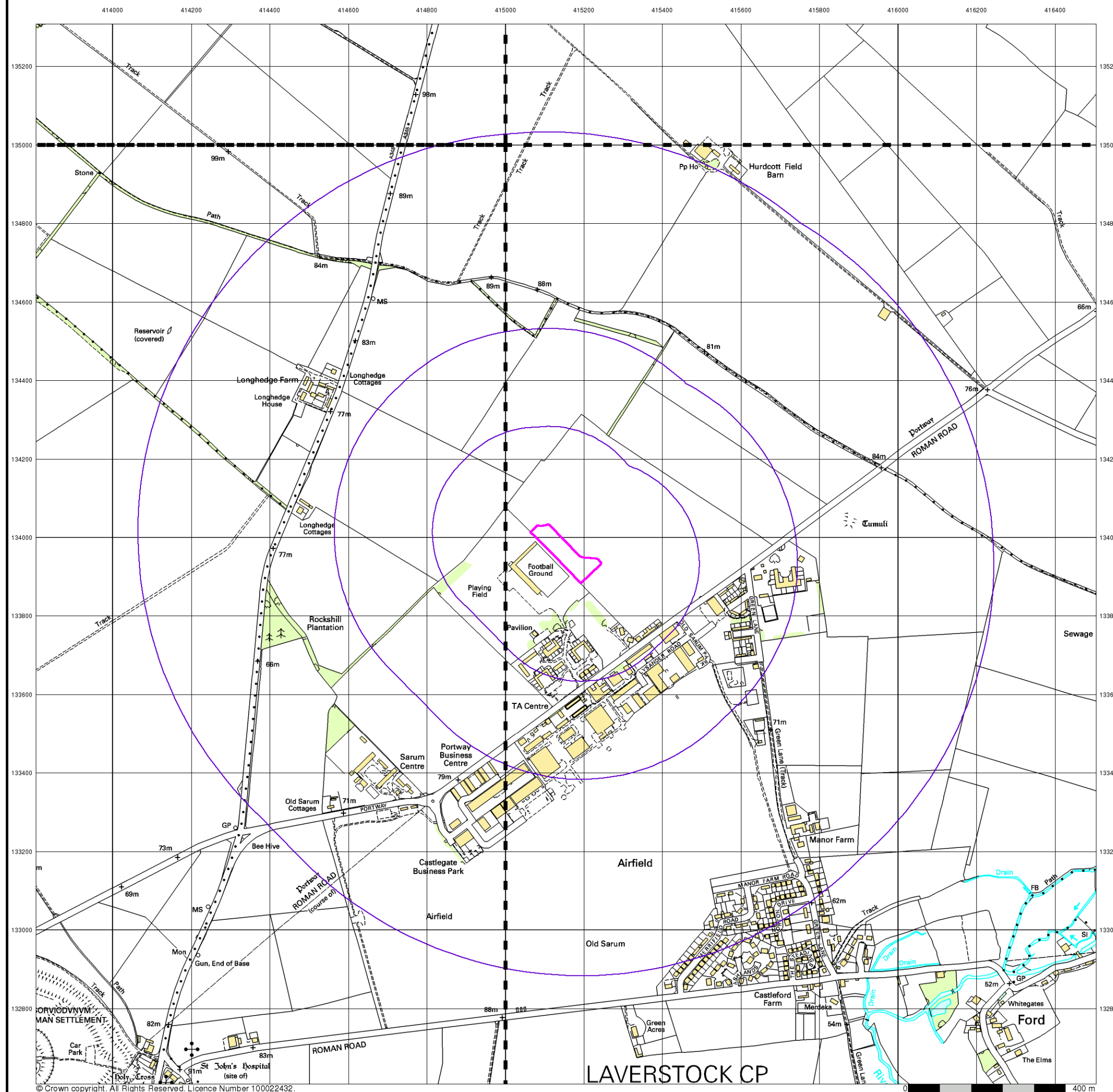
Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

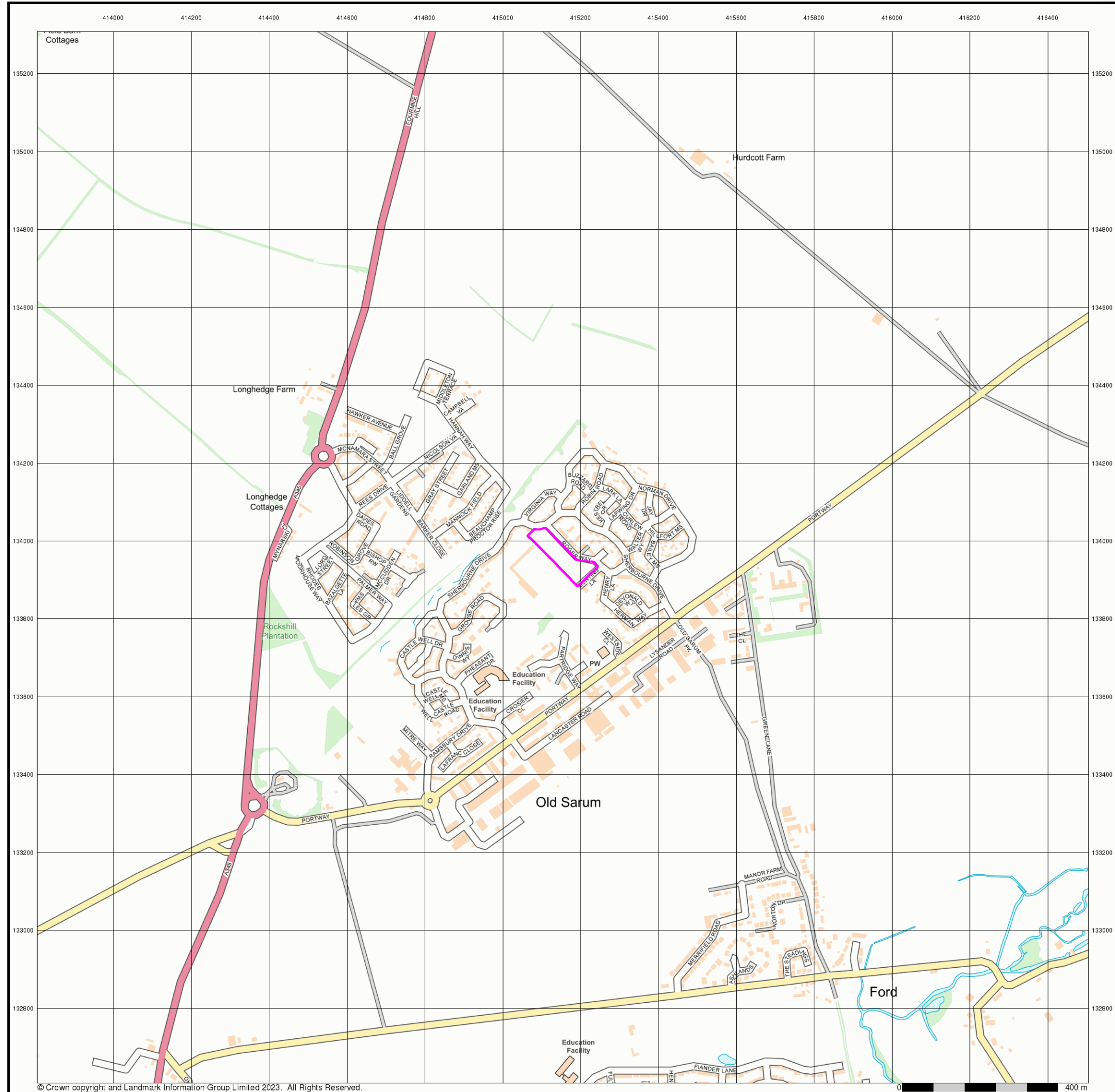
### Site Details

Old Sarum, Salisbury, SP4 6PU

**Landmark**  
INFORMATION GROUP

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Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





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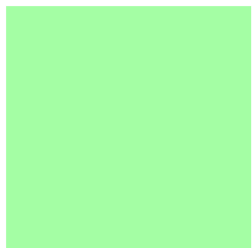
## Street View

Published 2023

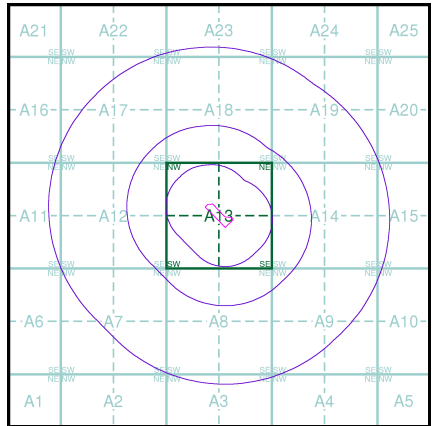
Source map scale - 1:10,000

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

## Map Name(s) and Date(s)



## Street View Map - Slice A



## Order Details

Order Number: 310397757\_1\_1  
Customer Ref: GEG-23-786  
National Grid Reference: 415150, 133960  
Slice: A  
Site Area (Ha): 0.91  
Search Buffer (m): 1000

## Site Details

Old Sarum, Salisbury, SP4 6PU

**Landmark**  
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## **APPENDIX F**

### **BGS RECORDS**





S. West h.s.



British  
Geological  
Survey

S West E.A.

## HYDROGEOLOGY RESEARCH GROUP

SU13SE/29

AN960077

298 SU13/77

Form WR-38 (BGS)

### BOREHOLE RECORD

SU13SE

|                                                                                           |                                             |
|-------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>A SITE DETAILS</b>                                                                     |                                             |
| Borehole drilled for<br><i>Construction</i>                                               | M.I. ABBOTT LTD, BLATCH LAND.               |
| Location                                                                                  | DINTON SALISBURY, WILTS. SP3 5EB.           |
| NGR (8 fig.)                                                                              | SU 150 339.                                 |
| Ground Level (if known)                                                                   | SALENT.<br>SALISBURY CITY FOOTBALL CLUB.    |
| Drilling Company                                                                          | K. WARMER WATER WELLS.                      |
| Date of Drilling                                                                          | Commenced JULY 1996. Completed 30 AUG 1996. |
| <b>B CONSTRUCTION DETAILS</b>                                                             |                                             |
| Borehole Datum (if not ground level)                                                      | above<br>m below GL                         |
| (point from which all measurements of depth are taken e.g. flange, edge of chamber, etc.) |                                             |
| Borehole drilled diameter                                                                 | 300 mm from 6L to 6 m/depth                 |
|                                                                                           | 150 mm from 6 to 60 m/depth                 |
|                                                                                           | mm from to m/depth                          |
| Casing material diameter<br>and type (e.g. if plain steel, plastic slotted)               | mm from to m/depth                          |
| Plain/Steel diameter                                                                      | 200 mm from - 0.60 to 6 m/depth             |
| diameter                                                                                  | mm from to m/depth                          |
| diameter                                                                                  | mm from to m/depth                          |
| Grouting details                                                                          | Filler down to 1 m bgl.                     |
| Water struck at                                                                           | 30 m (depth below datum — mbd)              |
|                                                                                           | m (depth below datum — mbd)                 |
| Rest water level on completion                                                            | 24 mbd                                      |
| <b>C TEST PUMPING SUMMARY</b> (Please supply full details on Forms WR-39)                 |                                             |
| Test Pumping Datum<br>(if different from borehole datum)                                  | m above<br>below borehole datum (mbd)       |
| Pump Suction depth                                                                        | mbd                                         |
| Water Level (Start of Test)                                                               | mbd                                         |
| Water Level (End of Test)                                                                 | mbd                                         |
| Pumping rate                                                                              | m <sup>3</sup> /d:l/s                       |
| for                                                                                       | days/hours                                  |
| Recovery to<br>(from end of pumping)                                                      | mbd in mins: hrs: days                      |
| Date(s) of measurements                                                                   |                                             |
| Please supply chemical Analysis if available.                                             |                                             |



| D STRATA LOG                                                          |                          |           |       |
|-----------------------------------------------------------------------|--------------------------|-----------|-------|
| Geological<br>Classification                                          | Description of strata    | Thickness | Depth |
| (BGS only)                                                            |                          | m         | m     |
| Uck<br>RB<br>10/10/97                                                 | SOFT CHALK & NUM FLINTS. | 60        | 60    |
| (continue on separate page if necessary)                              |                          |           |       |
| Other comments (e.g. gas encountered, saline water intercepted, etc.) |                          |           |       |

| FOR OFFICIAL USE ONLY |                       |                   |  |
|-----------------------|-----------------------|-------------------|--|
| FILE                  | CONSENT NO. ADNL 1688 | NGS REF NO.       |  |
| LIC NO.               | PURPOSE               | NRA REF NO.       |  |
| DATE REC:             | COPY TO:              | ENTERED BY: _____ |  |

RECEIVED

17 SEP 1996

FORM WR - 44



**ENVIRONMENT  
AGENCY**

SU13/77

## PUMPING TEST SUMMARY

Environment  
Agency Reference

13/43/21/G/M35

|                           |                                                                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location:                 | OLD SARUM, SALISBURY                                                                                                                                                                                                 |
| NGR:                      | SO 150 339                                                                                                                                                                                                           |
| New or existing borehole: | NEW                                                                                                                                                                                                                  |
| Aquifer:                  | CHALK                                                                                                                                                                                                                |
| Usage [existing/proposed] | PROPOSED IRRIGATION                                                                                                                                                                                                  |
| STEP TEST (yes/no)        | If yes, details of number of steps undertaken and maximum yield/drawdown during last step<br>4 x 100 MINUTES AT 1, 2, 3, 4 m <sup>3</sup> /hr<br>THEN 100 MINUTES AT 4.91 m <sup>3</sup> /hr<br>MAX DRAWDN. = 22.83m |

### CONSTANT RATE TEST:

|                               |                      |
|-------------------------------|----------------------|
| Rate (m <sup>3</sup> /d, l/s) | 4 m <sup>3</sup> /hr |
| Duration (days, minutes)      | 8 HOURS              |

### DATA HELD BY:

|                                        |                                                         |
|----------------------------------------|---------------------------------------------------------|
| SOUTH WESSEX AREA<br>SOUTH WEST REGION | Environment Agency Region<br>Telephone No: 01258 456080 |
|----------------------------------------|---------------------------------------------------------|

### OTHER RELEVANT INFORMATION

|  |
|--|
|  |
|--|





SU13/77

| D STRATA LOG                                                          |                       |                |            |
|-----------------------------------------------------------------------|-----------------------|----------------|------------|
| Geological<br>Classification<br>(BGS only)                            | Description of strata | Thickness<br>m | Depth<br>m |
|                                                                       | Soft Chalk and Flints | 60             | 60         |
| Other comments (e.g. gas encountered, saline water intercepted, etc.) |                       |                |            |

| FOR OFFICIAL USE ONLY |                        |                           |
|-----------------------|------------------------|---------------------------|
| FILE<br>LIC NO.       | CONSENT NO.<br>PURPOSE | NGS REF NO.<br>EA REF NO. |
| DATE REC:             | COPY TO:               | ENTERED BY:               |





S. West h.s.  
British  
Geological  
Survey  
S West E.A.

## HYDROGEOLOGY RESEARCH GROUP

NN960077.

298 SU13/77

Form WR-38 (BGS)

### BOREHOLE RECORD

SU13SE

|                                                                                           |                                               |
|-------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>A SITE DETAILS</b>                                                                     |                                               |
| Borehole drilled for<br><i>Construction</i>                                               | M.I. ABBOTT LTD, BLATCH LAND.                 |
| Location                                                                                  | DINTON SALISBURY, WILTS. SP3 5EB.             |
| NGR (8 fig.)                                                                              | SU 150 339.                                   |
| Ground Level (if known)                                                                   | Please attach site plan                       |
| Drilling Company                                                                          | SALISBURY CITY FOOTBALL CLUB.                 |
| Date of Drilling                                                                          | K. WARDLE WATER WELLS.                        |
|                                                                                           | Commenced JULY 1996. Completed 31st AUG 1996. |
| <b>B CONSTRUCTION DETAILS</b>                                                             |                                               |
| Borehole Datum (if not ground level)                                                      | above<br>m below GL                           |
| (point from which all measurements of depth are taken e.g. flange, edge of chamber, etc.) |                                               |
| Borehole drilled diameter                                                                 | 300 mm from GL to 6 m/depth                   |
|                                                                                           | 150 mm from 6 to 60 m/depth                   |
|                                                                                           | mm from to m/depth                            |
| Casing material diameter<br>and type (e.g. if plain steel, plastic slotted)               | mm from to m/depth                            |
| Plain/Steel diameter                                                                      | 200 mm from - 0.60 to 6 m/depth               |
| diameter                                                                                  | mm from to m/depth                            |
| diameter                                                                                  | mm from to m/depth                            |
| Grouting details                                                                          | From 60m to 1 m bgl.                          |
| Water struck at                                                                           | 30 m (depth below datum — mbd)                |
|                                                                                           | m (depth below datum — mbd)                   |
| Rest water level on completion                                                            | 24 mbd                                        |
| <b>C TEST PUMPING SUMMARY</b> (Please supply full details on Forms WR-39)                 |                                               |
| Test Pumping Datum<br>(if different from borehole datum)                                  | m above<br>below borehole datum (mbd)         |
| Pump Suction depth                                                                        | mbd                                           |
| Water Level (Start of Test)                                                               | mbd                                           |
| Water Level (End of Test)                                                                 | mbd                                           |
| Pumping rate                                                                              | m <sup>3</sup> /d:l/s                         |
| for                                                                                       | days/hours                                    |
| Recovery to<br>(from end of pumping)                                                      | mbd in mins: hrs: days                        |
| Date(s) of measurements                                                                   |                                               |
| Please supply chemical Analysis if available.                                             |                                               |



| D STRATA LOG                                                          |                          |           |       |
|-----------------------------------------------------------------------|--------------------------|-----------|-------|
| Geological Classification                                             | Description of strata    | Thickness | Depth |
| (BGS only)                                                            |                          | m         | m     |
| UCK<br>Rb.<br>10/10/97                                                | SOFT CHALK & NUM FLINTS. | 60        | 60    |
| (continue on separate page if necessary)                              |                          |           |       |
| Other comments (e.g. gas encountered, saline water intercepted, etc.) |                          |           |       |

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FILE

CONSENT NO. ADNL 1688 NGS REF NO.

LIC NO.

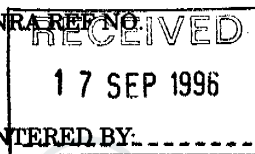
PURPOSE

NRA REF NO.

DATE REC:

COPY TO:

ENTERED BY:





Sheet 2

our ref: 13/43/21/9255



**M J ABBOTT LTD**  
Bratch Lane, Dinton, Salisbury, Wiltshire SP3 5EB.  
Tel: 01722 716361 Fax: 01722 716828

SU13/77

Form WR-38 (BGS)

## BOREHOLE RECORD

|                                                                                          |                                                                                                        |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>A SITE DETAILS</b>                                                                    |                                                                                                        |
| Borehole drilled for                                                                     | Salisbury Football Club, 38 Endless Street, Salisbury, Wiltshire.                                      |
| Location                                                                                 | Old Sarum                                                                                              |
| NGR (8 fig.)                                                                             | SU 150 339 <span style="float: right;">Please attach site plan</span>                                  |
| Ground Level (if known)                                                                  |                                                                                                        |
| Drilling Company                                                                         | M J Abbott Ltd, Bratch Lane, Dinton, Salisbury, Wiltshire.                                             |
| Date of Drilling                                                                         | Commenced July 1996 <span style="float: right;">Completed August 1996</span>                           |
| <b>B CONSTRUCTION DETAILS</b>                                                            |                                                                                                        |
| Borehole Datum (if not ground level)                                                     | above<br>m below GL <span style="float: right;">RECEIVED<br/>23 DEC 1996</span>                        |
| (point from which all measurements of depth are taken e.g. flange, edge of chamber etc.) |                                                                                                        |
| Borehole drilled diameter                                                                | 300 mm from GL to 6 m/depth<br>150 mm from 6 to 60 m/depth<br>mm from to m/depth<br>mm from to m/depth |
| Casing material and type (e.g. if plain steel, plastic slotted)                          | mm from to m/depth                                                                                     |
| Plain Steel diameter                                                                     | 200 mm from 0.60 to 6 m/depth<br>mm from to m/depth<br>mm from to m/depth                              |
| Grouting details                                                                         | From 6m to 1m BGL                                                                                      |
| Water struck at                                                                          | 30 m (depth below datum-mbd)<br>m (depth below datum-mbd)                                              |
| Rest water level on completion                                                           | 24 mbd                                                                                                 |
| <b>C TEST PUMPING SUMMARY (Please supply full details on Forms WR-39)</b>                |                                                                                                        |
| Test Pumping Datum (if different from borehole datum)                                    | m above<br>below borehole datum (mdb)                                                                  |
| Pump suction depth                                                                       | mbd                                                                                                    |
| Water Level (Start of Test)                                                              | mbd                                                                                                    |
| Water Level (End of Test)                                                                | mbd                                                                                                    |
| Pumping rate                                                                             | m <sup>3</sup> /d:l/s                                                                                  |
| for                                                                                      | days/hours                                                                                             |
| Recovery to (from end of pumping)                                                        | mbd in mins: hrs: days                                                                                 |
| Date(s) of measurements                                                                  |                                                                                                        |
| Please supply chemical Analysis if available.                                            |                                                                                                        |



| D STRATA LOG                                                          |                       |           |       |
|-----------------------------------------------------------------------|-----------------------|-----------|-------|
| Geological<br>Classification                                          | Description of strata | Thickness | Depth |
| (BGS only)                                                            |                       | m         | m     |
|                                                                       | Soft Chalk and Flints | 60        | 60    |
| Other comments (e.g. gas encountered, saline water intercepted, etc.) |                       |           |       |

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FILE  
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CONSENT NO.  
PURPOSE

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| CONSTANT AND STEP PUMPING TEST (1) |                              |                                                                                                              |
|------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|
| CONSENT NO.                        | AD NL 1688                   | Description of datum point from which measurements were made (e.g. ground level, flange):<br>Borehole flange |
| Pumping test at :                  | Salisbury City Football Club |                                                                                                              |
| NGR :                              | SU 150 339                   |                                                                                                              |
| Observations From :                | Production Borehole          |                                                                                                              |
| NGR :                              | As Above                     |                                                                                                              |

| Date     | Time  | Elapsed time with respect to start of pumping |       | Depth of water level below datum (metres) | Drawdown (metres) | Discharge rate (m <sup>3</sup> /hr) | Comments (e.g. duration of any rainfall, time when pump switched on or off) |
|----------|-------|-----------------------------------------------|-------|-------------------------------------------|-------------------|-------------------------------------|-----------------------------------------------------------------------------|
|          |       | Minutes                                       | Hours |                                           |                   |                                     |                                                                             |
| 11/11/96 | 9.25  | DAY                                           | (-3)  | 21.52                                     | -                 | -                                   | Pump stopped                                                                |
| 12/11/96 | 9.00  | DAY                                           | (-2)  | 21.52                                     | -                 | -                                   | Pump stopped                                                                |
| 13/11/96 | 9.30  | DAY                                           | (-1)  | 21.53                                     | -                 | -                                   | Pump stopped                                                                |
| 14/11/96 | 8.30  | 0                                             | 0     | 21.53                                     | -                 | -                                   | Pump stopped                                                                |
|          | 8.31  | 1                                             |       | 21.62                                     | 0.09              | 1.0                                 | Pump started                                                                |
|          | 8.32  | 2                                             |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.33  | 3                                             |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.34  | 4                                             |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.35  | 5                                             |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.36  | 6                                             |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.37  | 7                                             |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.38  | 8                                             |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.39  | 9                                             |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.40  | 10                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.42  | 12                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.44  | 14                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.46  | 16                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.48  | 18                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.50  | 20                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.52  | 22                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.54  | 24                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.56  | 26                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 8.58  | 28                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.00  | 30                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.05  | 35                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.10  | 40                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.15  | 45                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.20  | 50                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.25  | 55                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.30  | 60                                            | 1     | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.35  | 65                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.40  | 70                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.45  | 75                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.50  | 80                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 9.55  | 85                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 10.00 | 90                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 10.05 | 95                                            |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |

### CONSTANT AND STEP PUMPING TEST (2)

|                     |                              |                                                                                                              |
|---------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|
| CONSENT NO.         | AD NL 1688                   | Description of datum point from which measurements were made (e.g. ground level, flange):<br>Borehole flange |
| Pumping test at :   | Salisbury City Football Club |                                                                                                              |
| NGR :               | SU 150 339                   |                                                                                                              |
| Observations From : | Production Borehole          |                                                                                                              |
| NGR :               | As Above                     |                                                                                                              |

| Date     | Time  | Elapsed time with respect to start of pumping |       | Depth of water level below datum (metres) | Drawdown (metres) | Discharge rate (m <sup>3</sup> /hr) | Comments (e.g. duration of any rainfall, time when pump switched on or off) |
|----------|-------|-----------------------------------------------|-------|-------------------------------------------|-------------------|-------------------------------------|-----------------------------------------------------------------------------|
|          |       | Minutes                                       | Hours |                                           |                   |                                     |                                                                             |
| 14/11/96 | 10.10 | 100                                           |       | 21.63                                     | 0.10              | 1.0                                 |                                                                             |
|          | 10.11 | 101                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.12 | 102                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.13 | 103                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.14 | 104                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.15 | 105                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.16 | 106                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.17 | 107                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.18 | 108                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.19 | 109                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.20 | 110                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.22 | 112                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.24 | 114                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.26 | 116                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.28 | 118                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.30 | 120                                           | 2     | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.35 | 125                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.40 | 130                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.45 | 135                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.50 | 140                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 10.55 | 145                                           |       | 21.80                                     | 0.27              | 2.0                                 |                                                                             |
|          | 11.00 | 150                                           |       | 21.81                                     | 0.28              | 2.0                                 |                                                                             |
|          | 11.05 | 155                                           |       | 21.81                                     | 0.28              | 2.0                                 |                                                                             |
|          | 11.10 | 160                                           |       | 21.81                                     | 0.28              | 2.0                                 |                                                                             |
|          | 11.15 | 165                                           |       | 21.81                                     | 0.28              | 2.0                                 |                                                                             |
|          | 11.20 | 170                                           |       | 21.81                                     | 0.28              | 2.0                                 |                                                                             |
|          | 11.25 | 175                                           |       | 21.82                                     | 0.29              | 2.0                                 |                                                                             |
|          | 11.30 | 180                                           | 3     | 21.82                                     | 0.29              | 2.0                                 |                                                                             |
|          | 11.35 | 185                                           |       | 21.82                                     | 0.29              | 2.0                                 |                                                                             |
|          | 11.40 | 190                                           |       | 21.82                                     | 0.29              | 2.0                                 |                                                                             |
|          | 11.45 | 195                                           |       | 21.82                                     | 0.29              | 2.0                                 |                                                                             |
|          | 11.50 | 200                                           |       | 21.82                                     | 0.29              | 2.0                                 |                                                                             |
|          | 11.51 | 201                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |
|          | 11.52 | 202                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |
|          | 11.53 | 203                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |
|          | 11.54 | 204                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |
|          | 11.55 | 205                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |

SU13/77

## BOREHOLE RECOVERY TEST (2)

| BOREHOLE RECOVERY TEST (2) |                              |                                                                                                                  |
|----------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------|
| CONSENT NO.                | AD NL 1688                   | Description of datum point from which measurements were made (e.g. ground level, flange):<br><br>Borehole flange |
| Pumping test at :          | Salisbury City Football Club |                                                                                                                  |
| NGR :                      | SU 150 339                   |                                                                                                                  |
| Observations From :        | Production borehole          |                                                                                                                  |
| NGR :                      | As above                     |                                                                                                                  |

[illegible]

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| CONSTANT AND STEP PUMPING TEST (3) |                              |                                                                                                              |
|------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|
| CONSENT NO.                        | AD NL 1688                   | Description of datum point from which measurements were made (e.g. ground level, flange):<br>Borehole flange |
| Pumping test at :                  | Salisbury City Football Club |                                                                                                              |
| NGR :                              | SU 150 339                   |                                                                                                              |
| Observations From :                | Production Borehole          |                                                                                                              |
| NGR :                              | As Above                     |                                                                                                              |

| Date     | Time  | Elapsed time with respect to start of pumping |       | Depth of water level below datum (metres) | Drawdown (metres) | Discharge rate (m <sup>3</sup> /hr) | Comments (e.g. duration of any rainfall, time when pump switched on or off) |
|----------|-------|-----------------------------------------------|-------|-------------------------------------------|-------------------|-------------------------------------|-----------------------------------------------------------------------------|
|          |       | Minutes                                       | Hours |                                           |                   |                                     |                                                                             |
| 14/11/96 | 11.56 | 206                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |
|          | 11.57 | 207                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |
|          | 11.58 | 208                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |
|          | 11.59 | 209                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |
|          | 12.00 | 210                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |
|          | 12.02 | 212                                           |       | 22.02                                     | 0.49              | 3.0                                 |                                                                             |
|          | 12.04 | 214                                           |       | 22.03                                     | 0.50              | 3.0                                 |                                                                             |
|          | 12.06 | 216                                           |       | 22.03                                     | 0.50              | 3.0                                 |                                                                             |
|          | 12.08 | 218                                           |       | 22.03                                     | 0.50              | 3.0                                 |                                                                             |
|          | 12.10 | 220                                           |       | 22.03                                     | 0.50              | 3.0                                 |                                                                             |
|          | 12.12 | 222                                           |       | 22.03                                     | 0.50              | 3.0                                 |                                                                             |
|          | 12.14 | 224                                           |       | 22.04                                     | 0.51              | 3.0                                 |                                                                             |
|          | 12.16 | 226                                           |       | 22.04                                     | 0.51              | 3.0                                 |                                                                             |
|          | 12.18 | 228                                           |       | 22.04                                     | 0.51              | 3.0                                 |                                                                             |
|          | 12.20 | 230                                           |       | 22.04                                     | 0.51              | 3.0                                 |                                                                             |
|          | 12.25 | 235                                           |       | 22.04                                     | 0.51              | 3.0                                 |                                                                             |
|          | 12.30 | 240                                           | 4     | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 12.35 | 245                                           |       | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 12.40 | 250                                           |       | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 12.45 | 255                                           |       | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 12.50 | 260                                           |       | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 12.55 | 265                                           |       | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 13.00 | 270                                           |       | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 13.05 | 275                                           |       | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 13.10 | 280                                           |       | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 13.15 | 285                                           |       | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 13.20 | 290                                           |       | 22.05                                     | 0.52              | 3.0                                 |                                                                             |
|          | 13.25 | 295                                           |       | 22.06                                     | 0.53              | 3.0                                 |                                                                             |
|          | 13.30 | 300                                           | 5     | 22.06                                     | 0.53              | 3.0                                 |                                                                             |
|          | 13.31 | 301                                           |       | 22.40                                     | 0.87              | 4.0                                 |                                                                             |
|          | 13.32 | 302                                           |       | 22.41                                     | 0.88              | 4.0                                 |                                                                             |
|          | 13.33 | 303                                           |       | 22.42                                     | 0.89              | 4.0                                 |                                                                             |
|          | 13.34 | 304                                           |       | 22.42                                     | 0.89              | 4.0                                 |                                                                             |
|          | 13.35 | 305                                           |       | 22.43                                     | 0.90              | 4.0                                 |                                                                             |
|          | 13.36 | 306                                           |       | 22.43                                     | 0.90              | 4.0                                 |                                                                             |
|          | 13.37 | 307                                           |       | 22.43                                     | 0.90              | 4.0                                 |                                                                             |
|          | 13.38 | 308                                           |       | 22.44                                     | 0.90              | 4.0                                 |                                                                             |



### CONSTANT AND STEP PUMPING TEST (4)

|                     |                              |                                                                                                              |
|---------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|
| CONSENT NO.         | AD NL 1688                   | Description of datum point from which measurements were made (e.g. ground level, flange):<br>Borehole flange |
| Pumping test at :   | Salisbury City Football Club |                                                                                                              |
| NGR :               | SU 150 339                   |                                                                                                              |
| Observations From : | Production Borehole          |                                                                                                              |
| NGR :               | As Above                     |                                                                                                              |

| Date     | Time  | Elapsed time with respect to start of pumping |       | Depth of water level below datum (metres) | Drawdown (metres) | Discharge rate (m <sup>3</sup> /hr) | Comments (e.g. duration of any rainfall, time when pump switched on or off) |
|----------|-------|-----------------------------------------------|-------|-------------------------------------------|-------------------|-------------------------------------|-----------------------------------------------------------------------------|
|          |       | Minutes                                       | Hours |                                           |                   |                                     |                                                                             |
| 14/11/96 | 13.39 | 309                                           |       | 22.44                                     | 0.91              | 4.0                                 |                                                                             |
|          | 13.40 | 310                                           |       | 22.45                                     | 0.92              | 4.0                                 |                                                                             |
|          | 13.42 | 312                                           |       | 22.45                                     | 0.92              | 4.0                                 |                                                                             |
|          | 13.44 | 314                                           |       | 22.46                                     | 0.93              | 4.0                                 |                                                                             |
|          | 13.46 | 316                                           |       | 22.46                                     | 0.93              | 4.0                                 |                                                                             |
|          | 13.48 | 318                                           |       | 22.47                                     | 0.94              | 4.0                                 |                                                                             |
|          | 13.50 | 320                                           |       | 22.47                                     | 0.94              | 4.0                                 |                                                                             |
|          | 13.52 | 322                                           |       | 22.48                                     | 0.95              | 4.0                                 |                                                                             |
|          | 13.54 | 324                                           |       | 22.49                                     | 0.96              | 4.0                                 |                                                                             |
|          | 13.56 | 326                                           |       | 22.49                                     | 0.96              | 4.0                                 |                                                                             |
|          | 13.58 | 328                                           |       | 22.50                                     | 0.97              | 4.0                                 |                                                                             |
|          | 14.00 | 330                                           |       | 22.51                                     | 0.98              | 4.0                                 |                                                                             |
|          | 14.05 | 335                                           |       | 22.51                                     | 0.98              | 4.0                                 |                                                                             |
|          | 14.10 | 340                                           |       | 22.52                                     | 0.99              | 4.0                                 |                                                                             |
|          | 14.15 | 345                                           |       | 22.52                                     | 0.99              | 4.0                                 |                                                                             |
|          | 14.20 | 350                                           |       | 22.53                                     | 1.00              | 4.0                                 |                                                                             |
|          | 14.25 | 355                                           |       | 22.53                                     | 1.00              | 4.0                                 |                                                                             |
|          | 14.30 | 360                                           | 6     | 22.53                                     | 1.00              | 4.0                                 |                                                                             |
|          | 14.35 | 365                                           |       | 22.53                                     | 1.00              | 4.0                                 |                                                                             |
|          | 14.40 | 370                                           |       | 22.54                                     | 1.01              | 4.0                                 |                                                                             |
|          | 14.45 | 375                                           |       | 22.54                                     | 1.01              | 4.0                                 |                                                                             |
|          | 14.50 | 380                                           |       | 22.55                                     | 1.02              | 4.0                                 |                                                                             |
|          | 14.55 | 385                                           |       | 22.55                                     | 1.02              | 4.0                                 |                                                                             |
|          | 15.00 | 390                                           |       | 22.56                                     | 1.03              | 4.0                                 |                                                                             |
|          | 15.05 | 395                                           |       | 22.56                                     | 1.03              | 4.0                                 |                                                                             |
|          | 15.10 | 400                                           |       | 22.56                                     | 1.03              | 4.0                                 |                                                                             |
|          | 15.11 | 401                                           |       | 22.63                                     | 1.10              | 4.91                                | Pump full rate                                                              |
|          | 15.12 | 402                                           |       | 22.64                                     | 1.14              | 4.91                                |                                                                             |
|          | 15.13 | 403                                           |       | 22.70                                     | 1.17              | 4.91                                |                                                                             |
|          | 15.14 | 404                                           |       | 22.73                                     | 1.20              | 4.91                                |                                                                             |
|          | 15.15 | 405                                           |       | 22.75                                     | 1.22              | 4.91                                |                                                                             |
|          | 15.16 | 406                                           |       | 22.75                                     | 1.22              | 4.91                                |                                                                             |
|          | 15.17 | 407                                           |       | 22.75                                     | 1.22              | 4.91                                |                                                                             |
|          | 15.18 | 408                                           |       | 22.76                                     | 1.23              | 4.91                                |                                                                             |
|          | 15.19 | 409                                           |       | 22.76                                     | 1.23              | 4.91                                |                                                                             |
|          | 15.20 | 410                                           |       | 22.77                                     | 1.24              | 4.91                                |                                                                             |
|          | 15.22 | 412                                           |       | 22.77                                     | 1.24              | 4.91                                |                                                                             |

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| CONSTANT AND STEP PUMPING TEST (5) |                              |                                                                                                              |
|------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|
| CONSENT NO.                        | AD NL 1688                   | Description of datum point from which measurements were made (e.g. ground level, flange):<br>Borehole flange |
| Pumping test at :                  | Salisbury City Football Club |                                                                                                              |
| NGR :                              | SU 150 339                   |                                                                                                              |
| Observations From :                | Production Borehole          |                                                                                                              |
| NGR :                              | As Above                     |                                                                                                              |

| Date     | Time  | Elapsed time with respect to start of pumping |       | Depth of water level below datum (metres) | Drawdown (metres) | Discharge rate (m <sup>3</sup> /hr) | Comments (e.g. duration of any rainfall, time when pump switched on or off) |
|----------|-------|-----------------------------------------------|-------|-------------------------------------------|-------------------|-------------------------------------|-----------------------------------------------------------------------------|
|          |       | Minutes                                       | Hours |                                           |                   |                                     |                                                                             |
| 14/11/96 | 15.24 | 414                                           |       | 22.78                                     | 1.25              | 4.91                                |                                                                             |
|          | 15.26 | 416                                           |       | 22.78                                     | 1.25              | 4.91                                |                                                                             |
|          | 15.28 | 418                                           |       | 22.78                                     | 1.25              | 4.91                                |                                                                             |
|          | 15.30 | 420                                           | 7     | 22.79                                     | 1.26              | 4.91                                |                                                                             |
|          | 15.32 | 422                                           |       | 22.79                                     | 1.26              | 4.91                                |                                                                             |
|          | 15.34 | 424                                           |       | 22.80                                     | 1.27              | 4.91                                |                                                                             |
|          | 15.36 | 426                                           |       | 22.80                                     | 1.27              | 4.91                                |                                                                             |
|          | 15.38 | 428                                           |       | 22.81                                     | 1.28              | 4.91                                |                                                                             |
|          | 15.40 | 430                                           |       | 22.82                                     | 1.29              | 4.91                                |                                                                             |
|          | 15.45 | 435                                           |       | 22.82                                     | 1.29              | 4.91                                |                                                                             |
|          | 15.50 | 440                                           |       | 22.82                                     | 1.29              | 4.91                                |                                                                             |
|          | 15.55 | 445                                           |       | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.00 | 450                                           |       | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.05 | 455                                           |       | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.10 | 460                                           |       | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.15 | 465                                           |       | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.20 | 470                                           |       | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.25 | 475                                           |       | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.30 | 480                                           | 8     | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.35 | 485                                           |       | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.40 | 490                                           |       | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.45 | 495                                           |       | 22.83                                     | 1.30              | 4.91                                |                                                                             |
|          | 16.50 | 500                                           |       | 22.83                                     | 1.30              | 4.91                                | Pump stopped                                                                |
| 15/11/96 | 8.00  | 0                                             | 0     | 21.53                                     | -                 | -                                   | Pump stopped                                                                |
|          |       | 10 sec                                        |       | 21.80                                     | 0.27              | 4.0                                 | Pump started                                                                |
|          |       | 20 sec                                        |       | 21.80                                     | 0.27              | 4.0                                 |                                                                             |
|          |       | 30 sec                                        |       | 21.90                                     | 0.37              | 4.0                                 |                                                                             |
|          |       | 40 sec                                        |       | 21.90                                     | 0.37              | 4.0                                 |                                                                             |
|          |       | 50 sec                                        |       | 22.00                                     | 0.47              | 4.0                                 |                                                                             |
|          | 8.01  | 1                                             |       | 22.00                                     | 0.47              | 4.0                                 |                                                                             |
|          |       | 70 sec                                        |       | 22.00                                     | 0.47              | 4.0                                 |                                                                             |
|          |       | 80 sec                                        |       | 22.01                                     | 0.48              | 4.0                                 |                                                                             |
|          |       | 90 sec                                        |       | 22.01                                     | 0.48              | 4.0                                 |                                                                             |
|          |       | 100 sec                                       |       | 22.02                                     | 0.49              | 4.0                                 |                                                                             |
|          |       | 110 sec                                       |       | 22.02                                     | 0.49              | 4.0                                 |                                                                             |
|          | 8.02  | 2                                             |       | 22.03                                     | 0.50              | 4.0                                 |                                                                             |

