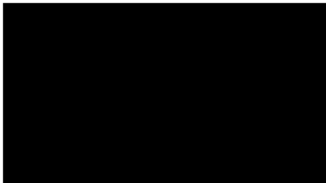
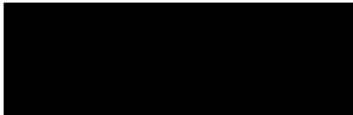


GROUND APPRAISAL REPORT
for the land at
STATION ROAD, COWFOLD,
WEST SUSSEX
on behalf of
DEVINE HOMES PLC





Report:	GROUND APPRAISAL REPORT
Site:	STATION ROAD, COWFOLD, WEST SUSSEX
Client:	DEVINE HOMES PLC
Date:	30/06/2021
Reference:	GE19071-GAR-JUN21
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EXECUTIVE SUMMARY		
Site Details	Site Address	Land South of Station Road, Cowfold
	National Grid Reference	520960, 122580
	Site Area	5.46 Ha
	Form of Development	It is understood the proposed redevelopment was to comprises houses, private gardens, access roads, parking and associated infrastructure, with a proposed new school drop-off zone/car park and allotments. The final development plan are yet to be decided by Devine Homes.
Encountered Conditions	Scope of works	The investigation included a desk study coupled with intrusive geotechnical and geo-environmental ground investigation with laboratory testing to inform geotechnical and geo-environmental assessments for the proposed development.
	Ground Conditions	The ground conditions encountered comprised Topsoil and over the Horsham Stone Member.
	Groundwater	Groundwater was not encountered during drilling. Return monitoring visits were completed on 20 th April and 5 th May 2021 which recorded groundwater within the installed wells between 1.16m and 2.56m bgl respectively.
Geotechnical Considerations	Foundations	Based on the ground and groundwater conditions encountered in the boreholes, conventional strip or isolated pad and beam foundations may be considered, albeit foundation depths will need to be deepened within the moisture demand zone of trees. It is recommended that the NHBC Standards, Chapter 4.2 be adopted for the classification of volume change potential and the design foundation depth within the zone of influence of trees. The Weald Clay Formation should be classified en masse as medium volume change potential. Remote from trees a minimum foundation depth of 0.90m is recommended within the natural soils. Heave protection measures in accordance with the NHBC Standards, Chapter 4.2 will also be required where the calculated foundation depth exceeds 1.50m on account of trees. An allowable bearing pressure of 125kPa is considered suitable for conventional foundations up to 1.50m in width taken down to bear within the Weald Clay Formation. Under the above loadings, settlements should remain within tolerable limits for the proposed construction. Due to the proposed 10m landscape buffer it is unlikely that calculated foundation depths on account of trees and the medium volume change potential soils would necessitate piling. Depending on the nature of the proposed school building and the column loads, consideration may need to be given to deeper foundation taken down to bear on the weak sandstone or a piled foundation solution. Further investigation recommended of the school expansion site to provide a more robust risk assessment.



EXECUTIVE SUMMARY		
	Floor Slabs	Suspended floor slabs recommended with the depth of the floor void designed in accordance with the NHBC Standards, Chapter 4.2.
	Excavations	Shallow excavations within the Weald Clay Formation should remain relatively stable in the short to medium term, though some localized spalling may be anticipated. Long, deep excavations within Weald Clay Formation are likely to be prone to instability, particularly where left open for prolonged periods, or open to wet weather conditions and should be battered back to a safe angle, or suitable shoring techniques should be adopted to provide stability.
	Pavements	It is recommended that a preliminary CBR value of 4% is recommended for the natural soils across the site.
	Soakaways	Shallow conventional soakaways are not considered appropriate for the site based on the soakage test results.
	Buried Concrete	Buried concrete for shallow foundations should be designed to Class DS-1 of BRE Special Digest 1, with an ACEC class of AC-1s.
Environmental Considerations	Human Health	Based on the results of the testing, remedial measures are unlikely to be required. However, an effective discovery strategy should be implemented on site.
	Ground Gases	On the basis of the preliminary gas data collected and the gas assessment, the results correspond to a preliminary Characteristic Situation 1 (BS8485 and CIRIA).
	Built Environment	The results of the relevant chemical analyses indicated barrier pipe is unlikely to be required. It is recommended that the results of this investigation be presented to the water utility company as soon as reasonably practicable in order to confirm the pipe material.
	Waste Disposal	The results of the laboratory testing were submitted for Catwaste classification, the results indicated that the near surface soils do not have properties that would deem the material hazardous waste. WAC testing on three shallow samples of soil indicated the results met the thresholds for acceptance at an inert landfill facility. Natural uncontaminated soils (Weald Clay Formation) are likely be classified as Inert Waste (under the respective EWC codes for naturally occurring soils), suitable for disposal at an inert landfill facility.
Further Action: • Further investigation of the school expansion site recommended once plans are finalised. • The results of the chemical tests should be sent to the potable water supplier to provide advice on suitable pipe materials. • Issue this report to the Planning Officer.		
<i>This Executive Summary is intended to provide a brief summary of the main findings and conclusions of the investigation. For detailed information, the reader is referred to the main report ref. GE19071/GAR/JAN21.</i>		



1.0 INTRODUCTION

1.1 General

Geo-Environmental Services Limited (Geo-Environmental) was instructed by Devine Homes PLC (Devine Homes) to undertake an investigation into the geotechnical and geo-environmental factors pertaining to the planned redevelopment of the land south of Station Road, Cowfold, West Sussex, herein referred to as 'the site'. The site's location is presented in Figure 1.

1.2 Form of Development

It is understood the proposed redevelopment was to comprises houses, private gardens, access roads, parking and associated infrastructure, with a proposed new school drop-off zone/car park and allotments. The final development plan are yet to be decided by Devine Homes.

1.3 Objectives

The investigation was to comprise a desk study of geotechnical and environmental factors pertaining to the site, including a site walkover survey, a review of available historical maps and an examination of other sources of geo-environmental and geotechnical information. Subject to the findings of the desk study, an intrusive investigation was to be undertaken into the geotechnical and geo-environmental conditions pertaining to the site.

The data from the geotechnical investigation was to form the basis of a preliminary interpretation with respect to foundation design, concrete specification, pavement design and excavation stability.

In terms of the environmental investigation a Preliminary Risk Assessment (PRA) was undertaken as part of the desk study in accordance with LCRM, in order to identify any specific requirement for and scope of any further assessment. The objective of the risk assessments was to evaluate the risks posed to the proposed redevelopment, adjacent land uses and the wider environment, in the context of likely planning requirements, immediate liabilities under the Environmental Protection Act 1990 and risks posed to Controlled Waters under the Water Resources Act from the current status of the site and in line with the proposed redevelopment.

1.4 Standards and References

Where practicable, the ground investigation and subsequent geotechnical and environmental assessments were undertaken in accordance with the following documents and guidance.

- National Planning Policy Framework – February 2019
- Land Contamination Risk Management (LCRM) Environment Agency October 2020;
- Environment Agency Guidance on Requirements for Land Contamination Reports, Version 1 dated July 2005;
- BS10175:2011+A1:2013 - Investigation of Potentially Contaminated Sites - Code of Practice, BSI 2013;
- BS5930: 2015 - Code of Practice for Site Investigations, BSI 2015;
- EN ISO 14688 Geotechnical Investigation and Testing Part 1-2002 and Part 2-2004;
- BS1377: 1990 - Soils for Civil Engineering Purposes, BSI1990;
- NHBC Standards Chapter 4.1 Land Quality - Managing Ground Conditions, September 1999;

- NHBC Standards Chapter 4.2 Building Near Trees;
- CIRIA C665 – Assessing risks posed by hazardous ground gases to buildings (2007);
- NHBC 10627-R01(04)- Guidance on evaluation of development proposals on sites where methane and carbon dioxide are present (2007);
- BS8485:2015+A1:2019 Code of practice for the characterisation and remediation from ground gas in affected developments.

1.5 Conditions

This report does not purport to be a “Geotechnical Design Report” as defined in Clause 2.8 of Eurocode 7 (Geotechnical Design BS EN 1997-1:2004) and some of the data used to support this preliminary geotechnical assessment may not be fully compliant with that design code. It is considered possible that further detailed ground investigations could be required to facilitate the detailed geotechnical design process and should be carried out on a structure specific basis if necessary.

The data collected from the investigations have been used to provide an interpretation of the geotechnical and/or environmental conditions pertaining to the site. The recommendations and opinions expressed in this report are based on the data obtained. Geo-Environmental takes no responsibility for conditions that either have not been revealed in the available records, or that occur between or under points of physical investigation. Whilst every effort has been made to interpret the conditions, such information is only indicative and liability cannot be accepted for its accuracy.

It should be noted that in particular the concentrations and levels of mobile liquid and gaseous materials are likely to vary with time. The results obtained may therefore only be representative of the conditions at the time of sampling. This report should not be taken as any guarantee that a site is free of hazardous or potentially contaminative materials.

Information contained in this report is intended for the use of the Client and Geo-Environmental can take no responsibility for the use of this information by any party for uses other than that described in this report. Geo-Environmental makes no warranty or representation whatsoever express or implied with respect to the use of this information by any third party. Geo-Environmental does not indemnify the Client or any third parties against any dispute or claim arising from any finding or other result of this investigation report or any consequential losses.

Assessment criteria or other parameters developed for the evaluation of contamination on this site are based on a number of assumptions regarding exposure and toxicology. Exposure to contaminants and levels of adverse effects may therefore vary. Whilst reasonable care and expertise has been employed in the development of such criteria, no liability is accepted in this respect. Other criteria or guidance on the development of assessment criteria may be published in the future and no liability is accepted in this respect.

2.0 DESK STUDY

The findings of the Phase I desk study are presented in the following section. A copy of the information obtained as part of the desk study is presented in Appendix A.

Comments made in the following sections regarding possible ground conditions on the site are based purely on the desk study assessment undertaken.

2.1 Site Features

The site was located at National Grid Reference: 520960, 122580 and was approximately 5.46ha in area.

At the time of investigation, the site comprised an approximately rectangular/triangular plot of land, which was generally flat and level. The site comprised two fields separated by a belt of woodland.

The surrounding area comprised St Peters C of E Primary school to the east with residential properties beyond and agricultural fields to the north, south and west. Access was gained to the north of the site from Station Road.

2.2 Geology

British Geological Survey geological mapping indicated the geology of the site to comprise the Weald Clay Formation with the Horsham Stone Member indicated beneath the northern side of the site.

The Weald Clay Formation consists of dark grey thinly-bedded mudstone (shales) and mudstones with subordinate siltstones, fine to medium grained sandstones, including calcareous sandstone, shelly limestones and clay ironstones.

The Horsham Stone Member consists of sandstone, calcareous, generally fine-grained, micaceous, locally well laminated, pale grey to greenish/olive grey. Contains clayey parting and lignite fragments and rootlet traces.

2.3 Hydrogeology

With reference to information provided by the Environment Agency, the underlying the Horsham member was indicated to be classified as an Secondary – A Aquifer, the Weald Clay was indicated to be classified as an Unproductive Strata.

Secondary - A Aquifers are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

Unproductive Strata are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

The site was indicated to be outside any source protection zones. Groundwater vulnerability mapping referred to the superficial aquifer as a high vulnerability aquifer to a pollutant discharged at ground level.

2.4 Hydrology

The nearest surface feature was identified on-site, this is believed to be from mapping a pond in the woodland on the southern part of the site.

Two Pollution Incidents to controlled waters were identified within a radius of 500m of the site:

- 131 NE – Unknown Property, miscellaneous – natural, category 3 minor incident, 23/07/1994
- 393 S – Construction, oils – gas oil, category 3 minor incident, 01/12/1996.

The site was not located in an area designated at being at risk from flooding from rivers or seas without defences (zone 1). The northernmost portion of the site was indicated to be at a low risk of surface water flooding (30 year return).

The BGS Flood GFS Data indicated that the site had the potential for groundwater flooding to occur. It should be noted that the mapping is a “susceptibility set”, it does not indicate hazard or risk, i.e. it does not provide any information on the depth to which groundwater flooding occurs or the likelihood of the occurrence of an event of a particular magnitude.

There were seven recorded licensed surface water abstractions or discharge consents to controlled waters within 500m of the site:

- 144m E – Sport and other property, discharge of other matter – swimming pool contents, revoked 01/07/1991
- 185m SE – Other property, sewage discharge – final/treatment effluent – not water company, revocation date not supplied.
- 248m SW – Domestic property, sewage discharge – final/treatment effluent – not water company, revocation date not supplied.
- 256 W – Domestic property, non water company (private) sewage, revocation date not supplied.
- 321 S – Domestic property, sewage discharge – final/treatment effluent – not water company, revocation date not supplied.
- 444 SE – Domestic property, sewage discharge – final/treatment effluent – not water company, revocation date not supplied.
- 467 SE – Domestic property (single) (Incl Farm House), sewage discharges – final treated effluent – not water company, freshwater stream/river.

There were no substantiated pollution incident register entries recorded within 500m of the site:

2.5 Radon

The Envirocheck report states that the site lies in an area where less than 1% of homes are estimated to be at or above the Action Level as defined by Public Health England. The BGS record states that no radon protective measures are necessary in the construction of the new dwellings or extensions within the site boundary.



2.6 Environmental Data

Searches of other various environmental databases were made as part of the desk study, including air pollution control sites, Part IIA contaminated land, Integrated Pollution Control (IPC) and Integrated Pollution Prevention and Control (IPPC) sites, registered radioactive substances, COMAH sites, explosives sites, Notification of Installations Handling Hazardous Substances (NIHHS) sites, planning permissions for sites involving hazardous substances, fuel station registers, points of interest – commercial services and points of interest – manufacturing and production.

The desk study identified two Contemporary Trade Directory entries within 250m of the site.

Distance and Direction (m)	Location	Description	Status
28m north-east	Saddlers Blinds	Blinds, Awnings & Canopies	Active
232m East	Splodge Clock Co	Clocks & Watches – Manufacturers & Wholesalers	Inactive

Table 1.1 Contemporary Trade Directory entries within 250m

2.7 Soil Chemistry

Data obtained as part of the desk study provides details on the estimated soil chemistry for the natural soils in the vicinity of the site. The estimated soil quality on the subject site is presented Table 2.2 below.

Contaminant	Estimated Concentration (mg/kg)
Arsenic	15 – 35
Cadmium	<1.8
Chromium	60 - 90
Lead	<100-1200
Nickel	15-30

Table 2.2 Estimated Soil Concentrations on Site

With the exception of lead, the natural background concentrations were below respective published Soil Guideline Values, Generic Assessment Criteria and Category 4 Screening Levels for the protection of human health under a residential (with homegrown produce) land use, i.e. the most conservative end use proposed.

However, these values are not necessarily representative of the site's soil chemistry. Furthermore, some SGVs and GACs are dependent on pH and soil organic matter content. Therefore, concentrations of specific determinants and the utilised SGV/GAC cannot be determined without site specific investigation and analysis.



2.8 Sensitive Land Uses

A search was made of environmentally sensitive areas, including areas of green belt, scenic or natural beauty, parks, reserves, nitrate zones, protected conservation and scientific areas.

The Envirocheck identified that the site was within a nitrate vulnerable zone.

2.9 Geotechnical Data

According to the Coal Authority, the site was located in an area that might not be affected by coal mining activities.

National databases for a number of different geological hazards have been compiled by the BGS, and a summary of the hazard data pertaining to the site itself is presented in Table 2.5.

Hazard	Designation
Non-coal mining	Highly unlikely
Collapsible ground	Very low
Compressible ground	No hazard
Ground dissolution	No hazard
Landslide	Very low
Running sand	No hazard
Shrinking and Swelling clay	Low

Table 2.3 Summary of BGS Geological Hazards

No natural or man-made mining cavities were identified within 250m of the site.

2.10 Landfill and Waste Management Facilities

A search of BGS recorded landfill sites, IPC registered waste sites, licensed waste management facilities, local authority recorded landfill sites, other registered landfill sites, waste transfer stations and other waste treatment or disposal sites was undertaken as part of the desk study. Such sites may form an artificial source of ground gases, such as carbon dioxide and methane, where wastes are buried or disposed of to landfill.

No licenced waste management facilities were identified within 1km of the site:

No historical landfill sites were identified within 500m of the site:

No local authority recorded landfill or registered landfill sites were identified within 500m of the site:

There were no registered waste treatment or disposal sites were recorded within 1km of the site:

One area of potentially infilled land, non-water or water was identified within 250m of the site.