### CONSTANT AND STEP PUMPING TEST (6)

|                     |                              |                                                                                                              |
|---------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|
| CONSENT NO.         | AD NL 1688                   | Description of datum point from which measurements were made (e.g. ground level, flange):<br>Borehole flange |
| Pumping test at :   | Salisbury City Football Club |                                                                                                              |
| NGR :               | SU 150 339                   |                                                                                                              |
| Observations From : | Production Borehole          |                                                                                                              |
| NGR :               | As Above                     |                                                                                                              |

| Date | Time | Elapsed time with respect to start of pumping |       | Depth of water level below datum (metres) | Drawdown (metres) | Discharge rate (m <sup>3</sup> /hr) | Comments (e.g. duration of any rainfall, time when pump switched on or off) |
|------|------|-----------------------------------------------|-------|-------------------------------------------|-------------------|-------------------------------------|-----------------------------------------------------------------------------|
|      |      | Minutes                                       | Hours |                                           |                   |                                     |                                                                             |
|      |      | 30 sec                                        |       | 22.03                                     | 0.50              | 4.0                                 |                                                                             |
|      | 8.03 | 3                                             |       | 22.04                                     | 0.51              | 4.0                                 |                                                                             |
|      |      | 30 sec                                        |       | 22.04                                     | 0.51              | 4.0                                 |                                                                             |
|      | 8.04 | 4                                             |       | 22.05                                     | 0.52              | 4.0                                 |                                                                             |
|      |      | 30 sec                                        |       | 22.05                                     | 0.52              | 4.0                                 |                                                                             |
|      | 8.05 | 5                                             |       | 22.06                                     | 0.53              | 4.0                                 |                                                                             |
|      |      | 30 sec                                        |       | 22.06                                     | 0.53              | 4.0                                 |                                                                             |
|      | 8.06 | 6                                             |       | 22.07                                     | 0.54              | 4.0                                 |                                                                             |
|      | 8.07 | 7                                             |       | 22.07                                     | 0.54              | 4.0                                 |                                                                             |
|      | 8.08 | 8                                             |       | 22.08                                     | 0.55              | 4.0                                 |                                                                             |
|      | 8.09 | 9                                             |       | 22.08                                     | 0.55              | 4.0                                 |                                                                             |
|      | 8.10 | 10                                            |       | 22.09                                     | 0.56              | 4.0                                 |                                                                             |
|      | 8.11 | 11                                            |       | 22.09                                     | 0.56              | 4.0                                 |                                                                             |
|      | 8.12 | 12                                            |       | 22.09                                     | 0.56              | 4.0                                 |                                                                             |
|      | 8.14 | 14                                            |       | 22.09                                     | 0.56              | 4.0                                 |                                                                             |
|      | 8.16 | 16                                            |       | 22.10                                     | 0.57              | 4.0                                 |                                                                             |
|      | 8.18 | 18                                            |       | 22.10                                     | 0.57              | 4.0                                 |                                                                             |
|      | 8.20 | 20                                            |       | 22.10                                     | 0.57              | 4.0                                 |                                                                             |
|      | 8.22 | 22                                            |       | 22.11                                     | 0.58              | 4.0                                 |                                                                             |
|      | 8.24 | 24                                            |       | 22.11                                     | 0.58              | 4.0                                 |                                                                             |
|      | 8.26 | 26                                            |       | 22.12                                     | 0.59              | 4.0                                 |                                                                             |
|      | 8.28 | 28                                            |       | 22.12                                     | 0.59              | 4.0                                 |                                                                             |
|      | 8.30 | 30                                            |       | 22.13                                     | 0.60              | 4.0                                 |                                                                             |
|      | 8.35 | 35                                            |       | 22.13                                     | 0.60              | 4.0                                 |                                                                             |
|      | 8.40 | 40                                            |       | 22.13                                     | 0.60              | 4.0                                 |                                                                             |
|      | 8.45 | 45                                            |       | 22.13                                     | 0.60              | 4.0                                 |                                                                             |
|      | 8.50 | 50                                            |       | 22.13                                     | 0.60              | 4.0                                 |                                                                             |
|      | 8.55 | 55                                            |       | 22.13                                     | 0.60              | 4.0                                 |                                                                             |
|      | 9.00 | 60                                            | 1     | 22.14                                     | 0.61              | 4.0                                 |                                                                             |
|      | 9.05 | 65                                            |       | 22.14                                     | 0.61              | 4.0                                 |                                                                             |
|      | 9.10 | 70                                            |       | 22.14                                     | 0.61              | 4.0                                 |                                                                             |
|      | 9.15 | 75                                            |       | 22.15                                     | 0.62              | 4.0                                 |                                                                             |
|      | 9.20 | 80                                            |       | 22.15                                     | 0.62              | 4.0                                 |                                                                             |
|      | 9.25 | 85                                            |       | 22.15                                     | 0.62              | 4.0                                 |                                                                             |
|      | 9.30 | 90                                            |       | 22.16                                     | 0.63              | 4.0                                 |                                                                             |
|      | 9.35 | 95                                            |       | 22.17                                     | 0.64              | 4.0                                 |                                                                             |
|      | 9.40 | 100                                           |       | 22.18                                     | 0.65              | 4.0                                 |                                                                             |

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## CONSTANT AND STEP PUMPING TEST (7)

| CONSTANT AND STEP PUMPING TEST (7) |                              |                                                                                                                  |
|------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------|
| CONSENT NO.                        | AD NL 1688                   | Description of datum point from which measurements were made (e.g. ground level, flange):<br><br>Borehole flange |
| Pumping test at :                  | Salisbury City Football Club |                                                                                                                  |
| NGR :                              | SU 150 339                   |                                                                                                                  |
| Observations From :                | Production Borehole          |                                                                                                                  |
| NGR :                              | As Above                     |                                                                                                                  |

[illegible]



### BOREHOLE RECOVERY TEST (1)

|                     |                              |                                                                                                              |
|---------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|
| CONSENT NO.         | AD NL 1688                   | Description of datum point from which measurements were made (e.g. ground level, flange):<br>Borehole flange |
| Pumping test at :   | Salisbury City Football Club |                                                                                                              |
| NGR :               | SU 150 339                   |                                                                                                              |
| Observations From : | Production Borehole          |                                                                                                              |
| NGR :               | As Above                     |                                                                                                              |

| Date     | Time  | Elapsed time with respect to start of recovery |       | Depth of water level below datum (metres) | Drawdown (metres) | Discharge rate (m <sup>3</sup> /hr) | Comments (e.g. duration of any rainfall, time when pump switched on or off) |
|----------|-------|------------------------------------------------|-------|-------------------------------------------|-------------------|-------------------------------------|-----------------------------------------------------------------------------|
|          |       | Minutes                                        | Hours |                                           |                   |                                     |                                                                             |
| 15/11/96 | 16.00 | 0                                              | 0     | 22.24                                     | 0.71              | -                                   | Pump stopped                                                                |
|          |       | 10 sec                                         |       | -                                         | -                 | -                                   |                                                                             |
|          |       | 20 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          |       | 30 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          |       | 40 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          |       | 50 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.01 | 1                                              | -     | 21.90                                     | 0.37              | -                                   |                                                                             |
|          |       | 70 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          |       | 80 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          |       | 90 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          |       | 100 sec                                        | -     | -                                         | -                 | -                                   |                                                                             |
|          |       | 110 sec                                        | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.02 | 2                                              | -     | 21.75                                     | 0.22              | -                                   |                                                                             |
|          |       | 30 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.03 | 3                                              | -     | 21.70                                     | 0.17              | -                                   |                                                                             |
|          |       | 30 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.04 | 4                                              | -     | -                                         | -                 | -                                   |                                                                             |
|          |       | 30 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.05 | 5                                              | -     | 21.64                                     | 0.11              | -                                   |                                                                             |
|          |       | 30 sec                                         | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.06 | 6                                              | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.07 | 7                                              | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.08 | 8                                              | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.09 | 9                                              | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.10 | 10                                             | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.11 | 11                                             | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.12 | 12                                             | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.14 | 14                                             | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.16 | 16                                             | -     | 21.60                                     | 0.07              | -                                   |                                                                             |
|          | 16.18 | 18                                             | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.20 | 20                                             | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.22 | 22                                             | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.24 | 24                                             | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.26 | 26                                             | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.28 | 28                                             | -     | -                                         | -                 | -                                   |                                                                             |
|          | 16.30 | 30                                             | -     | 21.55                                     | 0.02              | -                                   |                                                                             |
|          |       |                                                |       |                                           |                   |                                     |                                                                             |



## **APPENDIX G**

### **EXPLORATORY HOLE LOGS**

## EXPLORATORY HOLE LOG RECORDS:

### Symbols & Abbreviations Legend



#### Sampling

|            |                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------|
| <b>B</b>   | Bulk disturbed sample.                                                                             |
| <b>BLK</b> | Block sample.                                                                                      |
| <b>C</b>   | Core run.                                                                                          |
| <b>CR</b>  | Core cutter sample.                                                                                |
| <b>CS</b>  | Core sample taken from rotary core.                                                                |
| <b>D</b>   | Small disturbed sample.                                                                            |
| <b>ES</b>  | Composite environmental soil sample.                                                               |
| <b>EW</b>  | Environmental water sample.                                                                        |
| <b>L</b>   | Continuous percussive sample (plastic liner).                                                      |
| <b>LB</b>  | Large disturbed sample.                                                                            |
| <b>U</b>   | Undisturbed driven tube sample (100 mm diameter, 450 mm long). No. of blows indicated in brackets. |
| <b>W</b>   | Water sample.                                                                                      |

#### In-situ Testing

|               |                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>HVP</b>    | Hand Vane Measurement. Value given as shear strength $S_u$ (in kPa).                                                       |
| <b>PP</b>     | Pocket Penetrometer (Unconfined Compressive Strength measured in kPa).                                                     |
| <b>SPT</b>    | Standard Penetration Test using a split spoon sampler.                                                                     |
| <b>SPTC</b>   | Standard Penetration Test using a solid 60 degree cone.                                                                    |
| <b>N</b>      | The 'N' value is the No. of blows required to complete a test drive of 300 mm after a seating drive of 150 mm or 25 blows. |
| <b>N = 50</b> | Where the full test drive is not completed. A linearly extrapolated 'N' value can be derived.                              |
| <b>PID</b>    | Photo Ionisation Detector reading in ppm.                                                                                  |

#### Drilling Records

|            |                                                      |
|------------|------------------------------------------------------|
| <b>W</b>   | Water flush returns.                                 |
| <b>TCR</b> | Total Core Recovery (%).                             |
| <b>SCR</b> | Solid Core Recovery (%).                             |
| <b>RQD</b> | Rock Quality Designation (% of intact core >100 mm). |
| <b>FI</b>  | Fracture Index (Fractures/m).                        |
| <b>NI</b>  | Non-intact core.                                     |
| <b>NR</b>  | No core recovery.                                    |

#### Water Column Symbols

|  |                            |
|--|----------------------------|
|  | Initial groundwater strike |
|  | Standing groundwater Level |

#### Strata - Soil Legends

|  |                    |
|--|--------------------|
|  | MADE GROUND        |
|  | COBBLES & BOULDERS |
|  | GRAVEL             |
|  | SAND               |
|  | SILT               |
|  | CLAY               |
|  | PEAT               |

#### Strata - Rock Legends

|  |           |
|--|-----------|
|  | CHALK     |
|  | LIMESTONE |
|  | SANDSTONE |
|  | COAL      |
|  | MUDSTONE  |
|  | SILTSTONE |

|  |                              |
|--|------------------------------|
|  | METAMORPHIC (Fine-grained)   |
|  | METAMORPHIC (Medium-grained) |
|  | METAMORPHIC (Coarse-grained) |

|  |                          |
|--|--------------------------|
|  | IGNEOUS (Fine-grained)   |
|  | IGNEOUS (Medium-grained) |
|  | IGNEOUS (Coarse-grained) |

#### Instrumentation & Backfilling

|  |                                  |
|--|----------------------------------|
|  | Plain standpipe.                 |
|  | Slotted standpipe.               |
|  | Piezometer.                      |
|  | Granular filter (response zone). |
|  | Bentonite seal.                  |
|  | Backfill (arising).              |
|  | Backfill (cement grout).         |
|  | Concrete.                        |

#### NOTES:

- [1] The logging of soils and rocks has been carried out in general accordance with BS 5930:2015.
- [2] All lengths used to determine rock core mechanical properties taken along the centre line of the core. Obvious induced fractures have been ignored.
- [3] All logs are available in the AGS format.



Geo Environmental Group

# Trial Pit Log

TrialPit No

IT01

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415080.00 - 134010.00  
Level: 73.90

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 1.70

Depth  
2.00

0.70

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                              |                                        |
|--------------|---------------------------|------|---------|--------------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|              | Depth                     | Type | Results |              |           |        |                                                                                                                                                                                                                                                                                  |                                        |
|              | 0.40                      | ES   |         | 0.00<br>0.20 | 73.70     |        | MADE GROUND - Soft brown slightly sandy slightly gravelly CLAY. Gravel is sub angular tabular fine to coarse of rare chalk.<br>[REWORKED TOPSOIL]<br>MADE GROUND - Firm brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse subangular brick, concrete and chalk. | 0.5                                    |
|              |                           |      |         | 1.00         | 72.90     |        | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream. Matrix is white locally mottled light orangish brown. No discernible fractures.<br>[SEAFORD CHALK FORMATION - GRADE Dc]              | 1.0<br>1.5                             |
|              |                           |      |         | 2.00         | 71.90     |        | End of Pit at 2.000m                                                                                                                                                                                                                                                             | 2.0<br>2.5<br>3.0<br>3.5<br>4.0<br>4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Infiltration Testing undertaken in pit 4. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

IT02

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415110.10 - 134004.02  
Level: 74.50

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.10

Depth  
1.90

0.70



Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                            |                                        |
|--------------|---------------------------|------|---------|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|              | Depth                     | Type | Results |              |           |        |                                                                                                                                                                                                                                                                                                                                |                                        |
|              |                           |      |         | 0.00<br>0.10 | 74.40     |        | MADE GROUND - Soft brown slightly sandy slightly gravelly CLAY. Gravel is sub angular tabular fine to coarse of rare chalk.<br>[REWORKED TOPSOIL]<br>MADE GROUND - Firm brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse subangular brick, concrete and chalk.                                               | 0.5                                    |
|              |                           |      |         | 0.90         | 73.60     |        | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets.<br>[SEAFORD CHALK FORMATION - GRADE Dc] | 1.0<br>1.5                             |
|              |                           |      |         | 1.90         | 72.60     |        | End of Pit at 1.900m                                                                                                                                                                                                                                                                                                           | 2.0<br>2.5<br>3.0<br>3.5<br>4.0<br>4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Infiltration Testing undertaken in pit 4. Equipment: JCB 3CX.

Stability: Stable.







Geo Environmental Group

# Trial Pit Log

TrialPit No

IT03

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415152.22 - 133966.04  
Level: 73.60

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

Scale  
1:25

Client: Persimmon Wessex

Depth  
1.60

0.70

Logged  
AT

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                    |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                                                                                                                                                                                                                                                        |     |
|              |                           |      |         | 0.00      |           |        | Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular chalk.                                                                                                                                                                                                     |     |
|              |                           |      |         | 0.20      | 73.40     |        | [TOPSOIL]<br>Structureless CHALK composed of white locally mottled light brown clayey gravelly SILT. Gravel is very weak low density white subangular.                                                                                                                                 | 0.5 |
|              |                           |      |         | 0.70      | 72.90     |        | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets. | 1.0 |
|              |                           |      |         | 1.60      | 72.00     |        | [SEAFORD CHALK FORMATION - GRADE Dm]                                                                                                                                                                                                                                                   | 1.5 |
|              |                           |      |         |           |           |        | [SEAFORD CHALK FORMATION - GRADE Dc]                                                                                                                                                                                                                                                   | 2.0 |
|              |                           |      |         |           |           |        | End of Pit at 1.600m                                                                                                                                                                                                                                                                   | 2.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 3.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 3.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 4.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Infiltration Testing undertaken in pit 4. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

**IT04**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415137.89 - 133955.64  
Level: 73.00

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 1.60

Depth  
1.80

0.70

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                    |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                                                                                                                                                                                                                                                        |     |
|              |                           |      |         | 0.00      |           |        | Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular chalk.                                                                                                                                                                                                     |     |
|              |                           |      |         | 0.20      | 72.80     |        | [TOPSOIL]                                                                                                                                                                                                                                                                              |     |
|              |                           |      |         |           |           |        | Structureless CHALK composed of white locally mottled light brown clayey gravelly SILT. Gravel is very weak low density white subangular.                                                                                                                                              | 0.5 |
|              |                           |      |         | 0.60      | 72.40     |        | [SEAFORD CHALK FORMATION - GRADE Dm]                                                                                                                                                                                                                                                   |     |
|              |                           |      |         |           |           |        | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets. | 1.0 |
|              |                           |      |         |           |           |        | [SEAFORD CHALK FORMATION - GRADE Dc]                                                                                                                                                                                                                                                   | 1.5 |
|              |                           |      |         | 1.80      | 71.20     |        | End of Pit at 1.800m                                                                                                                                                                                                                                                                   | 2.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 2.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 3.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 3.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 4.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Infiltration Testing undertaken in pit 4. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

IT05

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415175.23 - 133913.24  
Level: 72.80

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 1.90

Depth  
1.70

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                             |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                                                                                                                                                                                                                                                 |     |
|              |                           |      |         | 0.00      |           |        | MADE GROUND - Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular chalk and brick with occasional whole bricks.                                                                                                                               |     |
|              |                           |      |         | 0.60      | 72.20     |        | Firm light brown slightly gravelly CLAY. Gravel is fine to coarse subangular flint and chalk. [HEAD DEPOSITS]                                                                                                                                                                   | 0.5 |
|              |                           |      |         | 1.50      | 71.30     |        |                                                                                                                                                                                                                                                                                 | 1.0 |
|              |                           |      |         | 1.70      | 71.10     |        | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density with rare black specks. Matrix is white locally light brown. No discernible fracture sets. [SEAFORD CHALK FORMATION - GRADE Dc]<br>End of Pit at 1.700m | 1.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                 | 2.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                 | 2.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                 | 3.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                 | 3.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                 | 4.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                 | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Infiltration Testing undertaken in pit 4. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

**IT06**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415215.71 - 133924.07  
Level: 73.45

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 1.80

Depth  
1.60

0.60



Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                  |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                                                                                                                                                                                                                                                      |     |
|              |                           |      |         | 0.00      |           |        | MADE GROUND - Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular chalk and brick.<br>[REWORKED TOPSOIL]                                                                                                                                           |     |
|              |                           |      |         | 0.40      | 73.05     |        | Firm light brown slightly gravelly CLAY. Gravel is fine to coarse subangular flint and chalk.<br>[HEAD DEPOSITS]                                                                                                                                                                     | 0.5 |
|              |                           |      |         | 0.80      | 72.65     |        | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density with rare black specks. Occasional flint nodules. Matrix is white locally light brown. No discernible fracture sets.<br>[SEAFORD CHALK FORMATION - GRADE Dc] | 1.0 |
|              |                           |      |         | 1.60      | 71.85     |        | End of Pit at 1.600m                                                                                                                                                                                                                                                                 | 1.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                      | 2.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                      | 2.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                      | 3.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                      | 3.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                      | 4.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                      | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Infiltration Testing undertaken in pit 4. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

**SP01**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415103.82 - 133995.43  
Level: 75.00

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 0.30

Scale  
1:25

Client: Persimmon Wessex

Depth  
0.30

0.30

Logged  
AT

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                              |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|--------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                  |     |
|              |                           |      |         | 0.00      |           |        | Soft brown slightly organic sandy CLAY [TOPSOIL] |     |
|              |                           |      |         | 0.30      | 74.70     |        | End of Pit at 0.300m                             |     |
|              |                           |      |         |           |           |        |                                                  | 0.5 |
|              |                           |      |         |           |           |        |                                                  | 1.0 |
|              |                           |      |         |           |           |        |                                                  | 1.5 |
|              |                           |      |         |           |           |        |                                                  | 2.0 |
|              |                           |      |         |           |           |        |                                                  | 2.5 |
|              |                           |      |         |           |           |        |                                                  | 3.0 |
|              |                           |      |         |           |           |        |                                                  | 3.5 |
|              |                           |      |         |           |           |        |                                                  | 4.0 |
|              |                           |      |         |           |           |        |                                                  | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Hand Dug Trial Pit for the collection of soil samples.

Stability: Stable.







Geo Environmental Group

# Trial Pit Log

TrialPit No

**SP02**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415114.82 - 133994.15  
Level: 75.00

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m):

0.30

0.30

Depth  
0.30

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                              |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|--------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                  |     |
|              |                           |      |         | 0.00      |           |        | Soft brown slightly organic sandy CLAY [TOPSOIL] |     |
|              |                           |      |         | 0.30      | 74.70     |        | End of Pit at 0.300m                             |     |
|              |                           |      |         |           |           |        |                                                  | 0.5 |
|              |                           |      |         |           |           |        |                                                  | 1.0 |
|              |                           |      |         |           |           |        |                                                  | 1.5 |
|              |                           |      |         |           |           |        |                                                  | 2.0 |
|              |                           |      |         |           |           |        |                                                  | 2.5 |
|              |                           |      |         |           |           |        |                                                  | 3.0 |
|              |                           |      |         |           |           |        |                                                  | 3.5 |
|              |                           |      |         |           |           |        |                                                  | 4.0 |
|              |                           |      |         |           |           |        |                                                  | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Hand Dug Trial Pit for the collection of soil samples.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

Trial Pit No

**SP03**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415136.26 - 133972.46  
Level: 75.00

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m):

0.30

0.30

Depth  
0.30

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                              |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|--------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                  |     |
|              |                           |      |         | 0.00      |           |        | Soft brown slightly organic sandy CLAY [TOPSOIL] |     |
|              |                           |      |         | 0.30      | 74.70     |        | End of Pit at 0.300m                             |     |
|              |                           |      |         |           |           |        |                                                  | 0.5 |
|              |                           |      |         |           |           |        |                                                  | 1.0 |
|              |                           |      |         |           |           |        |                                                  | 1.5 |
|              |                           |      |         |           |           |        |                                                  | 2.0 |
|              |                           |      |         |           |           |        |                                                  | 2.5 |
|              |                           |      |         |           |           |        |                                                  | 3.0 |
|              |                           |      |         |           |           |        |                                                  | 3.5 |
|              |                           |      |         |           |           |        |                                                  | 4.0 |
|              |                           |      |         |           |           |        |                                                  | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Hand Dug Trial Pit for the collection of soil samples.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

**SP04**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415124.86 - 133966.68  
Level: 75.00

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m):

0.30

Depth  
0.30

0.30

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                              |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|--------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                  |     |
|              |                           |      |         | 0.00      |           |        | Soft brown slightly organic sandy CLAY [TOPSOIL] |     |
|              |                           |      |         | 0.30      | 74.70     |        | End of Pit at 0.300m                             |     |
|              |                           |      |         |           |           |        |                                                  | 0.5 |
|              |                           |      |         |           |           |        |                                                  | 1.0 |
|              |                           |      |         |           |           |        |                                                  | 1.5 |
|              |                           |      |         |           |           |        |                                                  | 2.0 |
|              |                           |      |         |           |           |        |                                                  | 2.5 |
|              |                           |      |         |           |           |        |                                                  | 3.0 |
|              |                           |      |         |           |           |        |                                                  | 3.5 |
|              |                           |      |         |           |           |        |                                                  | 4.0 |
|              |                           |      |         |           |           |        |                                                  | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Hand Dug Trial Pit for the collection of soil samples.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

**TP01**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415156.51 - 133974.56  
Level: 73.90

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

Depth  
3.50

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                            |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                                                                                                                                                                                                                                                                                                |     |
|              | 0.10                      | ES   |         | 0.00      |           |        | MADE GROUND - Soft brown slightly sandy slightly gravelly CLAY. Gravel is sub angular tabular fine to coarse of rare chalk.<br>[REWORKED TOPSOIL]                                                                                                                                                                              |     |
|              |                           |      |         | 0.20      | 73.70     |        |                                                                                                                                                                                                                                                                                                                                |     |
|              |                           |      |         | 0.40      | 73.50     |        | MADE GROUND - Loose sub angular to angular fine to coarse GRAVEL of chalk and quartzite.<br>[POSSIBLE DRAINAGE MEDIUM]                                                                                                                                                                                                         |     |
|              |                           |      |         |           |           |        | Structureless CHALK composed of white locally mottled light brown clayey gravelly SILT. Gravel is very weak low density white subangular.<br>[SEAFORD CHALK FORMATION - GRADE Dm]                                                                                                                                              | 0.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                                                                | 1.0 |
|              | 1.50                      | B    |         | 1.20      | 72.70     |        | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets.<br>[SEAFORD CHALK FORMATION - GRADE Dc] | 1.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                                                                | 2.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                                                                | 2.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                                                                | 3.0 |
|              |                           |      |         | 3.50      | 70.40     |        | End of Pit at 3.500m                                                                                                                                                                                                                                                                                                           | 3.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                                                                | 4.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                                                                | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Infiltration Testing undertaken in pit 4. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

Trial Pit No

TP02

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415148.81 - 133987.63  
Level: 74.10

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

Depth  
3.40

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                            |     |
|--------------|---------------------------|------|---------|-----------|-----------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                |     |
|              |                           |      |         | 0.00      |           |    | Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular chalk. [TOPSOIL]                                                                                                                                                                                                   |     |
|              |                           |      |         | 0.30      | 73.80     |    | Structureless CHALK composed of white locally mottled light brown clayey gravelly SILT. Gravel is very weak low density white subangular. [SEAFORD CHALK FORMATION - GRADE Dm]                                                                                                                 | 0.5 |
|              |                           |      |         | 0.80      | 73.30     |    | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets. [SEAFORD CHALK FORMATION - GRADE Dc] | 1.0 |
|              | 1.20                      | D    |         | 1.30      | 72.80     |    | Weak medium density white with occasional black flecks CHALK with occasional cobble sized flint nodules. Fractures subvertical closely spaced (20/80/150) infilled (0.5/10/20) with white silt. [SEAFORD CHALK FORMATION- GRADE C]                                                             | 1.5 |
|              | 2.00                      | B    |         |           |           |    |                                                                                                                                                                                                                                                                                                | 2.0 |
|              |                           |      |         |           |           |    |                                                                                                                                                                                                                                                                                                | 2.5 |
|              |                           |      |         |           |           |   |                                                                                                                                                                                                                                                                                                | 3.0 |
|              |                           |      |         | 3.40      | 70.70     |  |                                                                                                                                                                                                                                                                                                | 3.5 |
|              |                           |      |         |           |           |                                                                                     | End of Pit at 3.400m                                                                                                                                                                                                                                                                           | 4.0 |
|              |                           |      |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX.

Stability: Stable.







Geo Environmental Group

# Trial Pit Log

TrialPit No

TP03

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415211.45 - 133908.05  
Level: 73.10

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

Depth  
3.30

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing            |                          |                            | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                            |                          |
|--------------|--------------------------------------|--------------------------|----------------------------|--------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|              | Depth                                | Type                     | Results                    |              |           |        |                                                                                                                                                                                                                                                                                                                                |                          |
|              | 0.30                                 | ES                       |                            | 0.00<br>0.20 | 72.90     |        | MADE GROUND - Soft brown slightly sandy slightly gravelly CLAY. Gravel is sub angular tabular fine to coarse of rare chalk.<br>[REWORKED TOPSOIL]                                                                                                                                                                              | 0.5                      |
|              |                                      |                          |                            | 0.70         | 72.40     |        | MADE GROUND - Firm brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse subangular brick, concrete and chalk.                                                                                                                                                                                                    |                          |
|              | 0.90<br>0.90<br>0.90<br>1.00<br>1.00 | PP<br>PP<br>PP<br>D<br>D | PP=150<br>PP=150<br>PP=175 |              |           |        | Firm light brown slightly gravelly CLAY. Gravel is fine to coarse subangular flint and chalk.<br>[HEAD DEPOSITS]<br><i>0.90 - 1.30 m: Becoming firm to stiff.</i>                                                                                                                                                              | 1.0                      |
|              | 1.70                                 | B                        |                            | 1.30         | 71.80     |        | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets.<br>[SEAFORD CHALK FORMATION - GRADE Dc] | 1.5<br>2.0<br>2.5<br>3.0 |
|              |                                      |                          |                            | 3.30         | 69.80     |        | End of Pit at 3.300m                                                                                                                                                                                                                                                                                                           | 3.5<br>4.0<br>4.5        |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

**TP04**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415192.55 - 133920.91  
Level: 73.20

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

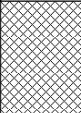
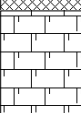
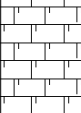
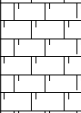
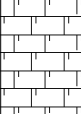
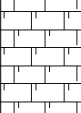
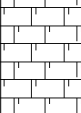
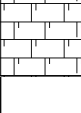
Depth  
3.20

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                                                            |     |
|--------------|---------------------------|------|---------|-----------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                                                |     |
|              |                           |      |         | 0.00      |           |    | MADE GROUND - Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular chalk and brick with occasional plastic sheeting.                                                                                                                                                                          |     |
|              |                           |      |         | 0.40      | 72.80     |    | Structureless CHALK composed of white locally mottled light brown clayey gravelly SILT. Gravel is very weak low density white subangular.<br>[SEAFORD CHALK FORMATION - GRADE Dm]                                                                                                                                              | 0.5 |
|              |                           |      |         | 0.80      | 72.40     |    | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets.<br>[SEAFORD CHALK FORMATION - GRADE Dc] | 1.0 |
|              |                           |      |         |           |           |    |                                                                                                                                                                                                                                                                                                                                | 1.5 |
|              |                           |      |         |           |           |   |                                                                                                                                                                                                                                                                                                                                | 2.0 |
|              |                           |      |         |           |           |  |                                                                                                                                                                                                                                                                                                                                | 2.5 |
|              |                           |      |         |           |           |  |                                                                                                                                                                                                                                                                                                                                | 3.0 |
|              |                           |      |         | 3.20      | 70.00     |  | End of Pit at 3.200m                                                                                                                                                                                                                                                                                                           | 3.5 |
|              |                           |      |         |           |           |  |                                                                                                                                                                                                                                                                                                                                | 4.0 |
|              |                           |      |         |           |           |  |                                                                                                                                                                                                                                                                                                                                | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

**TP05**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415179.09 - 133948.68  
Level: 73.54

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

Scale  
1:25

Client: Persimmon Wessex

Depth  
2.80

0.60

Logged  
AT

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                                                            |     |
|--------------|---------------------------|------|---------|-----------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                                                |     |
|              | 0.10                      | ES   |         | 0.00      |           |    | Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular chalk.<br>[TOPSOIL]                                                                                                                                                                                                                                |     |
|              |                           |      |         | 0.20      | 73.34     |    | Structureless CHALK composed of white locally mottled light brown clayey gravelly SILT. Gravel is very weak low density white subangular.<br>[SEAFORD CHALK FORMATION - GRADE Dm]                                                                                                                                              |     |
|              |                           |      |         | 0.50      | 73.04     |    | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets.<br>[SEAFORD CHALK FORMATION - GRADE Dc] | 0.5 |
|              | 1.20                      | D    |         |           |           |    |                                                                                                                                                                                                                                                                                                                                | 1.0 |
|              | 1.80                      | B    |         |           |           |    |                                                                                                                                                                                                                                                                                                                                | 1.5 |
|              |                           |      |         |           |           |    |                                                                                                                                                                                                                                                                                                                                | 2.0 |
|              |                           |      |         |           |           |    |                                                                                                                                                                                                                                                                                                                                | 2.5 |
|              |                           |      |         |           |           |    |                                                                                                                                                                                                                                                                                                                                | 3.0 |
|              |                           |      |         |           |           |   |                                                                                                                                                                                                                                                                                                                                | 3.5 |
|              |                           |      |         |           |           |  |                                                                                                                                                                                                                                                                                                                                | 4.0 |
|              |                           |      |         |           |           |  |                                                                                                                                                                                                                                                                                                                                | 4.5 |
|              |                           |      |         | 2.80      | 70.74     |  | End of Pit at 2.800m                                                                                                                                                                                                                                                                                                           |     |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX. 4. Sides collapsing below 1.0m

Stability: Side collapsing from 1.00 m.





Geo Environmental Group

# Trial Pit Log

TrialPit No

**TP06**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415165.02 - 133956.90  
Level: 73.55

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

Scale  
1:25

Client: Persimmon Wessex

Depth  
2.70

Logged  
AT

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                            | Stratum Description                                                                                                                                                                                                                                                                               |     |     |     |
|-----------------|---------------------------|------|---------|--------------|--------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|
|                 | Depth                     | Type | Results |              |              |                                                                                   |                                                                                                                                                                                                                                                                                                   |     |     |     |
|                 | 1.00                      | D    |         | 0.00         |              |  | Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular chalk and flint.<br>[TOPSOIL]                                                                                                                                                                                         | 0.5 |     |     |
|                 |                           |      |         | 0.30         | 73.25        |  | Structureless CHALK composed of white locally mottled light brown clayey gravelly SILT. Gravel is very weak low density white subangular.<br>[SEAFORD CHALK FORMATION - GRADE Dm]                                                                                                                 |     |     |     |
|                 |                           |      |         | 0.70         | 72.85        |  | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets.<br>[SEAFORD CHALK FORMATION - GRADE Dc] |     | 1.0 |     |
|                 | 1.70                      | B    |         |              |              |                                                                                   |                                                                                                                                                                                                                                                                                                   |     |     | 1.5 |
|                 |                           |      |         | 2.00         | 71.55        |  | Weak medium density white with occasional black flecks CHALK with occasional cobble sized flint nodules. Fractures subvertical closely spaced (20/80/150) infilled (0.5/10/20) with white silt.<br>[SEAFORD CHALK FORMATION- GRADE C]                                                             | 2.0 |     |     |
|                 |                           |      |         |              |              |                                                                                   |                                                                                                                                                                                                                                                                                                   |     |     | 2.5 |
|                 |                           |      |         | 2.70         | 70.85        |  | End of Pit at 2.700m                                                                                                                                                                                                                                                                              | 3.0 |     |     |
|                 |                           |      |         |              |              |                                                                                   | 3.5                                                                                                                                                                                                                                                                                               |     |     |     |
|                 |                           |      |         |              |              |                                                                                   | 4.0                                                                                                                                                                                                                                                                                               |     |     |     |
|                 |                           |      |         |              |              |                                                                                   | 4.5                                                                                                                                                                                                                                                                                               |     |     |     |



Geo Environmental Group

# Trial Pit Log

TrialPit No

TP07

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415111.35 - 134027.36  
Level: 74.60

Date  
26/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

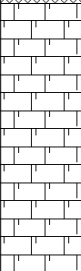
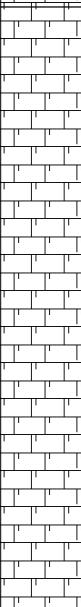
Depth  
3.20

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                               |     |
|--------------|---------------------------|------|---------|-----------|-----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                   |     |
|              | 0.10                      | ES   |         | 0.00      |           |    | MADE GROUND - Soft brown slightly sandy slightly gravelly CLAY. Gravel is sub angular tabular fine to coarse of rare chalk.<br>[REWORKED TOPSOIL]                                                                                                                                                 |     |
|              |                           |      |         | 0.30      | 74.30     |    | Structureless CHALK composed of white locally mottled light brown clayey gravelly SILT. Gravel is very weak low density white subangular.<br>[SEAFORD CHALK FORMATION - GRADE Dm]                                                                                                                 | 0.5 |
|              | 0.70                      | D    |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                   | 1.0 |
|              |                           |      |         | 1.20      | 73.40     |   | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets.<br>[SEAFORD CHALK FORMATION - GRADE Dc] | 1.5 |
|              | 1.40                      | B    |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                   | 2.0 |
|              |                           |      |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                   | 2.5 |
|              |                           |      |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                   | 3.0 |
|              |                           |      |         | 3.20      | 71.40     |  | End of Pit at 3.200m                                                                                                                                                                                                                                                                              | 3.5 |
|              |                           |      |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                   | 4.0 |
|              |                           |      |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                   | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX.

Stability: Stable.







Geo Environmental Group

# Trial Pit Log

TrialPit No

TP08

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415190.15 - 133897.87  
Level: 72.90

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.20

Depth  
3.50

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                            |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                                                                                                                                                                                                                                                                |     |
|              | 0.30                      | ES   |         | 0.00      |           |        | MADE GROUND - Soft to firm brown slightly sandy gravelly CLAY. Gravel is fine to coarse subangular chalk, flint and occasional brick.                                                                                                                                                          | 0.5 |
|              | 0.80                      | D    |         |           |           |        |                                                                                                                                                                                                                                                                                                | 1.0 |
|              | 1.40                      | D    |         | 1.20      | 71.70     |        | Firm light brown slightly gravelly CLAY. Gravel is fine to coarse subangular flint and chalk. [HEAD DEPOSITS]                                                                                                                                                                                  | 1.5 |
|              | 2.10                      | B    |         | 1.90      | 71.00     |        | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets. [SEAFORD CHALK FORMATION - GRADE Dc] | 2.0 |
|              |                           |      |         | 3.50      | 69.40     |        | End of Pit at 3.500m                                                                                                                                                                                                                                                                           | 3.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                                | 4.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                                | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

**TP09**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415235.67 - 133934.07  
Level: 74.00

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 3.00

Scale  
1:25

Client: Persimmon Wessex

Depth  
3.00

0.60

Logged  
AT

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                    |     |
|--------------|---------------------------|------|---------|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |        |                                                                                                                                                                                                                                                                                        |     |
|              |                           |      |         | 0.00      |           |        | MADE GROUND - Soft brown slightly sandy slightly gravelly CLAY. Gravel is sub angular tabular fine to coarse of rare chalk.                                                                                                                                                            |     |
|              |                           |      |         | 0.20      | 73.80     |        | [REWORKED TOPSOIL]                                                                                                                                                                                                                                                                     |     |
|              | 0.40                      | ES   |         |           |           |        | MADE GROUND - Firm brown sandy very gravelly silty CLAY. Gravel is fine to coarse subangular brick, concrete, flint and chalk with frequent curbstone boulders.                                                                                                                        | 0.5 |
|              |                           |      |         | 0.60      | 73.40     |        | Firm light brown slightly gravelly CLAY. Gravel is fine to coarse subangular flint and chalk.                                                                                                                                                                                          |     |
|              |                           |      |         | 0.80      | 73.20     |        | [HEAD DEPOSITS]                                                                                                                                                                                                                                                                        |     |
|              |                           |      |         |           |           |        | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets. | 1.0 |
|              | 1.30                      | B    |         |           |           |        | [SEAFORD CHALK FORMATION - GRADE Dc]                                                                                                                                                                                                                                                   | 1.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 2.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 2.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 3.0 |
|              |                           |      |         | 3.00      | 71.00     |        | End of Pit at 3.000m                                                                                                                                                                                                                                                                   | 3.5 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 4.0 |
|              |                           |      |         |           |           |        |                                                                                                                                                                                                                                                                                        | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX.

Stability: Sides collapsed below 1.00 m.





Geo Environmental Group

# Trial Pit Log

Trial Pit No

TP10

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415206.60 - 133946.12  
Level: 74.90

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

Depth  
3.30

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                            | Stratum Description                                                                                                                                                                                                                                                                                                      |     |
|--------------|---------------------------|------|---------|-----------|-----------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |                                                                                   |                                                                                                                                                                                                                                                                                                                          |     |
|              | 0.00                      |      |         | 0.10      | 74.80     |  | MADE GROUND - Soft brown slightly sandy slightly gravelly CLAY. Gravel is sub angular tabular fine to coarse of rare chalk and rare concrete. [REWORKED TOPSOIL]                                                                                                                                                         |     |
|              | 0.40                      |      |         |           | 74.50     |  | MADE GROUND - Firm brown sandy very gravelly CLAY. Gravel is fine to coarse subangular brick, concrete and flint.                                                                                                                                                                                                        |     |
|              |                           |      |         |           |           |  | Firm light brown and white slightly gravelly silty CLAY. Gravel is fine to coarse subangular flint and chalk. [HEAD DEPOSITS]                                                                                                                                                                                            | 0.5 |
|              | 0.90                      | PP   | PP=225  |           |           |                                                                                   |                                                                                                                                                                                                                                                                                                                          |     |
|              | 0.90                      | PP   | PP=250  |           |           |                                                                                   |                                                                                                                                                                                                                                                                                                                          |     |
|              | 0.90                      | PP   | PP=250  |           |           |                                                                                   |                                                                                                                                                                                                                                                                                                                          |     |
|              |                           |      |         |           |           |                                                                                   | 0.90 - 1.30 m: Becoming firm to stiff.                                                                                                                                                                                                                                                                                   | 1.0 |
|              |                           |      |         | 1.30      | 73.60     |  | Structureless CHALK composed silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets. [SEAFORD CHALK FORMATION - GRADE Dc] | 1.5 |
|              | 2.40                      | B    |         |           |           |                                                                                   |                                                                                                                                                                                                                                                                                                                          | 2.0 |
|              |                           |      |         |           |           |                                                                                   |                                                                                                                                                                                                                                                                                                                          | 2.5 |
|              |                           |      |         |           |           |                                                                                   |                                                                                                                                                                                                                                                                                                                          | 3.0 |
|              |                           |      |         | 3.30      | 71.60     |                                                                                   | End of Pit at 3.300m                                                                                                                                                                                                                                                                                                     | 3.5 |
|              |                           |      |         |           |           |                                                                                   |                                                                                                                                                                                                                                                                                                                          | 4.0 |
|              |                           |      |         |           |           |                                                                                   |                                                                                                                                                                                                                                                                                                                          | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

TrialPit No

**TP11**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415153.55 - 133940.44  
Level: 72.90

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

Depth  
3.20

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                                                      |     |
|--------------|---------------------------|------|---------|-----------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type | Results |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                                          |     |
|              | 0.10                      | ES   |         | 0.00      |           |    | Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular chalk. [TOPSOIL]                                                                                                                                                                                                                             |     |
|              |                           |      |         | 0.30      | 72.60     |    | Firm light brown slightly gravelly silty CLAY. Gravel is fine to coarse subangular flint and chalk. [HEAD DEPOSITS]                                                                                                                                                                                                      |     |
|              |                           |      |         | 0.50      | 72.40     |    | Structureless CHALK composed of silty GRAVEL. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Matrix is white locally mottled light orangish brown. No discernible fracture sets. [SEAFORD CHALK FORMATION - GRADE Dc]                                               | 0.5 |
|              | 1.40                      | B    |         |           |           |    |                                                                                                                                                                                                                                                                                                                          | 1.0 |
|              |                           |      |         | 2.10      | 70.80     |  | Structureless CHALK composed silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets. [SEAFORD CHALK FORMATION - GRADE Dc] | 2.5 |
|              |                           |      |         | 3.20      | 69.70     |  | End of Pit at 3.200m                                                                                                                                                                                                                                                                                                     | 3.0 |
|              |                           |      |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                                          | 3.5 |
|              |                           |      |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                                          | 4.0 |
|              |                           |      |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                                          | 4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX.

Stability: Stable.





Geo Environmental Group

# Trial Pit Log

Trial Pit No

TP12

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415128.27 - 134016.86  
Level: 74.80

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

Depth  
3.40

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |        |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                                                      |     |
|--------------|---------------------------|--------|---------|-----------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|              | Depth                     | Type   | Results |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                                          |     |
|              | 0.10                      | ES     |         | 0.00      |           |    | Soft brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular chalk. [TOPSOIL]                                                                                                                                                                                                                             |     |
|              |                           |        |         | 0.30      | 74.50     |    | Structureless CHALK composed of white locally mottled light brown clayey gravelly SILT. Gravel is very weak low density white subangular. With occasional flint nodules. [SEAFORD CHALK FORMATION - GRADE Dm]                                                                                                            | 0.5 |
|              |                           |        |         | 1.00      | 73.80     |    | Structureless CHALK composed silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. No discernible fracture sets. [SEAFORD CHALK FORMATION - GRADE Dc] | 1.0 |
|              | 1.60<br>1.60              | B<br>D |         |           |           |    |                                                                                                                                                                                                                                                                                                                          | 1.5 |
|              |                           |        |         |           |           |    |                                                                                                                                                                                                                                                                                                                          | 2.0 |
|              |                           |        |         |           |           |    |                                                                                                                                                                                                                                                                                                                          | 2.5 |
|              |                           |        |         |           |           |    |                                                                                                                                                                                                                                                                                                                          | 3.0 |
|              |                           |        |         |           |           |    |                                                                                                                                                                                                                                                                                                                          | 3.5 |
|              |                           |        |         |           |           |   |                                                                                                                                                                                                                                                                                                                          | 4.0 |
|              |                           |        |         |           |           |  |                                                                                                                                                                                                                                                                                                                          | 4.5 |
|              |                           |        |         | 3.40      | 71.40     |  | End of Pit at 3.400m                                                                                                                                                                                                                                                                                                     |     |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX.

Stability: Stable.







Geo Environmental Group

# Trial Pit Log

Trial Pit No

**TP13**

Sheet 1 of 1

Project Name: Land North of Bunting Lane, Old Sarum

Project No.  
GEG-23-786

Co-ords: 415100.70 - 134014.94  
Level: 74.30

Date  
27/04/2023

Location: Sherbourne Dr, Old Sarum, Salisbury SP4 6FF

Dimensions (m): 2.60

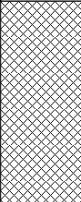
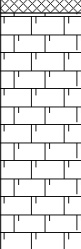
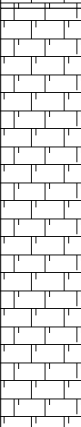
Depth  
2.90

0.60

Scale  
1:25

Logged  
AT

Client: Persimmon Wessex

| Water Strike | Samples & In Situ Testing |        |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                                                                                        |                          |
|--------------|---------------------------|--------|---------|-----------|-----------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|              | Depth                     | Type   | Results |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                                                                            |                          |
|              | 0.30                      | ES     |         | 0.00      |           |    | MADE GROUND - Medium dense brown clayey sandy GRAVEL. Gravel is fine to coarse subangular brick, concrete, flint and tarmacadam.                                                                                                                                                                                                                           | 0.5                      |
|              | 1.20<br>1.20              | D<br>D |         | 0.70      | 73.60     |    | Structureless CHALK composed of GRAVEL. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Matrix is white locally mottled light orangish brown. No discernible fracture sets.<br>[SEAFORD CHALK FORMATION - GRADE Dc]                                                                                    | 1.0                      |
|              | 1.90                      | B      |         | 1.50      | 72.80     |   | Structureless CHALK composed of silty GRAVEL and occasional COBBLES. Clasts are very weak to weak low to medium density and white to cream with occasional black specks. Occasional flint nodules. Matrix is white locally mottled light orangish brown. Some discernible sub vertical fracture sets towards base.<br>[SEAFORD CHALK FORMATION - GRADE Dc] | 1.5<br>2.0<br>2.5        |
|              |                           |        |         | 2.90      | 71.40     |  | End of Pit at 2.900m                                                                                                                                                                                                                                                                                                                                       | 3.0<br>3.5<br>4.0<br>4.5 |

Remarks: 1. No groundwater encountered. 2. Upon completion trial pit backfilled with arisings. 3. Equipment: JCB 3CX.

Stability: Stable.





## **APPENDIX H**

### **INFILTRATION TEST RESULTS**

## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT01  
**Test No.:** Test 1 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 190.00  |
| Depth of Water at Start of Depth (cm): | 88.00   |
| Date of Test:                          | 26.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-1**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT01            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 1.02            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.70            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.21            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.6069          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.64            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 1.95            |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 10.80           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 8.85            |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>3.14E-04</b> |

\*To 50% Effective Depth (including base)

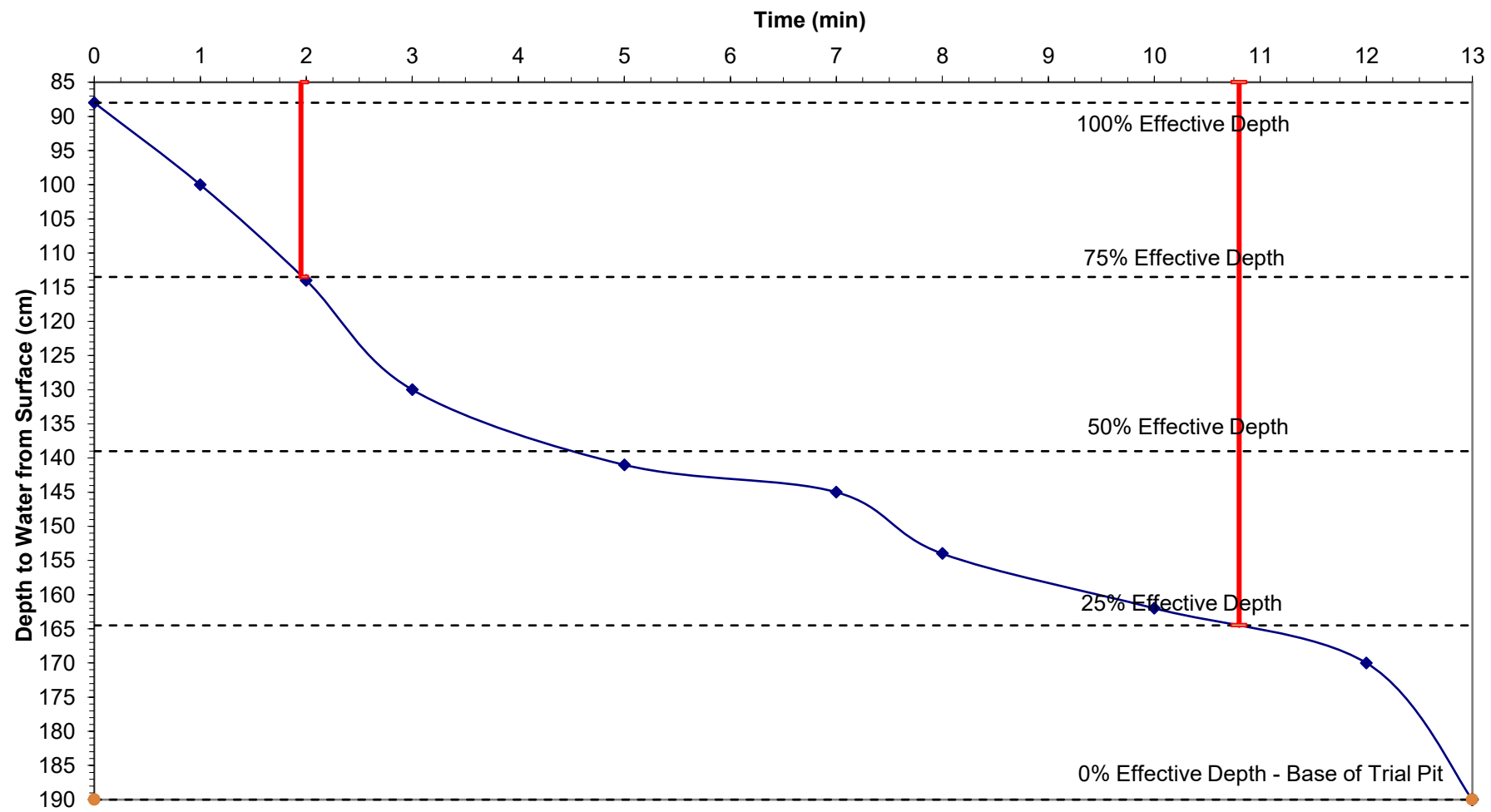
Site Engineer: JM  
Drafted by: JM  
Checked by: MP

Graph F-1

GEG-23-786

Old Sarum, Salisbury

IT01



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT01  
**Test No.:** Test 2 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 177.00  |
| Depth of Water at Start of Depth (cm): | 80.00   |
| Date of Test:                          | 26.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-2**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT01            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 0.97            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.70            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.15            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.57715         |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.52            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 1.75            |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 11.70           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 9.95            |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>2.75E-04</b> |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit at 1.77 m following slight collapse during Test 1.

Site Engineer: JM  
Drafted by: JM  
Checked by: MP

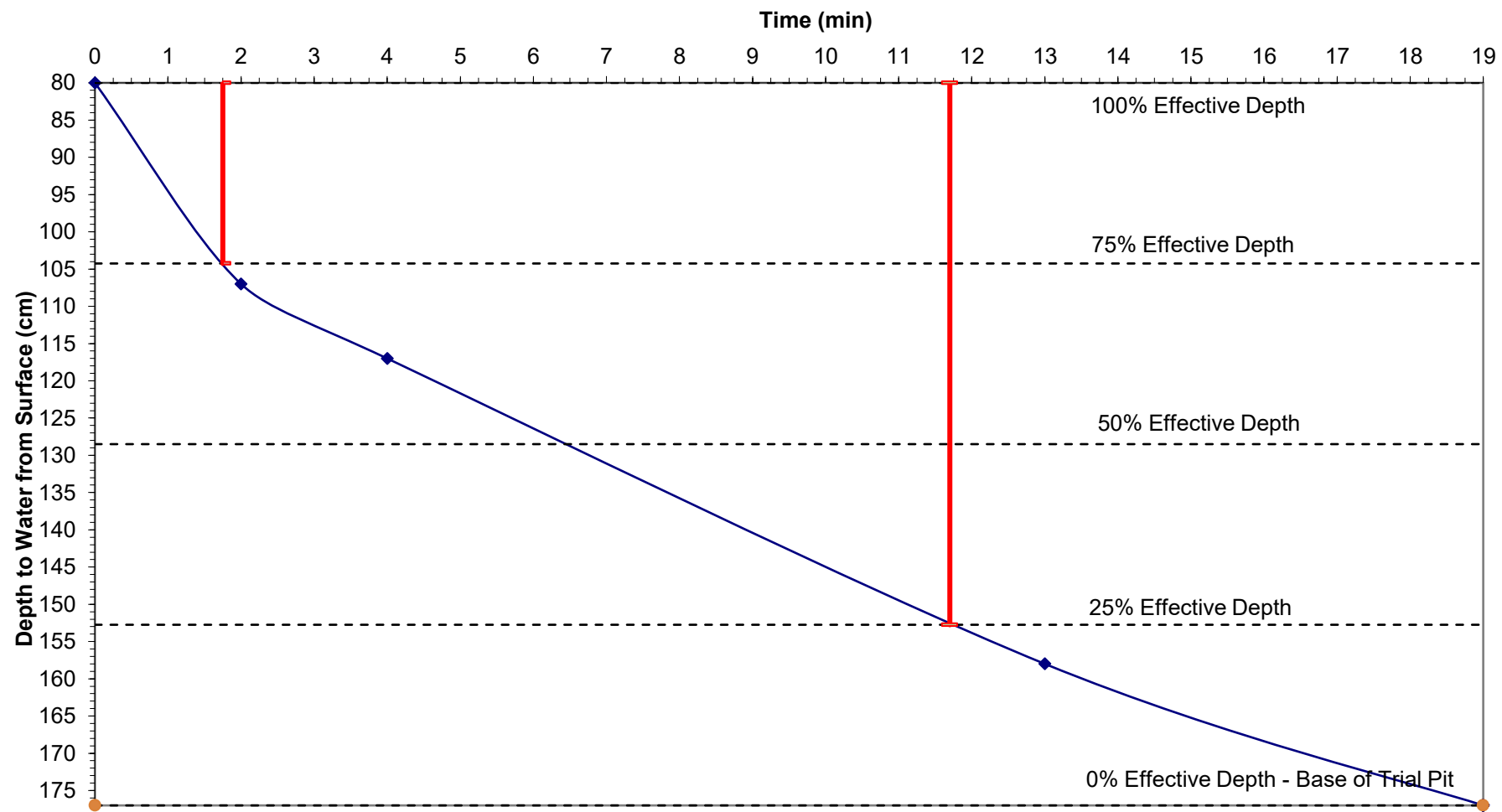


Graph F-2

GEG-23-786

Old Sarum, Salisbury

IT01



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT01  
**Test No.:** Test 3 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 174.00  |
| Depth of Water at Start of Depth (cm): | 73.00   |
| Date of Test:                          | 26.4.23 |

[illegible]

---

*End of Test*

With Reference to: **Graph F-3**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT01            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 1.01            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.70            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.20            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.60095         |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.61            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 2.60            |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 20.00           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 17.4            |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>1.59E-04</b> |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit at 1.74 m following slight collapse during Test 2.

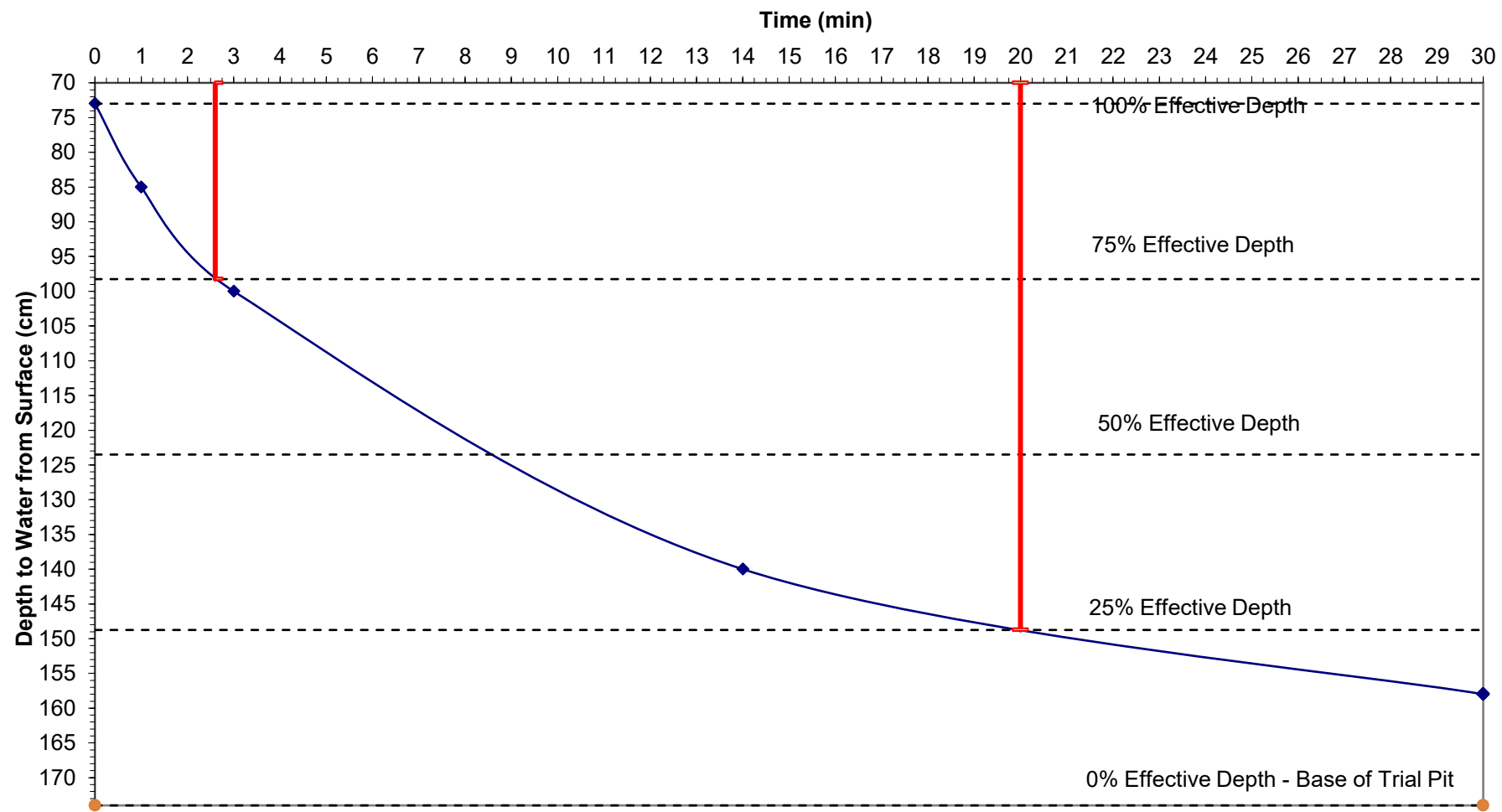
Site Engineer: JM  
Drafted by: JM  
Checked by: MP

Graph F-3

GEG-23-786

Old Sarum, Salisbury

IT01



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT02  
**Test No.:** Test 1 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 180.00  |
| Depth of Water at Start of Depth (cm): | 77.00   |
| Date of Test:                          | 26.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-4**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT02     |
|--------------------------------------------|------------------|--------------------------------------------------|-------|----------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 1.03     |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70     |
| Length of Trial Pit                        | $l$              |                                                  | m     | 2.10     |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.51     |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.75705  |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 4.35     |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 7.25     |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 35.00    |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 27.75    |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | 1.04E-04 |

\*To 50% Effective Depth (including base)

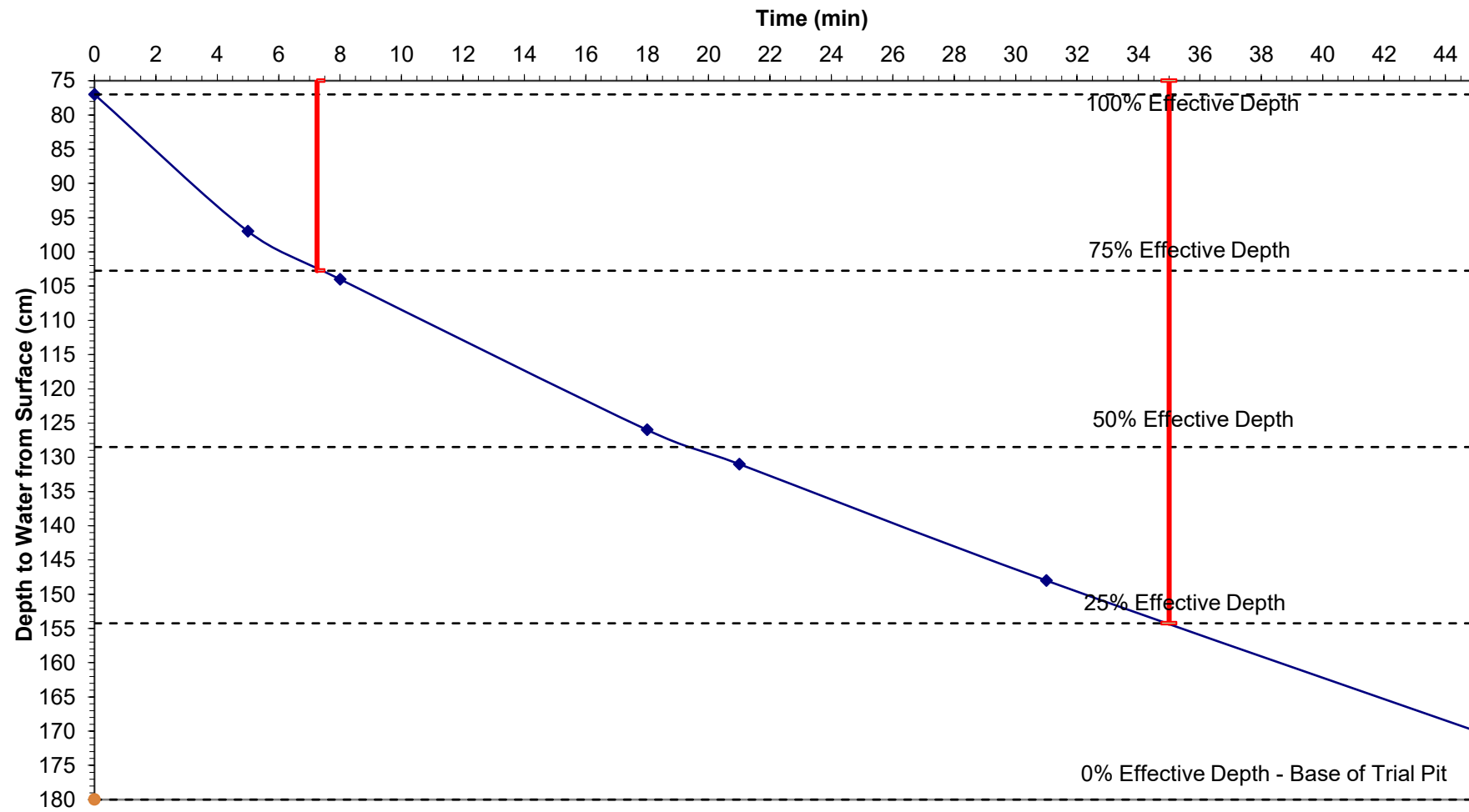
Site Engineer: JM  
Drafted by: JM  
Checked by: MP

Graph F-4

GEG-23-786

Old Sarum, Salisbury

IT02





## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT02  
**Test No.:** Test 2 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 175.00  |
| Depth of Water at Start of Depth (cm): | 72.00   |
| Date of Test:                          | 26.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-5**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT02            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 1.03            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 2.10            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.51            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.75705         |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 4.35            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 15.00           |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 63.50           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 48.5            |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>5.98E-05</b> |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit at 1.75 m following slight collapse during Test 1.

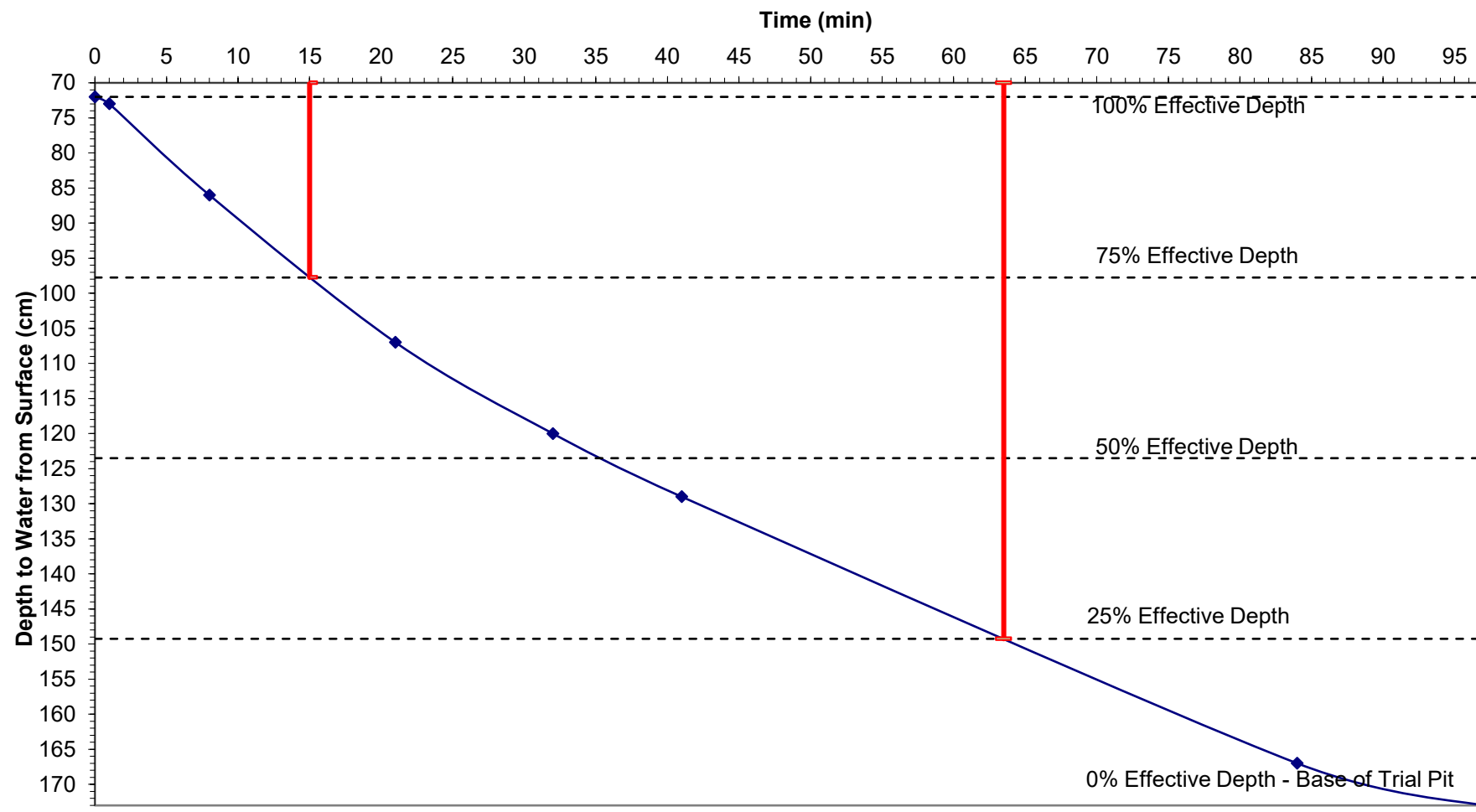
Site Engineer: JM  
Drafted by: JM  
Checked by: MP

Graph F-5

GEG-23-786

Old Sarum, Salisbury

IT02



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT02  
**Test No.:** Test 3 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 190.00  |
| Depth of Water at Start of Depth (cm): | 90.00   |
| Date of Test:                          | 27.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-6**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT02     |
|--------------------------------------------|------------------|--------------------------------------------------|-------|----------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 1.00     |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70     |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.70     |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.19     |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.595    |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.59     |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 10.50    |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 38.00    |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 27.5     |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | 1.00E-04 |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit reexcavated to 1.90 m following completion of test 2.

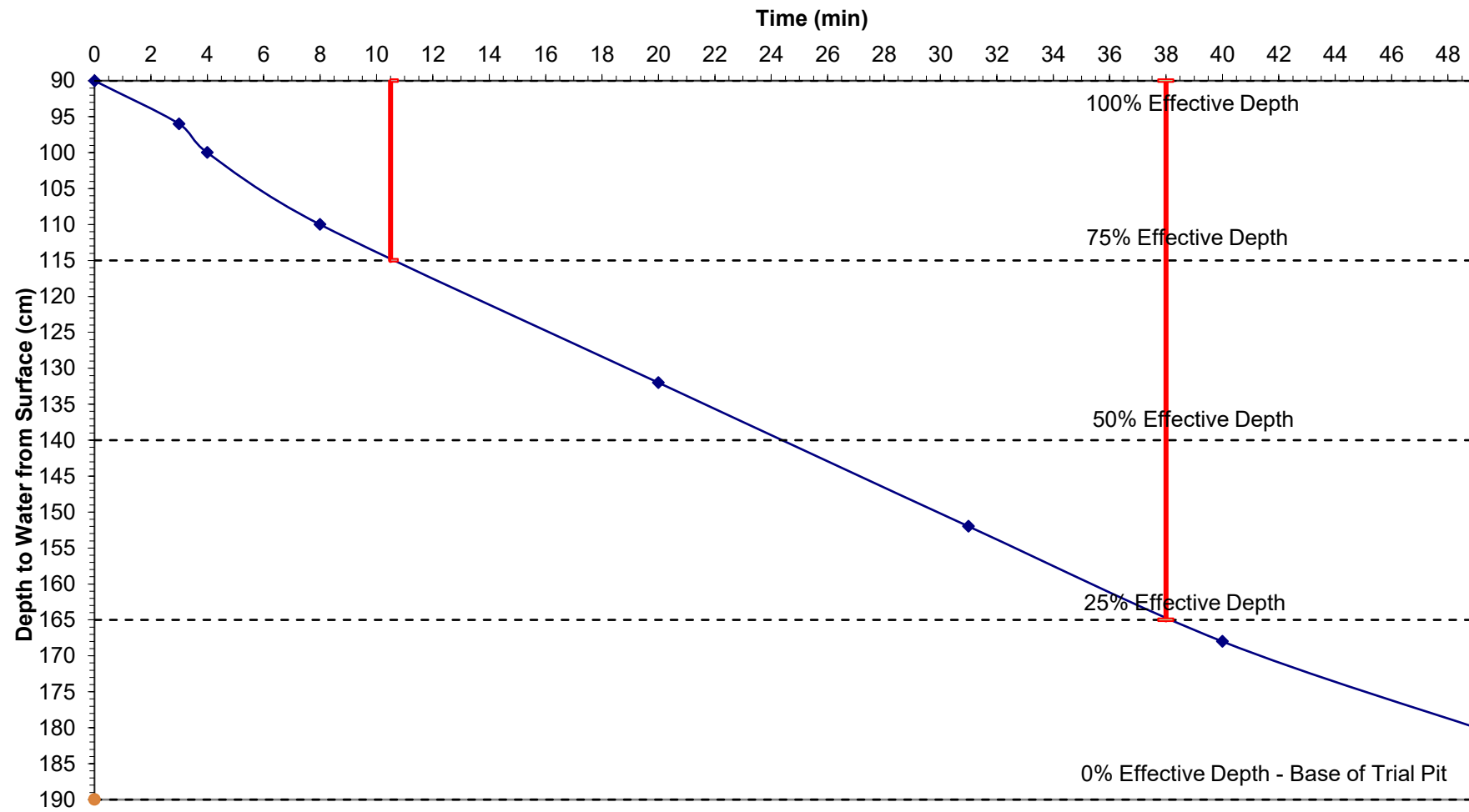
Site Engineer: JM  
Drafted by: JM  
Checked by: MP

Graph F-6

GEG-23-786

Old Sarum, Salisbury

IT02



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT03  
**Test No.:** Test 1 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 160.00  |
| Depth of Water at Start of Depth (cm): | 75.00   |
| Date of Test:                          | 26.4.23 |

[illegible]

---

*End of Test*

With Reference to: **Graph F-7**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT03            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 0.85            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 2.60            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.55            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.7735          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 4.63            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 3.00            |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 12.30           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 9.3             |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>3.00E-04</b> |

\*To 50% Effective Depth (including base)

Site Engineer: JM  
Drafted by: JM  
Checked by: MP

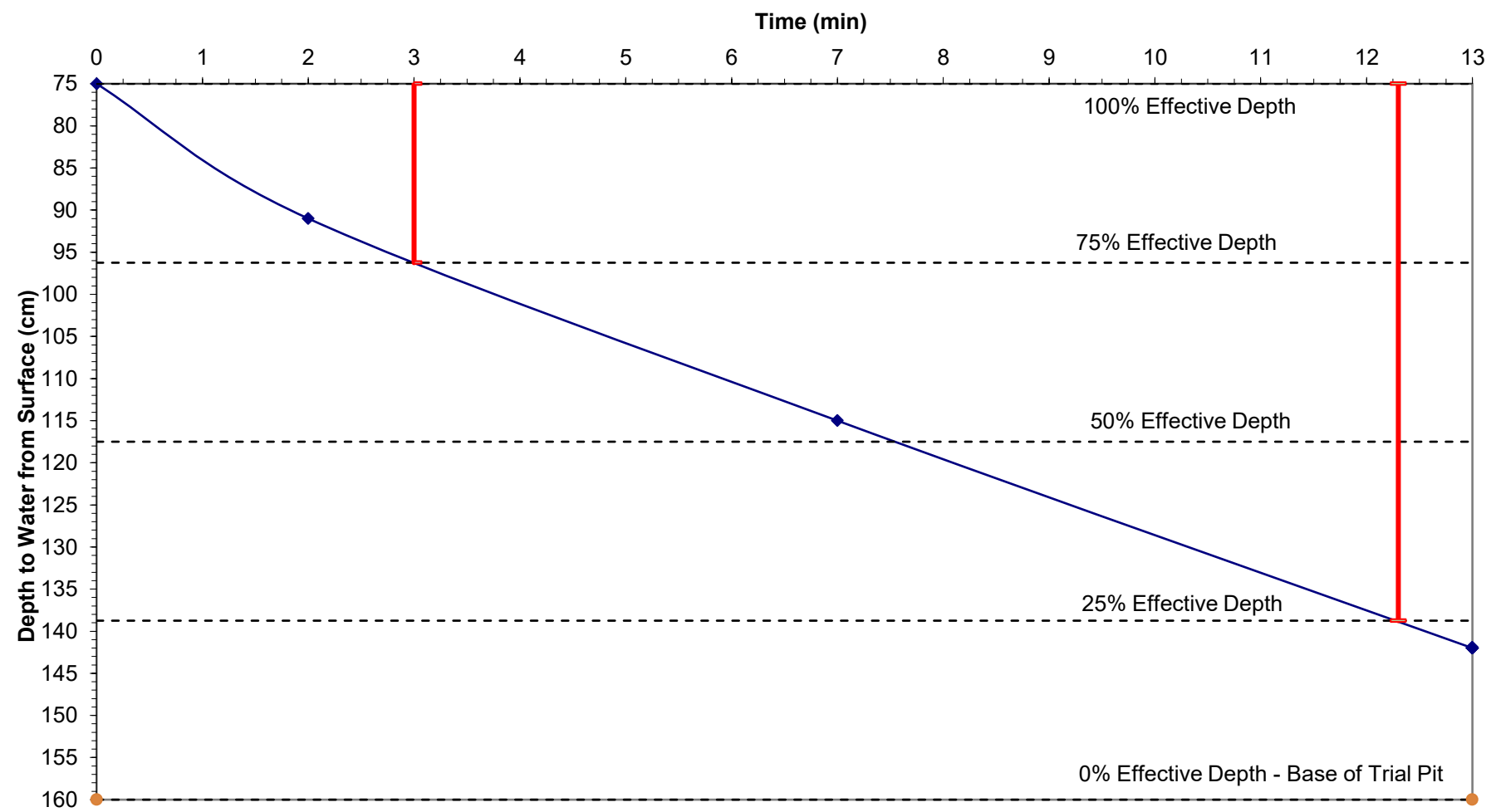


Graph F-7

GEG-23-786

Old Sarum, Salisbury

IT03



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT03  
**Test No.:** Test 2 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 142.00  |
| Depth of Water at Start of Depth (cm): | 70.00   |
| Date of Test:                          | 26.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-8**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT03            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 0.72            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 2.60            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.31            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.6552          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 4.20            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 5.20            |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 18.00           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 12.8            |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>2.03E-04</b> |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit at 1.42 m following slight collapse during Test 1.