- On Site – Unknown Filled Ground (pit, quarry etc), date of mapping 1980.

**2.11 Historic Mapping**

Historic maps dating back to 1875 were obtained as part of the desk study. A summary of the apparent key features observed on the map extracts both on the site and within the local area is presented within Table 2.7.

Date	On Site	Off Site
1875	The site was composed of two fields divided by a hedgerow running east to west between them. To the centre west of the site, there was a collection of buildings labelled as Potter's Farm. A pond was indicated on the eastern side of the main farm building.	The site is located to the south of a road and to the west of Cowfold. To the immediate east of the Site was a school labelled as 'National School'. To the north, south and west of the site are fields.
1897	The northern field remains undeveloped. The southern field had an allotment garden in the northern section and a claypit and brickfield were denoted in the south-west corner. Several further farm buildings were indicated on Potter's Farm.	No significant change.
1911	The brickfield had expanded to cover to the southwestern corner of the site. Some of the building footprints on the farm had altered.	No significant change.
1912	A well was labelled at the southern end of the farm buildings.	No significant change.
1947 Aerial Photo	The northern field appeared to be a field in pasture. The northern half of southern field appeared to be allotments. The southwestern corner appeared to be woodland.	No significant change.
1957	The area of the brickfield was labelled as woodland. Only three buildings are present on Potter's Farm.	No significant change.
1961- 1962	The allotment gardens covered the north-eastern corner of the southern field commensurate with the present day.	No significant change.
1972	No buildings were present at the site. The well was no longer labelled.	School is now labelled as St Peter's Primary School.
1980- 1982	No significant change. Some trees are indicated in the area of the former pit.	No significant change.
1993	The pond and the former pit are indicated.	
1999 Aerial Photo	The northern field and eastern side of the southern field was pasture. The remainder of the site is indicated to be woodland.	No significant change.
2000	No significant change.	No significant change.
2006	No significant change.	No significant change.
2021	No significant change.	No significant change.

Table 2.4 Summary of Historic Map Extracts

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From the mapping it was unclear whether the claypit/brickfield had been infilled. However, lidar data for the site clearly shows a depression the shape of which matches the map outline of the claypit/brickfield, indicating it is highly unlikely to have been infilled.

2.12 Asbestos

Historically buildings were present on site, it is possible that asbestos containing materials (ACM) could be present within the site. In line with current best practice, asbestos and ACM should assume to be present until proven otherwise.

2.13 Previous Ground Investigations

Geo-Environmental was not aware of any previous investigations that had been undertaken on the subject site. There were also no BGS borehole records within the immediate vicinity of the site.

2.14 Potential Contamination

Parts of the site have been previously developed with farm buildings and there could have been ad hoc maintenance of farm machinery, refuelling activities etc. Furthermore, some of the later buildings may have contained ACMs. There is evidence to suggest that the brickfield/claypit was not infilled and is present beneath the wooded area in the southwest corner of the site. Whilst gross contamination is considered unlikely based on the information reviewed, it would be prudent to assume the presence of commonly occurring contaminants such as metals, inorganics, PAH compounds, TPH compounds, pesticides and asbestos.

2.1 Ground Gas Summary

The desk study recorded one area of potentially infilled land associated with the former brickfield/clay pit. However, lidar data indicates that this area is unlikely to have been infilled or was only partially filled. As such, a source of ground gases may be present, with the potential for ground gas migration onto the subject site although limited, based on the underlying geology and location of development remote from the potentially infilled area.



3.0 PRELIMINARY ASSESSMENT

Based on the findings of the desk study, the following sections summarise the anticipated geotechnical and environmental factors likely to impact the site.

3.1 Preliminary Geotechnical Risk Assessment

3.1.1 Potential Geotechnical Issues

The following factors that might impact the geotechnical condition of the site were identified as part of the desk study:

Geotechnical Hazard	Probability	Engineering Implications
Lateral changes in ground conditions	High	The mapped geology of the site is shown to comprise the Horsham Stone Member to the north and Weald Clay Formation to the south of the site.
Shrinkable soils	Likely	The cohesive Weald Clay Formation is likely to be shrinkable. Parts of the site are wooded so desiccation may be expected.
Significant depths of Made Ground	Likely	A brickfield has been identified in the southwest of the site, this may have been backfilled or partly backfilled leading to significant depths of Made Ground.
Aggressive chemical ground conditions (sulphates)	Likely	The possible presence of aggressive chemical ground conditions within the underlying geology may affect foundation design and construction.
Shallow Groundwater	Low	The site is underlain by an Unproductive Strata of the Weald Clay however, there is a stream running through the site with the potential of pockets of water within the clay. Therefore, the presence of shallow groundwater is considered to be low.
Potential for shallow soakaways to be unviable	Likely	Due to the relative impermeability of the underlying Weald Clay Formation, soakaways are unlikely to perform satisfactorily on site.
Obstructions	Moderate	The Horsham Stone Member can include impenetrable sandstone.
Well	Likely	Historic maps indicate the location of a well. It is unclear as to the status of the well. The location of this feature is not currently planned for development, but could require further investigation should the plans change.

Table 3.1 Possible Geotechnical Hazards

3.2 Preliminary Environmental Conceptual Site Model & Risk Assessment

3.2.1 Methodology

A Preliminary Risk Assessment ('PRA') and Conceptual Site Model ('CSM') have been prepared in accordance with CLR11 based on information obtained as part of the desk study. Possible risks associated with potential sources of contamination and sensitive receptors identified have been qualitatively assessed following a source-pathway-receptor ('Pollutant Linkage') approach in accordance with current UK protocols.



A risk of harm may only exist where a plausible pollutant linkage is present, and where the quantity or concentration of a contaminant is sufficient so as to pose harm. Under the statutory definition, "Contamination" may only strictly exist where contaminants pose a risk of harm to a receptor. The risk classification has been assessed in accordance with CIRIA C552 (Rudland et al., 2001). A summary of how the risks are derived and their definitions are presented in Tables 3.2 and 3.3.

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very high risk	High risk	Moderate risk	Moderate/low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low Likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

Table 3.2 Risk Rating Matrix

Risk Rating	Definitions
Very high risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.
High risk	Harm is likely to arise to a designated receptor from an identified hazard Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not already undertaken) is required and remediation works may be necessary in the short term and are likely over the longer term.
Moderate risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.
Moderate to low risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is unlikely that any such harm would be severe, or if any harm were to occur it is probable that the harm would be relatively mild.
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very low risk	There is low possibility that harm could arise to a receptor. In the event of such harm being realised it would at worst usually be minor.

Table 3.3 Risk Rating Definitions



3.2.2 Summary of Plausible Sources

Possible sources of contamination identified from the desk study are summarised in Table 3.4.

Source	Description	Contaminants
Made Ground and shallow soils	The general quality of any Made Ground and shallow soils could be impacted by the presence of contamination.	Possible elevated concentrations of metals, metalloids, TPH and PAH compounds, and asbestos in Made Ground (if present). Possible Pesticides.
Potential In-filled land.	The site could be impacted by ground gases from an onsite source. However, lidar data suggests the brickfield/clay pit was not filled.	Elevated methane, carbon dioxide, and depleted oxygen.

Table 3.4 Possible Sources of Contamination

3.2.3 Summary of Plausible Pathways

The plausible pathways are summarised in Table 3.5. These pathways are based on the proposed end use, including houses and gardens.

Pathway	Description
Direct Contact	Ingestion of soil particles, ingestion and bioaccumulation in vegetables/fruit and inhalation of soil derived dust (including tracked back dust), dermal contact.
Inhalation	Inhalation of soil dust and vapours both inside and outside of buildings.
Vertical & Lateral Migration	Contaminant movement both vertically through leaching/gravity and horizontally along preferential pathways, e.g. services trenches, or with groundwater.
Root Uptake	Uptake of soil and waterborne contaminants by plants.
Chemical Attack	Attack of buried plastics and concrete by aggressive ground conditions.

Table 3.5 Possible Contamination Pathways

3.2.4 Summary of Plausible Receptors

Potential receptors which are considered plausible with the site and its development are summarised in Table 3.6.

Receptor	Description	Comments	Plausible
End Users	Residents/occupants of the proposed development.	The proposed development is likely to include areas of managed communal soft landscaping and private gardens.	Yes
Soft Landscaping	Possible areas of planting including lawns, shrubs, trees, etc.	Planting is anticipated in communal soft landscaping and private gardens.	Yes
Built Environment	Buried concrete for foundations and plastics for potable water supply pipes	Aggressive ground conditions and depths of Made Ground may be present beneath the site.	Yes



Receptor	Description	Comments	Plausible
	may be laid in contact with contaminated soils.		
Adjacent Land Users	Sensitive land uses identified within the immediate vicinity.	Adjacent land comprises residential use.	Yes
Groundwater	Controlled Waters contained within the aquifer(s) beneath the site.	The site overlies an Unproductive Strata and a Secondary – A Aquifer. The site is not situated within an SPZ.	Yes
Surface Water	Controlled Waters within lakes, rivers, and ponds, etc., or coastal waters.	A small pond is located on the site.	Yes

Table 3.6 Possible Receptors of Contamination

Site workers involved in the preparation and construction of the development have not been considered further in this assessment as the Principal Contractor is duty bound under the current CDM Regulations to undertake their own risk assessments with respect to their employees.

Whilst the above sources and receptors have been identified, Table 3.7. summarises the identified plausible pollution linkages and a qualitative assessment of the risks based on the desk study research.



Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
Contaminants of concern (Made Ground and shallow Soils)	End users	Direct contact	Likely	Mild	Moderate to Low The development will include communal soft landscaping and private gardens, end users are likely to come into contact with soils via direct contact. Sampling and chemical testing required to assess the risk.
	Soft Landscaping	Root Uptake	Likely	Mild	Moderate to Low Private gardens and soft landscaping are proposed. However, no evidence of harm to existing plant life was identified. Sampling and chemical testing required to assess the risk.
	Adjacent land users	Direct contact	Unlikely	Minor	Very Low Adjacent site users are unlikely to come into contact with soils. Sampling and chemical testing required to assess the risk.
	Water supply pipes	Direct contact	Likely	Mild	Moderate to Low Water supply pipes would come into contact with impacted or aggressive soils depending upon depth of installation and extent of soil impact. Sampling and chemical testing required to assess the risk.
	Buildings and infra-structure	Direct contact	Likely	Minor	Low Foundations and utilities will be placed within potentially aggressive soils. Sampling and chemical testing required to assess the risk.
	Groundwater	Vertical migration	Likely	Mild	Moderate-Low Pockets of perched water could be present within the Weald Clay, which is classified as an Unproductive Strata

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					and was not located in a SPZ. The consequence is likely to be mild. Sampling and chemical testing coupled with monitoring standpipes required.
On-site sources of ground gases (Infilled Land)	End users	Inhalation	Unlikely	Medium	Low A potential infilled brickfield/claypit was identified in the desk study dataset in the south-west corner of the site. However, other sources indicate it does not appear to have been infilled. Standpipes and return ground gas monitoring required to assess the risk.
	Soft Landscaping	Root Uptake	Unlikely	Minor	Very Low Soft landscaping and private gardens are proposed. Standpipes and return ground gas monitoring required to assess the risk.
	Adjacent land users	n/a	n/a	n/a	Assessment of the impact on adjacent sites from ground gases arising from offsite sources does not form part of this assessment.
	Water supply pipes	n/a	n/a	n/a	There is no risk to water supply pipes from potential ground gases
	Buildings and infrastructure	n/a	n/a	n/a	There is no risk to buildings and infrastructure from potential ground gases
	Groundwater	n/a	n/a	n/a	There is no risk to groundwater from potential ground gases

Table 3.7 Plausible Pollutant Linkages & Qualitative Risk Assessment

3.3 Preliminary Risk Assessment Summary

The PRA and CSM developed from the information gathered as part of the desk study process have identified plausible potential pollutant linkages that exist in relation to the proposed redevelopment of the site.

The potential pollutant linkages established within this desk study are not considered to prevent development on the subject site, but could require investigation and assessment to support further characterisation, calibration of the CSM and where/if necessary determine a remedial strategy to reduce, remove or otherwise control any risk within the site to key receptors.

It is considered that the overall risk from potential contamination on the site is 'Very low' to 'low' and that further assessment would be necessary to satisfy planning conditions or to provide clarification of the risk assessment.

In order to progress this assessment in line with the National Planning Policy Framework, to provide further characterisation of the site and refinement of the PRA and CSM, it is recommended that intrusive investigation and associated testing is undertaken to confirm the findings of the desk study report and to provide a robust risk assessment for the site and proposed redevelopment. As such it is recommended that geochemical and geotechnical investigation be carried out on the site to include analysis of soil and groundwater (if encountered) samples for the range of potential contaminants identified within the Desk Study, together with ground gas monitoring and an assessment of the site's ground gas regime.

4.0 INTRUSIVE INVESTIGATION

Based on the findings of the desk study, the following sections summarise the anticipated geotechnical and environmental factors likely to impact the site.

4.1 Scope of Works

In summary, the following scope of works for the intrusive investigation was agreed with the Client:

- Construction of up to 7No. window sampler boreholes to depths of up to 4.00m bgl, or maximum achievable depth depending on drilling conditions.
- Installation of combined gas and groundwater monitoring wells within 4No. dynamic sampler boreholes to facilitate return monitoring on a six occasion within the following 12 weeks.
- Undertaking up to 12No. machine dug trial pits to depths of up to 3.00m bgl, or maximum achievable depth depending on drilling conditions.
- Undertake 7No. trial pit soakage tests over a three day period.
- Undertake 7 TRRL DCP tests for CBR and pavement design parameters.
- Geotechnical Laboratory Testing as specified carried out by a UKAS Accredited Laboratory in accordance with BS1377.
- Geochemical laboratory testing for a suite of commonly occurring brownfield contaminants including speciated total petroleum hydrocarbons (TPH) and asbestos screening.
- Waste Acceptance Criteria testing on one sample most likely to represent material to be disposed of off-site to assist with waste classification.

4.2 Investigation Strategy

Tables 4.1 and 4.2 summarises the strategy of the geotechnical and environmental investigation.

Geotechnical Area of Concern	Investigation	Positions
Lateral changes in ground conditions	Window sample boreholes and machine excavated trial pits located across the site, coupled with sampling and laboratory analysis.	All
Shrinkable soils	Window sample boreholes and machine excavated trial pits located across the site, coupled with sampling and laboratory analysis.	All
Significant depths of Made Ground	Window sample boreholes and machine excavated trial pits located across the site	All
Compressible soils	Window sample boreholes and machine excavated trial pits with sampling and laboratory analysis.	All
Aggressive chemical ground conditions (sulphates)	Window sample boreholes and machine excavated trial pits located across the site, coupled with sampling and laboratory analysis.	All
Shallow Groundwater	Monitoring wells installed.	WS01, WS02 WS04, WS05 & WS07
Soakage	Soakage testing to BRE365 within trial pits.	TP02, TP03, TP06, TP07, TP08, TP09, TP10 & TP12
Tree Roots	Window sampler borehole and trial pit located across the site, coupled with sampling and laboratory analysis.	All

Table 4.1 Summary of Geotechnical Investigation Strategy

Environmental Area of Concern	Investigation	Positions
Near Surface Soils and Made Ground	Window Sampler boreholes and trial pit situated across the site with regular sampling and laboratory analysis	All locations
Ground gases	Monitoring wells installed within select window sampler boreholes for return spot monitoring on one occasion.	WS01, WS02 WS04, WS05 & WS07

Table 4.2 Summary of Environmental Investigation Strategy

The locations of the exploratory holes are presented in Figure 2.

Based on the agreed scope of works, it was possible to make a preliminary appraisal for each area of geotechnical concern identified as part of the investigation.

5.0 ENCOUNTERED CONDITIONS

A factual record of the conditions encountered during the physical investigation of the site is presented in the following sections.

For further details of the encountered ground conditions, reference should be made to the exploratory hole logs presented in Appendix B, the geotechnical testing results in Appendix C, and the geochemical testing results in Appendix D.

The physical ground investigation works were undertaken on 14th to the 16th April 2021. The geotechnical and geochemical testing was undertaken by UKAS accredited laboratories.