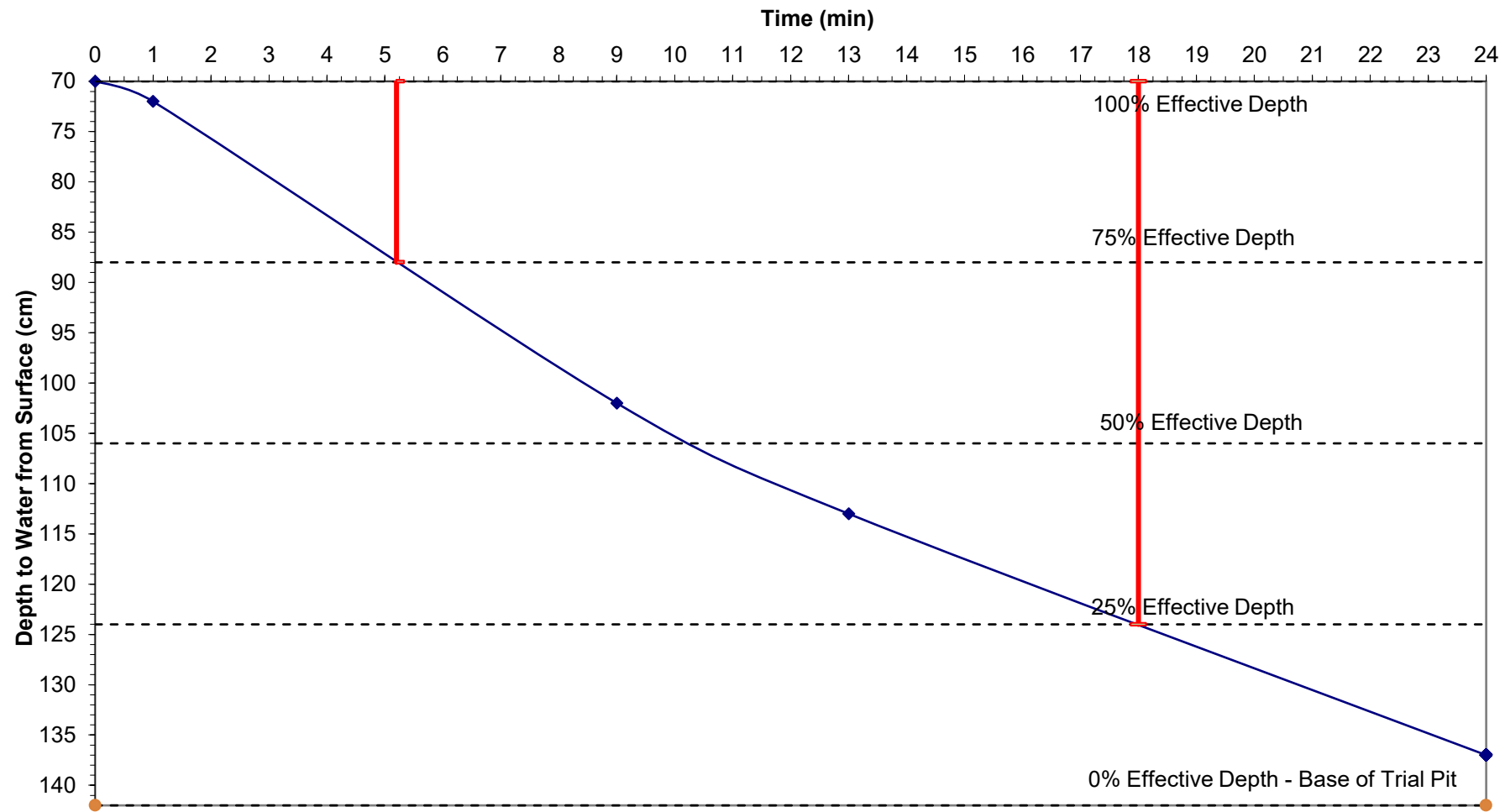
Site Engineer: JM  
Drafted by: JM  
Checked by: MP

Graph F-8

GEG-23-786

Old Sarum, Salisbury

IT03



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT03  
**Test No.:** Test 3 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 137.00  |
| Depth of Water at Start of Depth (cm): | 79.00   |
| Date of Test:                          | 26.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-9**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT03            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 0.58            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 2.60            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.06            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.5278          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.73            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 6.00            |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 53.00           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 47              |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>5.01E-05</b> |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit at 1.37 m following slight collapse during Test 2.

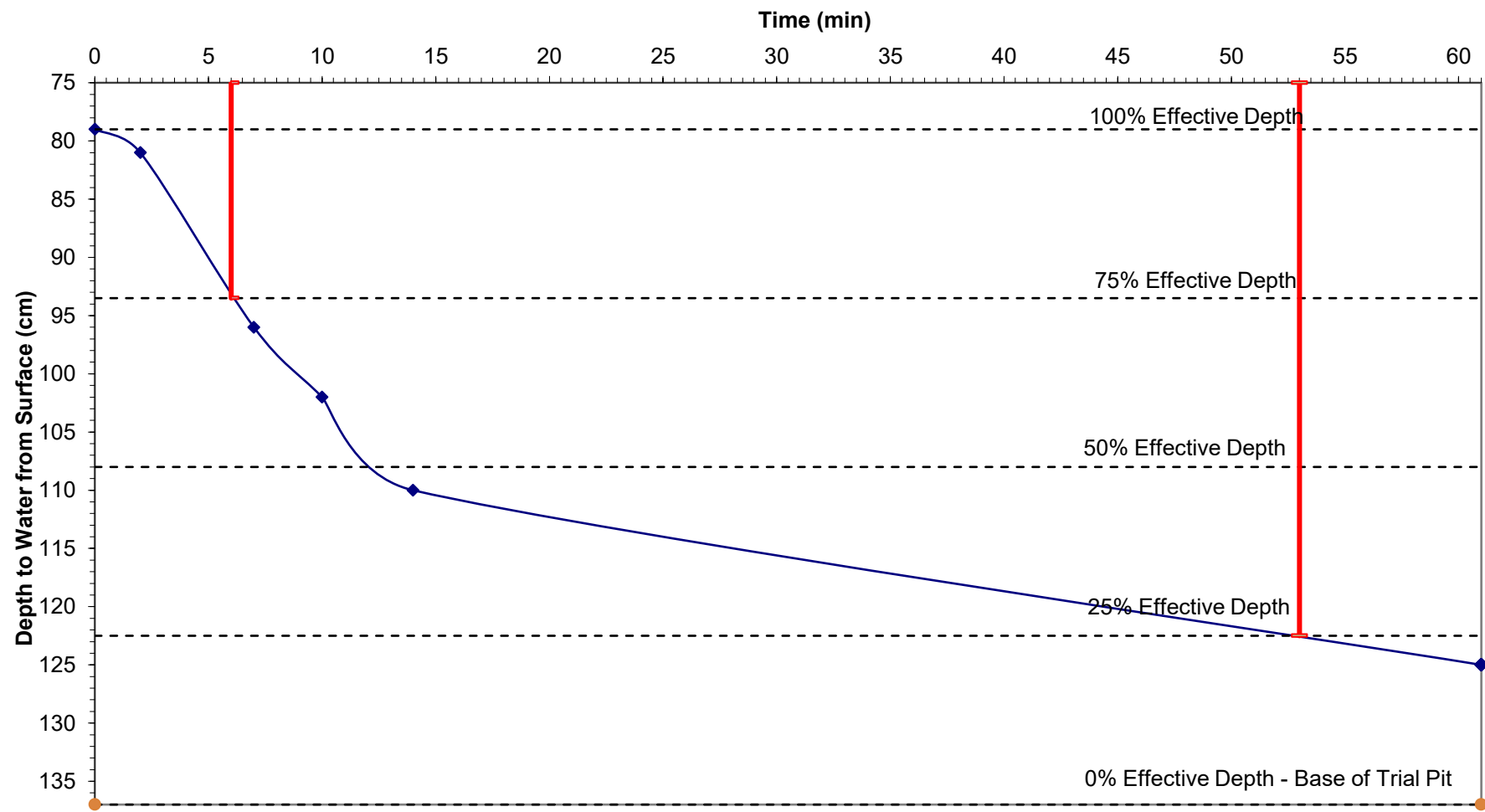
Site Engineer: JM  
Drafted by: JM  
Checked by: MP

Graph F-9

GEG-23-786

Old Sarum, Salisbury

IT03





## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT04  
**Test No.:** Test 1 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 190.00  |
| Depth of Water at Start of Depth (cm): | 64.00   |
| Date of Test:                          | 26.4.23 |



Geo  
Environmental  
Group

[illegible]

*End of Test*

With Reference to: **Graph F-10**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT04            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 1.26            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.60            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.41            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.7056          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 4.02            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 4.60            |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 17.90           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 13.3            |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>2.20E-04</b> |

\*To 50% Effective Depth (including base)

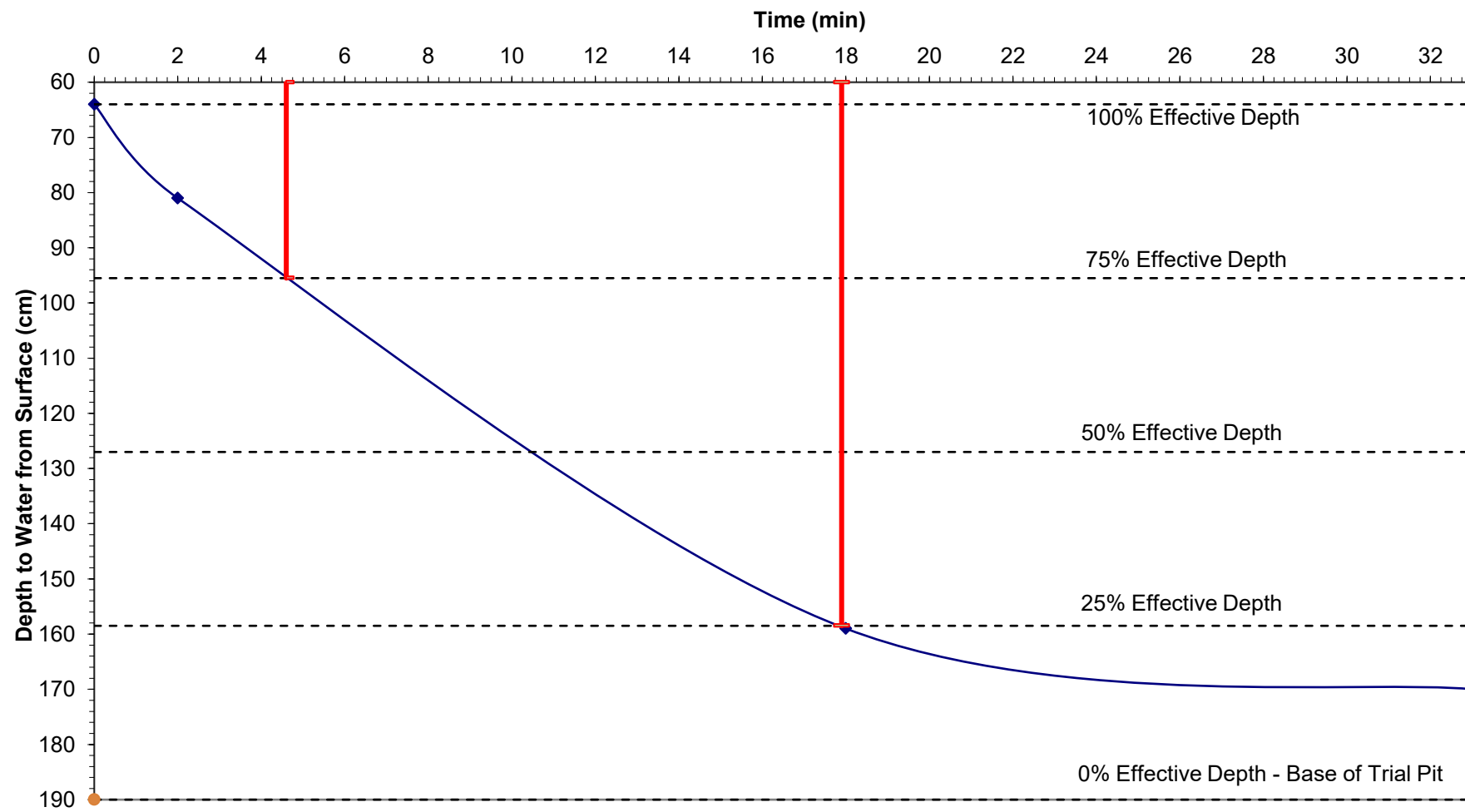
Site Engineer: JM  
Drafted by: JM  
Checked by: MP

Graph F-10

GEG-23-786

Old Sarum, Salisbury

IT04



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT04  
**Test No.:** Test 2 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 170.00  |
| Depth of Water at Start of Depth (cm): | 71.00   |
| Date of Test:                          | 26.4.23 |



**Geo  
Environmental  
Group**

[illegible]

---

*End of Test*

With Reference to: **Graph F-11**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT04            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 0.99            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.60            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.11            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.5544          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.40            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 8.40            |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 47.00           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 38.6            |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>7.05E-05</b> |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit at 1.70 m following slight collapse during Test 1.

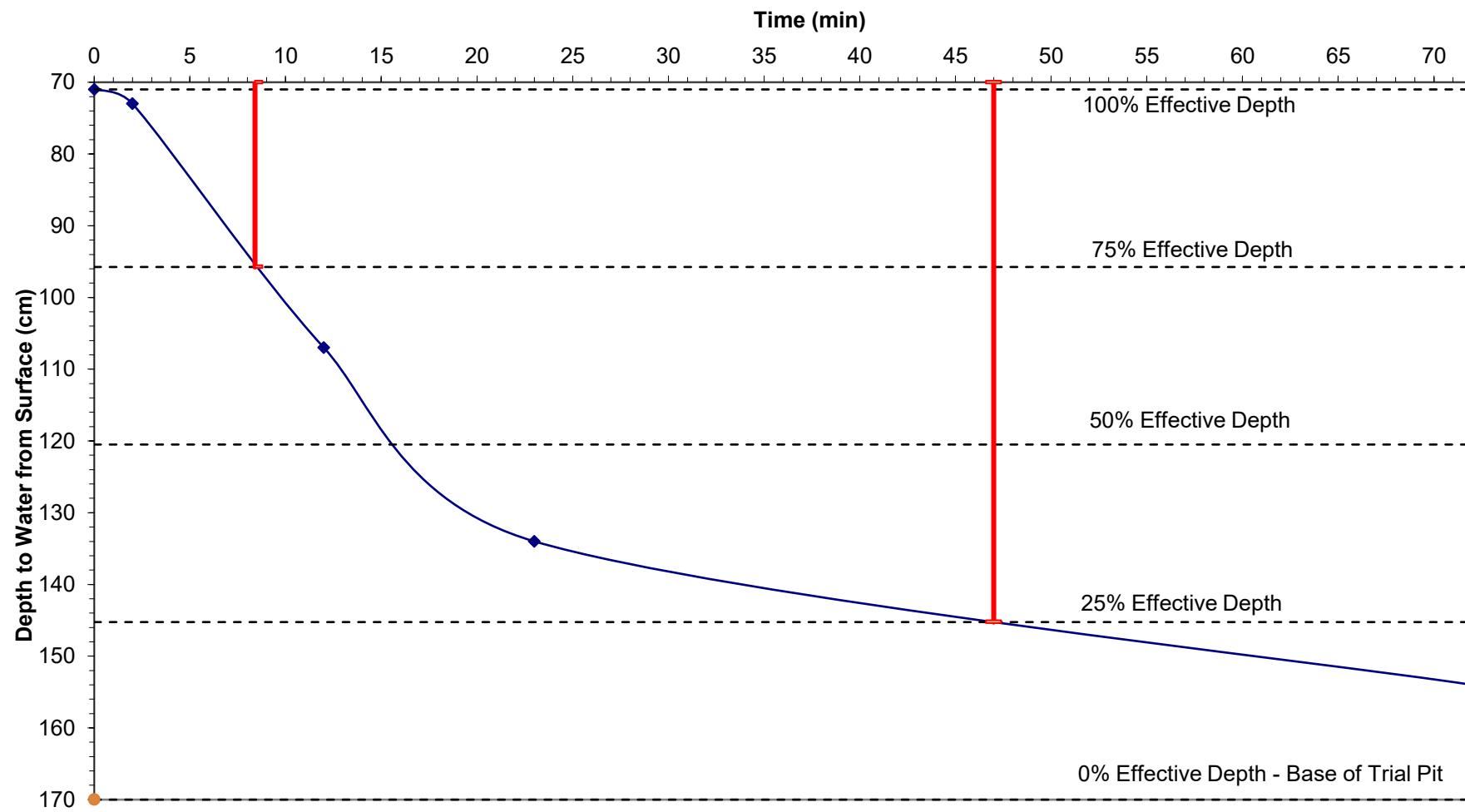
Site Engineer: JM  
Drafted by: JM  
Checked by: MP

Graph F-11

GEG-23-786

Old Sarum, Salisbury

IT04



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT04  
**Test No.:** Test 3 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 154.00  |
| Depth of Water at Start of Depth (cm): | 85.00   |
| Date of Test:                          | 26.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-12**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT04     |
|--------------------------------------------|------------------|--------------------------------------------------|-------|----------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 0.69     |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.70     |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.60     |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 0.77     |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.3864   |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 2.71     |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 14.20    |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 35.50    |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 21.3     |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | 1.12E-04 |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit at 1.54 m following slight collapse during Test 2.

Site Engineer: JM  
Drafted by: JM  
Checked by: MP

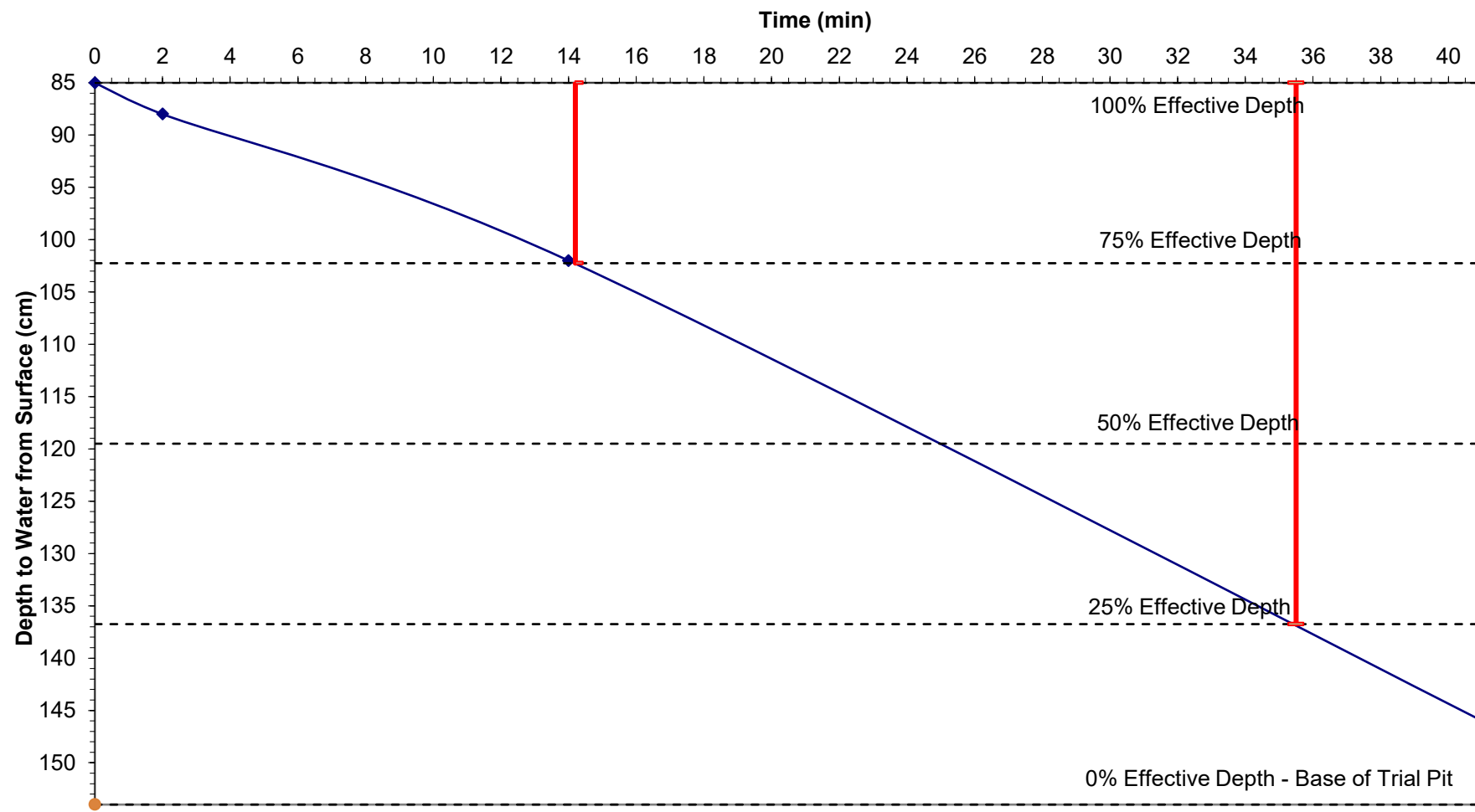


Graph F-12

GEG-23-786

Old Sarum, Salisbury

IT04



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT05  
**Test No.:** Test 1 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 170.00  |
| Depth of Water at Start of Depth (cm): | 66.00   |
| Date of Test:                          | 27.4.23 |



Geo  
Environmental  
Group

[illegible]

*End of Test*

With Reference to: **Graph F-13**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT05            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 1.04            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.60            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.90            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.19            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.5928          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.74            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 12.60           |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 88.00           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 75.4            |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>3.50E-05</b> |

\*To 50% Effective Depth (including base)

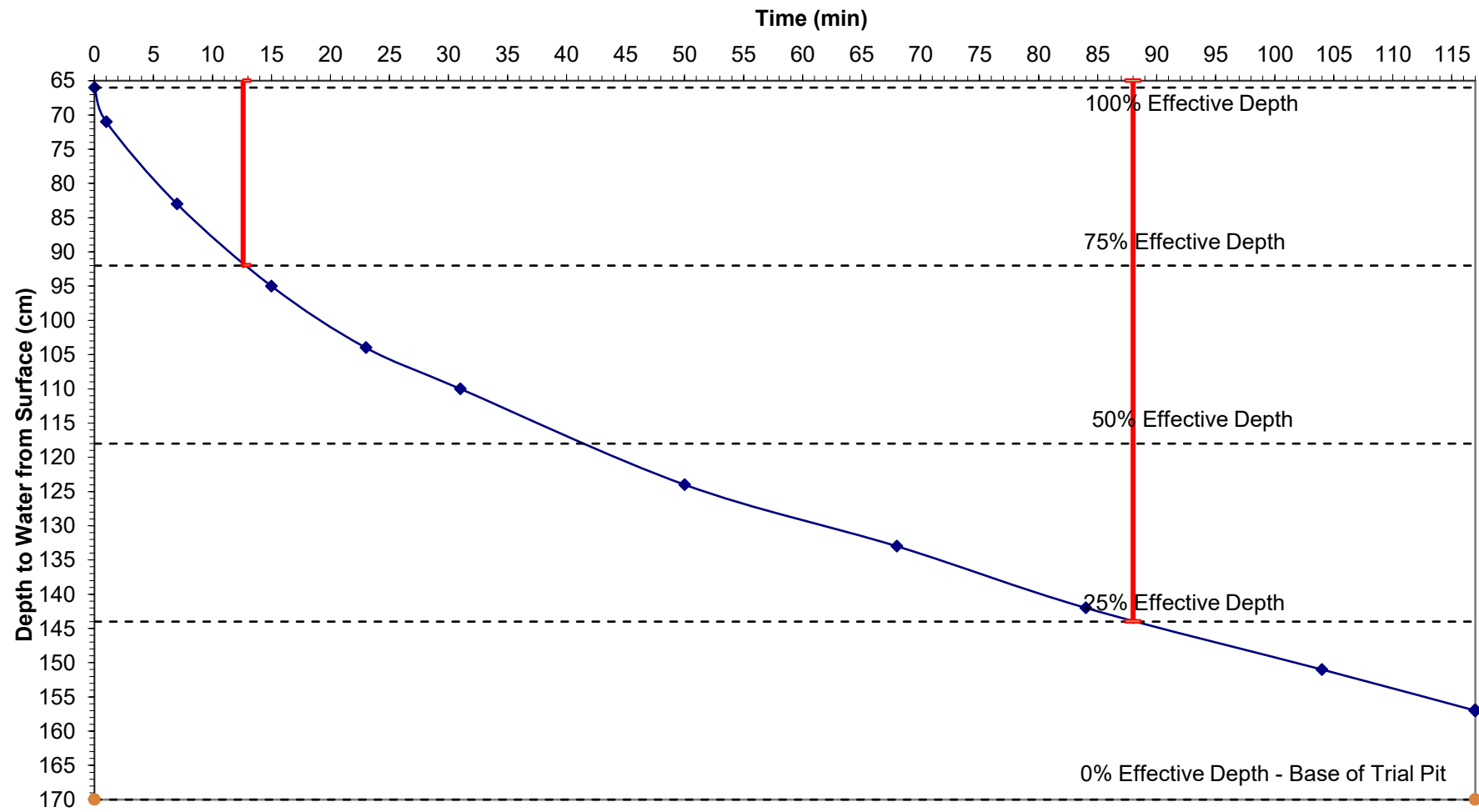
Site Engineer: AT  
Drafted by: JM  
Checked by: MP

Graph F-13

GEG-23-786

Old Sarum, Salisbury

IT05



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT05  
**Test No.:** Test 2 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 167.00  |
| Depth of Water at Start of Depth (cm): | 66.00   |
| Date of Test:                          | 27.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-14**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT05            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 1.01            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.60            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.90            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.15            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.5757          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.67            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 24.00           |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 102.00          |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 78              |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>3.36E-05</b> |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit at 1.67 m following slight collapse during Test 1.

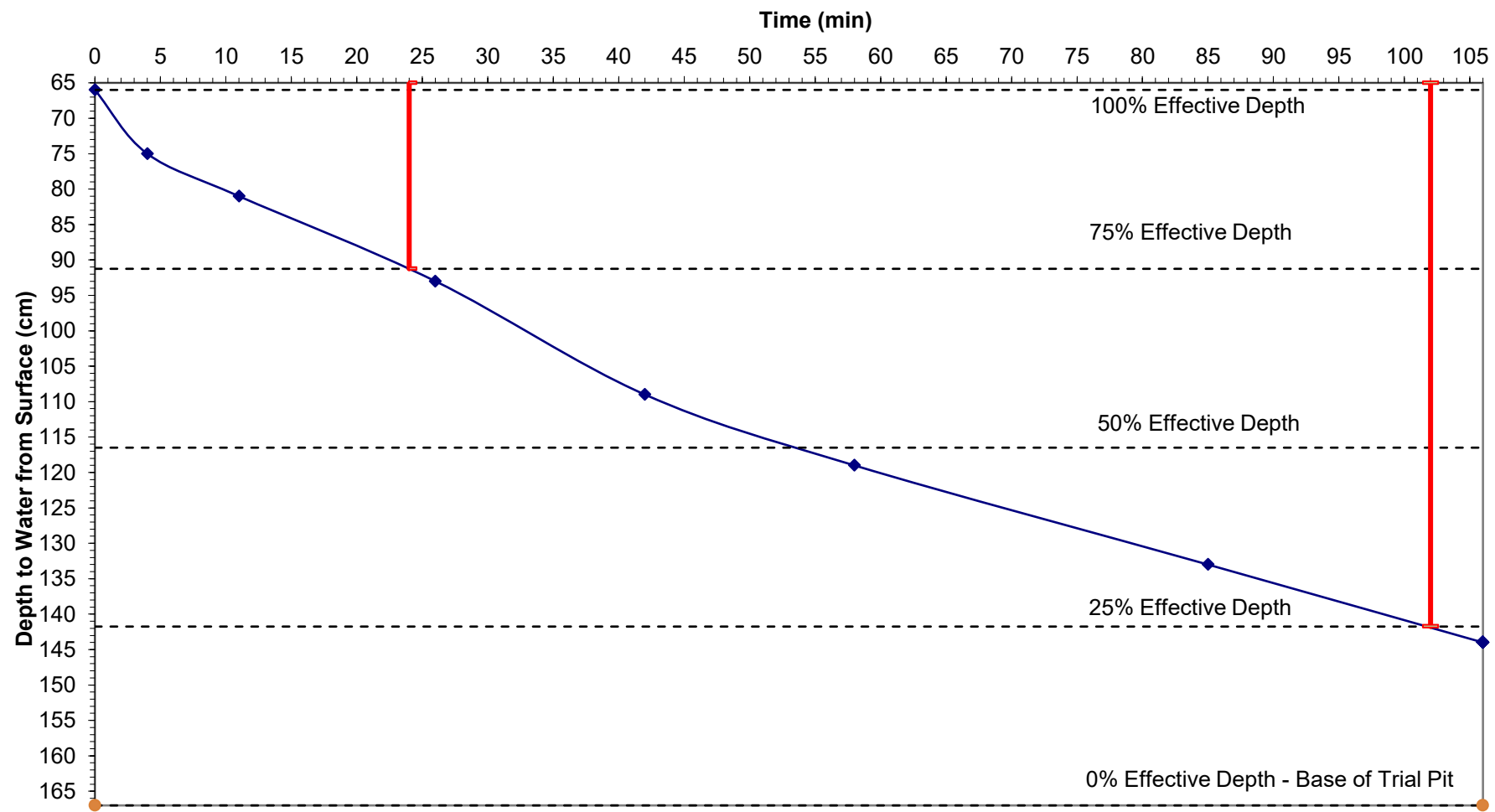
Site Engineer: AT  
Drafted by: JM  
Checked by: MP

Graph F-14

GEG-23-786

Old Sarum, Salisbury

IT05





## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT05  
**Test No.:** Test 3 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 170.00  |
| Depth of Water at Start of Depth (cm): | 67.00   |
| Date of Test:                          | 27.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-15**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT05            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 1.03            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.60            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.90            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.17            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.5871          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.72            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 35.90           |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 170.00          |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 134.1           |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>1.96E-05</b> |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit reexcavated to 1.70 m following completion of test 2.

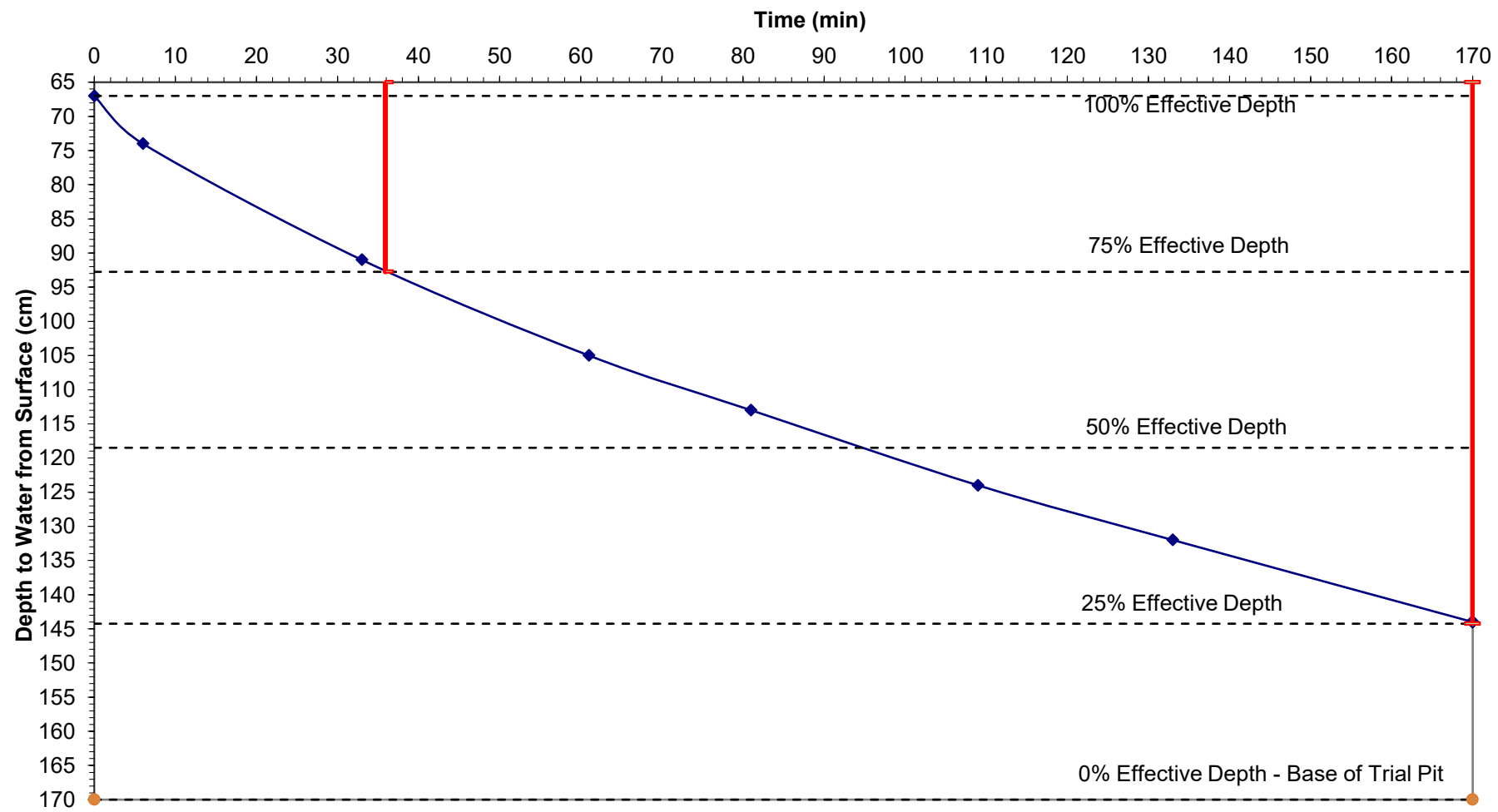
Site Engineer: AT  
Drafted by: JM  
Checked by: MP

Graph F-15

GEG-23-786

Old Sarum, Salisbury

IT05



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT06  
**Test No.:** Test 1 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 160.00  |
| Depth of Water at Start of Depth (cm): | 61.00   |
| Date of Test:                          | 27.4.23 |



Geo  
Environmental  
Group

[illegible]

*End of Test*

With Reference to: **Graph F-16**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT06            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 0.99            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.60            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.80            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.07            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.5346          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.46            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 5.80            |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 27.60           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 21.8            |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>1.18E-04</b> |

\*To 50% Effective Depth (including base)

Notes:

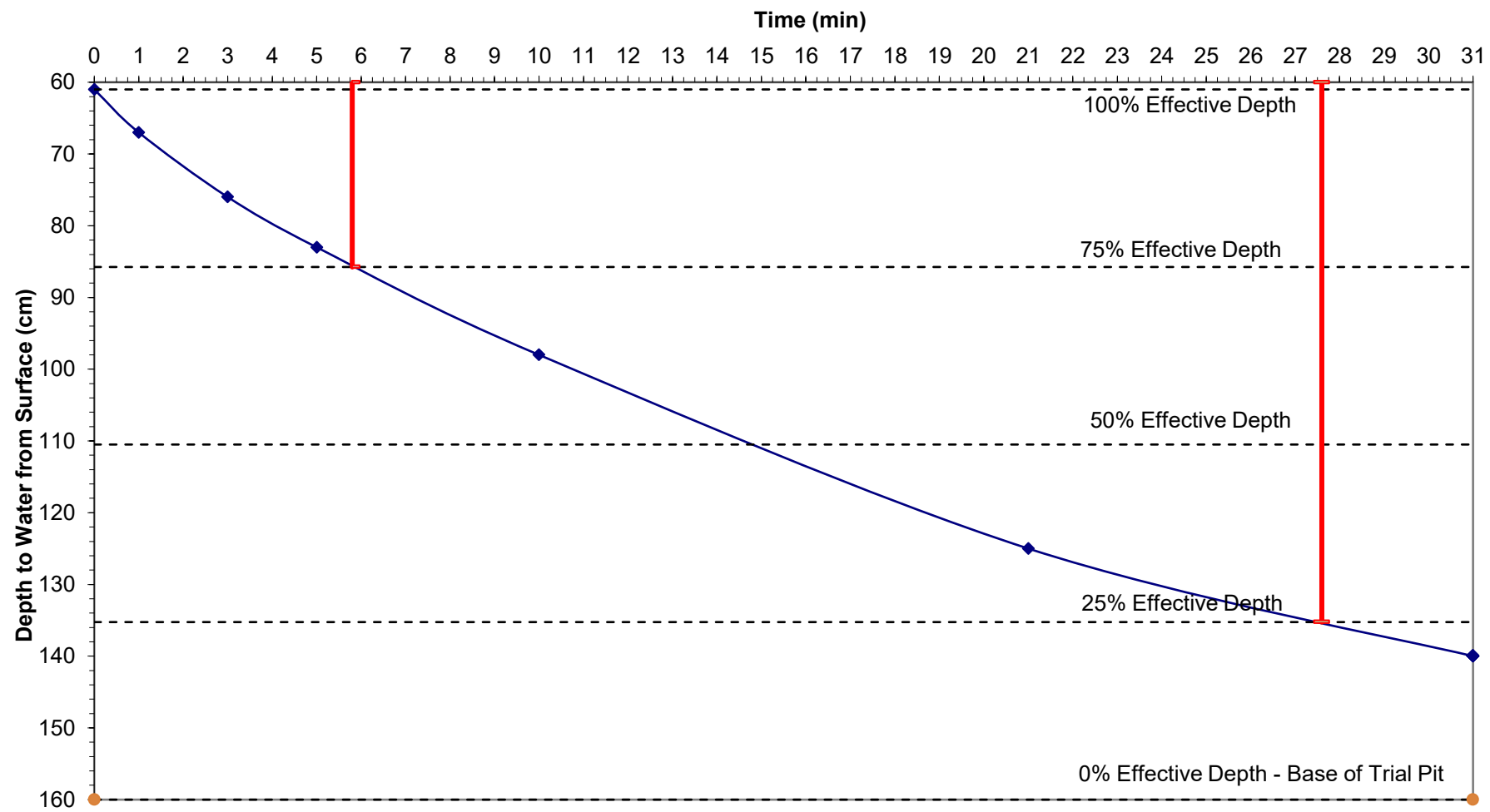
Site Engineer: AT  
Drafted by: JM  
Checked by: MP

Graph F-16

GEG-23-786

Old Sarum, Salisbury

IT06



## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT06  
**Test No.:** Test 2 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 140.00  |
| Depth of Water at Start of Depth (cm): | 46.00   |
| Date of Test:                          | 27.4.23 |



**Geo  
Environmental  
Group**

[illegible]

*End of Test*

With Reference to: **Graph F-17**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT06            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 0.94            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.60            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.80            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.02            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.5076          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.34            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 10.00           |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 44.00           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 34              |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>7.46E-05</b> |

\*To 50% Effective Depth (including base)

Notes:

[1] Base of pit at 1.40 m following slight collapse during Test 1.

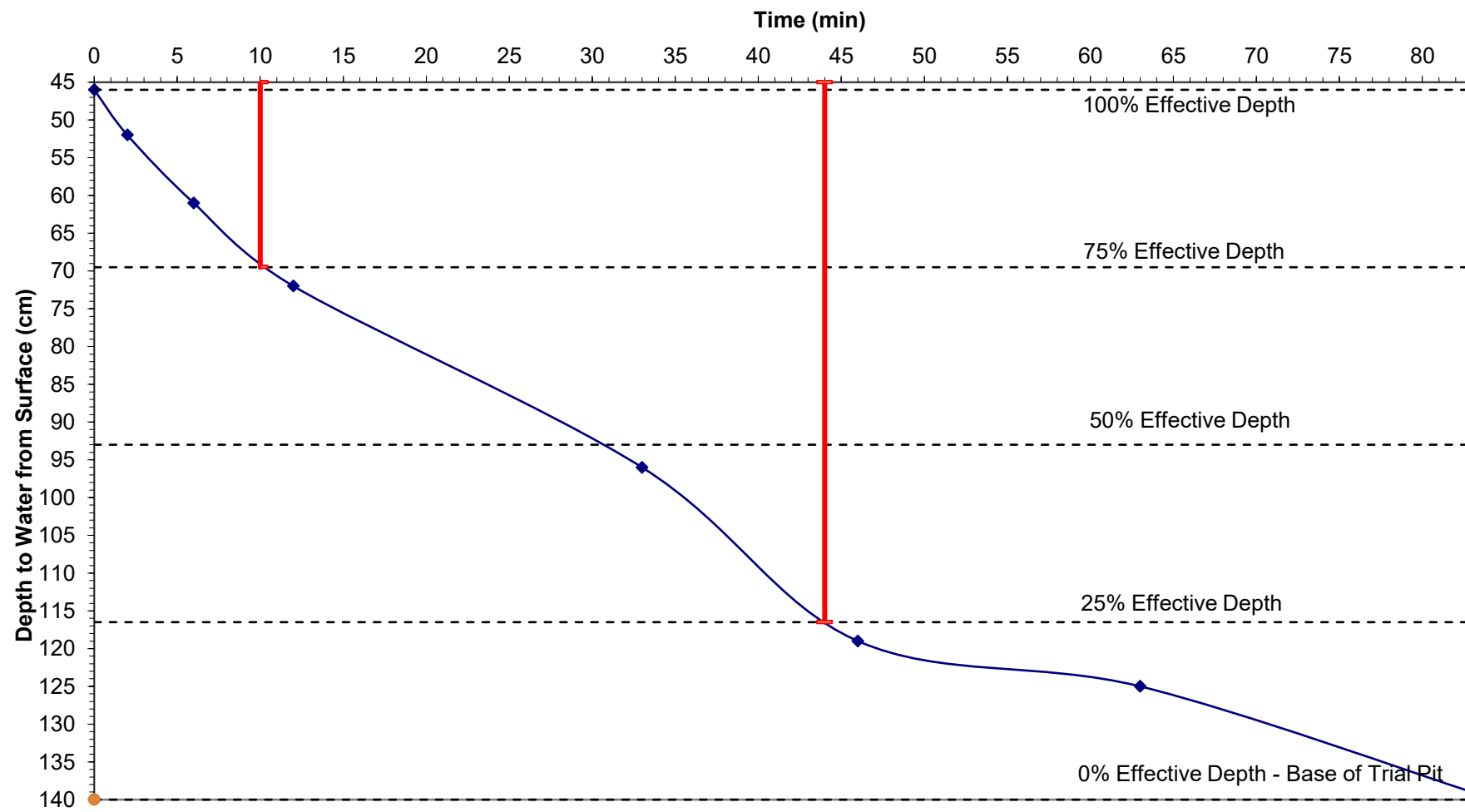
Site Engineer: AT  
Drafted by: JM  
Checked by: MP

Graph F-17

GEG-23-786

Old Sarum, Salisbury

IT06





## Infiltration Test

**Project Name:** Old Sarum, Salisbury  
**Project Ref.:** GEG-23-786  
**Trial Pit:** IT06  
**Test No.:** Test 3 of 3

|                                        |         |
|----------------------------------------|---------|
| Depth of Pit (cm):                     | 143.00  |
| Depth of Water at Start of Depth (cm): | 47.00   |
| Date of Test:                          | 27.4.23 |



Geo  
Environmental  
Group

[illegible]

---

*End of Test*

With Reference to: **Graph F-18**

| Parameter                                  | Symbol           | Calculation                                      | Units | IT06            |
|--------------------------------------------|------------------|--------------------------------------------------|-------|-----------------|
| Effective Depth of Trial Pit               | $d_p$            |                                                  | m     | 0.96            |
| Width of Trial Pit                         | $w$              |                                                  | m     | 0.60            |
| Length of Trial Pit                        | $l$              |                                                  | m     | 1.80            |
| Volume of Trial Pit                        | $V$              | $= d_p \times w \times l$                        | $m^3$ | 1.04            |
| Volume of Trial Pit at 50% Effective Depth | $V_{50\%}$       | $= V \times 0.5$                                 | $m^3$ | 0.5184          |
| Internal Surface Area of Trial Pit*        | $a_{p50\%}$      | $= l \times w + d_p \times (w + l)$              | $m^2$ | 3.38            |
| Time to reach 75% Effective Depth          | $T_{p75\%}$      |                                                  | min   | 21.00           |
| Time to reach 25% Effective Depth          | $T_{p25\%}$      |                                                  | min   | 95.00           |
| Time 25% - 75%                             | $T_{p75\%-25\%}$ | $= T_{p25\%} - T_{p75\%}$                        | min   | 74              |
|                                            |                  |                                                  |       |                 |
| Infiltration Rate                          | $f$              | $= V_{50\%} / a_{p50\%} \times (T_{p75\%-25\%})$ | m/s   | <b>3.45E-05</b> |

\*To 50% Effective Depth (including base)

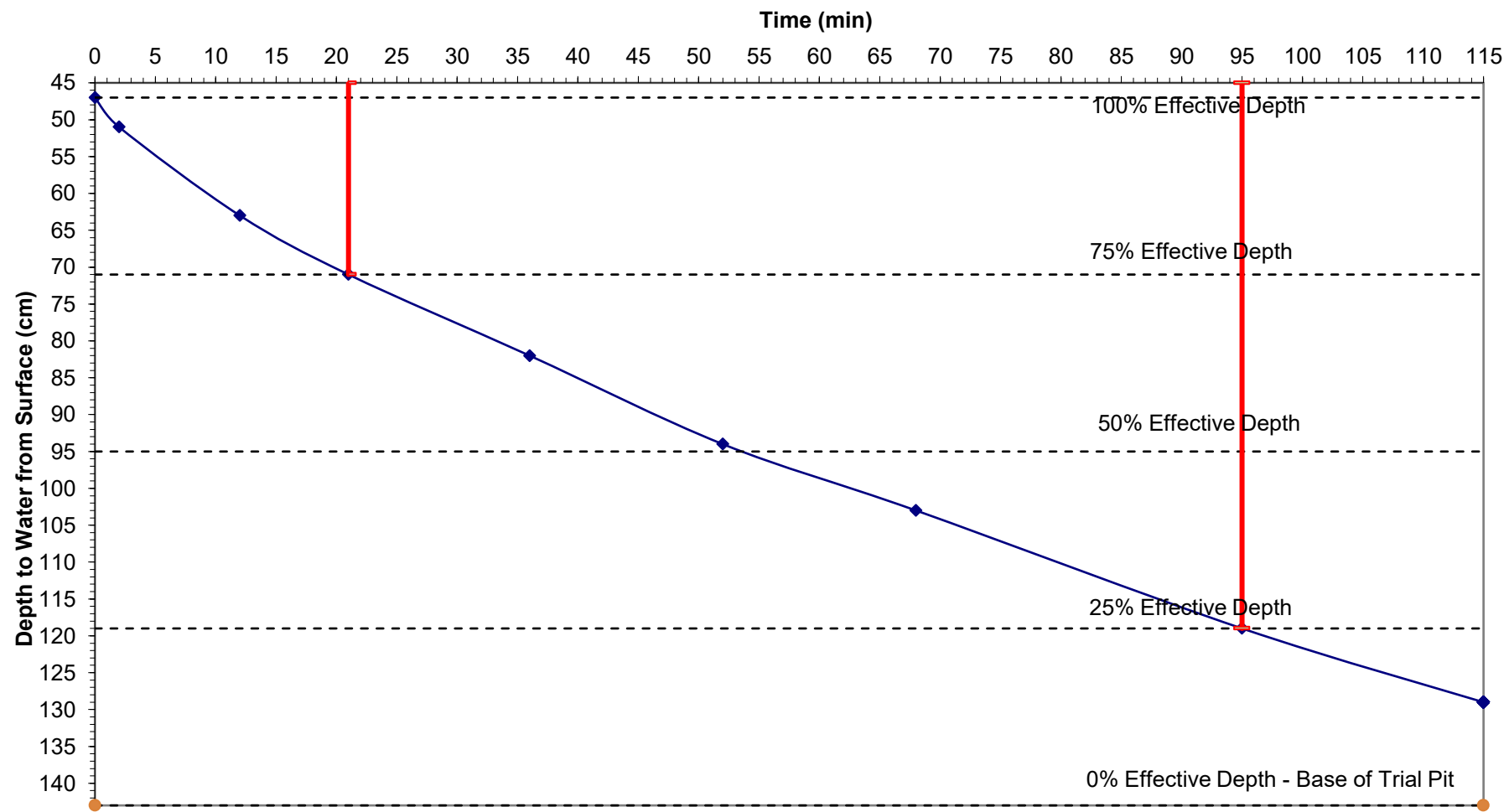
Site Engineer: AT  
Drafted by: JM  
Checked by: MP

Graph F-18

GEG-23-786

Old Sarum, Salisbury

IT06





## **APPENDIX I**

### **GEOTECHNICAL TESTING**

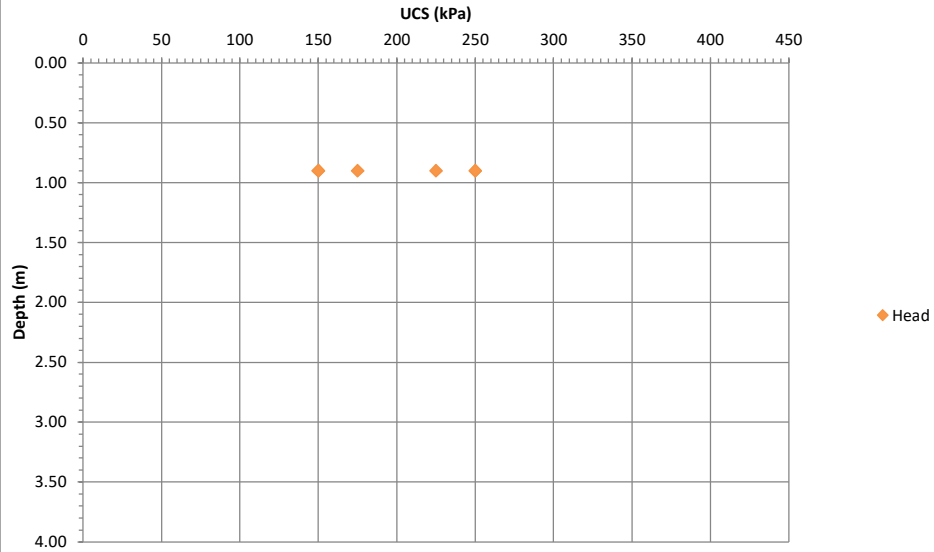
# Pocket Penetrometer Measurements

Project No.: GEG-23-786

Project: Land North of Bunting Lane, Old Sarum



Graph 1A. Pocket Penetrometer Unconfined Compressive Strength vs Depth



Graph 1B. Pocket Penetrometer Derived Undrained Shear Strength vs Depth

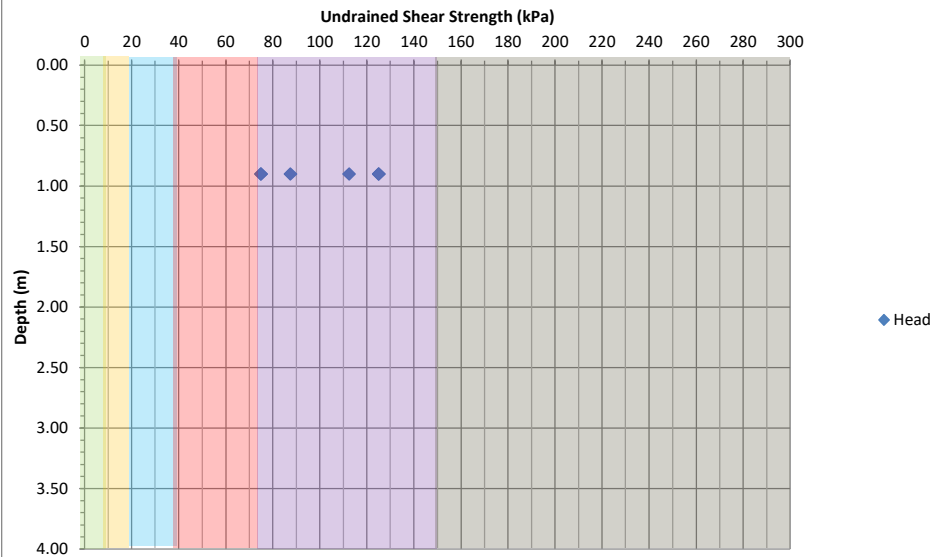


Table 9 Terms for classification of strength

| Term based on measurement | Undrained strength classification definition, $s_u$ , in kPa [from BS EN ISO 14688-2:2004, 5.3, Table 5] |
|---------------------------|----------------------------------------------------------------------------------------------------------|
| Extremely low strength    | <10                                                                                                      |
| Very low strength         | 10 – 20                                                                                                  |
| Low strength              | 20 – 40                                                                                                  |
| Medium strength           | 40 – 75                                                                                                  |
| High strength             | 75 – 150                                                                                                 |
| Very high strength        | 150 – 300                                                                                                |



# Laboratory Report



## Contract Number: 66205

Client Ref: **GEG-23-786**

Client PO: **4563**

Date Received: **03-05-2023**

Date Completed: **10-05-2023**

Report Date: **10-05-2023**

Client: **GEG Limited**  
**17 Graham Road**  
**Malvern**  
**Worcestershire**  
**WR14 2HR**

This report has been checked and approved by:



**Brendan Evans**  
Office Administrator

Contract Title: **Old Sarum, Salisbury**

For the attention of: **Alan Taylor**

| Test Description                                                                         | Qty |
|------------------------------------------------------------------------------------------|-----|
| <b>Samples Received</b><br>- @ Non Accredited Test                                       | 6   |
| <b>Moisture Content</b><br>BS 1377:1990 - Part 2 : 3.2 - * UKAS                          | 2   |
| <b>4 Point Liquid &amp; Plastic Limit</b><br>BS 1377:1990 - Part 2 : 4.3 & 5.3 - * UKAS  | 2   |
| <b>Saturated Moisture Content of chalk (SMC)</b><br>BS 1377:1990 - Part 2 : 3.3 - * UKAS | 11  |
| <b>Disposal of samples for job</b>                                                       | 1   |

**Notes:** Observations and Interpretations are outside the UKAS Accreditation

\* - denotes test included in laboratory scope of accreditation

# - denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This test report/certificate shall not be reproduced except in full, without the approval of GEO Site & Testing Services Ltd. Any opinions or interpretations stated - within this report/certificate are excluded from the laboratories UKAS accreditation.

**Approved Signatories:**

Brendan Evans (Office Administrator) - Darren Bourne (Quality Senior Technician) - Paul Evans (Director)  
Richard John (Quality/Technical Manager) - Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager)  
Wayne Honey (Human Resources/ Health and Safety Manager)

Aaron Hodge

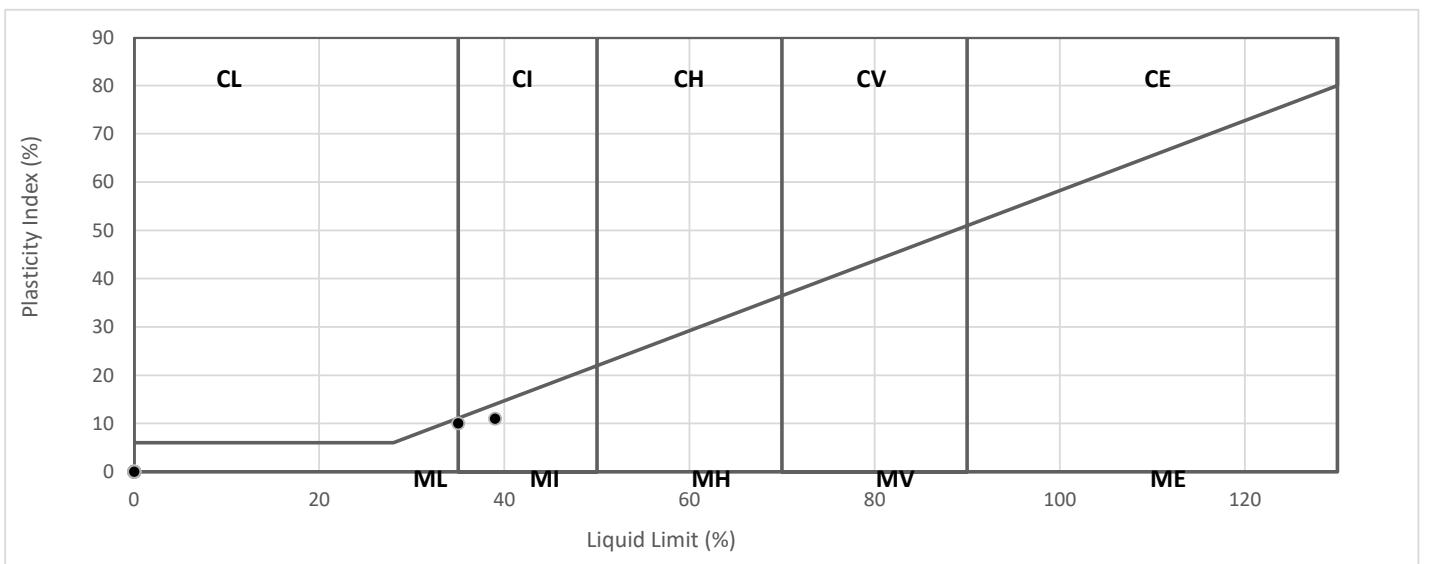


|                 |                      |  |
|-----------------|----------------------|--|
| Contract Number | 66205                |  |
| Project Name    | Old Sarum, Salisbury |  |
| Date Tested     | 04/05/2023           |  |

[illegible]

Symbols: NP : Non Plastic # : Liquid Limit and Plastic Limit Wet Sieved

### PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION BS 5930:2015+A1:2020



|             |
|-------------|
| Operator    |
| Aaron Hodge |

**Saturation Moisture Content of Chalk**  
**BS 1377 : Part 2 : 1990 Section 3.3**

|                 |                      |  |
|-----------------|----------------------|--|
| Contract Number | 66205                |  |
| Project Name    | Old Sarum, Salisbury |  |
| Date Tested     | 04/05/2023           |  |
|                 |                      |  |

[illegible]

| <u>Key</u>       | <u>Reported As</u> | <u>Clause</u> |
|------------------|--------------------|---------------|
| Moisture Content | %                  | 3.2           |
| Bulk Density     | Mg/m <sup>3</sup>  | 7.2           |
| Dry Density      | Mg/m <sup>3</sup>  | 7.2           |
| SMC              | %                  | 3.3.6         |

If there is a NON-STANDARD in the remarks next to the reported SMC result this means there was no lump of chalk of sufficient volume (300mL-500mL) present in the samples received to meet the testing requirements of the stated standard.

|              |
|--------------|
| Operator     |
| Julian Jones |



# Laboratory Report



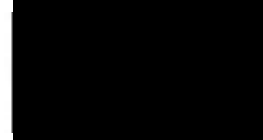
## Contract Number: 66182

Client Ref:  
Client PO: 4640

Date Received: 27-04-2023  
Date Completed: 27-04-2023  
Report Date: 27-04-2023

Client: **GEG Limited**  
**17 Graham Road**  
**Malvern**  
**Worcestershire**  
**WR14 2HR**

This report has been checked and approved by:



**Shaun Thomas**  
Site Manager

Contract Title: **Old Sarum, SP4 6PU**  
For the attention of: **Alan Taylor**

| Test Description                                                                                                                                                                     | Qty |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| <b>Determination of the in-situ California Bearing Ratio Rate includes mobilisation of technician and 4 x 4 and provision of equipment.</b><br>BS 1377:1990 - Part 9 Cl 4.3 - * UKAS | 1   |

**Notes:** Observations and Interpretations are outside the UKAS Accreditation  
\* - denotes test included in laboratory scope of accreditation  
# - denotes test carried out by approved contractor  
@ - denotes non accredited tests

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**Approved Signatories:**

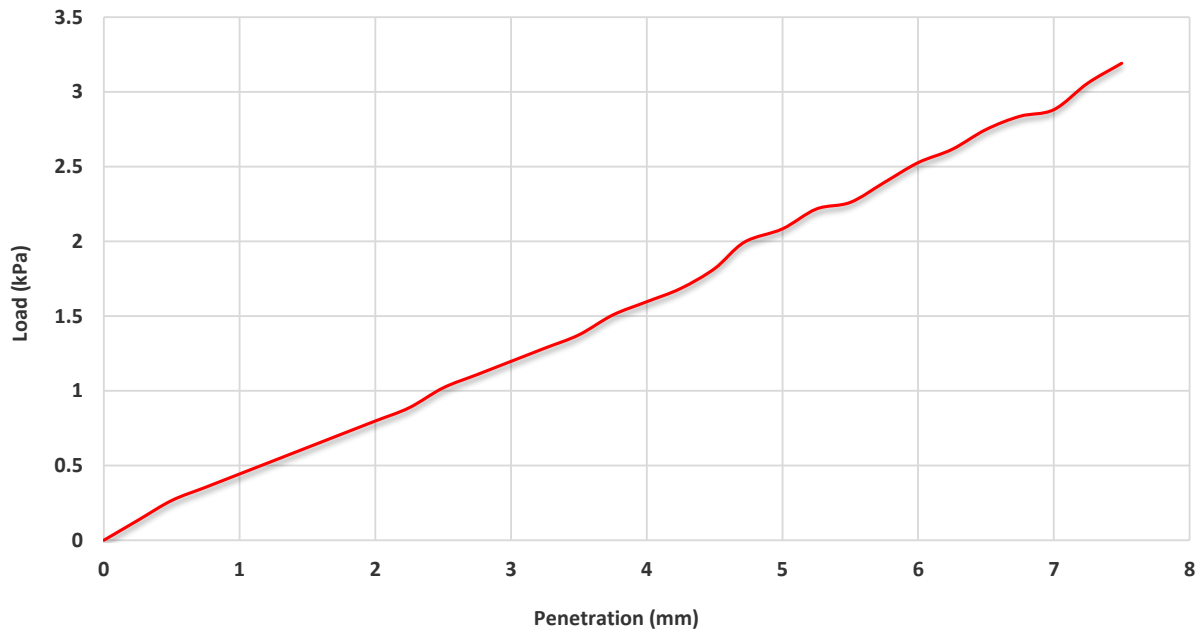
Brendan Evans (Office Administrator) - Darren Bourne (Quality Senior Technician) - Paul Evans (Director)  
Richard John (Quality/Technical Manager) - Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager)  
Wayne Honey (Human Resources/ Health and Safety Manager)



**Determination of the Insitu California Bearing Ratio  
BS 1377: Part 9: 1990 Clause 4.3**

|                  |             |
|------------------|-------------|
| Contract Number  | 66182       |
| Client Reference | 4640        |
| Test Date        | 26/04/2023  |
| Test Location    | CBR 1       |
| Test Depth (m)   | 0.20        |
| Kentledge Type   | Back of 4x4 |

|                  |                                                |
|------------------|------------------------------------------------|
| Client           | GEG Limited                                    |
| Site Location    | Old Sarum, SP4 6PU                             |
| Soil Description | Brown fine to medium gravelly sandy silty CLAY |



|               |           |
|---------------|-----------|
| C.B.R Value % | <b>10</b> |
|---------------|-----------|

|                            |     |
|----------------------------|-----|
| Weather Conditions         | Dry |
| Surcharge (kg)             | 9   |
| Material Above 20mm (est.) | N/A |
| Moisture Content (%)       | 8.2 |

**Remarks:**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material tested by the laboratory.

|               |                           |            |              |
|---------------|---------------------------|------------|--------------|
| Test Operator | Checked and Authorised by |            | Shaun Thomas |
| Ashley Davies | Date                      | 27/04/2023 |              |

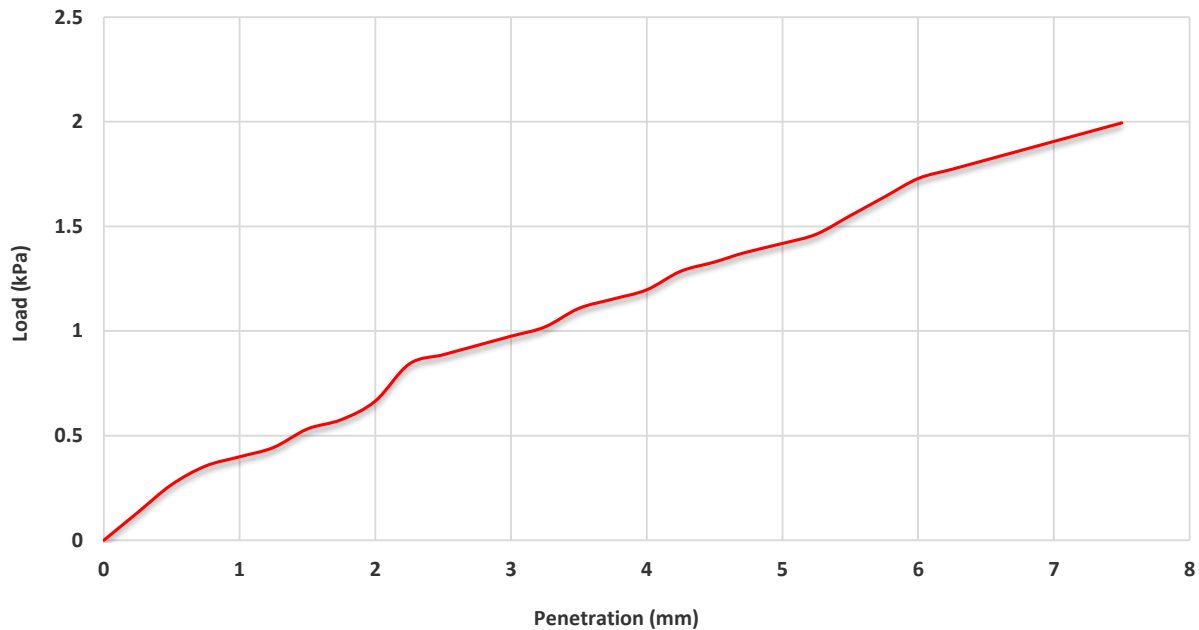




**Determination of the Insitu California Bearing Ratio  
BS 1377: Part 9: 1990 Clause 4.3**

|                  |             |
|------------------|-------------|
| Contract Number  | 66182       |
| Client Reference | 4640        |
| Test Date        | 26/04/2023  |
| Test Location    | CBR 2       |
| Test Depth (m)   | 0.25        |
| Kentledge Type   | Back of 4x4 |

|                  |                                                |
|------------------|------------------------------------------------|
| Client           | GEG Limited                                    |
| Site Location    | Old Sarum, SP4 6PU                             |
| Soil Description | Brown fine to medium gravelly sandy silty CLAY |



|               |            |
|---------------|------------|
| C.B.R Value % | <b>7.1</b> |
|---------------|------------|

|                            |     |
|----------------------------|-----|
| Weather Conditions         | Dry |
| Surcharge (kg)             | 9   |
| Material Above 20mm (est.) | N/A |
| Moisture Content (%)       | 4.4 |

**Remarks:**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material tested by the laboratory.

|               |                           |              |
|---------------|---------------------------|--------------|
| Test Operator | Checked and Authorised by | Shaun Thomas |
| Ashley Davies | Date 27/04/2023           |              |

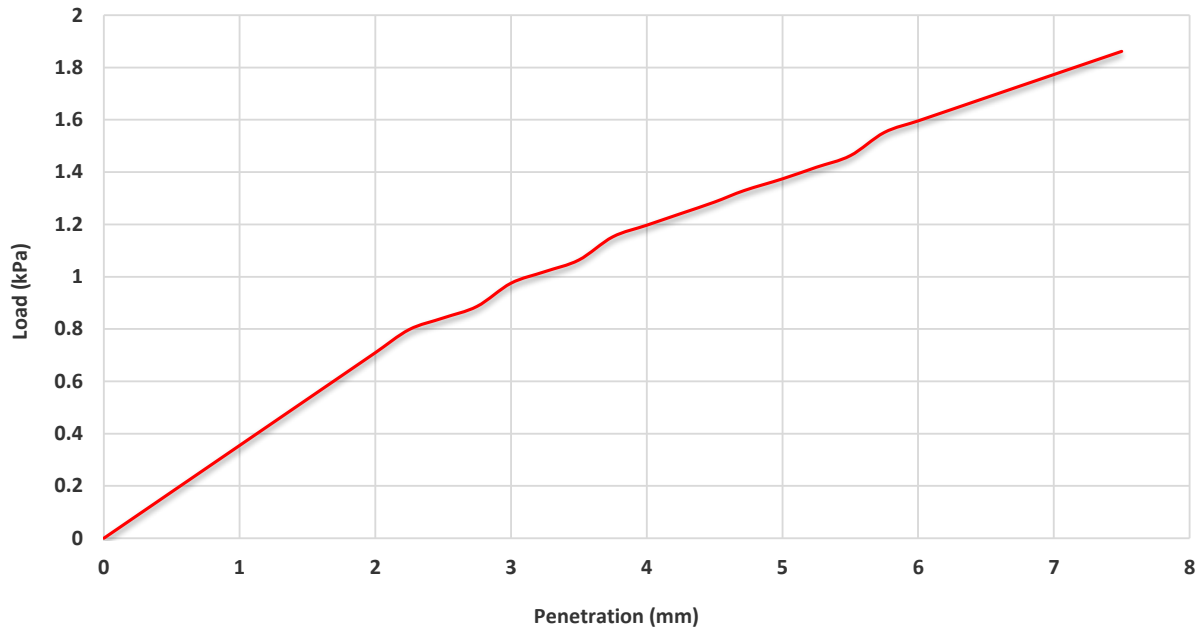




**Determination of the Insitu California Bearing Ratio**  
**BS 1377: Part 9: 1990 Clause 4.3**

|                  |             |
|------------------|-------------|
| Contract Number  | 66182       |
| Client Reference | 4640        |
| Test Date        | 26/04/2023  |
| Test Location    | CBR 3       |
| Test Depth (m)   | 0.25        |
| Kentledge Type   | Back of 4x4 |

|                  |                                                |
|------------------|------------------------------------------------|
| Client           | GEG Limited                                    |
| Site Location    | Old Sarum, SP4 6PU                             |
| Soil Description | Brown fine to medium gravelly sandy silty CLAY |



|               |            |
|---------------|------------|
| C.B.R Value % | <b>6.9</b> |
|---------------|------------|

|                            |     |
|----------------------------|-----|
| Weather Conditions         | Dry |
| Surcharge (kg)             | 9   |
| Material Above 20mm (est.) | N/A |
| Moisture Content (%)       | 4.0 |

**Remarks:**

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|               |                           |            |              |
|---------------|---------------------------|------------|--------------|
| Test Operator | Checked and Authorised by |            | Shaun Thomas |
| Ashley Davies | Date                      | 27/04/2023 |              |



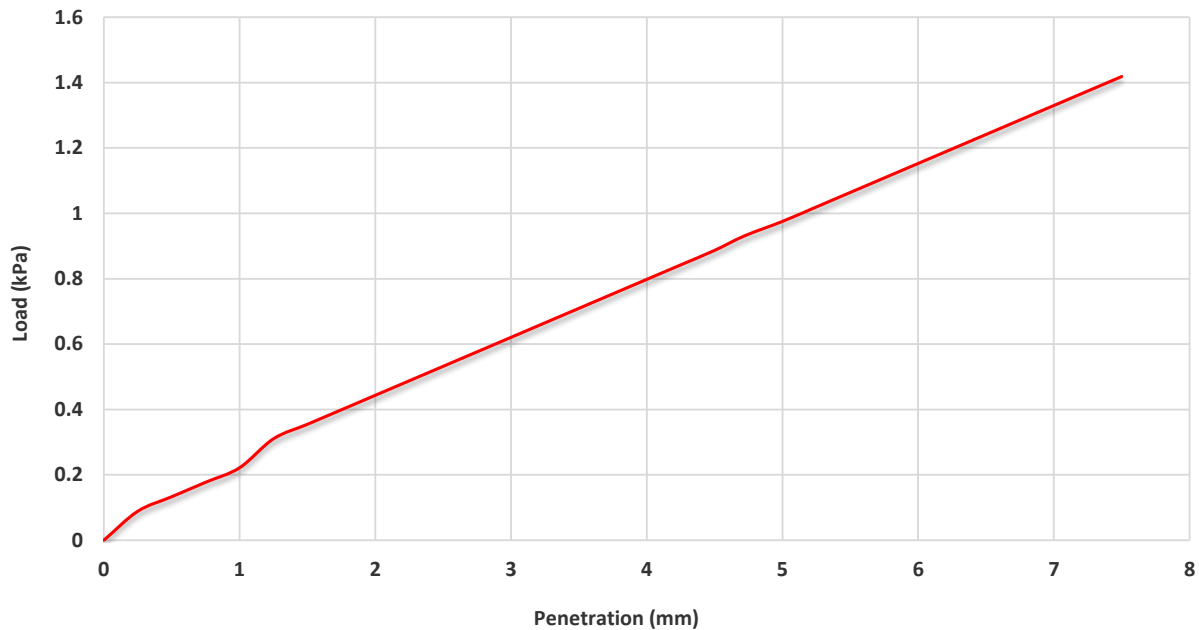




**Determination of the Insitu California Bearing Ratio  
BS 1377: Part 9: 1990 Clause 4.3**

|                  |             |
|------------------|-------------|
| Contract Number  | 66182       |
| Client Reference | 4640        |
| Test Date        | 26/04/2023  |
| Test Location    | CBR 4       |
| Test Depth (m)   | 0.30        |
| Kentledge Type   | Back of 4x4 |

|                  |                                                |
|------------------|------------------------------------------------|
| Client           | GEG Limited                                    |
| Site Location    | Old Sarum, SP4 6PU                             |
| Soil Description | Brown fine to medium gravelly sandy silty CLAY |



|               |     |
|---------------|-----|
| C.B.R Value % | 4.9 |
|---------------|-----|

|                            |     |
|----------------------------|-----|
| Weather Conditions         | Dry |
| Surcharge (kg)             | 9   |
| Material Above 20mm (est.) | N/A |
| Moisture Content (%)       | 5.7 |

**Remarks:**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material tested by the laboratory.

|               |                           |              |
|---------------|---------------------------|--------------|
| Test Operator | Checked and Authorised by | Shaun Thomas |
| Ashley Davies | Date 27/04/2023           |              |

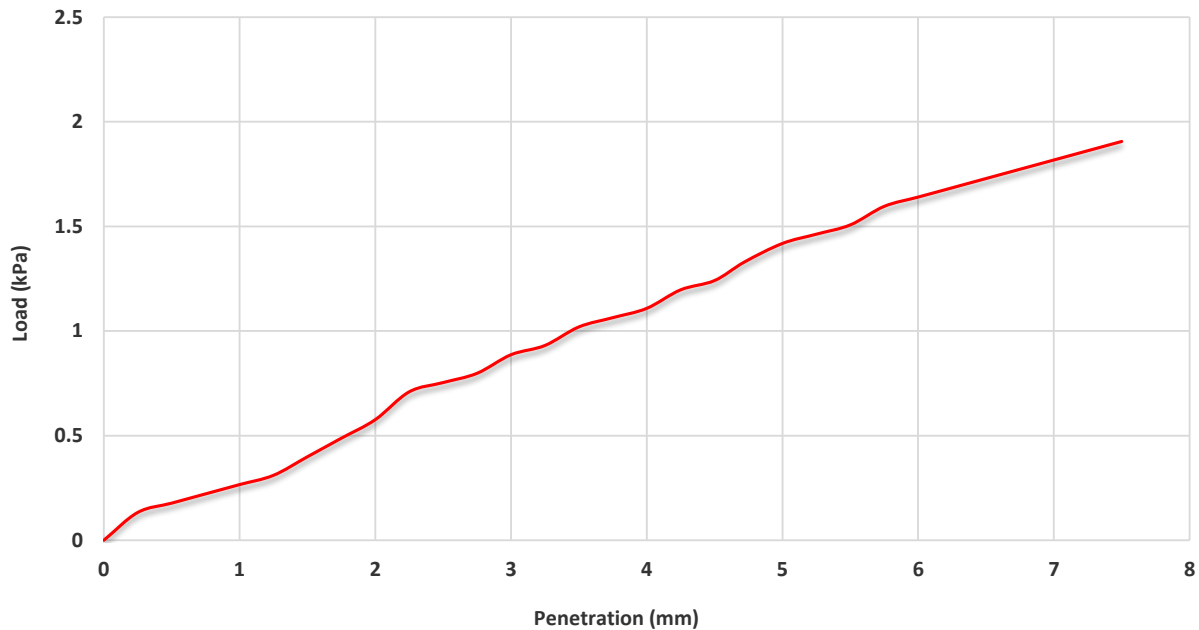




**Determination of the Insitu California Bearing Ratio  
BS 1377: Part 9: 1990 Clause 4.3**

|                  |             |
|------------------|-------------|
| Contract Number  | 66182       |
| Client Reference | 4640        |
| Test Date        | 26/04/2023  |
| Test Location    | CBR 5       |
| Test Depth (m)   | 0.25        |
| Kentledge Type   | Back of 4x4 |

|                  |                                                |
|------------------|------------------------------------------------|
| Client           | GEG Limited                                    |
| Site Location    | Old Sarum, SP4 6PU                             |
| Soil Description | Brown fine to medium gravelly sandy silty CLAY |



|               |            |
|---------------|------------|
| C.B.R Value % | <b>7.1</b> |
|---------------|------------|

|                            |     |
|----------------------------|-----|
| Weather Conditions         | Dry |
| Surcharge (kg)             | 9   |
| Material Above 20mm (est.) | N/A |
| Moisture Content (%)       | 5.0 |

**Remarks:**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material tested by the laboratory.

|               |                           |              |
|---------------|---------------------------|--------------|
| Test Operator | Checked and Authorised by | Shaun Thomas |
| Ashley Davies | Date 27/04/2023           |              |

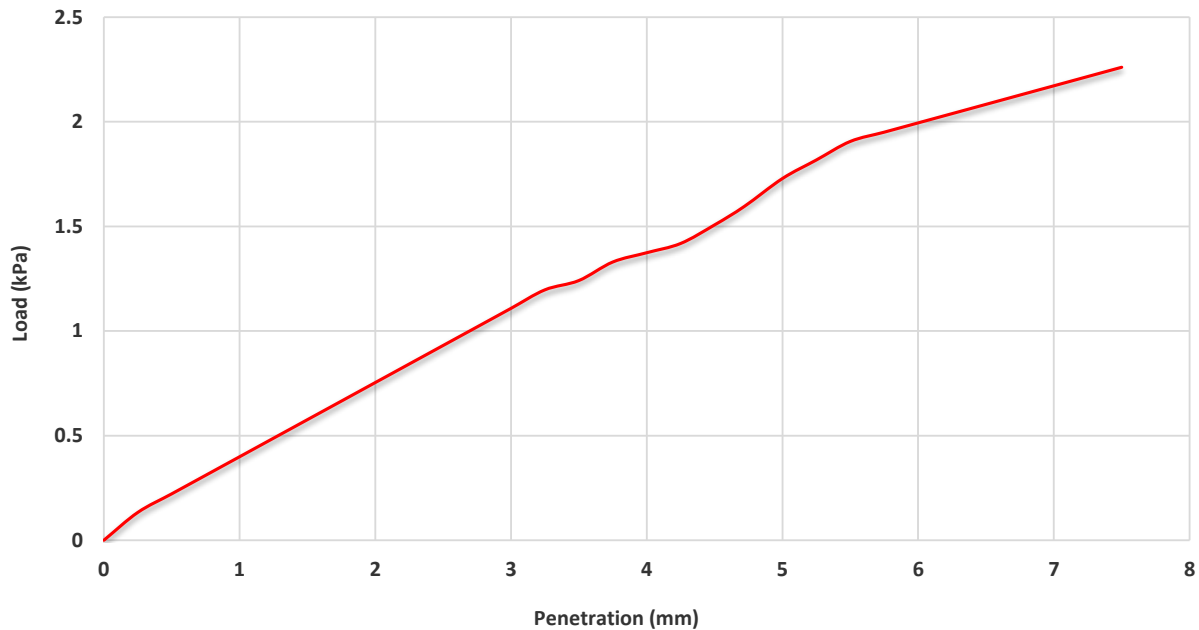




**Determination of the Insitu California Bearing Ratio  
BS 1377: Part 9: 1990 Clause 4.3**

|                  |             |
|------------------|-------------|
| Contract Number  | 66182       |
| Client Reference | 4640        |
| Test Date        | 26/04/2023  |
| Test Location    | CBR 6       |
| Test Depth (m)   | 0.20        |
| Kentledge Type   | Back of 4x4 |

|                  |                                                |
|------------------|------------------------------------------------|
| Client           | GEG Limited                                    |
| Site Location    | Old Sarum, SP4 6PU                             |
| Soil Description | Brown fine to medium gravelly sandy silty CLAY |



|               |            |
|---------------|------------|
| C.B.R Value % | <b>8.6</b> |
|---------------|------------|

|                            |     |
|----------------------------|-----|
| Weather Conditions         | Dry |
| Surcharge (kg)             | 9   |
| Material Above 20mm (est.) | N/A |
| Moisture Content (%)       | 5.4 |

**Remarks:**

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|               |                           |            |              |
|---------------|---------------------------|------------|--------------|
| Test Operator | Checked and Authorised by |            | Shaun Thomas |
| Ashley Davies | Date                      | 27/04/2023 |              |