The intrusive phase of the investigation was to solely target the proposed housing development, allotments and school car park areas. As such, no exploratory holes were positioned in the southern part of the southern field.

Unless stated otherwise, all depths are reported as metres below ground level (m bgl).

5.1 Ground Conditions

Published geological records indicated that the ground conditions would comprise the Weald Clay Formation, with a thin mantle of Topsoil and Made Ground likely above.

Topsoil was encountered within all locations to depths of between 0.10m and 0.35m bgl and generally comprised brown clayey SAND with roots and rootlets.

Underlying the Topsoil and Made Ground, the Weald Clay Formation was encountered within all locations to a maximum depth of 3.70m bgl (maximum depth of the investigation). The more superficial deposits of the Weald Formation generally comprised firm to stiff mottled grey and yellow brown CLAY to depths of between 1.40m bgl and 2.70m bgl. This in turn was underlain by weathered SANDSTONE. The exploratory holes all refused upon the sandstone.

For further details of the ground conditions encountered, reference should be made to the exploratory hole logs presented in Appendix B.

5.2 Groundwater

No water was encountered during the initial intrusive investigation.

During returning monitoring visits completed between the 20th April and 30th June 2021 groundwater was recorded in all wells (WS01, WS02, WS04, WS05 and WS07) between 0.00 (surface level) and 2.60m bgl.

Changes in groundwater levels do occur for a number of reasons including seasonal effects and variations in drainage. Such fluctuations may only be recorded by the measurement of the groundwater level within a standpipe or piezometer.

5.3 Obstructions

No artificial obstructions were encountered during the intrusive investigation. It should be noted that



borehole and trial pit locations refused upon encountering bands of sandstone. The presence of natural and/or manmade obstructions elsewhere on site cannot be discounted.

5.4 Soakage Testing

Seven full scale BRE Digest 365 tests were conducted in TP02, TP03, TP06, TP07, TP09, TP10 & TP12. It was inappropriate to extrapolate the test data. All BRE Digest 365 tests were carried out between one and three days depending on infiltration. In some pits, only one test was achieved. Based on the results it is considered unlikely that conventional shallow soakaways will work effectively on the site

Location	Depth of Pit (m bgl)	Fall in head (m)	Total time (mins)	Calculated infiltration rate (m/s)	Remarks
TP02	2.10	0.57/0.40/0.60*	1518/270/1258	-	Insufficient fall over time to calculate rate.
TP03	2.25	0.22	3075	-	Insufficient fall over time to calculate rate.
TP06	2.50	0.68	2968	-	Insufficient fall over time to calculate rate.
TP07	2.20	0.00	1603	-	No infiltration recorded.
TP09	2.20	0.01	1664	-	Negligible infiltration recorded.
TP10	2.70	0.15	1584	-	Insufficient fall over time to calculate rate.
TP12	2.50	0.04	214	-	Negligible infiltration recorded.

Table 5.1 Summary of BRE365 Testing

5.5 Ground Gases

Six ground gas monitoring visits were undertaken at WS01, WS02, WS04, WS05 and WS07 between the 14th April and 30th June 2021. During the monitoring maximum methane concentrations were 1.9%. Carbon dioxide concentrations ranged between 0.0% and 4.8% with oxygen concentrations ranging between 12.0% and 21.7%. Borehole gas flow was recorded as -0.7l/hr to 0.2l/hr. A maximum VOC concentration of 8.4ppm was recorded. Atmospheric pressure was recorded between 1005mb and 1016mb. A summary of the results is shown in Table 5.2. For the full results, refer to Appendix F.

CIRIA Gas Screen Values (GSVs) were calculated for the site, the site had a methane GSV of 0.0038 and carbon dioxide had a GSV of 0.0096. methane on one occasion within WS04 did exceed 1% however given this position is placed within natural clays it is unlikely to represent a risk to the site. The site has been assessed as characteristic situation of 1 (very low risk) which gives an NHBC Traffic Light site characteristic of green.

5.6 Geotechnical Laboratory Results

The results of geotechnical testing undertaken as part of the ground investigation are summarised in Table 5.2.

Parameter	Weald Clay
Natural Moisture Content (%)	14 - 32



Liquid Limit (%)		35 - 60
Plastic Limit (%)		19 - 31
Plasticity Indices (%)		11 - 30
Modified Plasticity Indices (%)		11 - 30
Volume Change Potential (NHBC & BRE)		Low to Medium
Particle Size Distribution (%)	Very Coarse	0
	Gravel	1.0 - 29.8
	Sand	1.3 - 7.9
	Fines <0.063mm	62.3 - 97.7
pH		5.6 - 8.5
Sulphate content (mg/l)		0.0092 - 0.066

NOTE: Modified plasticity index is defined in NHBC Standards Chapter 4.2

Table 5.2 Summary of Geotechnical Results

TRRL Dynamic Cone Penetrometer (DCP) tests were undertaken at 7No. locations. The results of the tests generally indicated CBRs ranging between 3% and 9% for depths of between 300mm bgl and 600mm bgl. Significantly higher results of between 16% and 21% were recorded at the location of DP07.

For details of the geotechnical test results, reference should be made to the trial hole logs and laboratory reports in Appendix B and Appendix C.

5.7 Geochemical Laboratory Results

In order to assess the general chemical quality of the strata encountered, samples of soils recovered from the exploratory holes were submitted for analysis for a range of potential contaminants selected on the basis of the findings of the desk study and supported by the joint National House Building Council (NHBC), Environment Agency (EA) and Chartered Institute of Environmental Health (CIEH) publication, '*Guidance for the Safe Development of Housing on Land Affected by Contamination*' (2008).

Soil samples were placed into plastic containers for general inorganic analysis and into amber jars for organic analysis. Samples were stored in temperature controlled conditions from sampling until receipt at the laboratory from which time sample preparation and storage was determined by testing requirements and in line with the laboratory's protocols.

Sixteen samples of Topsoil and six sample of the Weald Clay Formation were submitted for analysis for a comprehensive suite of common zootoxic and phytotoxic elements based upon determinants listed within the above guidance including total petroleum hydrocarbons and asbestos screens. In addition, 3 sample of the Weald Clay Formation was submitted for pesticide scans and waste criteria testing. For further details reference should be made to the laboratory results in Appendix D.

6.0 ENGINEERING CONSIDERATIONS

Subsequent to intrusive investigation of the site and receipt of the laboratory results, the following interpretative assessments have been made with respect to engineering considerations.

6.1 Foundations

Based on the ground and groundwater conditions encountered in the boreholes, conventional strip or isolated pad and beam foundations may be considered, albeit foundation depths will need to be deepened within the moisture demand zone of trees.

Foundations should be taken through any Made Ground, disturbed ground or desiccated clay soils and bear wholly into or onto the Weald Clay.

It is recommended that the NHBC Standards, Chapter 4.2 be adopted for the classification of volume change potential and the design foundation depth within the zone of influence of trees. Based on the results of the Atterberg Limit tests in conjunction with the ground conditions in the boreholes it is considered that the Weald Clay Formation be classified en masse as medium volume change potential. Therefore, remote from trees a minimum foundation depth of 0.90m is recommended within the natural soils.

Foundations within the zone of moisture demand of any existing, recently removed, or proposed trees will require deepening in accordance with the NHBC Standards, Chapter 4.2. Foundations will also need to extend through any deeper areas of Made Ground, soft or loose ground, or root zones. Where calculated foundation depths on account of trees exceed 2.5m, an alternative form of foundations such as piles should be considered. Heave protection measures in accordance with the NHBC Standards, Chapter 4.2 will also be required where the calculated foundation depth exceeds 1.50m on account of trees.

An allowable bearing pressure of 125kPa is considered suitable for conventional foundations up to 1.50m in width taken down to bear within the Weald Clay Formation. Under the above loadings, settlements should remain within tolerable limits for the proposed construction.

The soils at the base of foundation excavations will be prone to softening when exposed to free water and foundations should either be blinded or concreted immediately upon excavation. Where the concrete pour is not planned until the following day, the final 300mm of soil above the founding stratum should be left in place overnight to protect the formation.

There are a number of mature trees and hedgerows around the perimeter of the site. However, due to the proposed 10m landscape buffer it is unlikely that calculated foundation depths on account of trees and the medium volume change potential soils would necessitate piling. Depending on the nature of the proposed school building and the column loads, consideration may need to be given to deeper foundation taken down to bear on the weak sandstone or a piled foundation solution. Further investigation is recommended on the school expansion site once the location and form of the building is known.

6.2 Excavations

Shallow excavations within the Weald Clay Formation should remain relatively stable in the short to medium term, though some localized spalling may be anticipated. Long, deep excavations within Weald Clay Formation are likely to be prone to instability, particularly where left open for prolonged periods, or open to wet weather conditions and should be battered back to a safe angle, or suitable shoring techniques

should be adopted to provide stability.

Ground works should always be designed in such a manner to avoid man entry into excavations. However, in the event that such works cannot be avoided or designed out, they should only be undertaken in accordance with a safe system of work, following an appropriate risk assessment and in accordance with any legislative requirements, e.g. Confined Spaces Regulations.

6.3 Floor Slabs

Given the medium volume change potential of the near surface natural soils it is recommended that suspended ground floor slabs are used within the development. It is recommended that the depth of the floor void be designed in accordance with the NHBC Standards, Chapter 4.2., and be based on medium volume change potential soils.

6.4 Sub-Surface Concrete

The results of the sulphate and pH analysis undertaken on samples of the Weald Clay indicated the soil samples tested to have water soluble sulphates within design sulphate (DS) class DS-1 of BRE special digest 1. An aggressive environment for concrete (ACEC) classification of AC-1s is deemed appropriate for foundations within this stratum.

The advice of this publication should be taken for the design and specification of all sub-surface concrete.

6.5 Pavements

Dynamic Cone Penetrometer (DCP) tests (equivalent to CBR) were undertaken at seven locations with results generally ranging between 3% and 9% over the depth range 300mm to 600mm below ground level.

The Transport and Road Research Laboratory Report (LR1132) entitled '*The Structural Design of Bituminous Roads*' (1984) cites an estimated equilibrium suction index of between 4% and 5% for clays with Plasticity Indices ranging between 15% and 30% (at shallow depth) such as those encountered, assuming average construction conditions and a low water table. A CBR value of 4% is recommended for the natural cohesive soils across the site. However, where roads are to be adopted this should be confirmed with the local authority in order to comply with their own 'in-house' standards.

Based on the results of the Atterberg Limit Tests, the natural soils at shallow depths should be considered as being non-frost susceptible for pavement design.

The subgrade must be proof rolled prior to constructing the roads with any soft spots or organic material removed and replaced with a suitably compacted engineered fill.

6.6 Soakage

Based on the findings of the soakage testing, an alternative form of stormwater drainage such as off site disposal and attenuation should be sought.



7.0 ENVIRONMENTAL CONSIDERATIONS

A Generic Quantitative Risk Assessment (GQRA) incorporating the results of the desk study and ground investigation was undertaken in accordance with LCRM, the findings of which are presented in the following sections.

7.1 Environmental Risk Assessment

A number of plausible pollutant linkages were identified as part of the desk study, as summarised in Section 3.

7.2 Soil Contamination vs. End Users

The presence of a possible contaminant does not necessarily imply that a site or area is contaminated or that there is any unacceptable risk to human health. A Preliminary Quantitative Risk Assessment has been undertaken in accordance with LCRM, in order to evaluate any unacceptable risks posed to human health with respect to the proposed redevelopment. It should be noted that this assessment is protective of the chronic long-term effects of contaminants, which is also likely to be protective of any possible immediate acute effects.

A quantitative risk assessment has been undertaken initially by comparing the results of the laboratory chemical testing of non-targeted shallow soils in each area against Soil Guideline Values (SGVs), DEFRA Category 4 Screening Levels (C4SLs) or Atkins' ATRISK^{soil} Site Specific Screening Values (SSSVs) for a residential end use with plant uptake (private gardens). This is the most sensitive end use proposed for the site (residential end use with home grown produce). Any results that may have been greater than the guideline values or where there are no comparable values, the results have subsequently been compared against Land Quality Management Suitable 4 Use Levels (Subscription No. S4UL3453) (LQM S4UL) and Category 4 Screening Levels (C4SL). Where the screening values have been exceeded, further statistical assessments have been undertaken on the datasets.

Any statistical analysis of the data sets has been undertaken in accordance with guidance contained in the CIEH/CL:AIRE report 'Comparing Soil Contamination Data with a Critical Concentration' (May 2008). If the contamination status of the soils is considered in a planning context, the null hypothesis tested by the analysis is whether the true mean concentration is equal to or greater than the critical concentration for a given determinand, with the critical concentration being the relevant SSAC or GAC (the soil screening value) for that determinand in the context of the intended end use of the site. If the analysis shows that the true mean concentration is less than the critical concentration the null hypothesis can be rejected. The guidance recommends that for the null hypothesis to be rejected the analysis should show that there is a 95% (or higher) likelihood that the true mean concentration is below the critical concentration. Where this is the case the site is considered to be acceptable for the planned end use without the requirement for remediation.

The guidance also provides an outlier test (Grubb's Test) which is undertaken prior to the statistical analysis in order to establish whether there are any anomalous results which could be 'hotspots'. Such results can be removed from the dataset prior to the statistical analysis, but only where there is evidence to support this from the conceptual site model.

Benzo(a)pyrene has been used in the assessment as a surrogate marker for Polyaromatic hydrocarbons (PAH) contamination.



The results indicated that there was only one individual exceedance for arsenic higher than the Atkins ATRISK/C4SL/SSSVs screening values for the residential end use with home grown produce. Table 5.1 below details the results for arsenic:

Determinant	Range of Results (mg/kg)	Soil Screening Value (mg/kg)	Number of Elevated Results	Location of Highest Concentration
Arsenic	14-61	37	1	TP07

Table 5.1 Summary of Exceedances

The Arsenic exceedance was identified by the Grubb's Test as an outlier. However, the description of the soil at the TP07 was similar to that found in the other positions and as such there was no justification for removing the sample from the dataset and treating it as a 'hot-spot'.

A statistical assessment has been undertaken on the arsenic results and Table 5.2 summarises the findings of the statistical assessment.

Determinand	Sample (mg/kg)	Mean	Soil Screening Value (mg/kg)	Upper Confidence Limit (mg/kg)	Evidence Level (%)
Arsenic	20.2		37	29.7	98

Table 5.1 Summary of Statistical Analysis

The assessment confirmed that there was an evidence level of 98% that the true mean concentration is below the critical concentration for arsenic and as such remedial measures are not required.

Additional analysis was undertaken for asbestos. No asbestos was found within the samples analysed.

The results of the pesticide screening found no concentration above the laboratory detection limits.

Based on the results of the testing, due to the low exceedances, remedial measures are unlikely to be required. However, an effective discovery strategy should be implemented on site.

7.3 Soil Contamination vs. Adjacent land Users

Surrounding land uses were primarily residential. Concentrations of potentially harmful contaminants were not identified as part of the laboratory analyses in the context of the proposed end use.

It is recommended that dust suppression techniques, e.g. damping down exposed soils, are employed during the construction phases on site in order to minimise the potential for airborne migration of specific hazards and to manage potential nuisance issues for adjacent land users.

In view of the above, no remedial action is considered necessary to protect adjacent land users from soils on site.

7.4 Soil Contamination vs. Building Materials

The current guidance on selection of materials for water supply pipes to be laid in contaminated land is contained in UK Water Industry Research's (UKWIR) report reference 10/WM/03/21 (re-issued 2010).



However, the guidance is not mandatory and there have been concerns raised by various industry technical associations regarding the document and the methodologies proposed. Although there are concerns regarding the document, in lieu of any further guidance in the first instance the results of this investigation have been compared with the proposed thresholds published in UKWIR Table 3.1. The results of the relevant chemical analyses indicated no elevated concentrations and therefore, barrier pipe is unlikely to be required. It is recommended that the results of this investigation be presented to the water utility company as soon as reasonably practicable in order to confirm the pipe material.

As a matter of good practice, and to maximise the protection to utilities, it is recommended that clean, granular backfill is used in service runs and that marker tapes are used for all buried services.

7.5 Ground Gases

The investigation did not encounter significant putrescible material within the shallow soils encountered on the site. However, the desk study identified an area of potential infilled ground in the south west of the site, outside the area of investigation.