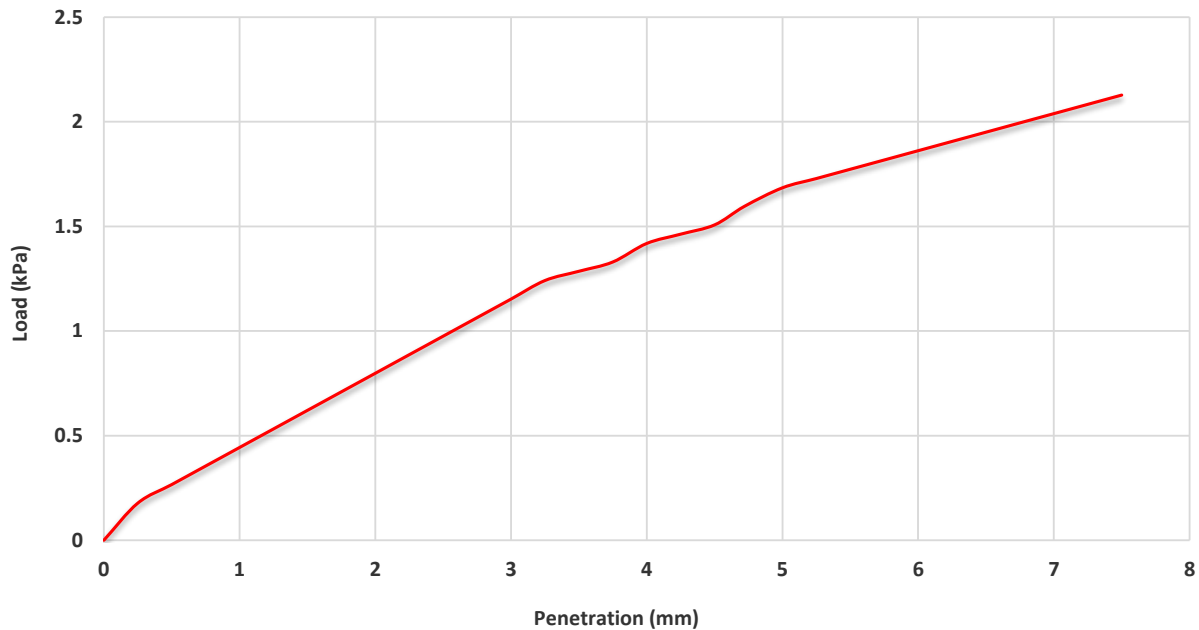




**Determination of the Insitu California Bearing Ratio  
BS 1377: Part 9: 1990 Clause 4.3**

|                  |             |
|------------------|-------------|
| Contract Number  | 66182       |
| Client Reference | 4640        |
| Test Date        | 26/04/2023  |
| Test Location    | CBR 7       |
| Test Depth (m)   | 0.30        |
| Kentledge Type   | Back of 4x4 |

|                  |                                                |
|------------------|------------------------------------------------|
| Client           | GEG Limited                                    |
| Site Location    | Old Sarum, SP4 6PU                             |
| Soil Description | Brown fine to medium gravelly sandy silty CLAY |



|               |     |
|---------------|-----|
| C.B.R Value % | 8.4 |
|---------------|-----|

|                            |      |
|----------------------------|------|
| Weather Conditions         | Dry  |
| Surcharge (kg)             | 9    |
| Material Above 20mm (est.) | N/A  |
| Moisture Content (%)       | 10.0 |

**Remarks:**

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|               |                           |            |              |
|---------------|---------------------------|------------|--------------|
| Test Operator | Checked and Authorised by |            | Shaun Thomas |
| Ashley Davies | Date                      | 27/04/2023 |              |

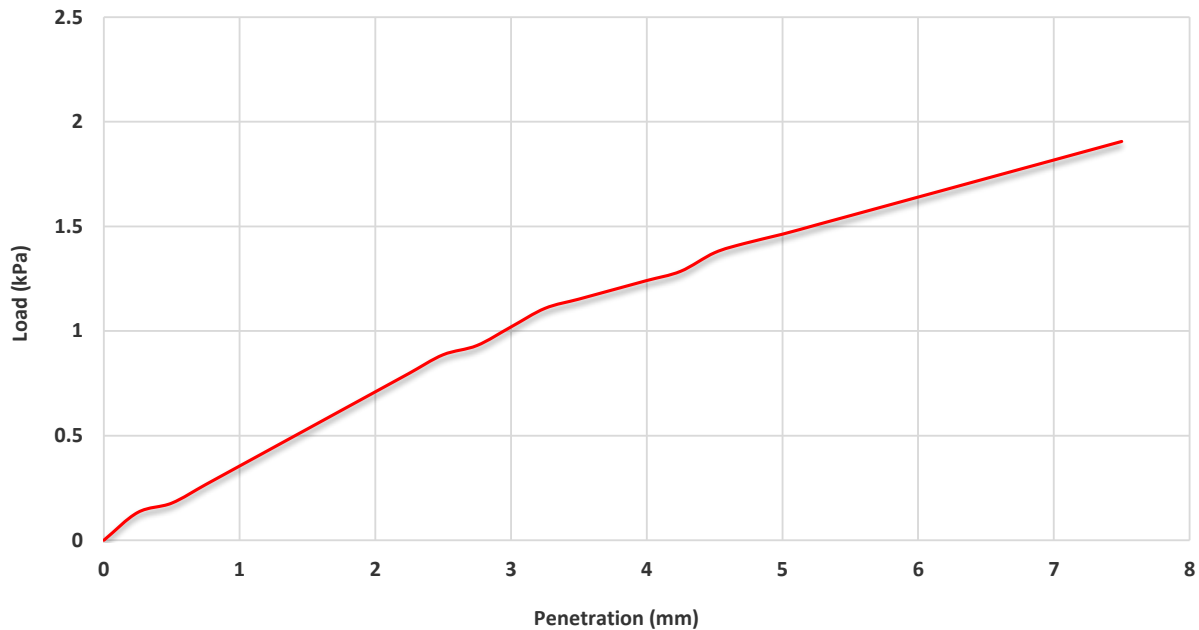




**Determination of the Insitu California Bearing Ratio  
BS 1377: Part 9: 1990 Clause 4.3**

|                  |             |
|------------------|-------------|
| Contract Number  | 66182       |
| Client Reference | 4640        |
| Test Date        | 26/04/2023  |
| Test Location    | CBR 8       |
| Test Depth (m)   | 0.25        |
| Kentledge Type   | Back of 4x4 |

|                  |                                                |
|------------------|------------------------------------------------|
| Client           | GEG Limited                                    |
| Site Location    | Old Sarum, SP4 6PU                             |
| Soil Description | Brown fine to medium gravelly sandy silty CLAY |



|               |            |
|---------------|------------|
| C.B.R Value % | <b>7.3</b> |
|---------------|------------|

|                            |     |
|----------------------------|-----|
| Weather Conditions         | Dry |
| Surcharge (kg)             | 9   |
| Material Above 20mm (est.) | N/A |
| Moisture Content (%)       | 6.6 |

**Remarks:**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material tested by the laboratory.

|               |                           |              |
|---------------|---------------------------|--------------|
| Test Operator | Checked and Authorised by | Shaun Thomas |
| Ashley Davies | Date 27/04/2023           |              |

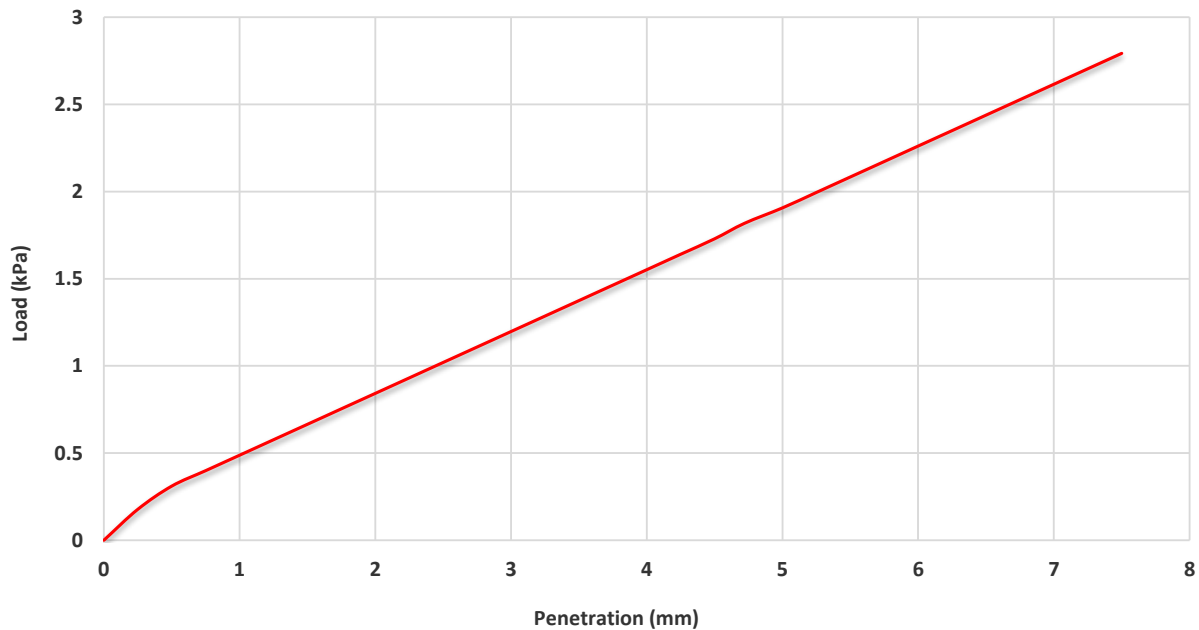




**Determination of the Insitu California Bearing Ratio  
BS 1377: Part 9: 1990 Clause 4.3**

|                  |             |
|------------------|-------------|
| Contract Number  | 66182       |
| Client Reference | 4640        |
| Test Date        | 26/04/2023  |
| Test Location    | CBR 9       |
| Test Depth (m)   | 0.25        |
| Kentledge Type   | Back of 4x4 |

|                  |                                                |
|------------------|------------------------------------------------|
| Client           | GEG Limited                                    |
| Site Location    | Old Sarum, SP4 6PU                             |
| Soil Description | Brown fine to medium gravelly sandy silty CLAY |



|               |     |
|---------------|-----|
| C.B.R Value % | 9.5 |
|---------------|-----|

|                            |     |
|----------------------------|-----|
| Weather Conditions         | Dry |
| Surcharge (kg)             | 9   |
| Material Above 20mm (est.) | N/A |
| Moisture Content (%)       | 4.7 |

**Remarks:**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material tested by the laboratory.

|               |                           |            |              |
|---------------|---------------------------|------------|--------------|
| Test Operator | Checked and Authorised by |            | Shaun Thomas |
| Ashley Davies | Date                      | 27/04/2023 |              |



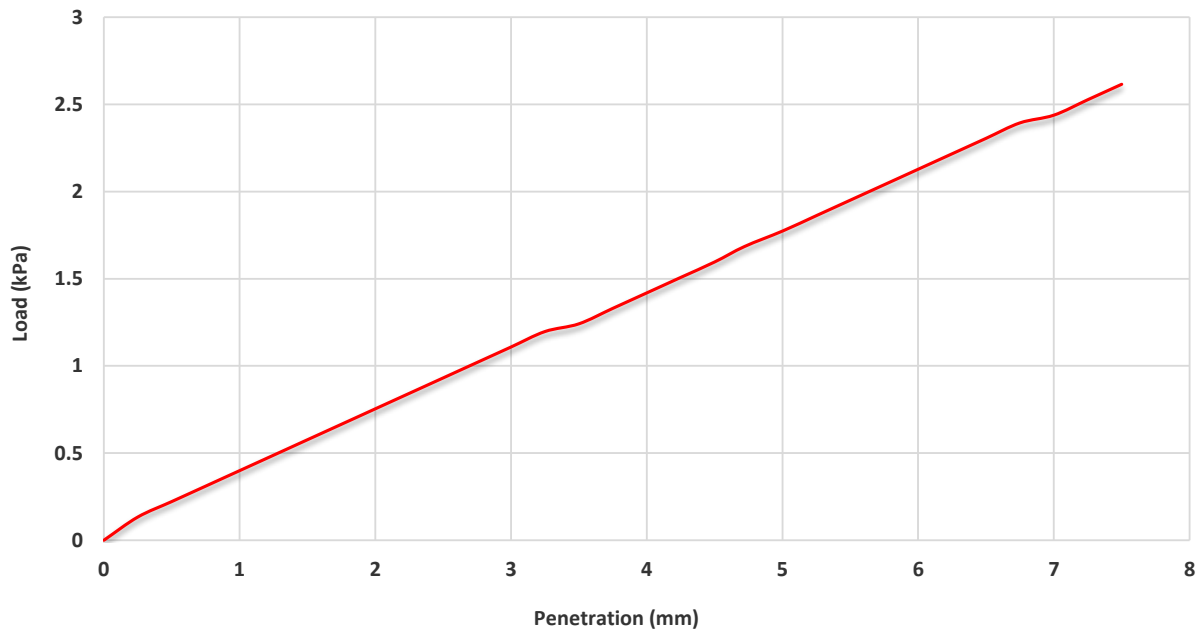




**Determination of the Insitu California Bearing Ratio  
BS 1377: Part 9: 1990 Clause 4.3**

|                  |             |
|------------------|-------------|
| Contract Number  | 66182       |
| Client Reference | 4640        |
| Test Date        | 26/04/2023  |
| Test Location    | CBR 10      |
| Test Depth (m)   | 0.27        |
| Kentledge Type   | Back of 4x4 |

|                  |                                                |
|------------------|------------------------------------------------|
| Client           | GEG Limited                                    |
| Site Location    | Old Sarum, SP4 6PU                             |
| Soil Description | Brown fine to medium gravelly sandy silty CLAY |



|               |            |
|---------------|------------|
| C.B.R Value % | <b>8.9</b> |
|---------------|------------|

|                            |     |
|----------------------------|-----|
| Weather Conditions         | Dry |
| Surcharge (kg)             | 9   |
| Material Above 20mm (est.) | N/A |
| Moisture Content (%)       | 5.3 |

**Remarks:**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material tested by the laboratory.

|               |                           |              |
|---------------|---------------------------|--------------|
| Test Operator | Checked and Authorised by | Shaun Thomas |
| Ashley Davies | Date 27/04/2023           |              |





## **APPENDIX J**

### **CHEMICAL ANALYSIS RESULTS**

**Alan Taylor**  
Geo Environmental Group  
17 Graham Road  
Malvern  
Worcestershire  
WR14 2HR

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

**t:** 01684212526

**e:** Geo Environmental

**t:** 01923 225404

**f:** 01923 237404

**e:** reception@i2analytical.com

## **Analytical Report Number : 23-31232**

|                             |                      |                                                        |            |
|-----------------------------|----------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Old Sarum, Sailsbury | <b>Samples received on:</b>                            | 02/05/2023 |
| <b>Your job number:</b>     | GEG-23-786           | <b>Samples instructed on/<br/>Analysis started on:</b> | 02/05/2023 |
| <b>Your order number:</b>   | 4664                 | <b>Analysis completed by:</b>                          | 09/05/2023 |
| <b>Report Issue Number:</b> | 1                    | <b>Report issued on:</b>                               | 09/05/2023 |
| <b>Samples Analysed:</b>    | 21 soil samples      |                                                        |            |

**Signed:**

Dominika Warjan  
Junior Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

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

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

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

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

Excel copies of reports are only valid when accompanied by this PDF certificate.

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

Analytical Report Number: 23-31232  
Project / Site name: Old Sarum, Salisbury  
Your Order No: 4664

| Lab Sample Number                       |       |                    |                         | 2664570       | 2664571       | 2664572       | 2664573       | 2664574       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | IT01          | SP01          | SP02          | SP03          | SP04          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.40          | None Supplied | None Supplied | None Supplied | None Supplied |
| Date Sampled                            |       |                    |                         | 26/04/2023    | 27/04/2023    | 27/04/2023    | 27/04/2023    | 27/04/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | 58            | 42            | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 12            | 15            | 17            | 16            | 18            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 1.4           | 2             | 2             | 2             | 2             |

|                     |      |     |           |     |     |     |     |     |
|---------------------|------|-----|-----------|-----|-----|-----|-----|-----|
| Asbestos in Soil    | Type | N/A | ISO 17025 | -   | -   | -   | -   | -   |
| Asbestos Analyst ID | N/A  | N/A | N/A       | N/A | N/A | N/A | N/A | N/A |

#### General Inorganics

|                                                             |          |         |        |       |       |       |       |       |
|-------------------------------------------------------------|----------|---------|--------|-------|-------|-------|-------|-------|
| pH - Automated                                              | pH Units | N/A     | MCERTS | 10.8  | 7.8   | 7.7   | 7.8   | 8     |
| Total Cyanide                                               | mg/kg    | 1       | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Free Cyanide                                                | mg/kg    | 1       | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Total Sulphate as SO4                                       | %        | 0.005   | MCERTS | 0.375 | 0.143 | 0.141 | 0.127 | 0.141 |
| Water Soluble Sulphate as SO4 16hr extraction (2:1)         | mg/kg    | 2.5     | MCERTS | 490   | 120   | 47    | 340   | 28    |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.25  | 0.059 | 0.023 | 0.17  | 0.014 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 246   | 58.7  | 23.3  | 171   | 14    |
| Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction        | g/l      | 0.00125 | MCERTS | -     | -     | -     | -     | -     |
| Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction        | mg/kg    | 2.5     | MCERTS | -     | -     | -     | -     | -     |
| Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction        | mg/l     | 1.25    | MCERTS | -     | -     | -     | -     | -     |
| Sulphide                                                    | mg/kg    | 1       | MCERTS | 46    | < 1.0 | 1.2   | < 1.0 | < 1.0 |
| Organic Matter (automated)                                  | %        | 0.1     | MCERTS | 2.5   | 4.7   | 5.3   | 4     | 4.7   |

#### Total Phenols

|                            |       |   |        |       |       |       |       |       |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|

#### Speciated PAHs

|                        |       |      |           |        |        |        |        |        |
|------------------------|-------|------|-----------|--------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | < 0.05 | 0.09   | 0.09   | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.06   | < 0.05 | 0.12   | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.05   | < 0.05 | 0.11   | < 0.05 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 0.62   | 0.59   | 1.7    | < 0.05 | 0.09   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.19   | 0.1    | 0.31   | < 0.05 | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 1.5    | 1.3    | 3      | 0.07   | 0.13   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 1.4    | 1.2    | 2.8    | 0.07   | 0.1    |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 0.98   | 0.63   | 1.5    | < 0.05 | 0.05   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 0.8    | 0.61   | 1.3    | < 0.05 | 0.06   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 1.1    | 0.8    | 1.8    | < 0.05 | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.53   | 0.28   | 0.55   | < 0.05 | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 0.84   | 0.6    | 1.4    | < 0.05 | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.52   | 0.33   | 0.83   | < 0.05 | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.12   | 0.07   | 0.17   | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.63   | 0.41   | 0.98   | < 0.05 | < 0.05 |

#### Total PAH

|                             |       |     |           |      |      |      |        |        |
|-----------------------------|-------|-----|-----------|------|------|------|--------|--------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 9.35 | 6.93 | 16.6 | < 0.80 | < 0.80 |
|-----------------------------|-------|-----|-----------|------|------|------|--------|--------|

Analytical Report Number: 23-31232  
Project / Site name: Old Sarum, Salisbury  
Your Order No: 4664

| Lab Sample Number                       |  |  |  | 2664570       | 2664571            | 2664572              | 2664573       | 2664574       |
|-----------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Sample Reference                        |  |  |  | IT01          | SP01               | SP02                 | SP03          | SP04          |
| Sample Number                           |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                               |  |  |  | 0.40          | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Date Sampled                            |  |  |  | 26/04/2023    | 27/04/2023         | 27/04/2023           | 27/04/2023    | 27/04/2023    |
| Time Taken                              |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 8.6   | 7.4   | 8.3   | 7.7   | 8.6   |
| Boron (water soluble)             | mg/kg | 0.2 | MCERTS | 0.8   | 0.8   | 0.9   | 0.6   | 2.9   |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | 0.6   | 1     | 1.1   | 1.1   | 1.2   |
| Chromium (hexavalent)             | mg/kg | 1.2 | NONE   | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| Chromium (III)                    | mg/kg | 1   | NONE   | 18    | 17    | 20    | 23    | 26    |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 18    | 17    | 21    | 23    | 26    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 16    | 11    | 13    | 14    | 14    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 27    | 36    | 58    | 22    | 26    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 13    | 14    | 17    | 19    | 22    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 82    | 63    | 75    | 70    | 81    |

#### Petroleum Hydrocarbons

|                                                  |       |     |        |       |       |       |       |       |
|--------------------------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| TPH C10 - C40 <small>EH_CU_1D_TOTAL</small>      | mg/kg | 10  | MCERTS | 90    | 12    | 50    | < 10  | < 10  |
| TPH2 (C6 - C10) <small>HS_1D_TOTAL</small>       | mg/kg | 0.1 | NONE   | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| TPH C6 - C40 <small>EH_CU+HS_CU_1D_TOTAL</small> | mg/kg | 10  | NONE   | 90    | 12    | 50    | < 10  | < 10  |
| TPH (C5 - C8) <small>HS_1D_TOTAL</small>         | mg/kg | 0.1 | NONE   | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| TPH (C8 - C10) <small>HS_1D_TOTAL</small>        | mg/kg | 0.1 | NONE   | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| TPH (C10 - C12) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 2   | MCERTS | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| TPH (C12 - C16) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 4   | MCERTS | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 |
| TPH (C16 - C21) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 1   | MCERTS | 6.2   | 2.2   | 4.3   | < 1.0 | < 1.0 |
| TPH (C21 - C35) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 1   | MCERTS | 50    | 8.4   | 26    | < 1.0 | < 1.0 |
| TPH (C21 - C40) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 10  | MCERTS | 83    | < 10  | 46    | < 10  | < 10  |

Analytical Report Number: 23-31232  
Project / Site name: Old Sarum, Salisbury  
Your Order No: 4664

| Lab Sample Number                       |  |  |  | 2664570       | 2664571            | 2664572              | 2664573       | 2664574       |
|-----------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Sample Reference                        |  |  |  | IT01          | SP01               | SP02                 | SP03          | SP04          |
| Sample Number                           |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                               |  |  |  | 0.40          | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Date Sampled                            |  |  |  | 26/04/2023    | 27/04/2023         | 27/04/2023           | 27/04/2023    | 27/04/2023    |
| Time Taken                              |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |

#### Pesticides

|                                  |       |    |      |   |   |   |   |   |
|----------------------------------|-------|----|------|---|---|---|---|---|
| Alachlor                         | µg/kg | 10 | NONE | - | - | - | - | - |
| Aldrin                           | µg/kg | 10 | NONE | - | - | - | - | - |
| BHC-alpha (benzene hexachloride) | µg/kg | 10 | NONE | - | - | - | - | - |
| BHC-beta                         | µg/kg | 10 | NONE | - | - | - | - | - |
| BHC-delta                        | µg/kg | 10 | NONE | - | - | - | - | - |
| BHC-gamma (Lindane, gamma HCH)   | µg/kg | 10 | NONE | - | - | - | - | - |
| Chlordane-cis                    | µg/kg | 10 | NONE | - | - | - | - | - |
| Chlordane-trans                  | µg/kg | 10 | NONE | - | - | - | - | - |
| Chlorothalonil                   | µg/kg | 20 | NONE | - | - | - | - | - |
| DDD-o,p'                         | µg/kg | 10 | NONE | - | - | - | - | - |
| DDD-p,p'                         | µg/kg | 10 | NONE | - | - | - | - | - |
| DDE-o,p'                         | µg/kg | 10 | NONE | - | - | - | - | - |
| DDE-p,p'                         | µg/kg | 10 | NONE | - | - | - | - | - |
| DDT-o,p'                         | µg/kg | 10 | NONE | - | - | - | - | - |
| DDT-p,p'                         | µg/kg | 10 | NONE | - | - | - | - | - |
| Dichlorobenzonitrile, 2,6-       | µg/kg | 10 | NONE | - | - | - | - | - |
| Dieldrin                         | µg/kg | 10 | NONE | - | - | - | - | - |
| Endosulfan I (alpha isomer)      | µg/kg | 10 | NONE | - | - | - | - | - |
| Endosulfan II (beta isomer)      | µg/kg | 10 | NONE | - | - | - | - | - |
| Endosulfan sulfate               | µg/kg | 10 | NONE | - | - | - | - | - |
| Endrin                           | µg/kg | 20 | NONE | - | - | - | - | - |
| Heptachlor                       | µg/kg | 10 | NONE | - | - | - | - | - |
| Heptachlor exo-epoxide           | µg/kg | 10 | NONE | - | - | - | - | - |
| Hexachlorobenzene                | µg/kg | 10 | NONE | - | - | - | - | - |
| Hexachlorobutadiene              | µg/kg | 10 | NONE | - | - | - | - | - |
| Isodrin                          | µg/kg | 20 | NONE | - | - | - | - | - |
| Methoxychlor, p,p'-              | µg/kg | 20 | NONE | - | - | - | - | - |
| Pentachlorobenzene               | µg/kg | 10 | NONE | - | - | - | - | - |
| Tecnazene                        | µg/kg | 10 | NONE | - | - | - | - | - |
| Tetrachlorobenzene, 1,2,4,5-     | µg/kg | 10 | NONE | - | - | - | - | - |
| Trichlorobenzene, 1,2,3-         | µg/kg | 10 | NONE | - | - | - | - | - |
| Trichlorobenzene, 1,3,5-         | µg/kg | 10 | NONE | - | - | - | - | - |
| Trifluralin                      | µg/kg | 10 | NONE | - | - | - | - | - |

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



Analytical Report Number: 23-31232  
Project / Site name: Old Sarum, Salisbury  
Your Order No: 4664

| Lab Sample Number                       |       |                    |                      | 2664575       | 2664576       | 2664577       | 2664578       | 2664579       |
|-----------------------------------------|-------|--------------------|----------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                      | TP01          | TP02          | TP03          | TP03          | TP05          |
| Sample Number                           |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                      | 0.10          | 1.20          | 0.30          | 1.00          | 0.10          |
| Date Sampled                            |       |                    |                      | 26/04/2026    | 26/04/2027    | 26/04/2028    | 26/04/2029    | 26/04/2030    |
| Time Taken                              |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                 | < 0.1         | 72            | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                 | 15            | 20            | 19            | 14            | 16            |
| Total mass of sample received           | kg    | 0.001              | NONE                 | 1.4           | 1             | 1.4           | 1             | 1.4           |

|                     |      |     |           |     |     |     |     |     |
|---------------------|------|-----|-----------|-----|-----|-----|-----|-----|
| Asbestos in Soil    | Type | N/A | ISO 17025 | -   | -   | -   | -   | -   |
| Asbestos Analyst ID | N/A  | N/A | N/A       | N/A | N/A | N/A | N/A | N/A |

#### General Inorganics

|                                                             |          |         |        |       |       |       |        |       |
|-------------------------------------------------------------|----------|---------|--------|-------|-------|-------|--------|-------|
| pH - Automated                                              | pH Units | N/A     | MCERTS | 9.2   | 9.9   | 7.9   | 8.2    | 8     |
| Total Cyanide                                               | mg/kg    | 1       | MCERTS | < 1.0 | -     | < 1.0 | -      | < 1.0 |
| Free Cyanide                                                | mg/kg    | 1       | MCERTS | < 1.0 | -     | < 1.0 | -      | < 1.0 |
| Total Sulphate as SO4                                       | %        | 0.005   | MCERTS | 0.155 | -     | 0.089 | -      | 0.086 |
| Water Soluble Sulphate as SO4 16hr extraction (2:1)         | mg/kg    | 2.5     | MCERTS | -     | 47    | 8     | 13     | 53    |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | -     | 0.024 | 0.004 | 0.0065 | 0.026 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | -     | 23.6  | 4     | 6.5    | 26.4  |
| Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction        | g/l      | 0.00125 | MCERTS | 0.076 | -     | -     | -      | -     |
| Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction        | mg/kg    | 2.5     | MCERTS | 150   | -     | -     | -      | -     |
| Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction        | mg/l     | 1.25    | MCERTS | 75.8  | -     | -     | -      | -     |
| Sulphide                                                    | mg/kg    | 1       | MCERTS | 30    | -     | < 1.0 | -      | < 1.0 |
| Organic Matter (automated)                                  | %        | 0.1     | MCERTS | 3.6   | -     | 3     | -      | 4.1   |

#### Total Phenols

|                            |       |   |        |       |   |       |   |       |
|----------------------------|-------|---|--------|-------|---|-------|---|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | - | < 1.0 | - | < 1.0 |
|----------------------------|-------|---|--------|-------|---|-------|---|-------|

#### Speciated PAHs

|                        |       |      |           |        |   |        |   |        |
|------------------------|-------|------|-----------|--------|---|--------|---|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | - | < 0.05 | - | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | < 0.05 | - | < 0.05 | - | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | < 0.05 | - | < 0.05 | - | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | < 0.05 | - | < 0.05 | - | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | < 0.05 | - | < 0.05 | - | 0.14   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | < 0.05 | - | < 0.05 | - | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 0.09   | - | 0.12   | - | 0.24   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 0.09   | - | 0.11   | - | 0.21   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 0.06   | - | 0.07   | - | 0.14   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 0.05   | - | 0.08   | - | 0.14   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | < 0.05 | - | 0.1    | - | 0.19   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | < 0.05 | - | < 0.05 | - | 0.07   |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 0.05   | - | 0.12   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | < 0.05 | - | < 0.05 | - | < 0.05 |
| Dibenzo(a,h)anthracene | mg/kg | 0.05 | MCERTS    | < 0.05 | - | < 0.05 | - | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | < 0.05 | - | < 0.05 | - | < 0.05 |

#### Total PAH

|                             |       |     |           |        |   |        |   |      |
|-----------------------------|-------|-----|-----------|--------|---|--------|---|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | < 0.80 | - | < 0.80 | - | 1.25 |
|-----------------------------|-------|-----|-----------|--------|---|--------|---|------|

Analytical Report Number: 23-31232  
Project / Site name: Old Sarum, Salisbury  
Your Order No: 4664

| Lab Sample Number                       |  |  |  | 2664575       | 2664576            | 2664577              | 2664578       | 2664579       |
|-----------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Sample Reference                        |  |  |  | TP01          | TP02               | TP03                 | TP03          | TP05          |
| Sample Number                           |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                               |  |  |  | 0.10          | 1.20               | 0.30                 | 1.00          | 0.10          |
| Date Sampled                            |  |  |  | 26/04/2026    | 26/04/2027         | 26/04/2028           | 26/04/2029    | 26/04/2030    |
| Time Taken                              |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |
|                                         |  |  |  |               |                    |                      |               |               |

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |   |       |   |       |
|-----------------------------------|-------|-----|--------|-------|---|-------|---|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 6.3   | - | 6     | - | 7.1   |
| Boron (water soluble)             | mg/kg | 0.2 | MCERTS | 1     | - | 0.9   | - | 1     |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | 0.9   | - | 0.8   | - | 0.9   |
| Chromium (hexavalent)             | mg/kg | 1.2 | NONE   | < 1.2 | - | < 1.2 | - | < 1.2 |
| Chromium (III)                    | mg/kg | 1   | NONE   | 18    | - | 16    | - | 19    |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 19    | - | 17    | - | 20    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 10    | - | 8.8   | - | 12    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 18    | - | 17    | - | 29    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | - | < 0.3 | - | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 15    | - | 14    | - | 17    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 | - | < 1.0 | - | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 64    | - | 53    | - | 67    |

#### Petroleum Hydrocarbons

|                                                  |       |     |        |       |   |       |   |       |
|--------------------------------------------------|-------|-----|--------|-------|---|-------|---|-------|
| TPH C10 - C40 <sub>EH, CU, 1D, TOTAL</sub>       | mg/kg | 10  | MCERTS | < 10  | - | < 10  | - | < 10  |
| TPH2 (C6 - C10) <sub>HS, 1D, TOTAL</sub>         | mg/kg | 0.1 | NONE   | < 0.1 | - | < 0.1 | - | < 0.1 |
| TPH C6 - C40 <sub>EH, CU+HS, CU, 1D, TOTAL</sub> | mg/kg | 10  | NONE   | < 10  | - | < 10  | - | < 10  |
| TPH (C5 - C8) <sub>HS, 1D, TOTAL</sub>           | mg/kg | 0.1 | NONE   | < 0.1 | - | < 0.1 | - | < 0.1 |
| TPH (C8 - C10) <sub>HS, 1D, TOTAL</sub>          | mg/kg | 0.1 | NONE   | < 0.1 | - | < 0.1 | - | < 0.1 |
| TPH (C10 - C12) <sub>EH, CU, 1D, TOTAL</sub>     | mg/kg | 2   | MCERTS | < 2.0 | - | < 2.0 | - | < 2.0 |
| TPH (C12 - C16) <sub>EH, CU, 1D, TOTAL</sub>     | mg/kg | 4   | MCERTS | < 4.0 | - | < 4.0 | - | < 4.0 |
| TPH (C16 - C21) <sub>EH, CU, 1D, TOTAL</sub>     | mg/kg | 1   | MCERTS | < 1.0 | - | < 1.0 | - | < 1.0 |
| TPH (C21 - C35) <sub>EH, CU, 1D, TOTAL</sub>     | mg/kg | 1   | MCERTS | < 1.0 | - | < 1.0 | - | < 1.0 |
| TPH (C21 - C40) <sub>EH, CU, 1D, TOTAL</sub>     | mg/kg | 10  | MCERTS | < 10  | - | < 10  | - | < 10  |

Analytical Report Number: 23-31232  
Project / Site name: Old Sarum, Salisbury  
Your Order No: 4664

| Lab Sample Number                       |       |                    |                         | 2664575       | 2664576       | 2664577       | 2664578       | 2664579       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP01          | TP02          | TP03          | TP03          | TP05          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.10          | 1.20          | 0.30          | 1.00          | 0.10          |
| Date Sampled                            |       |                    |                         | 26/04/2026    | 26/04/2027    | 26/04/2028    | 26/04/2029    | 26/04/2030    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| <b>Pesticides</b>                       |       |                    |                         |               |               |               |               |               |
| Alachlor                                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Aldrin                                  | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| BHC-alpha (benzene hexachloride)        | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| BHC-beta                                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| BHC-delta                               | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| BHC-gamma (Lindane, gamma HCH)          | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Chlordane-cis                           | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Chlordane-trans                         | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Chlorothalonil                          | µg/kg | 20                 | NONE                    | -             | -             | < 20          | -             | -             |
| DDD-o,p'                                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| DDD-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| DDE-o,p'                                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| DDE-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| DDT-o,p'                                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| DDT-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Dichlorobenzonitrile, 2,6-              | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Dieldrin                                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Endosulfan I (alpha isomer)             | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Endosulfan II (beta isomer)             | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Endosulfan sulfate                      | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Endrin                                  | µg/kg | 20                 | NONE                    | -             | -             | < 20          | -             | -             |
| Heptachlor                              | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Heptachlor exo-epoxide                  | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Hexachlorobenzene                       | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Hexachlorobutadiene                     | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Isodrin                                 | µg/kg | 20                 | NONE                    | -             | -             | < 20          | -             | -             |
| Methoxychlor, p,p'-                     | µg/kg | 20                 | NONE                    | -             | -             | < 20          | -             | -             |
| Pentachlorobenzene                      | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Tecnazene                               | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Tetrachlorobenzene, 1,2,4,5-            | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Trichlorobenzene, 1,2,3-                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Trichlorobenzene, 1,3,5-                | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |
| Trifluralin                             | µg/kg | 10                 | NONE                    | -             | -             | < 10          | -             | -             |

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

Analytical Report Number: 23-31232  
Project / Site name: Old Sarum, Salisbury  
Your Order No: 4664

| Lab Sample Number                       |       |                    |                         | 2664580       | 2664581       | 2664582       | 2664583       | 2664584       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP05          | TP06          | TP07          | TP07          | TP08          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 1.20          | 1.00          | 0.10          | 0.70          | 0.30          |
| Date Sampled                            |       |                    |                         | 26/04/2031    | 26/04/2032    | 26/04/2033    | 26/04/2034    | 26/04/2035    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | 76            | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 21            | 21            | 11            | 22            | 18            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 1             | 1             | 1.4           | 1             | 1.4           |

|                     |      |     |           |     |     |              |     |     |
|---------------------|------|-----|-----------|-----|-----|--------------|-----|-----|
| Asbestos in Soil    | Type | N/A | ISO 17025 | -   | -   | Not-detected | -   | -   |
| Asbestos Analyst ID | N/A  | N/A | N/A       | N/A | N/A | KSZ          | N/A | N/A |

#### General Inorganics

|                                                             |          |         |        |        |       |       |       |       |
|-------------------------------------------------------------|----------|---------|--------|--------|-------|-------|-------|-------|
| pH - Automated                                              | pH Units | N/A     | MCERTS | 8.9    | 8.6   | 8.1   | 8.3   | 7.9   |
| Total Cyanide                                               | mg/kg    | 1       | MCERTS | -      | -     | < 1.0 | -     | < 1.0 |
| Free Cyanide                                                | mg/kg    | 1       | MCERTS | -      | -     | < 1.0 | -     | < 1.0 |
| Total Sulphate as SO4                                       | %        | 0.005   | MCERTS | -      | -     | 0.111 | -     | 0.129 |
| Water Soluble Sulphate as SO4 16hr extraction (2:1)         | mg/kg    | 2.5     | MCERTS | 11     | 5.9   | 64    | 180   | 24    |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.0057 | 0.003 | 0.032 | 0.092 | 0.012 |
| Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 5.7    | 3     | 31.8  | 92.4  | 12    |
| Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction        | g/l      | 0.00125 | MCERTS | -      | -     | -     | -     | -     |
| Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction        | mg/kg    | 2.5     | MCERTS | -      | -     | -     | -     | -     |
| Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction        | mg/l     | 1.25    | MCERTS | -      | -     | -     | -     | -     |
| Sulphide                                                    | mg/kg    | 1       | MCERTS | -      | -     | 7.3   | -     | < 1.0 |
| Organic Matter (automated)                                  | %        | 0.1     | MCERTS | -      | -     | 2.1   | -     | 4.6   |

#### Total Phenols

|                            |       |   |        |   |   |       |   |       |
|----------------------------|-------|---|--------|---|---|-------|---|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | - | < 1.0 | - | < 1.0 |
|----------------------------|-------|---|--------|---|---|-------|---|-------|

#### Speciated PAHs

|                        |       |      |           |   |   |        |   |        |
|------------------------|-------|------|-----------|---|---|--------|---|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | - | < 0.05 | - | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | - | < 0.05 | - | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | - | < 0.05 | - | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | - | < 0.05 | - | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | - | 1.2    | - | < 0.05 |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | - | 0.29   | - | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | - | 1.5    | - | 0.12   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | - | 1.3    | - | 0.12   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | - | 0.77   | - | < 0.05 |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | - | 0.77   | - | < 0.05 |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | 0.92   | - | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | - | 0.43   | - | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | - | 0.79   | - | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | - | 0.51   | - | < 0.05 |
| Dibenzo(a,h)anthracene | mg/kg | 0.05 | MCERTS    | - | - | < 0.05 | - | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | - | 0.55   | - | < 0.05 |

#### Total PAH

|                             |       |     |           |   |   |      |   |        |
|-----------------------------|-------|-----|-----------|---|---|------|---|--------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | - | 9.05 | - | < 0.80 |
|-----------------------------|-------|-----|-----------|---|---|------|---|--------|

Analytical Report Number: 23-31232  
 Project / Site name: Old Sarum, Salisbury  
 Your Order No: 4664

| Lab Sample Number                       |       |                    |                      | 2664580       | 2664581       | 2664582       | 2664583       | 2664584       |
|-----------------------------------------|-------|--------------------|----------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                      | TP05          | TP06          | TP07          | TP07          | TP08          |
| Sample Number                           |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                      | 1.20          | 1.00          | 0.10          | 0.70          | 0.30          |
| Date Sampled                            |       |                    |                      | 26/04/2031    | 26/04/2032    | 26/04/2033    | 26/04/2034    | 26/04/2035    |
| Time Taken                              |       |                    |                      | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation Status |               |               |               |               |               |
|                                         |       |                    |                      |               |               |               |               |               |

#### Heavy Metals / Metalloids

|                                   |       |     |        |   |   |       |   |       |
|-----------------------------------|-------|-----|--------|---|---|-------|---|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | - | - | 7.6   | - | 8.5   |
| Boron (water soluble)             | mg/kg | 0.2 | MCERTS | - | - | < 0.2 | - | 0.4   |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | - | - | 1.1   | - | 1.2   |
| Chromium (hexavalent)             | mg/kg | 1.2 | NONE   | - | - | < 1.2 | - | < 1.2 |
| Chromium (III)                    | mg/kg | 1   | NONE   | - | - | 13    | - | 27    |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | - | - | 14    | - | 28    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | - | - | 12    | - | 17    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | - | - | 170   | - | 28    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | - | - | < 0.3 | - | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | - | - | 10    | - | 22    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | - | - | < 1.0 | - | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | - | - | 220   | - | 83    |