Six ground gas monitoring visits had been undertaken to confirm the risk within the standpipes installed in WS01, WS02, WS04, WS05 and WS07 between the 20th April and 30th June 2021. During the monitoring maximum methane concentrations were 1.9%. Carbon dioxide concentrations ranged between 0.0% and 4.8% with oxygen concentrations ranging between 12.0% and 21.7%. Borehole gas flow was recorded as - 0.7l/hr to 0.2l/hr. A maximum VOC concentration of 8.4ppm was recorded. Atmospheric pressure was recorded between 1005mb and 1016mb.

CIRIA Gas Screen Values (GSVs) were calculated for the site, the site had a methane GSV of 0.0038 and carbon dioxide had a GSV of 0.0096. methane on one occasion within WS04 did exceed 1% however given this position is placed within natural clays it is unlikely to represent a risk to the site. The site has been assessed as characteristic situation of 1 (very low risk) which gives an NHBC Traffic Light site characteristic of green.

7.6 Waste Disposal

The following information is provided for preliminary guidance purposes, as different facilities or operators may have differing acceptance criteria and Waste Acceptance Criteria (WAC) analysis may be required to confirm the exact classification. In addition, if the intention is to retain excess spoil/arising on site for specific purposes, then these soils would not comprise waste, although this is subject to confirmation and relevant declaration under the Definition of Waste Code of Practice.

The results of the laboratory testing were submitted for Catwaste classification, the results indicated that the near surface soils do not have properties that would deem the material hazardous waste.

Three samples of the shallow soils were submitted to the laboratory for Waste Acceptance Criteria (WAC) testing. The results indicated that the shallow soils tested would likely meet the thresholds for disposal at a landfill licensed to accept inert waste. Natural uncontaminated soils of the Weald Clay Formation are likely to be classified as Inert Waste (under the respective EWC codes for naturally occurring soils), suitable for disposal at an inert landfill facility.

7.7 Revised Preliminary Risk Assessment Summary

Based on the results of the investigation, the preliminary risk assessment has been revised (overleaf):



Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
Contaminants of concern (Made Ground and shallow Soils)	End users	Direct contact	Low	Minor	Very Low No significant concentrations of potential contaminants that could harm end users have been identified in the shallow soils by the investigation.
	Soft Landscaping	Root Uptake	Unlikely	Minor	Very Low No significant concentrations of potential contaminants that could harm end users have been identified in the shallow soils by the investigation.
	Adjacent land users	Direct contact	Unlikely	Minor	Very Low No significant concentrations of potential contaminants that could harm end users have been identified in the shallow soils by the investigation.
	Water supply pipes	Direct contact	Likely	Minor	Low No significant concentrations of potential contaminants which could impact pipe materials have been identified in the shallow soils by the investigation.
	Buildings and infra-structure	Direct contact	Likely	Minor	Low No significant concentrations of ph & sulphates which could impact concrete mix design have been identified in the shallow soils by the investigation.
	Groundwater	Vertical migration	Unlikely	Minor	Very Low No evidence of mobile contaminants have been identified by the investigation.
On-site sources of ground gases (In-filled Ground)	End users	Inhalation	Likely	Mild	Low The ground gas spot monitoring has not identified any onerous ground gas concentrations or flows.
	Soft	Root Uptake	Unlikely	Minor	Very Low

	Landscaping				The ground gas spot monitoring has not identified any onerous ground gas concentrations or flows.
	Adjacent land users	n/a	n/a	n/a	Assessment of the impact on adjacent sites from ground gases arising from offsite sources does not form part of this assessment.
	Water supply pipes	n/a	n/a	n/a	There is no risk to water supply pipes from potential ground gases
	Buildings and infrastructure	n/a	n/a	n/a	There is no risk to buildings and infrastructure from potential ground gases
	Groundwater	n/a	n/a	n/a	There is no risk to groundwater from potential ground gases

Table 7.1 Revised Plausible Pollutant Linkages & Qualitative Risk Assessment

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The PRA and CSM developed from the information gathered as part of the desk study and intrusive investigation process have assessed the potential pollution linkages that exist in relation to the proposed redevelopment of the site.

It is considered that the overall risk from potential contamination on the site is 'low' to 'Very Low'

A revised graphical conceptual site model is provided within Figure 4.

8.0 DISCOVERY STRATEGY

Whilst an intrusive investigation has been undertaken on the site, it remains possible that unexpected ground and/or groundwater conditions may be encountered during the process of construction.

Should previously undiscovered contamination or unforeseen ground conditions be encountered during construction by the ground workers, this must be reported to the Site Manager immediately in order that the Consultant is notified. Where deemed necessary, the Consultant shall attend the site to inspect the discovery and provide recommendations on the further actions required, if any. Where necessary the regulatory authority shall be informed. Post any additional investigation or laboratory testing the results and any proposed remedial measures shall be reported to the regulatory authority or other appropriate organisation for consent, before proceeding or implementing the remedial measures.

A copy of the discovery strategy must be lodged on site, and provisions made to ensure that all workers are made aware of their responsibility to observe, report, and act on any potentially suspicious, abnormal, unforeseen or contaminated ground and/or groundwater conditions they may encounter.

Depending on the type, nature and extent of any such 'discovery', it may be necessary to halt works in that location until such time as the assessment has been completed. This shall be reviewed on a 'discovery' specific basis and in conjunction with consultation with the client, other technical personnel and/or regulatory/approval organisations.

As a general guide, where such unexpected conditions are encountered the following approach is required as a minimum:

- All discoveries are to be reported to the Site Manager immediately and works at that location are to halt until further notice;
- The Site Manager is to report any such discoveries to the Client and the Consultant;
- Following notification from the Site Manager, the Consultant shall discuss the discovery with the Local Authority and/or other relevant parties and if considered necessary, arrange to meet on site to view the discovery;
- The Consultant shall attend the site to record the location, extent and nature of the discovery and implement an appropriate sampling and analysis regime, taking due account of the type and nature of the discovery, known and probable land uses in that area of the site;
- Where remedial action is required, regulatory consultation and approval will be sought;
- A record will be produced by the Consultant and held on site (with copies held by the Consultant, Client and Local Authority/other relevant organisation), detailing the discovery, assessment works undertaken, findings thereof, confirmation either of no action required or detailing the remedial action taken and validation thereof.

The process is shown below.

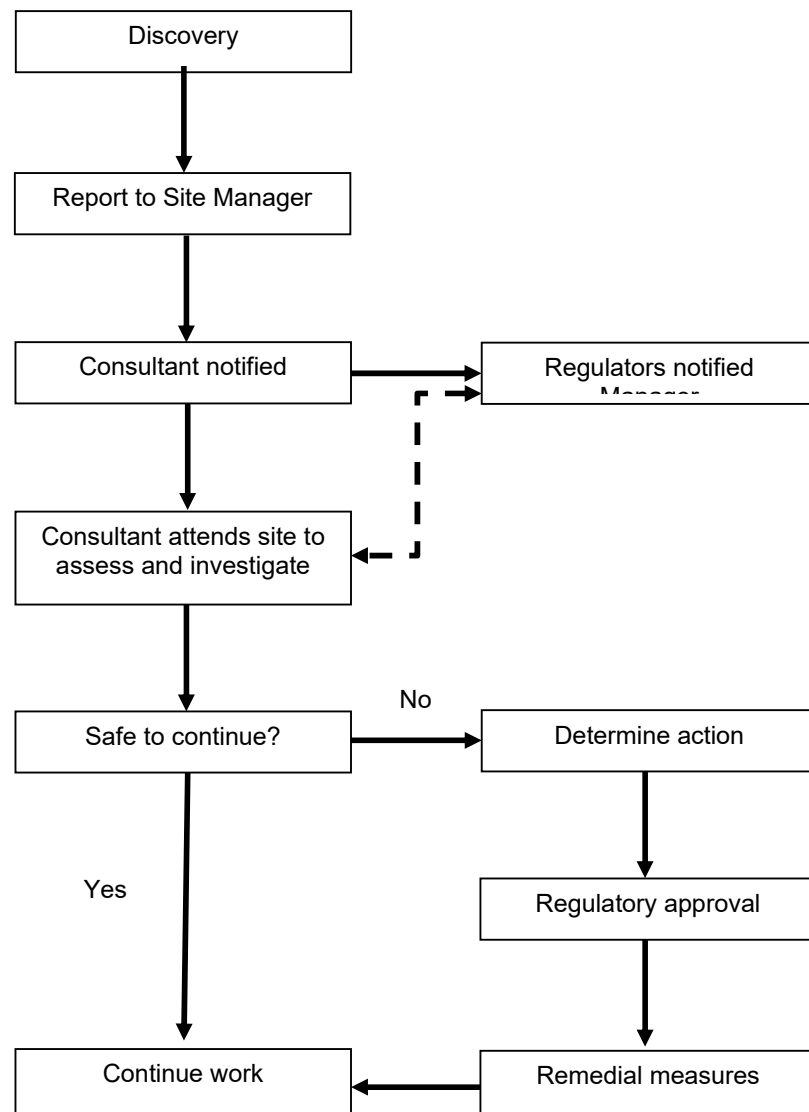


Chart 1 Discovery Strategy Process

FIGURES



Project Title: Station Road, Cowfold

Title : Figure 1 - Site Location Plan

Location : RH13 8DE

Scale: 1:10000

Project No. : GE19071

Engineer: GE

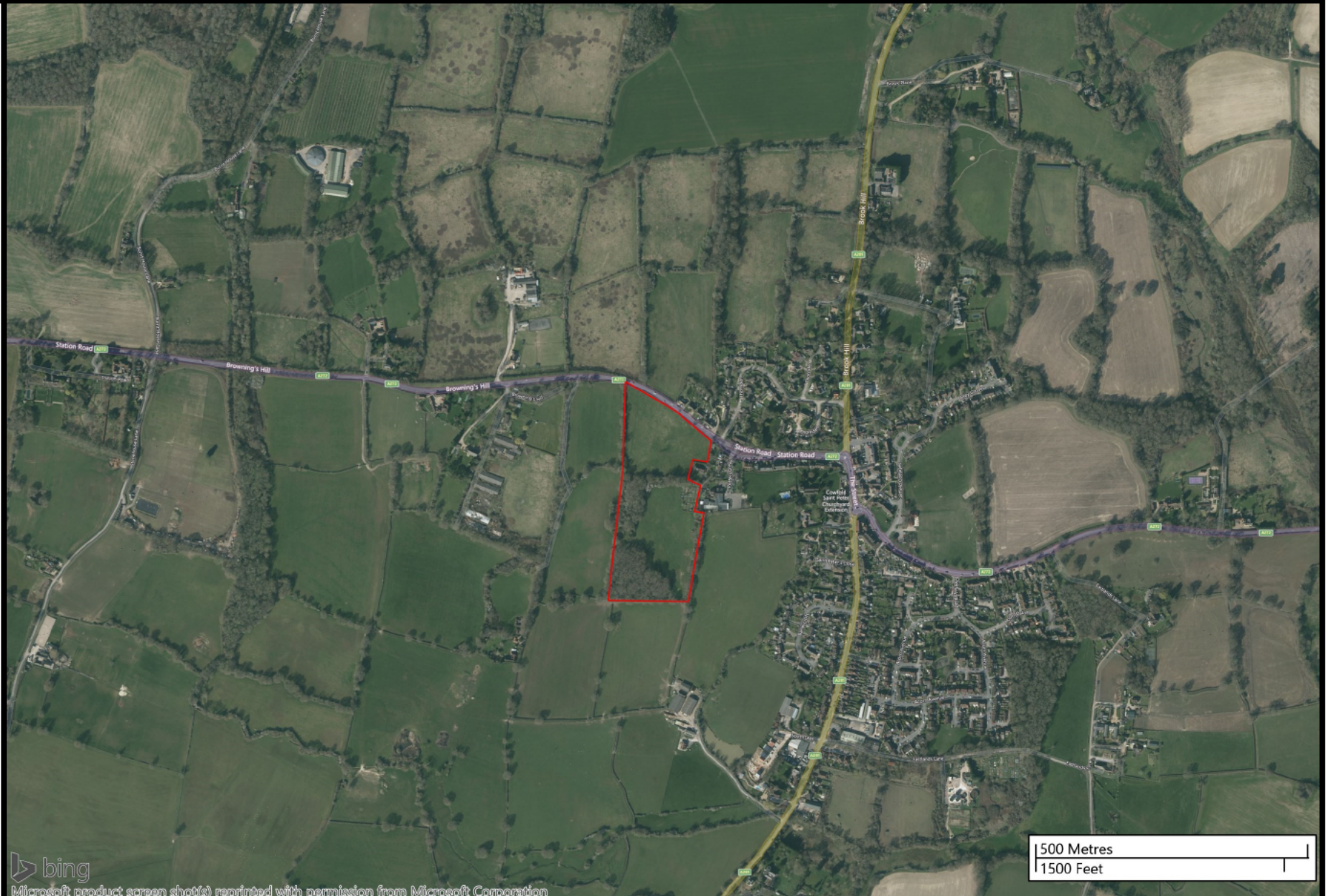
Client : Devine Homes



Geo-Environmental

Legend Key

 Project Bounds - Project Bounds



Project Title: Station Road, Cowfold
Location : RH13 8DE
Project No. : GE19071
Client : Devine Homes

Title : Figure 2 - Exploratory Hole Location Plan
Scale: 1:1500
Engineer: GE



Geo-Environmental

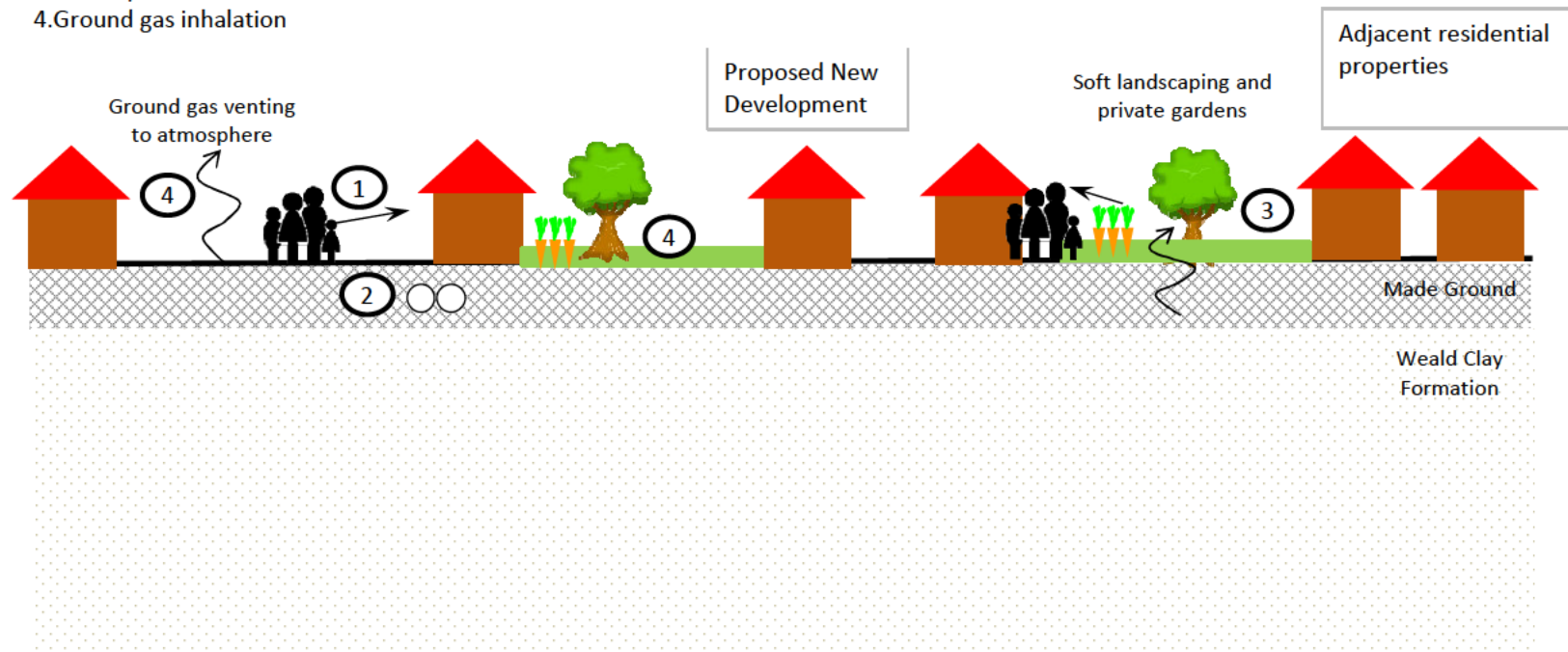
Legend Key

- Locations By Type - TP
- Locations By Type - WLS
- Locations By Type - DCP



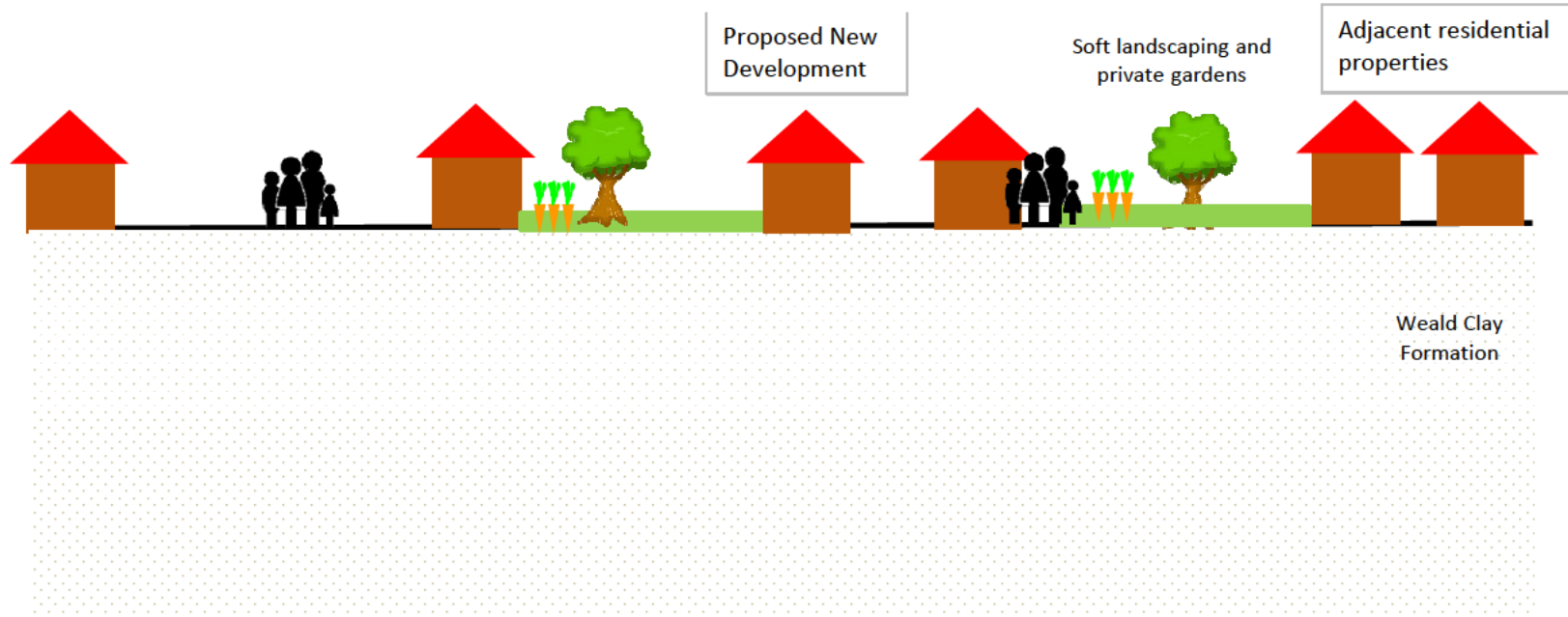
Possible Pollutant Linkages:

1. Inhalation of soil dusts indoor and outdoor, and inhalation of gases/vapours within buildings
2. Chemical attack of buried plastics and concrete
3. Ingestion of soil particles, ingestion and bioaccumulation in vegetables/fruit
3. Root uptake and bioaccumulation
4. Ground gas inhalation



Project:	Station Road, Cowfold			Title	Conceptual Site Model	
Client:	Devine Homes PLC			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net  Geo-Environmental		
Ref No:	GE19071	Revision:	0			
Drawn:	VB	Date:	30/06/2021			
Figure:	3	Scale:	Not To Scale			

no cover system required
no ground gas protection measures required



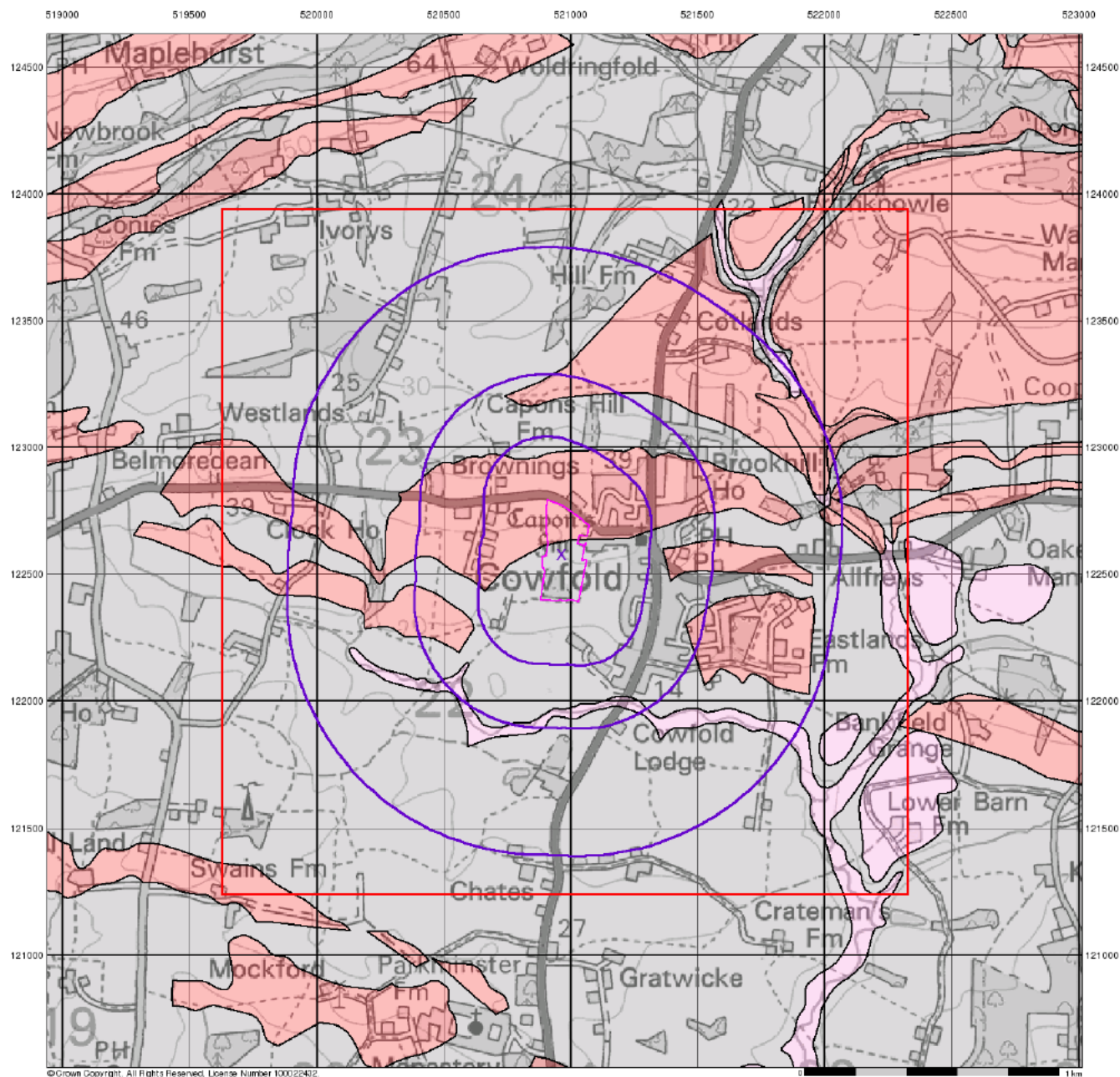
Project: Station Road, Cowfold				Title	Conceptual Site Model	
Client: Devine Homes PLC				Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net  Geo-Environmental		
Ref No:	GE19071	Revision:	0			
Drawn:	VB	Date:	30/06/2021			
Figure:	4	Scale:	Not To Scale			



APPENDIX A

Desk Study Information





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Geo-Environmental Groundwater Vulnerability

General

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

Agency and Hydrological

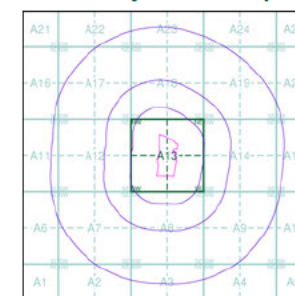
Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer
- Unproductive Aquifer
- Soluble Rock

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

Site Sensitivity Context Map - Slice A



Order Details

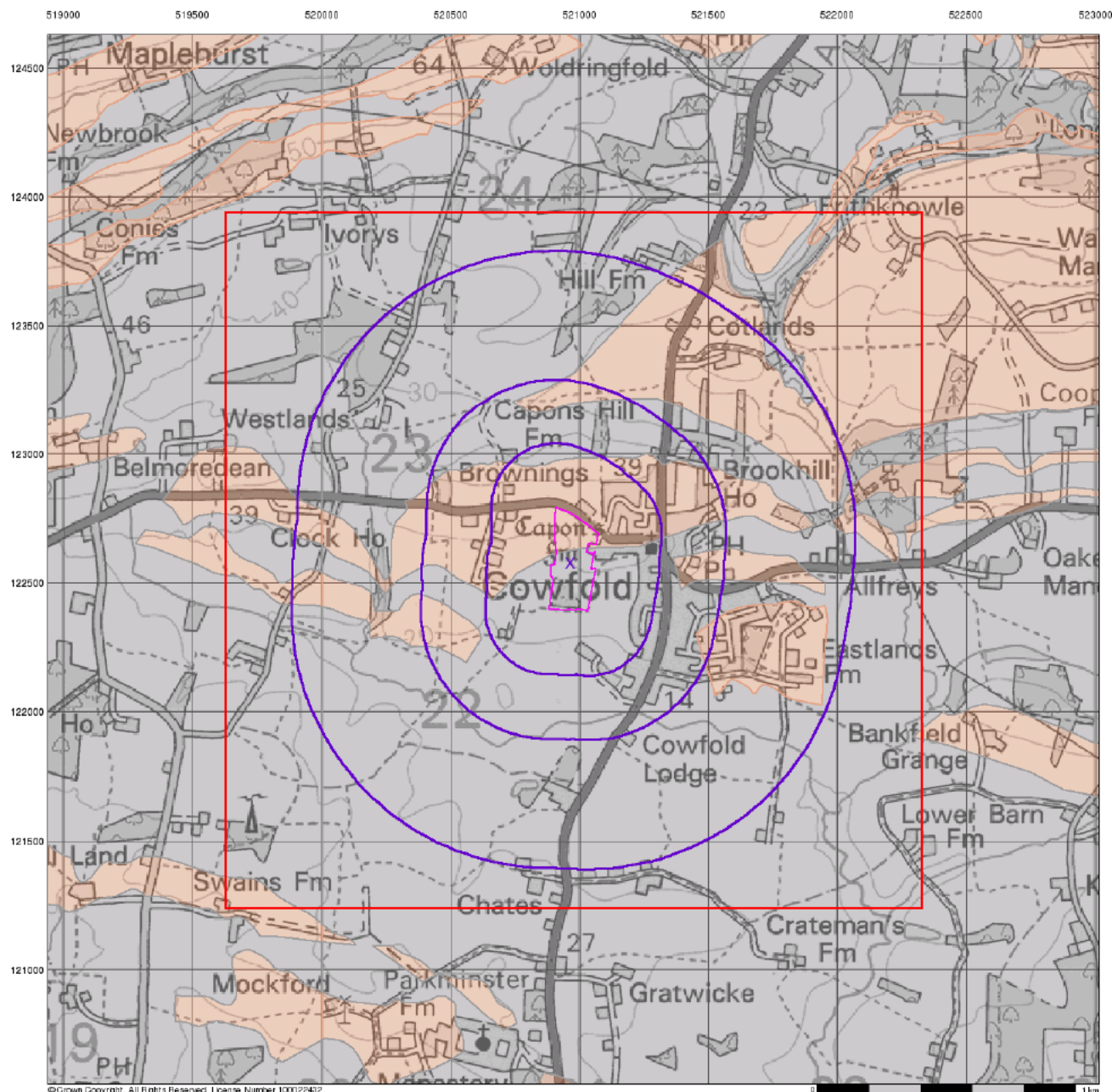
Order Number: 277681427_1_1
 Customer Ref: GE19071
 National Grid Reference: 520960, 122580
 Slice: A
 Site Area (Ha): 5.46
 Search Buffer (m): 1000

Site Details

Field, Station Road, Cowfold, HORSHAM, RH13 8QZ

Landmark
 INFORMATION GROUP

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



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Geo-Environmental Bedrock Aquifer Designation

General

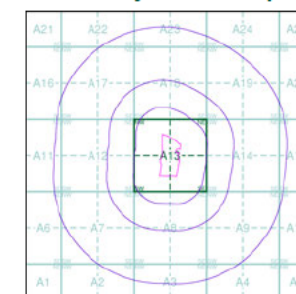
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

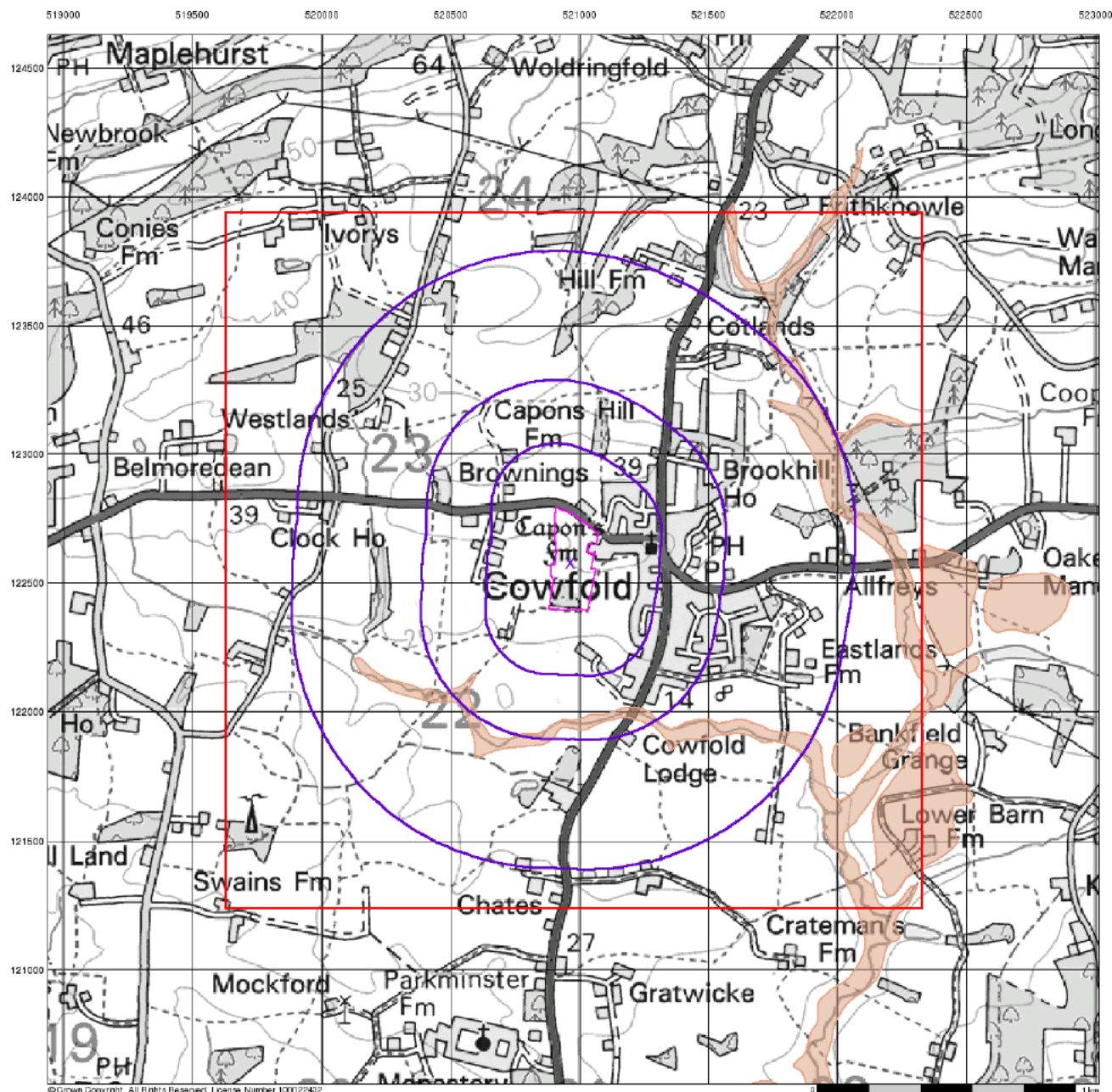
Order Number: 277681427_1_1
 Customer Ref: GE19071
 National Grid Reference: 520960, 122580
 Slice: A
 Site Area (Ha): 5.46
 Search Buffer (m): 1000