#### Petroleum Hydrocarbons

|                                                  |       |     |        |   |   |       |   |       |
|--------------------------------------------------|-------|-----|--------|---|---|-------|---|-------|
| TPH C10 - C40 <small>EH_CU_1D_TOTAL</small>      | mg/kg | 10  | MCERTS | - | - | 14    | - | < 10  |
| TPH2 (C6 - C10) <small>HS_1D_TOTAL</small>       | mg/kg | 0.1 | NONE   | - | - | < 0.1 | - | < 0.1 |
| TPH C6 - C40 <small>EH_CU+HS_CU_1D_TOTAL</small> | mg/kg | 10  | NONE   | - | - | 14    | - | < 10  |
| TPH (C5 - C8) <small>HS_1D_TOTAL</small>         | mg/kg | 0.1 | NONE   | - | - | < 0.1 | - | < 0.1 |
| TPH (C8 - C10) <small>HS_1D_TOTAL</small>        | mg/kg | 0.1 | NONE   | - | - | < 0.1 | - | < 0.1 |
| TPH (C10 - C12) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 2   | MCERTS | - | - | < 2.0 | - | < 2.0 |
| TPH (C12 - C16) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 4   | MCERTS | - | - | < 4.0 | - | < 4.0 |
| TPH (C16 - C21) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 1   | MCERTS | - | - | 4     | - | < 1.0 |
| TPH (C21 - C35) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 1   | MCERTS | - | - | 9.9   | - | < 1.0 |
| TPH (C21 - C40) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 10  | MCERTS | - | - | < 10  | - | < 10  |

Analytical Report Number: 23-31232  
Project / Site name: Old Sarum, Salisbury  
Your Order No: 4664

| Lab Sample Number                       |       |                    |                         | 2664580       | 2664581       | 2664582       | 2664583       | 2664584       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP05          | TP06          | TP07          | TP07          | TP08          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 1.20          | 1.00          | 0.10          | 0.70          | 0.30          |
| Date Sampled                            |       |                    |                         | 26/04/2031    | 26/04/2032    | 26/04/2033    | 26/04/2034    | 26/04/2035    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| <b>Pesticides</b>                       |       |                    |                         |               |               |               |               |               |
| Alachlor                                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Aldrin                                  | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| BHC-alpha (benzene hexachloride)        | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| BHC-beta                                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| BHC-delta                               | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| BHC-gamma (Lindane, gamma HCH)          | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Chlordane-cis                           | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Chlordane-trans                         | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Chlorothalonil                          | µg/kg | 20                 | NONE                    | -             | -             | -             | -             | -             |
| DDD-o,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| DDD-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| DDE-o,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| DDE-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| DDT-o,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| DDT-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Dichlorobenzonitrile, 2,6-              | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Dieldrin                                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Endosulfan I (alpha isomer)             | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Endosulfan II (beta isomer)             | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Endosulfan sulfate                      | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Endrin                                  | µg/kg | 20                 | NONE                    | -             | -             | -             | -             | -             |
| Heptachlor                              | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Heptachlor exo-epoxide                  | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Hexachlorobenzene                       | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Hexachlorobutadiene                     | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Isodrin                                 | µg/kg | 20                 | NONE                    | -             | -             | -             | -             | -             |
| Methoxychlor, p,p'-                     | µg/kg | 20                 | NONE                    | -             | -             | -             | -             | -             |
| Pentachlorobenzene                      | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Tecnazene                               | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Tetrachlorobenzene, 1,2,4,5-            | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Trichlorobenzene, 1,2,3-                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Trichlorobenzene, 1,3,5-                | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |
| Trifluralin                             | µg/kg | 10                 | NONE                    | -             | -             | -             | -             | -             |

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



Analytical Report Number: 23-31232  
Project / Site name: Old Sarum, Salisbury  
Your Order No: 4664

| Lab Sample Number                       |       |                    |                         | 2664585       | 2664586       | 2664587       | 2664588       | 2664589       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP08          | TP09          | TP11          | TP12          | TP12          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 1.40          | 0.40          | 0.10          | 0.10          | 1.60          |
| Date Sampled                            |       |                    |                         | 27/04/2018    | 27/04/2019    | 27/04/2020    | 27/04/2021    | 27/04/2022    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | 42            | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 14            | 15            | 16            | 16            | 22            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 1             | 1.4           | 1.4           | 1.4           | 1             |

|                     |      |     |           |     |     |     |              |     |
|---------------------|------|-----|-----------|-----|-----|-----|--------------|-----|
| Asbestos in Soil    | Type | N/A | ISO 17025 | -   | -   | -   | Not-detected | -   |
| Asbestos Analyst ID | N/A  | N/A | N/A       | N/A | N/A | N/A | KSZ          | N/A |

#### General Inorganics

|                                                                         |          |         |        |       |       |       |       |        |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|-------|--------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 8.4   | 8     | 7.6   | 7.9   | 8.7    |
| Total Cyanide                                                           | mg/kg    | 1       | MCERTS | -     | < 1.0 | < 1.0 | < 1.0 | -      |
| Free Cyanide                                                            | mg/kg    | 1       | MCERTS | -     | < 1.0 | < 1.0 | < 1.0 | -      |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | -     | 0.133 | 0.132 | 0.128 | -      |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5     | MCERTS | 58    | 110   | 29    | 63    | 17     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.029 | 0.057 | 0.015 | 0.031 | 0.0083 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 29.2  | 57    | 14.7  | 31.3  | 8.3    |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction        | g/l      | 0.00125 | MCERTS | -     | -     | -     | -     | -      |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction        | mg/kg    | 2.5     | MCERTS | -     | -     | -     | -     | -      |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction        | mg/l     | 1.25    | MCERTS | -     | -     | -     | -     | -      |
| Sulphide                                                                | mg/kg    | 1       | MCERTS | -     | 1.2   | 3.1   | < 1.0 | -      |
| Organic Matter (automated)                                              | %        | 0.1     | MCERTS | -     | 3.5   | 4.9   | 4.1   | -      |

#### Total Phenols

|                            |       |   |        |   |       |       |       |   |
|----------------------------|-------|---|--------|---|-------|-------|-------|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | < 1.0 | < 1.0 | < 1.0 | - |
|----------------------------|-------|---|--------|---|-------|-------|-------|---|

#### Speciated PAHs

|                        |       |      |           |   |        |        |        |   |
|------------------------|-------|------|-----------|---|--------|--------|--------|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | < 0.05 | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | < 0.05 | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | < 0.05 | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | < 0.05 | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | 0.25   | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | 0.07   | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | 0.21   | 0.1    | 0.46   | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | 0.22   | 0.09   | 0.43   | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | 0.17   | 0.06   | 0.27   | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | 0.15   | 0.06   | 0.24   | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | 0.25   | < 0.05 | 0.34   | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | 0.09   | < 0.05 | 0.15   | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | 0.17   | < 0.05 | 0.24   | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | 0.14   | < 0.05 | 0.16   | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | < 0.05 | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | 0.18   | < 0.05 | 0.19   | - |

#### Total PAH

|                             |       |     |           |   |      |        |     |   |
|-----------------------------|-------|-----|-----------|---|------|--------|-----|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | 1.58 | < 0.80 | 2.8 | - |
|-----------------------------|-------|-----|-----------|---|------|--------|-----|---|

Analytical Report Number: 23-31232  
 Project / Site name: Old Sarum, Salisbury  
 Your Order No: 4664

| Lab Sample Number                       |  |  |  | 2664585       | 2664586            | 2664587              | 2664588       | 2664589       |
|-----------------------------------------|--|--|--|---------------|--------------------|----------------------|---------------|---------------|
| Sample Reference                        |  |  |  | TP08          | TP09               | TP11                 | TP12          | TP12          |
| Sample Number                           |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Depth (m)                               |  |  |  | 1.40          | 0.40               | 0.10                 | 0.10          | 1.60          |
| Date Sampled                            |  |  |  | 27/04/2018    | 27/04/2019         | 27/04/2020           | 27/04/2021    | 27/04/2022    |
| Time Taken                              |  |  |  | None Supplied | None Supplied      | None Supplied        | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units         | Limit of detection | Accreditation Status |               |               |
|                                         |  |  |  |               |                    |                      |               |               |

#### Heavy Metals / Metalloids

|                                   |       |     |        |   |       |       |       |   |
|-----------------------------------|-------|-----|--------|---|-------|-------|-------|---|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | - | 10    | 8.6   | 7     | - |
| Boron (water soluble)             | mg/kg | 0.2 | MCERTS | - | 1.1   | 0.7   | 2.7   | - |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | - | 1     | 1.1   | 1     | - |
| Chromium (hexavalent)             | mg/kg | 1.2 | NONE   | - | < 1.2 | < 1.2 | < 1.2 | - |
| Chromium (III)                    | mg/kg | 1   | NONE   | - | 50    | 25    | 16    | - |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | - | 50    | 25    | 17    | - |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | - | 17    | 21    | 12    | - |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | - | 31    | 30    | 24    | - |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | - | < 0.3 | < 0.3 | < 0.3 | - |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | - | 15    | 21    | 14    | - |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | - | < 1.0 | < 1.0 | < 1.0 | - |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | - | 110   | 85    | 70    | - |

#### Petroleum Hydrocarbons

|                                                  |       |     |        |   |       |       |       |   |
|--------------------------------------------------|-------|-----|--------|---|-------|-------|-------|---|
| TPH C10 - C40 <small>EH_CU_1D_TOTAL</small>      | mg/kg | 10  | MCERTS | - | 100   | < 10  | < 10  | - |
| TPH2 (C6 - C10) <small>HS_1D_TOTAL</small>       | mg/kg | 0.1 | NONE   | - | < 0.1 | < 0.1 | < 0.1 | - |
| TPH C6 - C40 <small>EH_CU+HS_CU_1D_TOTAL</small> | mg/kg | 10  | NONE   | - | 100   | < 10  | < 10  | - |
| TPH (C5 - C8) <small>HS_1D_TOTAL</small>         | mg/kg | 0.1 | NONE   | - | < 0.1 | < 0.1 | < 0.1 | - |
| TPH (C8 - C10) <small>HS_1D_TOTAL</small>        | mg/kg | 0.1 | NONE   | - | < 0.1 | < 0.1 | < 0.1 | - |
| TPH (C10 - C12) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 2   | MCERTS | - | < 2.0 | < 2.0 | < 2.0 | - |
| TPH (C12 - C16) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 4   | MCERTS | - | < 4.0 | < 4.0 | < 4.0 | - |
| TPH (C16 - C21) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 1   | MCERTS | - | 1.1   | < 1.0 | < 1.0 | - |
| TPH (C21 - C35) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 1   | MCERTS | - | 53    | < 1.0 | < 1.0 | - |
| TPH (C21 - C40) <small>EH_CU_1D_TOTAL</small>    | mg/kg | 10  | MCERTS | - | 99    | < 10  | < 10  | - |

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 Project / Site name: Old Sarum, Salisbury  
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| Lab Sample Number                       |       |                    |                         | 2664585       | 2664586       | 2664587       | 2664588       | 2664589       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP08          | TP09          | TP11          | TP12          | TP12          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 1.40          | 0.40          | 0.10          | 0.10          | 1.60          |
| Date Sampled                            |       |                    |                         | 27/04/2018    | 27/04/2019    | 27/04/2020    | 27/04/2021    | 27/04/2022    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| <b>Pesticides</b>                       |       |                    |                         |               |               |               |               |               |
| Alachlor                                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Aldrin                                  | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| BHC-alpha (benzene hexachloride)        | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| BHC-beta                                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| BHC-delta                               | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| BHC-gamma (Lindane, gamma HCH)          | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Chlordane-cis                           | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Chlordane-trans                         | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Chlorothalonil                          | µg/kg | 20                 | NONE                    | -             | -             | -             | < 20          | -             |
| DDD-o,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| DDD-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| DDE-o,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| DDE-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| DDT-o,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| DDT-p,p'                                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Dichlorobenzonitrile, 2,6-              | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Dieldrin                                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Endosulfan I (alpha isomer)             | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Endosulfan II (beta isomer)             | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Endosulfan sulfate                      | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Endrin                                  | µg/kg | 20                 | NONE                    | -             | -             | -             | < 20          | -             |
| Heptachlor                              | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Heptachlor exo-epoxide                  | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Hexachlorobenzene                       | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Hexachlorobutadiene                     | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Isodrin                                 | µg/kg | 20                 | NONE                    | -             | -             | -             | < 20          | -             |
| Methoxychlor, p,p'-                     | µg/kg | 20                 | NONE                    | -             | -             | -             | < 20          | -             |
| Pentachlorobenzene                      | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Tecnazene                               | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Tetrachlorobenzene, 1,2,4,5-            | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Trichlorobenzene, 1,2,3-                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Trichlorobenzene, 1,3,5-                | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |
| Trifluralin                             | µg/kg | 10                 | NONE                    | -             | -             | -             | < 10          | -             |

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

Analytical Report Number: 23-31232  
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Your Order No: 4664

| Lab Sample Number                       |       |                    |                         | 2664590       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|
| Sample Reference                        |       |                    |                         | TP13          |
| Sample Number                           |       |                    |                         | None Supplied |
| Depth (m)                               |       |                    |                         | 0.30          |
| Date Sampled                            |       |                    |                         | 27/04/2023    |
| Time Taken                              |       |                    |                         | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |
| Stone Content                           | %     | 0.1                | NONE                    | 50            |
| Moisture Content                        | %     | 0.01               | NONE                    | 8.9           |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 1.4           |

|                     |      |     |           |              |
|---------------------|------|-----|-----------|--------------|
| Asbestos in Soil    | Type | N/A | ISO 17025 | Not-detected |
| Asbestos Analyst ID | N/A  | N/A | N/A       | KSZ          |

#### General Inorganics

|                                                                         |          |         |        |       |
|-------------------------------------------------------------------------|----------|---------|--------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 9.5   |
| Total Cyanide                                                           | mg/kg    | 1       | MCERTS | < 1.0 |
| Free Cyanide                                                            | mg/kg    | 1       | MCERTS | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | 0.253 |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1)         | mg/kg    | 2.5     | MCERTS | 1300  |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.65  |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 651   |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction        | g/l      | 0.00125 | MCERTS | -     |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction        | mg/kg    | 2.5     | MCERTS | -     |
| Water Soluble SO <sub>4</sub> (2:1 Leach. Equiv.) 1hr extraction        | mg/l     | 1.25    | MCERTS | -     |
| Sulphide                                                                | mg/kg    | 1       | MCERTS | 13    |
| Organic Matter (automated)                                              | %        | 0.1     | MCERTS | 1.5   |

#### Total Phenols

|                            |       |   |        |       |
|----------------------------|-------|---|--------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 |
|----------------------------|-------|---|--------|-------|

#### Speciated PAHs

|                        |       |      |           |        |
|------------------------|-------|------|-----------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.09   |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 0.27   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.11   |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 0.92   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 0.94   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 0.57   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 0.58   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.76   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.39   |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 0.64   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.43   |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.1    |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.52   |

#### Total PAH

|                             |       |     |           |      |
|-----------------------------|-------|-----|-----------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 6.32 |
|-----------------------------|-------|-----|-----------|------|

Analytical Report Number: 23-31232  
 Project / Site name: Old Sarum, Salisbury  
 Your Order No: 4664

|                                         |       |                    |                         |               |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|
| Lab Sample Number                       |       |                    |                         | 2664590       |
| Sample Reference                        |       |                    |                         | TP13          |
| Sample Number                           |       |                    |                         | None Supplied |
| Depth (m)                               |       |                    |                         | 0.30          |
| Date Sampled                            |       |                    |                         | 27/04/2023    |
| Time Taken                              |       |                    |                         | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |
|                                         |       |                    |                         |               |

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |
|-----------------------------------|-------|-----|--------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 7.5   |
| Boron (water soluble)             | mg/kg | 0.2 | MCERTS | 0.5   |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | 0.5   |
| Chromium (hexavalent)             | mg/kg | 1.2 | NONE   | < 1.2 |
| Chromium (III)                    | mg/kg | 1   | NONE   | 11    |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 12    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 13    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 51    |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 8     |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 100   |

#### Petroleum Hydrocarbons

|                                            |       |    |        |    |
|--------------------------------------------|-------|----|--------|----|
| TPH C10 - C40 <sub>EH, CU, 1D, TOTAL</sub> | mg/kg | 10 | MCERTS | 92 |
|--------------------------------------------|-------|----|--------|----|

|                                          |       |     |      |       |
|------------------------------------------|-------|-----|------|-------|
| TPH2 (C6 - C10) <sub>HS, 1D, TOTAL</sub> | mg/kg | 0.1 | NONE | < 0.1 |
|------------------------------------------|-------|-----|------|-------|

|                                                  |       |    |      |    |
|--------------------------------------------------|-------|----|------|----|
| TPH C6 - C40 <sub>EH, CU+HS, CU, 1D, TOTAL</sub> | mg/kg | 10 | NONE | 92 |
|--------------------------------------------------|-------|----|------|----|

|                                              |       |     |        |       |
|----------------------------------------------|-------|-----|--------|-------|
| TPH (C5 - C8) <sub>HS, 1D, TOTAL</sub>       | mg/kg | 0.1 | NONE   | < 0.1 |
| TPH (C8 - C10) <sub>HS, 1D, TOTAL</sub>      | mg/kg | 0.1 | NONE   | < 0.1 |
| TPH (C10 - C12) <sub>EH, CU, 1D, TOTAL</sub> | mg/kg | 2   | MCERTS | < 2.0 |
| TPH (C12 - C16) <sub>EH, CU, 1D, TOTAL</sub> | mg/kg | 4   | MCERTS | < 4.0 |
| TPH (C16 - C21) <sub>EH, CU, 1D, TOTAL</sub> | mg/kg | 1   | MCERTS | 4.5   |
| TPH (C21 - C35) <sub>EH, CU, 1D, TOTAL</sub> | mg/kg | 1   | MCERTS | 51    |
| TPH (C21 - C40) <sub>EH, CU, 1D, TOTAL</sub> | mg/kg | 10  | MCERTS | 87    |

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Your Order No: 4664

| Lab Sample Number                       |       |                    |                         | 2664590       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|
| Sample Reference                        |       |                    |                         | TP13          |
| Sample Number                           |       |                    |                         | None Supplied |
| Depth (m)                               |       |                    |                         | 0.30          |
| Date Sampled                            |       |                    |                         | 27/04/2023    |
| Time Taken                              |       |                    |                         | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |
| <b>Pesticides</b>                       |       |                    |                         |               |
| Alachlor                                | µg/kg | 10                 | NONE                    | -             |
| Aldrin                                  | µg/kg | 10                 | NONE                    | -             |
| BHC-alpha (benzene hexachloride)        | µg/kg | 10                 | NONE                    | -             |
| BHC-beta                                | µg/kg | 10                 | NONE                    | -             |
| BHC-delta                               | µg/kg | 10                 | NONE                    | -             |
| BHC-gamma (Lindane, gamma HCH)          | µg/kg | 10                 | NONE                    | -             |
| Chlordane-cis                           | µg/kg | 10                 | NONE                    | -             |
| Chlordane-trans                         | µg/kg | 10                 | NONE                    | -             |
| Chlorothalonil                          | µg/kg | 20                 | NONE                    | -             |
| DDD-o,p'                                | µg/kg | 10                 | NONE                    | -             |
| DDD-p,p'                                | µg/kg | 10                 | NONE                    | -             |
| DDE-o,p'                                | µg/kg | 10                 | NONE                    | -             |
| DDE-p,p'                                | µg/kg | 10                 | NONE                    | -             |
| DDT-o,p'                                | µg/kg | 10                 | NONE                    | -             |
| DDT-p,p'                                | µg/kg | 10                 | NONE                    | -             |
| Dichlorobenzonitrile, 2,6-              | µg/kg | 10                 | NONE                    | -             |
| Dieldrin                                | µg/kg | 10                 | NONE                    | -             |
| Endosulfan I (alpha isomer)             | µg/kg | 10                 | NONE                    | -             |
| Endosulfan II (beta isomer)             | µg/kg | 10                 | NONE                    | -             |
| Endosulfan sulfate                      | µg/kg | 10                 | NONE                    | -             |
| Endrin                                  | µg/kg | 20                 | NONE                    | -             |
| Heptachlor                              | µg/kg | 10                 | NONE                    | -             |
| Heptachlor exo-epoxide                  | µg/kg | 10                 | NONE                    | -             |
| Hexachlorobenzene                       | µg/kg | 10                 | NONE                    | -             |
| Hexachlorobutadiene                     | µg/kg | 10                 | NONE                    | -             |
| Isodrin                                 | µg/kg | 20                 | NONE                    | -             |
| Methoxychlor, p,p'-                     | µg/kg | 20                 | NONE                    | -             |
| Pentachlorobenzene                      | µg/kg | 10                 | NONE                    | -             |
| Tecnazene                               | µg/kg | 10                 | NONE                    | -             |
| Tetrachlorobenzene, 1,2,4,5-            | µg/kg | 10                 | NONE                    | -             |
| Trichlorobenzene, 1,2,3-                | µg/kg | 10                 | NONE                    | -             |
| Trichlorobenzene, 1,3,5-                | µg/kg | 10                 | NONE                    | -             |
| Trifluralin                             | µg/kg | 10                 | NONE                    | -             |

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





**Analytical Report Number : 23-31232**

**Project / Site name: Old Sarum, Salisbury**

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

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

| Lab Sample Number | Sample Reference | Sample Number | Depth (m)     | Sample Description *                            |
|-------------------|------------------|---------------|---------------|-------------------------------------------------|
| 2664570           | IT01             | None Supplied | 0.4           | Brown sand with vegetation and stones.          |
| 2664571           | SP01             | None Supplied | None Supplied | Brown sand with stones.                         |
| 2664572           | SP02             | None Supplied | None Supplied | Brown sand with gravel.                         |
| 2664573           | SP03             | None Supplied | None Supplied | Brown sand with gravel.                         |
| 2664574           | SP04             | None Supplied | None Supplied | Brown sand with gravel and vegetation.          |
| 2664575           | TP01             | None Supplied | 0.1           | Brown sand with gravel and coal.                |
| 2664576           | TP02             | None Supplied | 1.2           | Beige chalk with gravel and stones.**           |
| 2664577           | TP03             | None Supplied | 0.3           | Brown loam and sand with gravel and vegetation. |
| 2664578           | TP03             | None Supplied | 1             | Brown sand with gravel and chalk.               |
| 2664579           | TP05             | None Supplied | 0.1           | Brown sand with gravel and vegetation.          |
| 2664580           | TP05             | None Supplied | 1.2           | Beige chalk with gravel and stones.**           |
| 2664581           | TP06             | None Supplied | 1             | Beige chalk with gravel.**                      |
| 2664582           | TP07             | None Supplied | 0.1           | Brown sand with gravel and vegetation.          |
| 2664583           | TP07             | None Supplied | 0.7           | Beige chalk with gravel.**                      |
| 2664584           | TP08             | None Supplied | 0.3           | Brown sand with gravel and vegetation.          |
| 2664585           | TP08             | None Supplied | 1.4           | Light brown sand with gravel and chalk.         |
| 2664586           | TP09             | None Supplied | 0.4           | Brown sand with gravel and vegetation.          |
| 2664587           | TP11             | None Supplied | 0.1           | Brown sand with gravel and stones.              |
| 2664588           | TP12             | None Supplied | 0.1           | Brown sand with gravel and vegetation.          |
| 2664589           | TP12             | None Supplied | 1.6           | Beige chalk with gravel.**                      |
| 2664590           | TP13             | None Supplied | 0.3           | Brown sand with brick and stones.               |

**Analytical Report Number : 23-31232**  
**Project / Site name: Old Sarum, Sailsbury**

**Water matrix abbreviations:**

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

| Analytical Test Name                               | Analytical Method Description                                                                                                                                          | Analytical Method Reference                                                                                     | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).              | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Metals in soil by ICP-OES                          | Determination of metals in soil by aqua-regia digestion followed by ICP-OES.                                                                                           | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.                            | L038-PL       | D                  | MCERTS               |
| Asbestos identification in soil                    | Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.                                                 | In house method based on HSG 248                                                                                | A001-PL       | D                  | ISO 17025            |
| Boron, water soluble, in soil                      | Determination of water soluble boron in soil by hot water extract followed by ICP-OES.                                                                                 | In-house method based on Second Site Properties version 3                                                       | L038-PL       | D                  | MCERTS               |
| Free cyanide in soil                               | Determination of free cyanide by distillation followed by colorimetry.                                                                                                 | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar) | L080-PL       | W                  | MCERTS               |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                                  | In house method.                                                                                                | L019-UK/PL    | W                  | NONE                 |
| Monohydric phenols in soil                         | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.                                                 | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL       | W                  | MCERTS               |
| Speciated EPA-16 PAHs in soil                      | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.                 | In-house method based on USEPA 8270                                                                             | L064-PL       | D                  | MCERTS               |
| pH in soil (automated)                             | Determination of pH in soil by addition of water followed by automated electrometric measurement.                                                                      | In house method.                                                                                                | L099-PL       | D                  | MCERTS               |
| Sulphide in soil                                   | Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode. | In-house method                                                                                                 | L010-PL       | D                  | MCERTS               |
| Stones content of soil                             | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                                            | In-house method based on British Standard Methods and MCERTS requirements.                                      | L019-UK/PL    | D                  | NONE                 |
| TPH2 (Soil)                                        | Determination of hydrocarbons C6-C10 by headspace GC-MS.                                                                                                               | In-house method based on USEPA8260                                                                              | L088-PL       | W                  | NONE                 |
| Total cyanide in soil                              | Determination of total cyanide by distillation followed by colorimetry.                                                                                                | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar) | L080-PL       | W                  | MCERTS               |
| Cr (III) in soil                                   | In-house method by calculation from total Cr and Cr VI.                                                                                                                | In-house method by calculation                                                                                  | L080-PL       | W                  | NONE                 |
| Pesticides by GC-MS/MS                             | Determination of Pesticides in soil by GC MS/MS                                                                                                                        | In-house method                                                                                                 | L055B-PL      | W                  | NONE                 |
| TPH Banding in Soil by FID                         | Determination of hexane extractable hydrocarbons in soil by GC-FID.                                                                                                    | In-house method, TPH with carbon banding and silica gel split/cleanup.                                          | L076-PL       | D                  | MCERTS               |

**Analytical Report Number : 23-31232**  
**Project / Site name: Old Sarum, Sailsbury**

**Water matrix abbreviations:**

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

| Analytical Test Name                              | Analytical Method Description                                                                                                                             | Analytical Method Reference                                                                  | Method number | Wet / Dry Analysis | Accreditation Status |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| TPH in (Soil)                                     | Determination of TPH bands by HS-GC-MS/GC-FID                                                                                                             | In-house method, TPH with carbon banding and silica gel split/cleanup.                       | L076-PL       | D                  | MCERTS               |
| Organic matter (Automated) in soil                | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.                             | In house method.                                                                             | L009-PL       | D                  | MCERTS               |
| Hexavalent chromium in soil (Lower Level)         | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.     | In-house method                                                                              | L080-PL       | W                  | NONE                 |
| Total Sulphate in soil as %                       | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                   | In house method.                                                                             | L038-PL       | D                  | MCERTS               |
| Sulphate, water soluble, in soil (1hr extraction) | Sulphate, water soluble, in soil (1hr extraction)                                                                                                         | In-house method                                                                              | L038-PL       | D                  | MCERTS               |
| TPH C6 - C40 (soil)                               | Determination of TPH bands by HS-GC-MS/GC-FID                                                                                                             | TPH> C10 Dry soil n-house method with silica gel split/clean up. TPH <C10 by Wet by HS-GC-MS | L088/L076     |                    | NONE                 |
| Sulphate, water soluble, in soil                  | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                                             | L038-PL       | D                  | MCERTS               |

**For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.**

**Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.**

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

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

**\*\*UNACCREDITED SAMPLE MATRIX**

## Sample Deviation Report



**Analytical Report Number : 23-31232**

**Project / Site name: Old Sarum, Salisbury**

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

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

| Sample ID | Other ID      | Sample Type | Lab Sample Number | Sample Deviation | Test Name                                 | Test Ref  | Test Deviation |
|-----------|---------------|-------------|-------------------|------------------|-------------------------------------------|-----------|----------------|
| TP08      | None Supplied | S           | 2664585           | c                | pH in soil (automated)                    | L099-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | Free cyanide in soil                      | L080-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | Hexavalent chromium in soil (Lower Level) | L080-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | Cr (III) in soil                          | L080-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | Monohydric phenols in soil                | L080-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | Organic matter (Automated) in soil        | L009-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | Speciated EPA-16 PAHs in soil             | L064-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | Sulphide in soil                          | L010-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | TPH Banding in Soil by FID                | L076-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | TPH C6 - C40 (soil)                       | L088/L076 | c              |
| TP09      | None Supplied | S           | 2664586           | c                | TPH in (Soil)                             | L076-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | TPH2 (Soil)                               | L088-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | Total cyanide in soil                     | L080-PL   | c              |
| TP09      | None Supplied | S           | 2664586           | c                | pH in soil (automated)                    | L099-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | Free cyanide in soil                      | L080-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | Hexavalent chromium in soil (Lower Level) | L080-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | Cr (III) in soil                          | L080-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | Monohydric phenols in soil                | L080-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | Organic matter (Automated) in soil        | L009-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | Speciated EPA-16 PAHs in soil             | L064-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | Sulphide in soil                          | L010-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | TPH Banding in Soil by FID                | L076-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | TPH C6 - C40 (soil)                       | L088/L076 | c              |
| TP11      | None Supplied | S           | 2664587           | c                | TPH in (Soil)                             | L076-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | TPH2 (Soil)                               | L088-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | Total cyanide in soil                     | L080-PL   | c              |
| TP11      | None Supplied | S           | 2664587           | c                | pH in soil (automated)                    | L099-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | Free cyanide in soil                      | L080-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | Hexavalent chromium in soil (Lower Level) | L080-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | Cr (III) in soil                          | L080-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | Monohydric phenols in soil                | L080-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | Organic matter (Automated) in soil        | L009-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | Pesticides by GC-MS/MS                    | L055B-PL  | c              |
| TP12      | None Supplied | S           | 2664588           | c                | Pesticides extraction                     | L055B-PL  | c              |
| TP12      | None Supplied | S           | 2664588           | c                | Speciated EPA-16 PAHs in soil             | L064-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | Sulphide in soil                          | L010-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | TPH Banding in Soil by FID                | L076-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | TPH C6 - C40 (soil)                       | L088/L076 | c              |
| TP12      | None Supplied | S           | 2664588           | c                | TPH in (Soil)                             | L076-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | TPH2 (Soil)                               | L088-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | Total cyanide in soil                     | L080-PL   | c              |
| TP12      | None Supplied | S           | 2664588           | c                | pH in soil (automated)                    | L099-PL   | c              |
| TP12      | None Supplied | S           | 2664589           | c                | pH in soil (automated)                    | L099-PL   | c              |

**Alan Taylor**  
Geo Environmental Group  
17 Graham Road  
Malvern  
Worcestershire  
WR14 2HR

**t:** 01684212526

**e:** Geo Environmental

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

**t:** 01923 225404

**f:** 01923 237404

**e:** reception@i2analytical.com

## **Analytical Report Number : 23-31233**

|                             |                      |                                                        |            |
|-----------------------------|----------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Old Sarum, Salisbury | <b>Samples received on:</b>                            | 02/05/2023 |
| <b>Your job number:</b>     | GEG-23-786           | <b>Samples instructed on/<br/>Analysis started on:</b> | 02/05/2023 |
| <b>Your order number:</b>   | 4664                 | <b>Analysis completed by:</b>                          | 10/05/2023 |
| <b>Report Issue Number:</b> | 1                    | <b>Report issued on:</b>                               | 10/05/2023 |
| <b>Samples Analysed:</b>    | 2 wac multi samples  |                                                        |            |

**Signed:**



Joanna Wawrzeczko  
Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

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

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

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

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

Excel copies of reports are only valid when accompanied by this PDF certificate.

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



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Environmental Science

**i2 Analytical**

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

**Waste Acceptance Criteria Analytical Results**

|                                                                                                                                                        |                             |          |  |                 |                                                  |                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------|--|-----------------|--------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Report No:</b>                                                                                                                                      | <b>23-31233</b>             |          |  |                 |                                                  |                                                                                |
|                                                                                                                                                        |                             |          |  |                 |                                                  |                                                                                |
|                                                                                                                                                        |                             |          |  |                 | <b>Client:</b>                                   | <b>G-EG</b>                                                                    |
| <b>Location</b>                                                                                                                                        | <b>Old Sarum, Sailsbury</b> |          |  |                 |                                                  |                                                                                |
| <b>Lab Reference (Sample Number)</b>                                                                                                                   | 2664591                     |          |  |                 | <b>Landfill Waste Acceptance Criteria</b>        |                                                                                |
| <b>Sampling Date</b>                                                                                                                                   | 27/04/2023                  |          |  |                 | <b>Limits</b>                                    |                                                                                |
| <b>Sample ID</b>                                                                                                                                       | SP01                        |          |  |                 | Inert Waste<br>Landfill                          | Stable Non-<br>reactive<br>HAZARDOUS<br>waste in non-<br>hazardous<br>Landfill |
| <b>Depth (m)</b>                                                                                                                                       |                             |          |  |                 |                                                  |                                                                                |
| <b>Solid Waste Analysis</b>                                                                                                                            |                             |          |  |                 |                                                  |                                                                                |
| TOC (%)**                                                                                                                                              | 2.3                         |          |  |                 | 3%                                               | 5%                                                                             |
| Loss on Ignition (%) **                                                                                                                                | -                           |          |  |                 | --                                               | 10%                                                                            |
| BTEX (µg/kg)                                                                                                                                           | < 10                        |          |  |                 | 6000                                             | --                                                                             |
| Sum of PCBs (mg/kg)                                                                                                                                    | < 0.30                      |          |  |                 | 1                                                | --                                                                             |
| Mineral Oil (mg/kg) <small>BH, ID, CU, AL #</small>                                                                                                    | 40                          |          |  |                 | 500                                              | --                                                                             |
| Total PAH (WAC-17) (mg/kg)                                                                                                                             | 7.05                        |          |  |                 | 100                                              | --                                                                             |
| pH (units)**                                                                                                                                           | -                           |          |  |                 | --                                               | >6                                                                             |
| Acid Neutralisation Capacity (mmol / kg)                                                                                                               | -                           |          |  |                 | --                                               | To be evaluated                                                                |
| <b>Eluate Analysis</b>                                                                                                                                 | 2:1                         | 8:1      |  | Cumulative 10:1 | <b>Limit values for compliance leaching test</b> |                                                                                |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                                                                | mg/l                        | mg/l     |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg)       |                                                                                |
| Arsenic *                                                                                                                                              | < 0.010                     | < 0.010  |  | < 0.050         | 0.5                                              | 2                                                                              |
| Barium *                                                                                                                                               | 0.030                       | 0.017    |  | 0.18            | 20                                               | 100                                                                            |
| Cadmium *                                                                                                                                              | < 0.0005                    | < 0.0005 |  | < 0.0020        | 0.04                                             | 1                                                                              |
| Chromium *                                                                                                                                             | < 0.0010                    | 0.0020   |  | 0.019           | 0.5                                              | 10                                                                             |
| Copper *                                                                                                                                               | 0.023                       | 0.022    |  | 0.22            | 2                                                | 50                                                                             |
| Mercury *                                                                                                                                              | < 0.0015                    | < 0.0015 |  | < 0.010         | 0.01                                             | 0.2                                                                            |
| Molybdenum *                                                                                                                                           | < 0.0030                    | < 0.0030 |  | < 0.020         | 0.5                                              | 10                                                                             |
| Nickel *                                                                                                                                               | 0.0012                      | 0.0018   |  | 0.018           | 0.4                                              | 10                                                                             |
| Lead *                                                                                                                                                 | < 0.0050                    | < 0.0050 |  | 0.025           | 0.5                                              | 10                                                                             |
| Antimony *                                                                                                                                             | < 0.0050                    | < 0.0050 |  | < 0.020         | 0.06                                             | 0.7                                                                            |
| Selenium *                                                                                                                                             | < 0.010                     | < 0.010  |  | < 0.040         | 0.1                                              | 0.5                                                                            |
| Zinc *                                                                                                                                                 | 0.017                       | 0.0335   |  | 0.32            | 4                                                | 50                                                                             |
| Chloride *                                                                                                                                             | < 4.0                       | < 4.0    |  | 15              | 800                                              | 15000                                                                          |
| Fluoride*                                                                                                                                              | 0.27                        | 0.43     |  | 4.2             | 10                                               | 150                                                                            |
| Sulphate *                                                                                                                                             | 43                          | 6.0      |  | 98              | 1000                                             | 20000                                                                          |
| TDS*                                                                                                                                                   | 290                         | 91       |  | 1100            | 4000                                             | 60000                                                                          |
| Phenol Index (Monohydric Phenols) *                                                                                                                    | < 0.13                      | < 0.13   |  | < 0.50          | 1                                                | -                                                                              |
| DOC                                                                                                                                                    | 14                          | 12       |  | 120             | 500                                              | 800                                                                            |
| <b>Leach Test Information</b>                                                                                                                          |                             |          |  |                 |                                                  |                                                                                |
| Stone Content (%)                                                                                                                                      | 42                          |          |  |                 |                                                  |                                                                                |
| Sample Mass (kg)                                                                                                                                       | 2.0                         |          |  |                 |                                                  |                                                                                |
| Dry Matter (%)                                                                                                                                         | 85                          |          |  |                 |                                                  |                                                                                |
| Moisture (%)                                                                                                                                           | 15                          |          |  |                 |                                                  |                                                                                |
| <b>Stage 1</b>                                                                                                                                         |                             |          |  |                 |                                                  |                                                                                |
| Volume Eluate L2 (litres)                                                                                                                              | 0.31                        |          |  |                 |                                                  |                                                                                |
| Filtered Eluate VE1 (litres)                                                                                                                           | 0.18                        |          |  |                 |                                                  |                                                                                |
|                                                                                                                                                        |                             |          |  |                 |                                                  |                                                                                |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only) |                             |          |  |                 |                                                  |                                                                                |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation ** = MCERTS accredited            |                             |          |  |                 |                                                  |                                                                                |

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.  
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.