Site Details

Field, Station Road, Cowfold, HORSHAM, RH13 8QZ

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Geo-Environmental Superficial Aquifer Designation

General

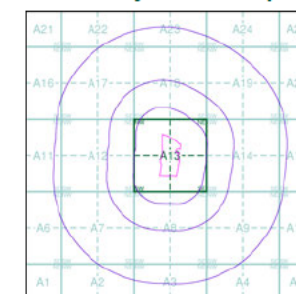
- ◊ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

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

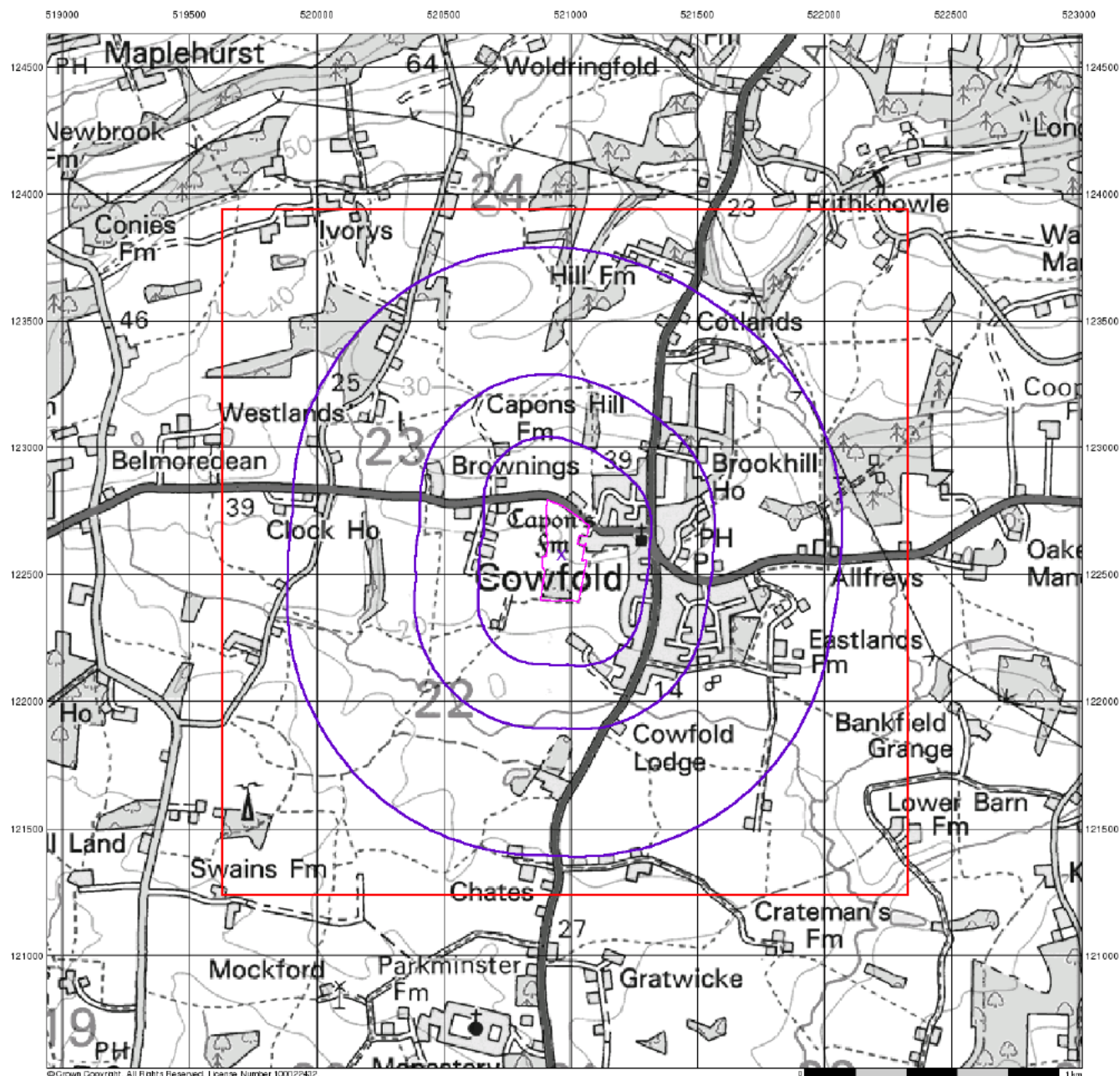
Order Number: 277681427_1_1
 Customer Ref: GE19071
 National Grid Reference: 520960, 122580
 Slice: A
 Site Area (Ha): 5.46
 Search Buffer (m): 1000

Site Details

Field, Station Road, Cowfold, HORSHAM, RH13 8QZ

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Geo-Environmental Source Protection Zones

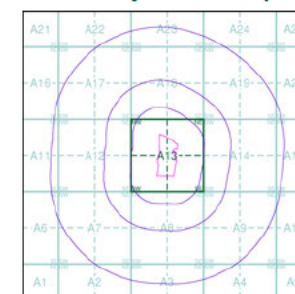
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

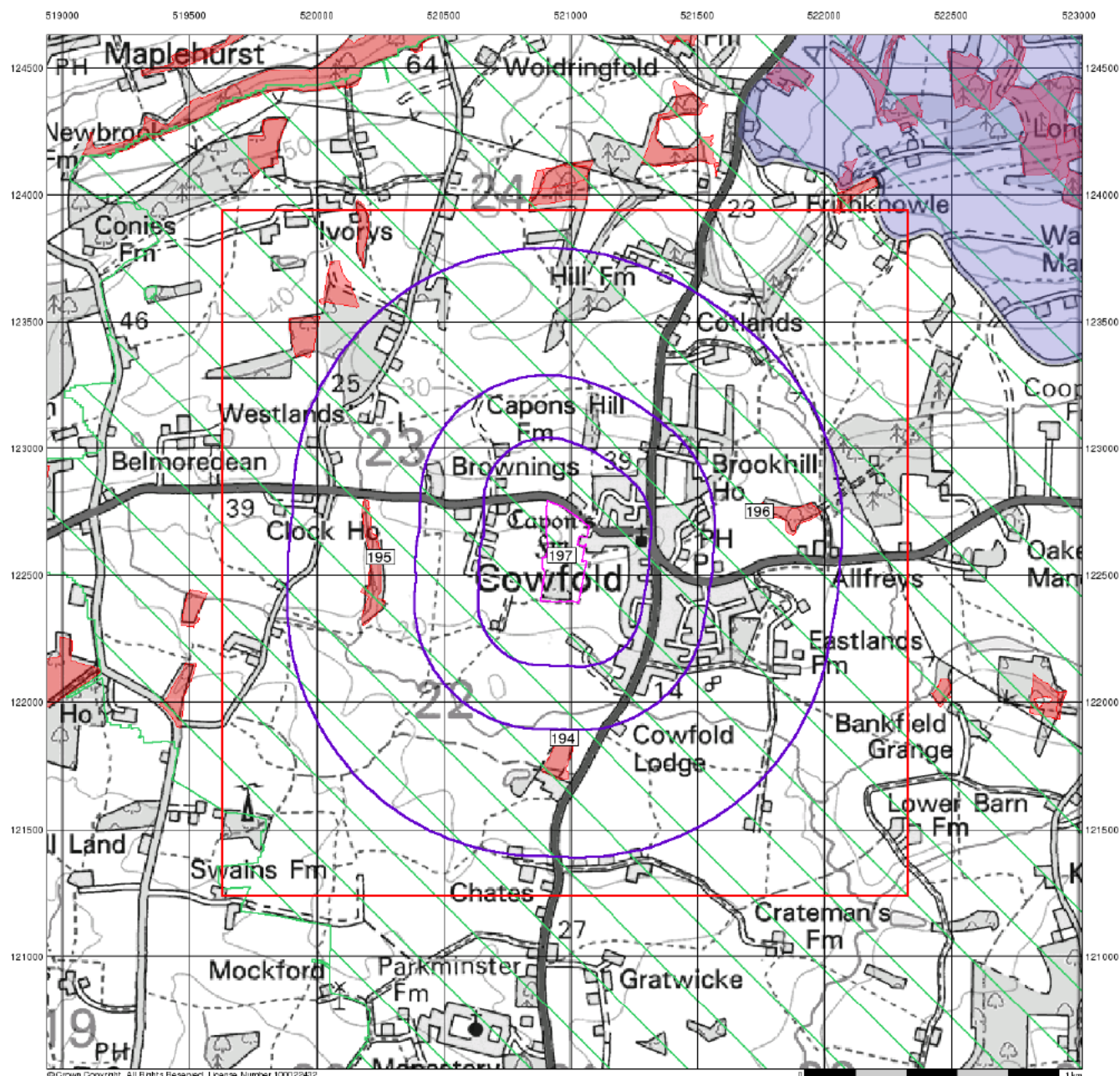
Order Number: 277681427_1_1
 Customer Ref: GE19071
 National Grid Reference: 520960, 122580
 Slice: A
 Site Area (Ha): 5.46
 Search Buffer (m): 1000

Site Details

Field, Station Road, Cowfold, HORSHAM, RH13 8QZ

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Geo-Environmental Sensitive Land Uses

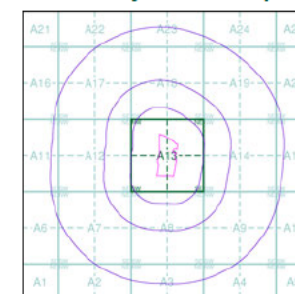
General

- 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

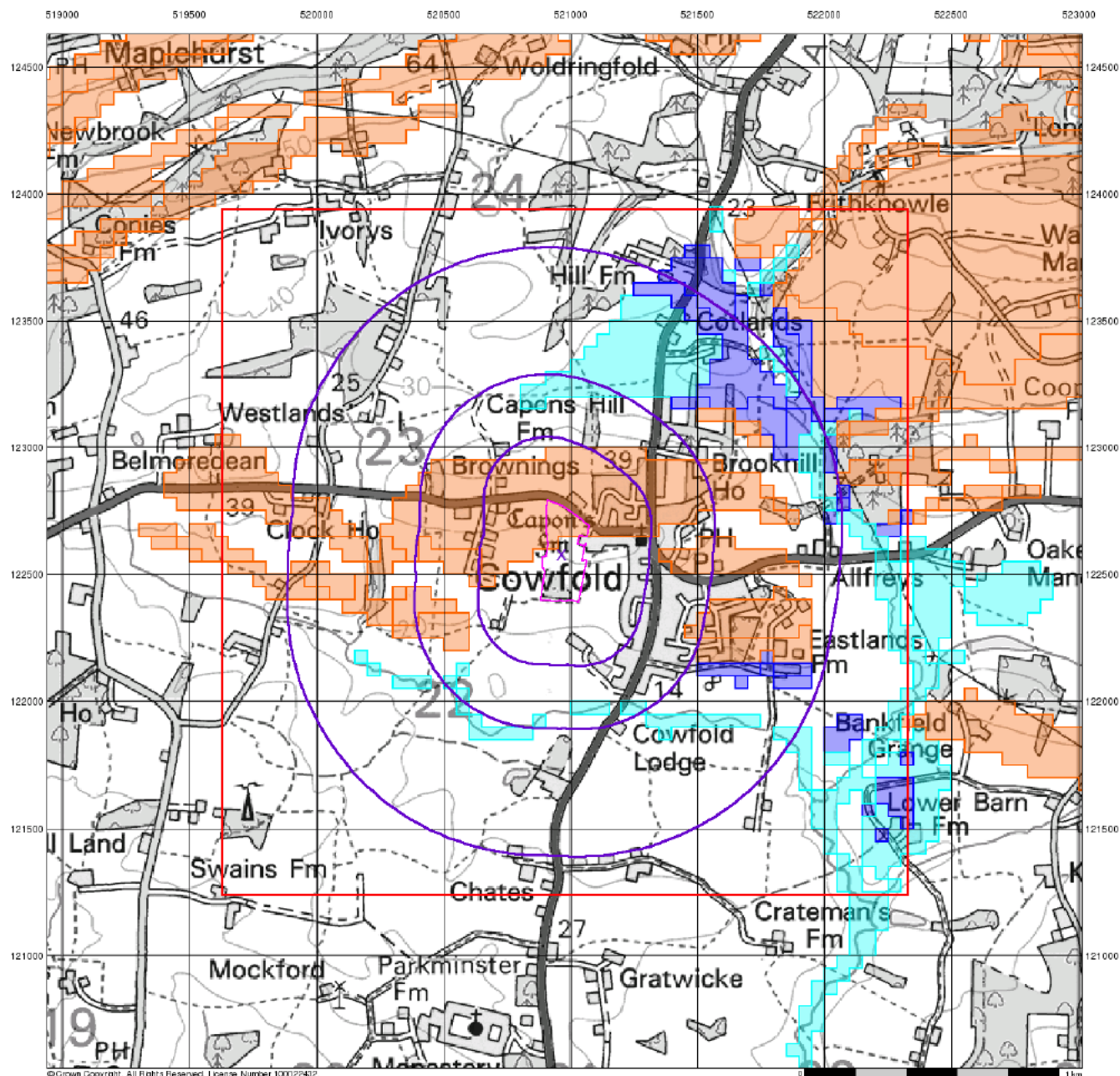
Order Number: 277681427_1_1
 Customer Ref: GE19071
 National Grid Reference: 520960, 122580
 Slice: A
 Site Area (Ha): 5.46
 Search Buffer (m): 1000

Site Details

Field, Station Road, Cowfold, HORSHAM, RH13 8QZ

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Geo-Environmental

BGS Flood GFS Data

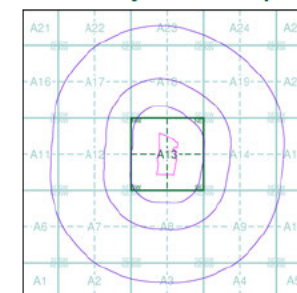
General

- 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: 277681427_1_1
 Customer Ref: GE19071
 National Grid Reference: 520960, 122580
 Slice: A
 Site Area (Ha): 5.46
 Search Buffer (m): 1000

Site Details

Field, Station Road, Cowfold, HORSHAM, RH13 8QZ

Landmark
 INFORMATION GROUP

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



Geo-Environmental

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

277681427_1_1

Customer Reference:

GE19071

National Grid Reference:

520960, 122580

Slice:

A

Site Area (Ha):

5.46

Search Buffer (m):

1000

Site Details:

Field

Station Road

Cowfold

HORSHAM

RH13 8QZ

Client Details:

Ms K Brayne

Geo Environmental Services Ltd

Unit 7 Danworth Farm

Cuckfield Road

Hurstpierpoint

West Sussex

BN6 9GL

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	29
Hazardous Substances	-
Geological	30
Industrial Land Use	38
Sensitive Land Use	42
Data Currency	43
Data Suppliers	48
Useful Contacts	49

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



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		4	4	31
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 11	Yes			
Pollution Incidents to Controlled Waters	pg 11		1	1	
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 11			1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 12				(*3)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 12	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 14	1	5	19	109



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 29				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 29	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 29				1
Potentially Infilled Land (Non-Water)	pg 29	1			
Potentially Infilled Land (Water)					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 30	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 30	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 35	1	1	3	3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
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 37	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 37	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 37	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 37	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
Industrial Land Use					
Contemporary Trade Directory Entries	pg 38		2	14	5
Fuel Station Entries	pg 39			2	
Points of Interest - Commercial Services	pg 40		1	3	
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 40			2	3
Points of Interest - Public Infrastructure	pg 40			1	2
Points of Interest - Recreational and Environmental	pg 41			4	
Gas Pipelines					
Underground Electrical Cables					



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 42				3
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 42	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	0	1	520950 122600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	188	1	520700 122500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	286	1	520600 122350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	289	1	521350 122579
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	332	1	520550 122400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	359	1	520900 123150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (SW)	375	1	520600 122150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	392	1	521000 122000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	427	1	521200 122000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	429	1	521450 122300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (SW)	445	1	520550 122100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (S)	447	1	520900 121950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (SW)	447	1	520600 122050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A9NW (SE)	490	1	521500 122250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8SW (S)	498	1	520850 121900
1	Discharge Consents Operator: The Chairman & Managers Property Type: SPORT, AMUSEMENT+RECREATION/GOLF CLUB/GYM/THEME PK/SPA Location: St. Peter'S School & Swim Pool, Cowfold Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: S01817 Permit Version: 1 Effective Date: 31st March 1971 Issued Date: 31st March 1971 Revocation Date: 1st July 1991 Discharge Type: Non Water Company (Private) Sewage Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13NE (E)	144	2	521200 122600



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: The Chairman & Managers Property Type: SPORT, AMUSEMENT+RECREATION/GOLF CLUB/GYM/THEME PK/SPA Location: St. Peter'S School & Swim Pool, Cowfold Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: S01817 Permit Version: 1 Effective Date: 31st March 1971 Issued Date: 31st March 1971 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Swimming Pool Contents Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13NE (E)	144	2	521200 122600
2	Discharge Consents Operator: Mr P.M.Dubrey Property Type: Undefined Or Other Location: New Barn Farm, Kent Street, Cowfold, Horsham West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P02204 Permit Version: 1 Effective Date: 10th March 1989 Issued Date: 10th March 1989 Revocation Date: Not Supplied Discharge Type: Non Water Company (Private) Sewage Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	185	2	521150 122250
3	Discharge Consents Operator: Mr A W Lea Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Jarvis Cottage, Cowfold Jarvis Cottage, Station Road, Cowfold, West Sussex, Rh13 8dd Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: P12488 Permit Version: 1 Effective Date: 19th August 2005 Issued Date: 19th August 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of Cowfold Stream Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	248	2	520650 122310
4	Discharge Consents Operator: Mr Julian Brown & Mrs Mandy Brown Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: The Old Mill, Station Rd, Cowfold The Old Mill, Station Road, Cowfold, West Sussex, Rh13 8de Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: P00060 Permit Version: 1 Effective Date: 4th July 1985 Issued Date: 4th July 1985 Revocation Date: Not Supplied Discharge Type: Non Water Company (Private) Sewage Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13NW (W)	256	2	520640 122630



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: P N Dubrey Esq Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Wood Grange, Cowfold Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S02806 Permit Version: 1 Effective Date: 1st May 1962 Issued Date: 1st May 1962 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A8NE (S)	321	2	521140 122090
6	Discharge Consents Operator: Designer Developments Ltd Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 4 House Dev Bridge Garage Cowfold 4 House Development Bridge Garag, A281 Henfield Road, Cowfold, West Sussex, Rh13 8dt Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: P13236 Permit Version: 1 Effective Date: 20th November 2007 Issued Date: 20th November 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Brownings Gill Trib Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	444	2	521240 122000
6	Discharge Consents Operator: Mr Scott Blackwell Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Bridgewater, Henfield Road, Cowfold, Sussex, Rh13 8dt Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: Npswqd006256 Permit Version: 1 Effective Date: 28th January 2009 Issued Date: 28th January 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	467	2	521271 121992
7	Discharge Consents Operator: Mr And Mrs Illingsworth Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Brownings Farm, Station Road, Cowfold, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09715 Permit Version: 1 Effective Date: 13th July 2001 Issued Date: 13th July 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	527	2	520390 122900



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Mr Tidy Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Brook Farm Cottage & 2 Other Cott. Horsham Road, Cowfold, Horsham, West Sussex, Rh13 8ah Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: P11905 Permit Version: 1 Effective Date: 22nd October 2003 Issued Date: 22nd October 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land/Into Watercourse Environment: Receiving Water: Ditch To River Adur East Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	557	2	521400 123140
9	Discharge Consents Operator: M Tidy Esq. Property Type: Undefined Or Other Location: Brook Farm, Horsham Road, Cowfold West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P01956 Permit Version: 1 Effective Date: 30th January 1989 Issued Date: 30th January 1989 Revocation Date: Not Supplied Discharge Type: Non Water Company (Private) Sewage Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	608	2	521380 123220
10	Discharge Consents Operator: Messrs. Warr & King Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 5 Houses, Henfield-Beeding Road, Cowfold, Horsham, West Sussex, Rh13 Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: S01013 Permit Version: 1 Effective Date: 15th March 1965 Issued Date: 15th March 1965 Revocation Date: 3rd March 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	648	2	521440 121890
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 9 Effective Date: 1st April 2019 Issued Date: 27th November 2018 Revocation Date: 30th March 2020 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 9 Effective Date: 1st April 2019 Issued Date: 27th November 2018 Revocation Date: 30th March 2020 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 10 Effective Date: 31st March 2020 Issued Date: 27th November 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 10 Effective Date: 31st March 2020 Issued Date: 27th November 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 7 Effective Date: 31st March 2010 Issued Date: 31st March 2010 Revocation Date: 31st March 2019 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 7 Effective Date: 31st March 2010 Issued Date: 31st March 2010 Revocation Date: 31st March 2019 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 6 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 6 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 8 Effective Date: 19th March 2008 Issued Date: 19th March 2008 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 8 Effective Date: 19th March 2008 Issued Date: 19th March 2008 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 5 Effective Date: 1st April 2005 Issued Date: 18th March 2005 Revocation Date: 18th March 2008 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 5 Effective Date: 1st April 2005 Issued Date: 18th March 2005 Revocation Date: 18th March 2008 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 4 Effective Date: 31st March 2003 Issued Date: 25th March 2003 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: W00356 Permit Version: 4 Effective Date: 31st March 2003 Issued Date: 25th March 2003 Revocation Date: 31st March 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cowfold Stream Trib River Adur Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Old-River Adur 60 Reference: W00356 Permit Version: 3 Effective Date: 19th November 2001 Issued Date: 19th November 2001 Revocation Date: 30th March 2003 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater Stream Or River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Old-River Adur 60 Reference: W00356 Permit Version: 3 Effective Date: 19th November 2001 Issued Date: 19th November 2001 Revocation Date: 30th March 2003 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater Stream Or River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Old-River Adur 60 Reference: W00356 Permit Version: 2 Effective Date: 14th October 1991 Issued Date: 14th October 1991 Revocation Date: 19th November 2001 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater Stream Or River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	654	2	521530 121970



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Old-River Adur 60 Reference: W00356 Permit Version: 2 Effective Date: 14th October 1991 Issued Date: 14th October 1991 Revocation Date: 19th November 2001 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater Stream Or River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Old-River Adur 60 Reference: W00356 Permit Version: 1 Effective Date: 10th June 1980 Issued Date: 10th June 1980 Revocation Date: 13th October 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater Stream Or River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
11	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cowfold Wwtw Eastlands Lane, Cowfold, ., West Sussex, Rh13 8gz Authority: Environment Agency, Southern Region Catchment Area: Old-River Adur 60 Reference: W00356 Permit Version: 1 Effective Date: 10th June 1980 Issued Date: 10th June 1980 Revocation Date: 13th October 1991 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater Stream Or River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	654	2	521530 121970
12	Discharge Consents Operator: Cantello Devolpment Ltds Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Residential Dev. Eastlands Farm Residential Dev. Eastlands Farm, Eastlands Lane, Cowfold, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09356 Permit Version: 1 Effective Date: 29th August 2000 Issued Date: 29th August 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	708	2	521680 122110



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: F.F.Kurzeja Esq. Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Hillsfoot Cottage, Burnthouse Lane, Cowfold, Horsham West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P02080 Permit Version: 1 Effective Date: 4th January 1989 Issued Date: 4th January 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	790	2	520270 123260
14	Discharge Consents Operator: The Occupier Property Type: Undefined Or Other Location: Brook Farm, Cowfold Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01484 Permit Version: 1 Effective Date: 13th May 1966 Issued Date: 13th May 1966 Revocation Date: 31st March 1997 Discharge Type: Non Water Company (Private) Sewage Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	792	2	521610 123270
15	Discharge Consents Operator: J. Hawkins Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Chates Cottage, Henfield Road, COWFOLD , West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P00323 Permit Version: 1 Effective Date: 12th May 1986 Issued Date: 12th May 1986 Revocation Date: 31st March 1997 Discharge Type: Non Water Company (Private) Sewage Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A8SW (S)	805	2	520950 121590
16	Discharge Consents Operator: Mrs P Reed Property Type: Undefined Or Other Location: West Cotlands, Horsham Road, Cowfold, West Sussex, Rh13 8ah Authority: Environment Agency, Southern Region Catchment Area: Old-River Adur 60 Reference: P00872 Permit Version: 1 Effective Date: 13th April 1987 Issued Date: 13th April 1987 Revocation Date: 31st March 1997 Discharge Type: Trade Discharges - Site Drainage (Contam Surface Water, Not Tips) Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater Stream Or River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	825	2	521380 123480



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Discharge Consents Operator: Jacob Timothy Lovelock Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: The Old Pump Hse, Stone House Lane, Cowfold, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09631 Permit Version: 1 Effective Date: 18th May 2001 Issued Date: 18th May 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A12NW (W)	901	2	519990 122640
18	Discharge Consents Operator: Richard Clifford Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Averys, Bolney Rd, Cowfold, Horsham, Susssex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09719 Permit Version: 1 Effective Date: 22nd May 2001 Issued Date: 22nd May 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A15SW (E)	938	2	522000 122580
	Nearest Surface Water Feature	A13NE (NE)	0	-	521064 122648
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Pond Rear Of 36 Thornden, COWFOLD Authority: Environment Agency, Southern Region Pollutant: Miscellaneous - Natural Note: Dead Roach In Pond Incident Date: 23rd July 1994 Incident Reference: P00720 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: General Pollution - Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	131	2	521200 122700
20	Pollution Incidents to Controlled Waters Property Type: Construction Location: Building Site, Acorn Avenue Authority: Environment Agency, Southern Region Pollutant: Oils - Gas Oil Note: Oil In Ditch Incident Date: 1st December 1996 Incident Reference: 596375 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Inadequate Construction Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	393	2	521000 122000
	River Quality Name: Cowfold Strm GQA Grade: River Quality B Reach: Cowfold - Lower Beeding Estimated Distance (km): 7.2 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A8SE (S)	489	2	521083 121905



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: The Procurator Licence Number: 10/41/322103 Permit Version: 100 Location: St Hugh'S Charterhouse Well No 1 Authority: Environment Agency, Southern Region Abstraction: Private Water Supply: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land And Buildings At St Hugh'S Charterhouse Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SW)	1742	2	520210 120790
	Water Abstractions Operator: The Procurator Licence Number: 10/41/322103 Permit Version: 100 Location: St Hugh'S Charterhouse Well No 3 Authority: Environment Agency, Southern Region Abstraction: Private Water Supply: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land And Buildings At St Hugh'S Charterhouse Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1779	2	520680 120630
	Water Abstractions Operator: The Procurator Licence Number: 10/41/322103 Permit Version: 100 Location: St Hugh'S Charterhouse Well No 2 Authority: Environment Agency, Southern Region Abstraction: Private Water Supply: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 15 Yearly Rate (m3): 5309 Details: Land And Buildings At St Hugh'S Charterhouse Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1872	2	520430 120580
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (N)	0	3	520952 122623



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NE (NE)	0	3	521000 122633
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SW (NW)	0	3	520961 122579
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (E)	0	3	521000 122579
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (N)	0	3	520952 122623
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13SW (NW)	0	3	520961 122579
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NE (NE)	0	4	521064 122648
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NW (W)	92	4	520800 122595
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (W)	102	4	520787 122577
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (W)	105	4	520783 122572
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (SW)	166	4	520725 122471
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 215.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (SW)	173	4	520717 122468
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (SW)	264	4	520641 122291
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (SW)	264	4	520641 122291
29	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 10.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SE (SW)	272	4	520628 122298



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 140.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	345	4	520593 122209
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NW (NE)	352	4	521366 122880
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NW (NE)	361	4	521377 122881
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 518.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18SW (N)	380	4	520829 123163
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8NE (S)	392	4	521171 122026
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 319.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8NW (S)	412	4	520938 121970
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8NE (S)	416	4	521176 122003
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: Underground Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8NE (S)	418	4	521188 122004
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8NE (S)	419	4	521191 122005



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8NE (SE)	422	4	521201 122006
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 193.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8NE (SE)	423	4	521205 122006
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8NW (S)	463	4	520876 121934
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	469	4	520536 122080
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	469	4	520536 122080
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Underground Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8SW (S)	496	4	520809 121907
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 109.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8SW (S)	497	4	520803 121907
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SW (E)	510	4	521570 122578
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	526	4	520574 121970



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	528	4	520575 121967
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	540	4	520463 122057
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 488.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	544	4	520461 122052
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8SW (SW)	549	4	520648 121900
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8SW (SW)	549	4	520648 121900
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8SW (S)	551	4	520703 121876
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A8SW (S)	555	4	520700 121873
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 147.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 2	A8SW (SW)	559	4	520660 121883
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 452.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	575	4	521382 121936



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	576	4	521381 121935
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 323.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	582	4	521375 121923
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 194.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SW (E)	591	4	521620 122330
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7SE (SW)	597	4	520604 121868
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7SE (SW)	600	4	520601 121866
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 161.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	601	4	521333 123246
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	613	4	521337 123258
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SW (SE)	618	4	521636 122268
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SW (SE)	619	4	521636 122264



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 648.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	645	4	520237 122507
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (NE)	679	4	521348 123329
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NE (SE)	680	4	521663 122140
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7SE (SW)	682	4	520543 121805
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (NE)	684	4	521360 123327
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7SE (SW)	686	4	520542 121801
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NE (SE)	687	4	521667 122133
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7SE (SW)	690	4	520540 121798
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 199.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 2	A14SE (E)	696	4	521732 122288



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7SE (SW)	699	4	520534 121791
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 91.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (NE)	700	4	521364 123345
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 195.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A12NW (W)	703	4	520203 122816
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: Underground Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A12NW (W)	704	4	520201 122793
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 285.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7SE (SW)	705	4	520530 121786
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SE (E)	720	4	521750 122325
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (NE)	723	4	521491 123280
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	733	4	521644 121989
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (NE)	737	4	521492 123298



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (NE)	737	4	521492 123298
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 251.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8SE (S)	739	4	521110 121657
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 272.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (NE)	741	4	521499 123297
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 275.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NE (SE)	744	4	521654 121985
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	754	4	520180 122995
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	755	4	520180 122998
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NW (SW)	757	4	520142 122235
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8SE (S)	765	4	521221 121650
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8SE (S)	782	4	520986 121612



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: Underground Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	784	4	520172 123069
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 111.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	786	4	520170 123067
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	795	4	520097 122268
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	798	4	520095 122271
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 272.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8SW (S)	801	4	520955 121594
98	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 13.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A23SE (N)	826	4	521034 123607
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 159.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A23SE (N)	838	4	521030 123620
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 235.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	852	4	521742 123214
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	852	4	521742 123214



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	856	4	520135 123163
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 226.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	860	4	520131 123166
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A3NW (S)	872	4	520711 121542
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 246.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A3NW (S)	874	4	520707 121541
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	875	4	520011 122311
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 140.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	879	4	520007 122312
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	893	4	521959 122772
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	899	4	521906 123020
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	899	4	521906 123020



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	899	4	521906 123020
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 232.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	900	4	521973 122823
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	900	4	521909 123015
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: Underground Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A9SE (SE)	900	4	521783 121898
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	900	4	521965 122781
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	901	4	521901 123038
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	901	4	521901 123038
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	904	4	521968 122785
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 140.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A9SE (SE)	905	4	521787 121895



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	910	4	521866 123133
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	914	4	521877 123120
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	914	4	521877 123120
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	914	4	521895 123084
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	914	4	521895 123084
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	917	4	521917 123040
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	917	4	521917 123040
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	918	4	521887 123107
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	921	4	521983 122805