4041



Environmental Science

**i2 Analytical**

7 Woodshots Meadow  
Croxley Green Business Park  
Watford, WD18 8YS

Telephone: 01923 225404  
Fax: 01923 237404  
email:reception@i2analytical.com

| Waste Acceptance Criteria Analytical Results                                                                         |                     |          |  |                 |                                            |                                                               |                          |
|----------------------------------------------------------------------------------------------------------------------|---------------------|----------|--|-----------------|--------------------------------------------|---------------------------------------------------------------|--------------------------|
| Report No:                                                                                                           | 23-31233            |          |  |                 |                                            |                                                               |                          |
|                                                                                                                      |                     |          |  |                 |                                            |                                                               |                          |
|                                                                                                                      |                     |          |  |                 | Client: G-EG                               |                                                               |                          |
| Location                                                                                                             | Old Sarum, Salsbury |          |  |                 |                                            |                                                               |                          |
| Lab Reference (Sample Number)                                                                                        | 2664592             |          |  |                 | Landfill Waste Acceptance Criteria         |                                                               |                          |
| Sampling Date                                                                                                        | 27/04/2023          |          |  |                 | Limits                                     |                                                               |                          |
| Sample ID                                                                                                            | SP03                |          |  |                 | Inert Waste Landfill                       | Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Depth (m)                                                                                                            |                     |          |  |                 |                                            |                                                               |                          |
|                                                                                                                      |                     |          |  |                 |                                            |                                                               |                          |
| Solid Waste Analysis                                                                                                 |                     |          |  |                 |                                            |                                                               |                          |
| TOC (%)**                                                                                                            | 2.0                 |          |  |                 | 3%                                         | 5%                                                            | 6%                       |
| Loss on Ignition (%) **                                                                                              | -                   |          |  |                 | --                                         | --                                                            | 10%                      |
| BTEX (µg/kg)                                                                                                         | < 10                |          |  |                 | 6000                                       | --                                                            | --                       |
| Sum of PCBs (mg/kg)                                                                                                  | < 0.30              |          |  |                 | 1                                          | --                                                            | --                       |
| Mineral Oil (mg/kg) EH, ID, CL, AL #                                                                                 | < 10                |          |  |                 | 500                                        | --                                                            | --                       |
| Total PAH (WAC-17) (mg/kg)                                                                                           | < 0.85              |          |  |                 | 100                                        | --                                                            | --                       |
| pH (units)**                                                                                                         | -                   |          |  |                 | --                                         | >6                                                            | --                       |
| Acid Neutralisation Capacity (mmol / kg)                                                                             | -                   |          |  |                 | --                                         | To be evaluated                                               | To be evaluated          |
| Eluate Analysis                                                                                                      | 2:1                 | 8:1      |  | Cumulative 10:1 | Limit values for compliance leaching test  |                                                               |                          |
| (BS EN 12457 - 3 preparation utilising end over end leaching procedure)                                              | mg/l                | mg/l     |  | mg/kg           | using BS EN 12457-3 at L/S 10 l/kg (mg/kg) |                                                               |                          |
| Arsenic *                                                                                                            | < 0.010             | < 0.010  |  | < 0.050         | 0.5                                        | 2                                                             | 25                       |
| Barium *                                                                                                             | 0.013               | 0.0063   |  | 0.070           | 20                                         | 100                                                           | 300                      |
| Cadmium *                                                                                                            | < 0.0005            | < 0.0005 |  | < 0.0020        | 0.04                                       | 1                                                             | 5                        |
| Chromium *                                                                                                           | < 0.0010            | < 0.0010 |  | 0.0073          | 0.5                                        | 10                                                            | 70                       |
| Copper *                                                                                                             | 0.016               | 0.012    |  | 0.12            | 2                                          | 50                                                            | 100                      |
| Mercury *                                                                                                            | < 0.0015            | < 0.0015 |  | < 0.010         | 0.01                                       | 0.2                                                           | 2                        |
| Molybdenum *                                                                                                         | < 0.0030            | < 0.0030 |  | < 0.020         | 0.5                                        | 10                                                            | 30                       |
| Nickel *                                                                                                             | 0.0010              | < 0.0010 |  | 0.0069          | 0.4                                        | 10                                                            | 40                       |
| Lead *                                                                                                               | 0.0054              | < 0.0050 |  | 0.028           | 0.5                                        | 10                                                            | 50                       |
| Antimony *                                                                                                           | < 0.0050            | < 0.0050 |  | < 0.020         | 0.06                                       | 0.7                                                           | 5                        |
| Selenium *                                                                                                           | < 0.010             | < 0.010  |  | < 0.040         | 0.1                                        | 0.5                                                           | 7                        |
| Zinc *                                                                                                               | 0.17                | 0.0062   |  | 0.25            | 4                                          | 50                                                            | 200                      |
| Chloride *                                                                                                           | < 4.0               | < 4.0    |  | < 15            | 800                                        | 15000                                                         | 25000                    |
| Fluoride*                                                                                                            | 0.30                | 0.52     |  | 4.9             | 10                                         | 150                                                           | 500                      |
| Sulphate *                                                                                                           | 13                  | 2.7      |  | 39              | 1000                                       | 20000                                                         | 50000                    |
| TDS*                                                                                                                 | 160                 | 76       |  | 860             | 4000                                       | 60000                                                         | 100000                   |
| Phenol Index (Monohydric Phenols) *                                                                                  | < 0.13              | < 0.13   |  | < 0.50          | 1                                          | -                                                             | -                        |
| DOC                                                                                                                  | 12                  | 12       |  | 120             | 500                                        | 800                                                           | 1000                     |
| Leach Test Information                                                                                               |                     |          |  |                 |                                            |                                                               |                          |
| Stone Content (%)                                                                                                    | < 0.1               |          |  |                 |                                            |                                                               |                          |
| Sample Mass (kg)                                                                                                     | 2.0                 |          |  |                 |                                            |                                                               |                          |
| Dry Matter (%)                                                                                                       | 84                  |          |  |                 |                                            |                                                               |                          |
| Moisture (%)                                                                                                         | 16                  |          |  |                 |                                            |                                                               |                          |
| Stage 1                                                                                                              |                     |          |  |                 |                                            |                                                               |                          |
| Volume Eluate L2 (litres)                                                                                            | 0.30                |          |  |                 |                                            |                                                               |                          |
| Filtered Eluate VE1 (litres)                                                                                         | 0.20                |          |  |                 |                                            |                                                               |                          |
| Results are expressed on a dry weight basis, after correction for moisture content where applicable.                 |                     |          |  |                 |                                            |                                                               |                          |
| Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation |                     |          |  |                 |                                            |                                                               |                          |
| ** = UKAS accredited (liquid eluate analysis only)                                                                   |                     |          |  |                 |                                            |                                                               |                          |
| ** = MCERTS accredited                                                                                               |                     |          |  |                 |                                            |                                                               |                          |

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.  
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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**Project / Site name: Old Sarum, Salisbury**

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

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

| Lab Sample Number | Sample Reference | Sample Number | Depth (m)     | Sample Description *    |
|-------------------|------------------|---------------|---------------|-------------------------|
| 2664591           | SP01             | None Supplied | None Supplied | Brown sand with stones. |
| 2664592           | SP03             | None Supplied | None Supplied | Brown sand with gravel. |

**Analytical Report Number : 23-31233**  
**Project / Site name: Old Sarum, Salisbury**

**Water matrix abbreviations:**

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

| Analytical Test Name                              | Analytical Method Description                                                                                                                          | Analytical Method Reference                                                                                     | Method number | Wet / Dry Analysis | Accreditation Status |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Moisture Content                                  | Moisture content, determined gravimetrically. (30 oC)                                                                                                  | In house method.                                                                                                | L019-UK/PL    | W                  | NONE                 |
| Stones content of soil                            | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.                            | In-house method based on British Standard Methods and MCERTS requirements.                                      | L019-UK/PL    | D                  | NONE                 |
| Preparation WAC leachate                          |                                                                                                                                                        | In-house method                                                                                                 | L043-PL       | W                  | NONE                 |
| Speciated WAC-17 PAHs in soil                     | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards. | In-house method based on USEPA 8270.                                                                            | L064-PL       | D                  | NONE                 |
| Chloride in WAC leachate (BS EN 12457-3 Prep)     | Determination of Chloride colorimetrically by discrete analyser.                                                                                       | In house based on MEWAM Method ISBN 0117516260.                                                                 | L082-PL       | W                  | ISO 17025            |
| Fluoride in WAC leachate (BS EN 12457-3 Prep)     | Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.                                          | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.                | L033-PL       | W                  | ISO 17025            |
| Phenol Index in WAC leachate (BS EN 12457-3 Prep) | Determination of monohydric phenols in leachate by continuous flow analyser.                                                                           | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL       | W                  | ISO 17025            |
| Sulphate in WAC leachate (BS EN 12457-3 Prep)     | Determination of sulphate in leachate by acidification followed by ICP-OES.                                                                            | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.                | L039-PL       | W                  | ISO 17025            |
| TDS in WAC leachate (BS EN 12457-3 Prep)          | Determination of total dissolved solids in leachate by electrometric measurement.                                                                      | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.                | L031-PL       | W                  | ISO 17025            |
| DOC in WAC leachate (BS EN 12457-3 Prep)          | Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser.                                                                        | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.                | L037-PL       | W                  | NONE                 |
| PCB's by GC-MS in soil                            | Determination of PCB by extraction with acetone and hexane followed by GC-MS.                                                                          | In-house method based on USEPA 8082                                                                             | L027-PL       | D                  | NONE                 |
| BTEX (Sum of BTEX compounds) in soil              | Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited                                                              | In-house method based on USEPA8260                                                                              | L073B-PL      | W                  | NONE                 |
| Mineral Oil in Soil C10 - C40                     | Determination of mineral oil fraction extractable hydrocarbons in soil by GC-FID.                                                                      | In-house method with silica gel split/clean up.                                                                 | L076-PL       | D                  | NONE                 |
| Total organic carbon in soil                      | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.                          | In house method.                                                                                                | L023-PL       | D                  | MCERTS               |
| Metals in WAC leachate (BS EN 12457-3 Prep)       | Determination of metals in leachate by acidification followed by ICP-OES.                                                                              | In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.                | L039-PL       | W                  | ISO 17025            |

**For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).**

**For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).**

**For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.**

**Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.**

**Analytical Report Number : 23-31233**  
**Project / Site name: Old Sarum, Salisbury**

**Water matrix abbreviations:**

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

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------|-------------------------------|-----------------------------|---------------|--------------------|----------------------|
|----------------------|-------------------------------|-----------------------------|---------------|--------------------|----------------------|

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

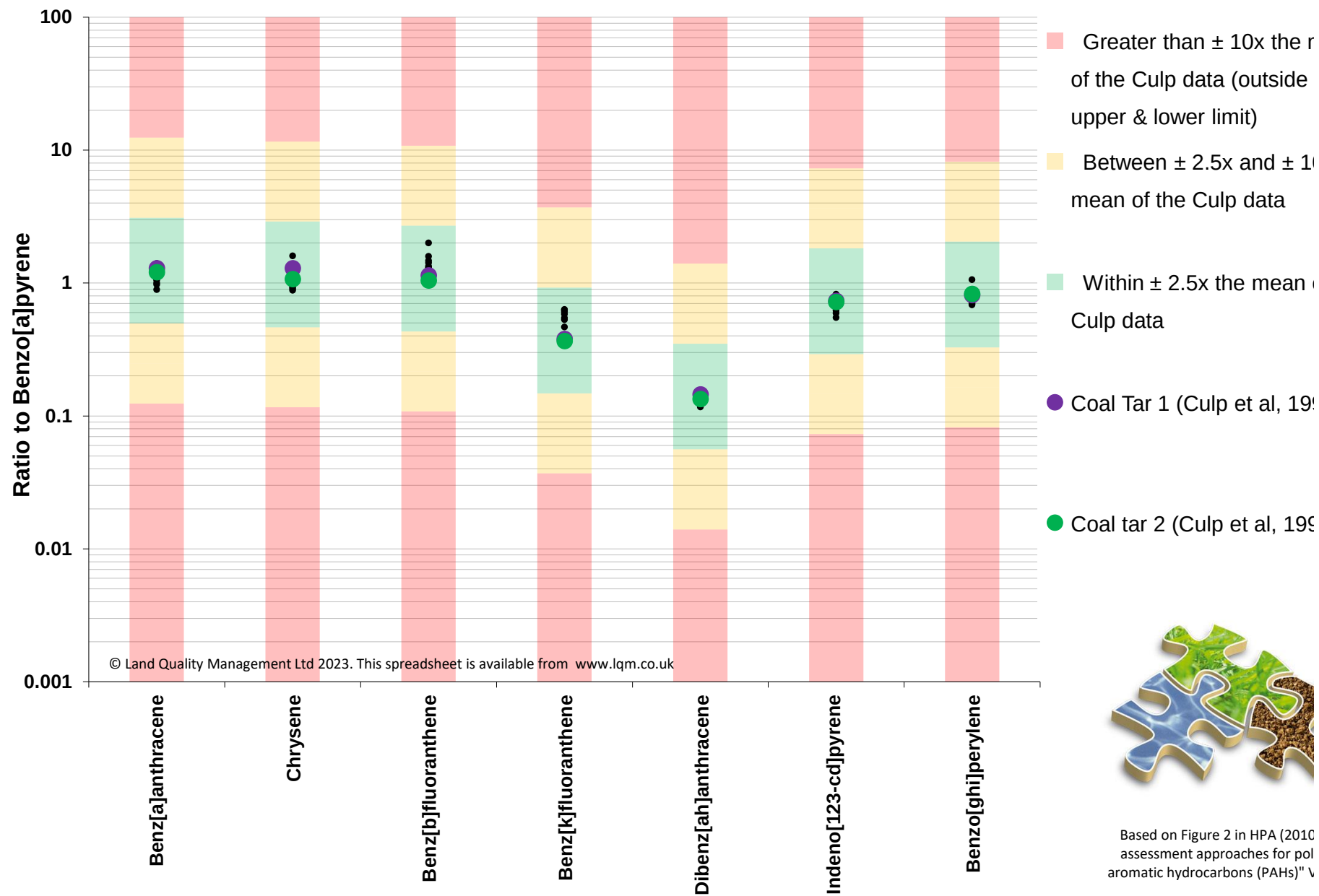


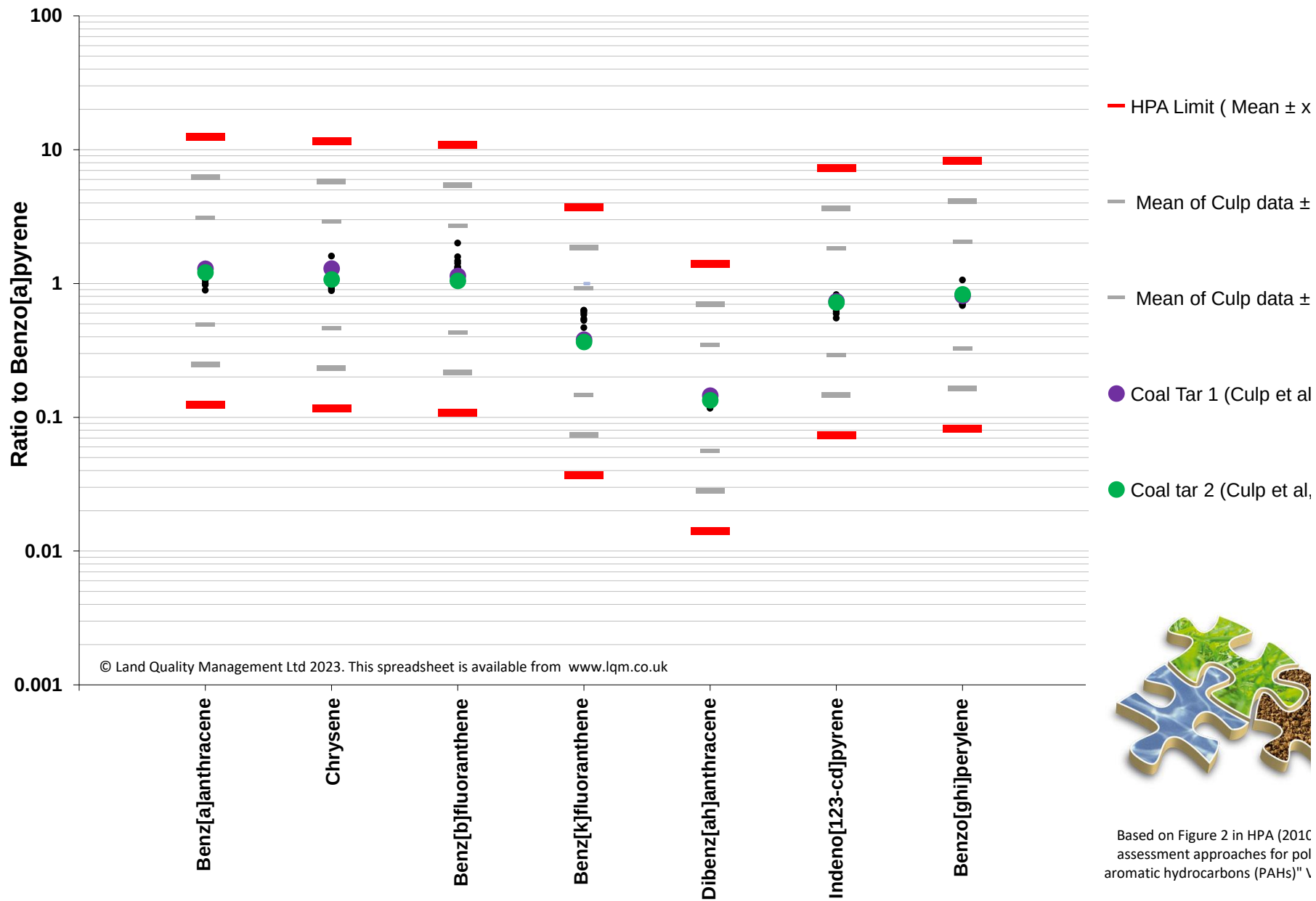
## **APPENDIX K**

### **PAH PROFILING**

[illegible]









## **APPENDIX L**

### **CONTAMINATION ASSESSMENT TABLES**

Table A: Direct Comparison with Critical Concentrations - Made Ground

|                                                                                   |                             |       |                                                     |            |            |            |            |            |            |                          |
|-----------------------------------------------------------------------------------|-----------------------------|-------|-----------------------------------------------------|------------|------------|------------|------------|------------|------------|--------------------------|
|  |                             |       | GEG-23-786 / Land North of Bunting Lane , Old Sarum |            |            |            |            |            |            |                          |
| Lab Reference                                                                     |                             |       | 2664570                                             | 2664575    | 2664577    | 2664582    | 2664584    | 2664586    | 2664590    |                          |
| Sample Reference                                                                  |                             |       | IT01                                                | TP01       | TP03       | TP07       | TP08       | TP09       | TP13       |                          |
| Depth (m)                                                                         |                             |       | 0.40                                                | 0.10       | 0.30       | 0.10       | 0.30       | 0.40       | 0.30       |                          |
| Date Sampled                                                                      |                             |       | 26/04/2023                                          | 26/04/2026 | 26/04/2028 | 26/04/2033 | 26/04/2035 | 27/04/2019 | 27/04/2023 |                          |
| Determinand                                                                       | Critical Concentration (Cc) | Units |                                                     |            |            |            |            |            |            | No. of Samples Exceeding |
| <b>Metals, Semi Metals and Non-Metals</b>                                         |                             |       |                                                     |            |            |            |            |            |            |                          |
| Arsenic                                                                           | 37                          | mg/kg | 8.6                                                 | 6.3        | 6.0        | 7.6        | 8.5        | 10         | 7.5        | 0 [7]                    |
| Boron                                                                             | 291                         | mg/kg | 0.8                                                 | 1.0        | 0.9        | < 0.2      | 0.4        | 1.1        | 0.5        | 0 [7]                    |
| Cadmium                                                                           | 22                          | mg/kg | 0.6                                                 | 0.9        | 0.8        | 1.1        | 1.2        | 1.0        | 0.5        | 0 [7]                    |
| Chromium (trivalent)                                                              | 3000                        | mg/kg | 18                                                  | 18         | 16         | 13         | 27         | 50         | 11         | 0 [7]                    |
| Chromium VI                                                                       | 21                          | mg/kg | < 1.2                                               | < 1.2      | < 1.2      | < 1.2      | < 1.2      | < 1.2      | < 1.2      | 0 [7]                    |
| Copper                                                                            | 2330                        | mg/kg | 16                                                  | 10         | 8.8        | 12         | 17         | 17         | 13         | 0 [7]                    |
| Lead                                                                              | 200                         | mg/kg | 27                                                  | 18         | 17         | 170        | 28         | 31         | 51         | 0 [7]                    |
| Mercury                                                                           | 1                           | mg/kg | < 0.3                                               | < 0.3      | < 0.3      | < 0.3      | < 0.3      | < 0.3      | < 0.3      | 0 [7]                    |
| Nickel                                                                            | 130                         | mg/kg | 13                                                  | 15         | 14         | 10         | 22         | 15         | 8          | 0 [7]                    |
| Selenium                                                                          | 350                         | mg/kg | < 1.0                                               | < 1.0      | < 1.0      | < 1.0      | < 1.0      | < 1.0      | < 1.0      | 0 [7]                    |
| Zinc                                                                              | 3750                        | mg/kg | 82                                                  | 64         | 53         | 220        | 83         | 110        | 100        | 0 [7]                    |
| <b>Inorganics</b>                                                                 |                             |       |                                                     |            |            |            |            |            |            |                          |
| Cyanide(total)                                                                    | 31                          | mg/kg | < 1.0                                               | < 1.0      | < 1.0      | < 1.0      | < 1.0      | < 1.0      | < 1.0      | 0 [7]                    |
| Cyanide(free)                                                                     | 31                          | mg/kg | < 1.0                                               | < 1.0      | < 1.0      | < 1.0      | < 1.0      | < 1.0      | < 1.0      | 0 [7]                    |
| <b>Petroleum Hydrocarbons</b>                                                     |                             |       |                                                     |            |            |            |            |            |            |                          |
| TPH (C5-C8)                                                                       | 7                           | mg/kg | < 0.1                                               | < 0.1      | < 0.1      | < 0.1      | < 0.1      | < 0.1      | < 0.1      | 0 [7]                    |
| TPH (C8-C10)                                                                      | 13                          | mg/kg | < 0.1                                               | < 0.1      | < 0.1      | < 0.1      | < 0.1      | < 0.1      | < 0.1      | 0 [7]                    |
| TPH (C10-C12)                                                                     | 61                          | mg/kg | < 2.0                                               | < 2.0      | < 2.0      | < 2.0      | < 2.0      | < 2.0      | < 2.0      | 0 [7]                    |
| TPH (C12-C16)                                                                     | 185                         | mg/kg | < 4.0                                               | < 4.0      | < 4.0      | < 4.0      | < 4.0      | < 4.0      | < 4.0      | 0 [7]                    |
| TPH (C16-C21)                                                                     | 474                         | mg/kg | 6.2                                                 | < 1.0      | < 1.0      | 4          | < 1.0      | 1.1        | 4.5        | 0 [7]                    |
| TPH (C21-C35)                                                                     | 1770                        | mg/kg | 50                                                  | < 1.0      | < 1.0      | 9.9        | < 1.0      | 53         | 51         | 0 [7]                    |
| TPH (C35-C40)                                                                     | 1770                        | mg/kg | 83                                                  | < 10       | < 10       | < 10       | < 10       | 99         | 87         | 0 [7]                    |
| <b>Polyaromatic Hydrocarbons</b>                                                  |                             |       |                                                     |            |            |            |            |            |            |                          |
| Naphthalene                                                                       | 0.96                        | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Acenaphthylene                                                                    | 173                         | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Acenaphthene                                                                      | 209                         | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Fluorene                                                                          | 169                         | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Phenanthrene                                                                      | 97                          | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Anthracene                                                                        | 2350                        | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Fluoranthene                                                                      | 285                         | mg/kg | -                                                   | 0.09       | -          | -          | 0.12       | -          | -          | 0 [2]                    |
| Pyrene                                                                            | 621                         | mg/kg | -                                                   | 0.09       | -          | -          | 0.12       | -          | -          | 0 [2]                    |
| Benzo(a)Anthracene                                                                | 7.5                         | mg/kg | -                                                   | 0.06       | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Chrysene                                                                          | 15                          | mg/kg | -                                                   | 0.05       | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Benzo(b)fluoranthene                                                              | 2.6                         | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Benzo(k)fluoranthene                                                              | 77                          | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Benzo(a)Pyrene                                                                    | 5                           | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Indeno(123-cd)Pyrene                                                              | 27                          | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Dibenzo(ah)Anthracene                                                             | 0.24                        | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Benzo(ghi)Perylene                                                                | 315                         | mg/kg | -                                                   | < 0.05     | -          | -          | < 0.05     | -          | -          | 0 [2]                    |
| Benzo(a)Pyrene Surrogate Marker                                                   | 5                           | mg/kg | 0.84                                                | -          | 0.05       | 0.79       | -          | 0.17       | 0.64       | 0 [5]                    |
| <b>Others</b>                                                                     |                             |       |                                                     |            |            |            |            |            |            |                          |
| Phenol                                                                            | 198                         | mg/kg | < 1.0                                               | < 1.0      | < 1.0      | < 1.0      | < 1.0      | < 1.0      | < 1.0      | 0 [7]                    |
| pH                                                                                | -                           | -     | 10.8                                                | 9.2        | 7.9        | 8.1        | 7.9        | 8          | 9.5        | -                        |
| SOM                                                                               | -                           | %     | 2.5                                                 | 3.6        | 3          | 2.1        | 4.6        | 3.5        | 1.5        | -                        |
| Asbestos                                                                          | -                           | ND    | -                                                   | -          | -          | ND         | -          | -          | ND         | 0 [2]                    |

ND = Non Detected

Table B: PAH Inhalation Assessment

|                                                                                   |                          |       |                                                     |            |            |            |            |            |            |            |            |                          |
|-----------------------------------------------------------------------------------|--------------------------|-------|-----------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------------|
|  |                          |       | GEG-23-786 / Land North of Bunting Lane , Old Sarum |            |            |            |            |            |            |            |            |                          |
| SAL Reference                                                                     |                          |       | 2664571                                             | 2664572    | 2664570    | 2664577    | 2664579    | 2664582    | 2664586    | 2664588    | 2664590    |                          |
| Sample Reference                                                                  |                          |       | SP01                                                | SP02       | IT01       | TP03       | TP05       | TP07       | TP09       | TP12       | TP13       |                          |
| Depth (m)                                                                         |                          |       |                                                     |            | 0.40       | 0.30       | 0.10       | 0.10       | 0.40       | 0.10       | 0.30       |                          |
| Date Sampled                                                                      |                          |       | 27/04/2023                                          | 27/04/2023 | 26/04/2023 | 26/04/2028 | 26/04/2030 | 26/04/2033 | 27/04/2019 | 27/04/2021 | 27/04/2023 |                          |
| Determinand                                                                       | Inhalation Criteria (IC) | Units |                                                     |            |            |            |            |            |            |            |            | No. of Samples Exceeding |
| <b>Polyaromatic Hydrocarbons</b>                                                  |                          |       |                                                     |            |            |            |            |            |            |            |            |                          |
| Naphthalene                                                                       | 0.99                     | mg/kg | < 0.05                                              | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | 0 [9]                    |
| Acenaphthylene                                                                    | 2770                     | mg/kg | 0.09                                                | 0.09       | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | 0.09       | 0 [9]                    |
| Acenaphthene                                                                      | 2730                     | mg/kg | < 0.05                                              | 0.12       | 0.06       | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | 0 [9]                    |
| Fluorene                                                                          | 4010                     | mg/kg | < 0.05                                              | 0.11       | 0.05       | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | 0 [9]                    |
| Phenanthrene                                                                      | 6550                     | mg/kg | 0.59                                                | 1.70       | 0.62       | < 0.05     | 0.14       | 1.20       | < 0.05     | 0.25       | 0.27       | 0 [9]                    |
| Anthracene                                                                        | 70400                    | mg/kg | 0.10                                                | 0.31       | 0.19       | < 0.05     | < 0.05     | 0.29       | < 0.05     | 0.07       | 0.11       | 0 [9]                    |
| Fluoranthene                                                                      | 42800                    | mg/kg | 1.30                                                | 3.00       | 1.50       | 0.12       | 0.24       | 1.50       | 0.21       | 0.46       | 0.92       | 0 [9]                    |
| Pyrene                                                                            | 100000                   | mg/kg | 1.20                                                | 2.80       | 1.40       | 0.11       | 0.21       | 1.30       | 0.22       | 0.43       | 0.94       | 0 [9]                    |
| Benzo(a)Anthracene                                                                | 28.4                     | mg/kg | 0.63                                                | 1.50       | 0.98       | 0.07       | 0.14       | 0.77       | 0.17       | 0.27       | 0.57       | 0 [9]                    |
| Chrysene                                                                          | 122                      | mg/kg | 0.61                                                | 1.30       | 0.80       | 0.08       | 0.14       | 0.77       | 0.15       | 0.24       | 0.58       | 0 [9]                    |
| Benzo(b)fluoranthene                                                              | 19.3                     | mg/kg | 0.80                                                | 1.80       | 1.10       | 0.10       | 0.19       | 0.92       | 0.25       | 0.34       | 0.76       | 0 [9]                    |
| Benzo(k)fluoranthene                                                              | 546                      | mg/kg | 0.28                                                | 0.55       | 0.53       | < 0.05     | 0.07       | 0.43       | 0.09       | 0.15       | 0.39       | 0 [9]                    |
| Benzo(a)Pyrene                                                                    | 35.5                     | mg/kg | 0.60                                                | 1.40       | 0.84       | 0.05       | 0.12       | 0.79       | 0.17       | 0.24       | 0.64       | 0 [9]                    |
| Indeno(123-cd)Pyrene                                                              | 215                      | mg/kg | 0.33                                                | 0.83       | 0.52       | < 0.05     | < 0.05     | 0.51       | 0.14       | 0.16       | 0.43       | 0 [9]                    |
| Dibenzo(ah)Anthracene                                                             | 1.48                     | mg/kg | 0.07                                                | 0.17       | 0.12       | < 0.05     | < 0.05     | < 0.05     | < 0.05     | < 0.05     | 0.10       | 0 [9]                    |
| Benzo(ghi)Perylene                                                                | 1900                     | mg/kg | 0.41                                                | 0.98       | 0.63       | < 0.05     | < 0.05     | 0.55       | 0.18       | 0.19       | 0.52       | 0 [9]                    |

Table C: Direct Comparison with Critical Concentrations - Natural Ground

|                                                                                   |                             |                                                     |            |            |       |                          |
|-----------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------|------------|------------|-------|--------------------------|
|  |                             | GEG-23-786 / Land North of Bunting Lane , Old Sarum |            |            |       |                          |
| Lab Reference                                                                     |                             | 2664579                                             | 2664587    | 2664588    |       |                          |
| Sample Reference                                                                  |                             | TP05                                                | TP11       | TP12       |       |                          |
| Depth (m)                                                                         |                             | 0.10                                                | 0.10       | 0.10       |       |                          |
| Date Sampled                                                                      |                             | 26/04/2030                                          | 27/04/2020 | 27/04/2021 |       |                          |
| Determinand                                                                       | Critical Concentration (Cc) | Units                                               |            |            |       | No. of Samples Exceeding |
| <b>Metals, Semi Metals and Non-Metals</b>                                         |                             |                                                     |            |            |       |                          |
| Arsenic                                                                           | 37                          | mg/kg                                               | 7.1        | 8.6        | 7.0   | 0 [3]                    |
| Boron                                                                             | 291                         | mg/kg                                               | 1.0        | 0.7        | 2.7   | 0 [3]                    |
| Cadmium                                                                           | 22                          | mg/kg                                               | 0.9        | 1.1        | 1     | 0 [3]                    |
| Chromium (trivalent)                                                              | 3000                        | mg/kg                                               | 19         | 25         | 16    | 0 [3]                    |
| Chromium VI                                                                       | 21                          | mg/kg                                               | <1.2       | <1.2       | <1.2  | 0 [3]                    |
| Copper                                                                            | 2330                        | mg/kg                                               | 12         | 21         | 12    | 0 [3]                    |
| Lead                                                                              | 200                         | mg/kg                                               | 29         | 30         | 24    | 0 [3]                    |
| Mercury                                                                           | 1                           | mg/kg                                               | < 0.3      | < 0.3      | < 0.3 | 0 [3]                    |
| Nickel                                                                            | 130                         | mg/kg                                               | 17         | 21         | 14    | 0 [3]                    |
| Selenium                                                                          | 350                         | mg/kg                                               | < 1.0      | < 1.0      | < 1.0 | 0 [3]                    |
| Zinc                                                                              | 3750                        | mg/kg                                               | 67         | 85         | 70    | 0 [3]                    |
| <b>Inorganics</b>                                                                 |                             |                                                     |            |            |       |                          |
| Cyanide(total)                                                                    | 31                          | mg/kg                                               | < 1.0      | < 1.0      | < 1.0 | 0 [3]                    |
| Cyanide(free)                                                                     | 31                          | mg/kg                                               | < 1.0      | < 1.0      | < 1.0 | 0 [3]                    |
| <b>Petroleum Hydrocarbons</b>                                                     |                             |                                                     |            |            |       |                          |
| TPH (C5-C8)                                                                       | 7                           | mg/kg                                               | < 0.1      | < 0.1      | < 0.1 | 0 [3]                    |
| TPH (C8-C10)                                                                      | 13                          | mg/kg                                               | < 0.1      | < 0.1      | < 0.1 | 0 [3]                    |
| TPH (C10-C12)                                                                     | 61                          | mg/kg                                               | < 2.0      | < 2.0      | < 2.0 | 0 [3]                    |
| TPH (C12-C16)                                                                     | 185                         | mg/kg                                               | < 4.0      | < 4.0      | < 4.0 | 0 [3]                    |
| TPH (C16-C21)                                                                     | 474                         | mg/kg                                               | < 1.0      | < 1.0      | < 1.0 | 0 [3]                    |
| TPH (C21-C35)                                                                     | 1770                        | mg/kg                                               | < 1.0      | < 1.0      | < 1.0 | 0 [3]                    |
| TPH (C35-C40)                                                                     | 1770                        | mg/kg                                               | < 10       | < 10       | < 10  | 0 [3]                    |
| <b>Polyaromatic Hydrocarbons</b>                                                  |                             |                                                     |            |            |       |                          |
| Naphthalene                                                                       | 0.96                        | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Acenaphthylene                                                                    | 173                         | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Acenaphthene                                                                      | 209                         | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Fluorene                                                                          | 169                         | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Phenanthrene                                                                      | 97                          | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Anthracene                                                                        | 2350                        | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Fluoranthene                                                                      | 285                         | mg/kg                                               | -          | 0.10       | -     | 0 [1]                    |
| Pyrene                                                                            | 621                         | mg/kg                                               | -          | 0.09       | -     | 0 [1]                    |
| Benzo(a)Anthracene                                                                | 7.5                         | mg/kg                                               | -          | 0.06       | -     | 0 [1]                    |
| Chrysene                                                                          | 15                          | mg/kg                                               | -          | 0.06       | -     | 0 [1]                    |
| Benzo(b)fluoranthene                                                              | 2.6                         | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Benzo(k)fluoranthene                                                              | 77                          | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Benzo(a)Pyrene                                                                    | 5                           | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Indeno(123-cd)Pyrene                                                              | 27                          | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Dibenzo(ah)Anthracene                                                             | 0.24                        | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Benzo(ghi)Perylene                                                                | 315                         | mg/kg                                               | -          | < 0.05     | -     | 0 [1]                    |
| Benzo(a)Pyrene Surrogate Marker                                                   | 5                           | mg/kg                                               | 0.12       | -          | 0.24  | 0 [2]                    |
| <b>Others</b>                                                                     |                             |                                                     |            |            |       |                          |
| Phenol                                                                            | 198                         | mg/kg                                               | < 1.0      | < 1.0      | < 1.0 | 0 [3]                    |
| pH                                                                                | -                           | -                                                   | 8          | 7.6        | 7.9   | -                        |
| SOM                                                                               | -                           | %                                                   | 4.1        | 4.9        | 4.1   | -                        |



Table D: Direct Comparison with Critical Concentrations - Topsoil Stockpile

|                                                                                   |                             |                                                     |            |            |            |        |                          |
|-----------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------|------------|------------|------------|--------|--------------------------|
|  |                             | GEG-23-786 / Land North of Bunting Lane , Old Sarum |            |            |            |        |                          |
| Lab Reference                                                                     |                             | 2664571                                             | 2664572    | 2664573    | 2664574    |        |                          |
| Sample Reference                                                                  |                             | SP01                                                | SP02       | SP03       | SP04       |        |                          |
| Date Sampled                                                                      |                             | 27/04/2023                                          | 27/04/2023 | 27/04/2023 | 27/04/2023 |        |                          |
| Determinand                                                                       | Critical Concentration (Cc) | Units                                               |            |            |            |        | No. of Samples Exceeding |
| <b>Metals, Semi Metals and Non-Metals</b>                                         |                             |                                                     |            |            |            |        |                          |
| Arsenic                                                                           | 37                          | mg/kg                                               | 7.4        | 8.3        | 7.7        | 8.6    | 0 [4]                    |
| Boron                                                                             | 291                         | mg/kg                                               | 0.8        | 0.9        | 0.6        | 2.9    | 0 [4]                    |
| Cadmium                                                                           | 22                          | mg/kg                                               | 1          | 1.1        | 1.1        | 1.2    | 0 [4]                    |
| Chromium (trivalent)                                                              | 3000                        | mg/kg                                               | 17         | 20         | 23         | 26     | 0 [4]                    |
| Chromium VI                                                                       | 21                          | mg/kg                                               | < 1.2      | < 1.2      | < 1.2      | < 1.2  | 0 [4]                    |
| Copper                                                                            | 2330                        | mg/kg                                               | 11         | 13         | 14         | 14     | 0 [4]                    |
| Lead                                                                              | 200                         | mg/kg                                               | 36         | 58         | 22         | 26     | 0 [4]                    |
| Mercury                                                                           | 1                           | mg/kg                                               | < 0.3      | < 0.3      | < 0.3      | < 0.3  | 0 [4]                    |
| Nickel                                                                            | 130                         | mg/kg                                               | 14         | 17         | 19         | 22     | 0 [4]                    |
| Selenium                                                                          | 350                         | mg/kg                                               | < 1.0      | < 1.0      | < 1.0      | < 1.0  | 0 [4]                    |
| Zinc                                                                              | 3750                        | mg/kg                                               | 63         | 75         | 70         | 81     | 0 [4]                    |
| <b>Inorganics</b>                                                                 |                             |                                                     |            |            |            |        |                          |
| Cyanide(total)                                                                    | 31                          | mg/kg                                               | < 1.0      | < 1.0      | < 1.0      | < 1.0  | 0 [4]                    |
| Cyanide(free)                                                                     | 31                          | mg/kg                                               | < 1.0      | < 1.0      | < 1.0      | < 1.0  | 0 [4]                    |
| <b>Petroleum Hydrocarbons</b>                                                     |                             |                                                     |            |            |            |        |                          |
| TPH (C5-C8)                                                                       | 7                           | mg/kg                                               | < 0.1      | < 0.1      | < 0.1      | < 0.1  | 0 [4]                    |
| TPH (C8-C10)                                                                      | 13                          | mg/kg                                               | < 0.1      | < 0.1      | < 0.1      | < 0.1  | 0 [4]                    |
| TPH (C10-C12)                                                                     | 61                          | mg/kg                                               | < 2.0      | < 2.0      | < 2.0      | < 2.0  | 0 [4]                    |
| TPH (C12-C16)                                                                     | 185                         | mg/kg                                               | < 4.0      | < 4.0      | < 4.0      | < 4.0  | 0 [4]                    |
| TPH (C16-C21)                                                                     | 474                         | mg/kg                                               | 2.2        | 4.3        | < 1.0      | < 1.0  | 0 [4]                    |
| TPH (C21-C35)                                                                     | 1770                        | mg/kg                                               | 8.4        | 26         | < 1.0      | < 1.0  | 0 [4]                    |
| TPH (C35-C40)                                                                     | 1770                        | mg/kg                                               | < 10       | 46         | < 10       | < 10   | 0 [4]                    |
| <b>Polyaromatic Hydrocarbons</b>                                                  |                             |                                                     |            |            |            |        |                          |
| Naphthalene                                                                       | 0.96                        | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Acenaphthylene                                                                    | 173                         | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Acenaphthene                                                                      | 209                         | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Fluorene                                                                          | 169                         | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Phenanthrene                                                                      | 97                          | mg/kg                                               | -          | -          | < 0.05     | 0.09   | 0 [2]                    |
| Anthracene                                                                        | 2350                        | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Fluoranthene                                                                      | 285                         | mg/kg                                               | -          | -          | 0.07       | 0.13   | 0 [2]                    |
| Pyrene                                                                            | 621                         | mg/kg                                               | -          | -          | 0.07       | 0.10   | 0 [2]                    |
| Benzo(a)Anthracene                                                                | 7.5                         | mg/kg                                               | -          | -          | < 0.05     | 0.05   | 0 [2]                    |
| Chrysene                                                                          | 15                          | mg/kg                                               | -          | -          | < 0.05     | 0.06   | 0 [2]                    |
| Benzo(b)fluoranthene                                                              | 2.6                         | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Benzo(k)fluoranthene                                                              | 77                          | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Benzo(a)Pyrene                                                                    | 5                           | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Indeno(123-cd)Pyrene                                                              | 27                          | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Dibenzo(ah)Anthracene                                                             | 0.24                        | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Benzo(ghi)Perylene                                                                | 315                         | mg/kg                                               | -          | -          | < 0.05     | < 0.05 | 0 [2]                    |
| Benzo(a)Pyrene Surrogate Marker                                                   | 5                           | mg/kg                                               | 0.60       | 1.40       | -          | -      | 0 [2]                    |
| <b>Others</b>                                                                     |                             |                                                     |            |            |            |        |                          |
| Phenol                                                                            | 198                         | mg/kg                                               | < 1.0      | < 1.0      | < 1.0      | < 1.0  | 0 [4]                    |
| pH                                                                                | -                           | -                                                   | 7.8        | 7.7        | 7.8        | 8      | -                        |
| SOM                                                                               | -                           | %                                                   | 4.7        | 5.3        | 4          | 4.7    | -                        |
| Asbestos                                                                          | -                           | %                                                   | ND         | ND         | ND         | ND     | 0 [4]                    |