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	925	4	521988 122800
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	925	4	521905 123086
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A15NW (E)	928	4	521991 122797
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	929	4	521919 123068
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A15NW (E)	941	4	522001 122822
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A15NW (E)	944	4	522009 122775
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A15NW (E)	945	4	522011 122770
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 457.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	948	4	521873 123194
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (E)	960	4	521983 122997



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	960	4	521937 123100
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	961	4	521937 123103
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cowfold Stream Catchment Name: Adur and Teville Primacy: 1	A15NW (E)	967	4	522034 122762
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A20SW (E)	969	4	521990 122994
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A20SW (E)	971	4	521992 122993
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 482.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cowfold Stream Catchment Name: Adur and Teville Primacy: 1	A15NW (E)	972	4	522039 122747
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A15NW (E)	974	4	522037 122794
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NE (NE)	979	4	521776 123368
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NE (NE)	979	4	521776 123368



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: Underground Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A17NW (NW)	983	4	520103 123359
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Browning's Gill Catchment Name: Adur and Teville Primacy: 1	A17NW (NW)	984	4	520103 123361
149	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 62.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NE (NE)	984	4	521766 123386
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 306.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A17NW (NW)	985	4	520109 123371
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A17NW (NW)	986	4	520103 123365
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A20SW (E)	989	4	522012 122988
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 863.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A20SW (E)	990	4	522013 122989
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A23SE (N)	994	4	521081 123770



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	Historical Landfill Sites Licence Holder: Not Supplied Location: Dragons Lane, Cowfold, Sussex Name: Cowfold Eastlands Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD20119 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Unknown Material Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: WD27/314, WD27/299	A9NE (SE)	872	2	521880 122192
	Local Authority Landfill Coverage Name: Horsham District Council - Has supplied landfill data		0	5	520961 122579
	Local Authority Landfill Coverage Name: West Sussex County Council - Has supplied landfill data		0	6	520961 122579
156	Local Authority Recorded Landfill Sites Location: Eastlnds Farm, Dragon Lane, Cowfold Reference: 27/299 Authority: Horsham District Council, Environmental Health Department Last Reported Status: Not Supplied Types of Waste: Industrial Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Applicable	A9NE (SE)	793	5	521800 122200
157	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1980	A13SW (SW)	0	-	520898 122438



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Wealden Group	A13SW (NW)	0	1	520961 122579
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (NW)	0	1	520961 122579
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 600 - 1200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	1	521000 122500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	0	1	521000 122579
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	0	1	520961 122500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	209	1	520961 123000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	211	1	521000 122983



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NW (E)	306	1	521367 122600
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	335	1	521390 122500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	374	1	520870 123164
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (W)	382	1	520500 122579
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NE (S)	392	1	521000 122000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (S)	393	1	520961 122000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	402	1	521039 121989
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NE (S)	432	1	521101 121965
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (SE)	434	1	521455 122301
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NE (SE)	459	1	521270 122000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (SE)	472	1	521500 122334
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NE (SW)	551	1	520500 122000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9NW (SE)	611	1	521500 122000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	631	1	521500 121970
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9SW (SE)	681	1	521500 121898
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	758	1	521761 123000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	838	1	521734 123201
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	889	1	521943 122864



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 30 - 45 mg/kg Concentration:	A3NE (S)	892	1	521000 121500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A3NW (S)	893	1	520961 121500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	895	1	521954 122824
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	914	1	521981 122746
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15NW (E)	931	1	522000 122708
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15SW (E)	931	1	522000 122579



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15NW (E)	933	1	522000 122758
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15NW (E)	934	1	522000 122769
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15NW (E)	942	1	522009 122763
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15NW (E)	960	1	522020 122821
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15NW (E)	988	1	522052 122787
158	BGS Recorded Mineral Sites Site Name: Cowfold Brick Field Location: Cowfold, Horsham, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 152153 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Weald Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SW (S)	0	1	520915 122427



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	BGS Recorded Mineral Sites Site Name: Brook Hill Pit Location: Cowfold, Horsham, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 152157 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Weald Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SW (N)	210	1	520948 122997
160	BGS Recorded Mineral Sites Site Name: Browning'S Farm Pits Location: Cowfold, Horsham, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 152156 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Weald Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	294	1	520713 123014
161	BGS Recorded Mineral Sites Site Name: Brook Hill Pit Location: Cowfold, Horsham, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 152158 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Weald Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	335	1	521213 123004
162	BGS Recorded Mineral Sites Site Name: Browning'S Farm Pits Location: Cowfold, Horsham, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 152155 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Weald Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	405	1	520536 122957
163	BGS Recorded Mineral Sites Site Name: Brookhill House Pit Location: Cowfold, Horsham, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 152159 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Weald Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	514	1	521482 122997
164	BGS Recorded Mineral Sites Site Name: Browning'S Farm Pits Location: Cowfold, Horsham, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 152154 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Weald Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	587	1	520322 122847



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	BGS Recorded Mineral Sites Site Name: Brookhill House Pit Location: Cowfold, Horsham, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 152160 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Weald Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14NE (E)	738	1	521773 122914
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	520961 122579
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	27	1	520959 122366
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	520961 122579
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	520961 122579
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	520961 122579
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	520961 122579
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	520961 122579
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	520961 122579
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	520952 122623
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	520961 122579
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	520961 122579



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	Contemporary Trade Directory Entries Name: Saddlers Blinds Location: Saddlers, Station Road, Cowfold, Horsham, West Sussex, RH13 8DA Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	28	-	521094 122662
167	Contemporary Trade Directory Entries Name: Splodge Clock Co Location: Sussex House, Station Road, Cowfold, Horsham, West Sussex, RH13 8DA Classification: Clocks & Watches - Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	232	-	521298 122649
168	Contemporary Trade Directory Entries Name: South Coast Preservation Ltd Location: Palmerston House, The Street, Cowfold, Horsham, West Sussex, RH13 8BP Classification: Timber Preservation Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (E)	274	-	521338 122630
168	Contemporary Trade Directory Entries Name: South Coast Preservation Ltd Location: Palmerston House, The Street, Cowfold, Horsham, RH13 8BP Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	275	-	521339 122630
168	Contemporary Trade Directory Entries Name: A & H Europe Ltd Location: Farren Court, The Street, Cowfold, Horsham, RH13 8BP Classification: Packaging Materials Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (E)	302	-	521366 122628
168	Contemporary Trade Directory Entries Name: S O R Location: Farren Court, The Street, Cowfold, Horsham, West Sussex, RH13 8BP Classification: Oil Companies Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	317	-	521381 122628
169	Contemporary Trade Directory Entries Name: P J Barrow & Partners Ltd Location: Watermead, Henfield Road, Cowfold, HORSHAM, West Sussex, RH13 8DT Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	276	-	521202 122175
170	Contemporary Trade Directory Entries Name: Wheelwise Engineering Location: The Smithy Workshops, Bolney Road, Cowfold, Horsham, RH13 8AA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	321	-	521376 122501
171	Contemporary Trade Directory Entries Name: S M G Location: Henfield Road, Cowfold, Horsham, West Sussex, RH13 8DT Classification: Commercial Vehicle Dealers Status: Active Positional Accuracy: Manually positioned to the address or location	A8NE (SE)	333	-	521252 122143
172	Contemporary Trade Directory Entries Name: Fowler Swimming Pools Ltd Location: Henfield Road, Cowfold, Horsham, West Sussex, RH13 8BS Classification: Swimming Pool Contractors, Repairers & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	359	-	521322 122181
172	Contemporary Trade Directory Entries Name: Robin Lackford Motor Engineering Location: Unit 1, Fowlers Business Centre, Henfield Road, Cowfold, Horsham, RH13 8BS Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	381	-	521328 122153



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
173	Contemporary Trade Directory Entries Name: Southern Motor Group Cowfold Location: Henfield Road, Cowfold, Horsham, West Sussex, RH13 8DT Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NE (SE)	380	-	521261 122090
174	Contemporary Trade Directory Entries Name: Fork Truck Training Services Location: 68, Acorn Avenue, Cowfold, Horsham, West Sussex, RH13 8RT Classification: Fork Lift Trucks Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	428	-	521431 122241
175	Contemporary Trade Directory Entries Name: Monza Sport Location: Bridge Garage, Henfield Road, Cowfold, Horsham, West Sussex, RH13 8DT Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	434	-	521267 122027
175	Contemporary Trade Directory Entries Name: P R Car Sales Location: Henfield Road, Cowfold, Horsham, RH13 8DT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	434	-	521265 122026
175	Contemporary Trade Directory Entries Name: Clark Lifting Solutions UK Ltd Location: Bridge Garage, Henfield Road, Cowfold, Horsham, West Sussex, RH13 8DT Classification: Crane Hire, Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	436	-	521271 122028
176	Contemporary Trade Directory Entries Name: The Filling Machine Co Location: Bolney Rd, Cowfold, Horsham, West Sussex, RH13 8AZ Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	521	-	521572 122462
177	Contemporary Trade Directory Entries Name: John Hollis Location: Unit 3, Brook Farm, Horsham Road, Cowfold, Horsham, West Sussex, RH13 8AH Classification: Cabinet Makers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	545	-	521353 123162
177	Contemporary Trade Directory Entries Name: Moulded Acrylic Products Location: Unit 2/4, Brook Farm, Horsham Road, Cowfold, Horsham, West Sussex, RH13 8AH Classification: Lamination & Encapsulation Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	553	-	521368 123161
178	Contemporary Trade Directory Entries Name: South Coast Fabrication Location: Chates Cottage, Henfield Road, Cowfold, Horsham, West Sussex, RH13 8DU Classification: Machine Shops Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	787	-	520947 121608
179	Contemporary Trade Directory Entries Name: David Jenkins Printing Location: 1, Westlands Farm Cottages, Burnt House Lane, Cowfold, Horsham, West Sussex, RH13 8DG Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	951	-	519984 123025
180	Fuel Station Entries Name: Cowfold Garage Location: Henfield Road, Cowfold, Horsham, West Sussex, RH13 8DT Brand: Proteus Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Approximate location provided by supplier	A8NE (S)	323	-	521090 122075



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
181	Fuel Station Entries Name: Bridge Garage Location: Henfield Road , Cowfold , Horsham, West Sussex, RH13 8DT Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A8NE (SE)	435	-	521267 122027
182	Points of Interest - Commercial Services Name: Cowfold Auto Repairs Location: Capons Hill Farm, Station Road, Cowfold, Horsham, RH13 8DE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SW (NW)	246	7	520723 122956
183	Points of Interest - Commercial Services Name: Wheelwise Engineering Location: The Smithy Workshops, Bolney Road, Cowfold, Horsham, RH13 8AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	320	7	521375 122501
184	Points of Interest - Commercial Services Name: Robin Lackford Motor Engineering Location: Unit 1 Fowlers Business Centre, Henfield Road, Cowfold, Horsham, RH13 8BS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	381	7	521328 122153
184	Points of Interest - Commercial Services Name: Robin Lackford Location: Unit 1 Fowlers Business Centre, Henfield Road, Cowfold, Horsham, RH13 8BS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	390	7	521340 122153
185	Points of Interest - Manufacturing and Production Name: Works Location: RH13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	386	7	521344 122166
185	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	387	7	521347 122169
186	Points of Interest - Manufacturing and Production Name: Tank Location: RH13 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	568	7	521491 123071
187	Points of Interest - Manufacturing and Production Name: Works Location: RH13 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	595	7	521525 122060
188	Points of Interest - Manufacturing and Production Name: Solar Panels Location: RH13 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	810	7	521688 123214
189	Points of Interest - Public Infrastructure Name: Cowfold Garage Location: Henfield Road, Cowfold, Horsham, RH13 8DT Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NE (SE)	333	7	521253 122143



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
190	Points of Interest - Public Infrastructure Name: Sewage Works Location: RH13 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	592	7	521524 122064
190	Points of Interest - Public Infrastructure Name: Sewage Works Location: RH13 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A9NW (SE)	614	7	521547 122060
191	Points of Interest - Recreational and Environmental Name: Playground Location: Fairfield Cottages, RH13 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A14SW (E)	388	7	521445 122512
192	Points of Interest - Recreational and Environmental Name: Skatepark Location: RH13 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	448	7	521511 122606
193	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	482	7	521503 122297
193	Points of Interest - Recreational and Environmental Name: Playground Location: Acorn Avenue, RH13 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A14SW (SE)	485	7	521506 122293



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	Ancient Woodland Name: Not Supplied Reference: 1478234 Area(m ²): 12212.82 Type: Ancient and Semi-Natural Woodland	A8SW (S)	536	8	520970 121859
195	Ancient Woodland Name: Not Supplied Reference: 1478233 Area(m ²): 20683.27 Type: Ancient and Semi-Natural Woodland	A12SW (W)	613	8	520250 122571
196	Ancient Woodland Name: Not Supplied Reference: 1478108 Area(m ²): 13247.8 Type: Ancient and Semi-Natural Woodland	A14NE (E)	677	8	521744 122753
197	Nitrate Vulnerable Zones Name: Adur East (Sakeham) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SW (NW)	0	3	520961 122579



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Horsham District Council - Environmental Health Department Environment Agency - Head Office Mid Sussex District Council - Environmental Services Section	February 2015 June 2020 November 2014	Annual Rolling Update Annually Annual Rolling Update
Discharge Consents Environment Agency - Southern Region	January 2021	Quarterly
Enforcement and Prohibition Notices Environment Agency - Southern Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Southern Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region	January 2021 January 2021	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Horsham District Council - Environmental Health Department Mid Sussex District Council - Environmental Services Section	June 2015 September 2014	Variable Variable
Local Authority Pollution Prevention and Controls Horsham District Council - Environmental Health Department Mid Sussex District Council - Environmental Services Section	June 2015 September 2014	Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Horsham District Council - Environmental Health Department Mid Sussex District Council - Environmental Services Section	June 2015 September 2014	Variable Variable
Nearest Surface Water Feature Ordnance Survey	January 2021	
Pollution Incidents to Controlled Waters Environment Agency - Southern Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Southern Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Southern Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - Southern Region	June 2016	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	January 2021 January 2021 January 2021	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Southern Region	January 2021	Quarterly
Water Industry Act Referrals Environment Agency - Southern Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually



Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	March 2021	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	March 2021	Quarterly
Flood Defences Environment Agency - Head Office	March 2021	Quarterly
OS Water Network Lines Ordnance Survey	September 2020	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually



Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	January 2021 January 2021 January 2021	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	January 2021 January 2021 January 2021	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Horsham District Council - Environmental Health Department Mid Sussex District Council - Environmental Services Section West Sussex County Council - Environment & Development	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Horsham District Council - Environmental Health Department Mid Sussex District Council - Environmental Services Section West Sussex County Council - Environment & Development	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	March 2003 March 2003	Not Applicable Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Horsham District Council - Planning Department Mid Sussex District Council West Sussex County Council - Environment & Development	August 2015 January 2016 October 2006	Variable Variable Annual Rolling Update
Planning Hazardous Substance Consents Horsham District Council - Planning Department Mid Sussex District Council West Sussex County Council - Environment & Development	August 2015 January 2016 October 2006	Variable Variable Annual Rolling Update



Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2020	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2021	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2021	Quarterly
Gas Pipelines National Grid	January 2021	
Points of Interest - Commercial Services PointX	March 2021	Quarterly
Points of Interest - Education and Health PointX	March 2021	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2021	Quarterly
Points of Interest - Public Infrastructure PointX	March 2021	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2021	Quarterly
Underground Electrical Cables National Grid	April 2021	



Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt Horsham District Council - Planning Department Mid Sussex District Council	June 2020 June 2020	As notified As notified
Areas of Unadopted Green Belt Horsham District Council - Planning Department Mid Sussex District Council	June 2020 June 2020	As notified As notified
Areas of Outstanding Natural Beauty Natural England	January 2021	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	Bi-Annually



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	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	



Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Horsham District Council - Environmental Health Department Park House, North Street, Horsham, Sussex, RH12 1RL	Telephone: 01403 215100 Fax: 01403 732790 Website: www.horsham.gov.uk
6	West Sussex County Council - Environment & Development County Hall, Tower hall, Chichester, West Sussex, PO19 1RH	Telephone: 01243 777100 Website: www.westsussex.gov.uk
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Fenced Minor Roads		Un-Fenced
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	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		Ch
	CH		F E Sta
	FB		Fn
	GP		MP
	MS		Pol Sta
	PO		PC
	PH		SB
	Spr		TCB
	TCP		W

1:10,000 Raster Mapping

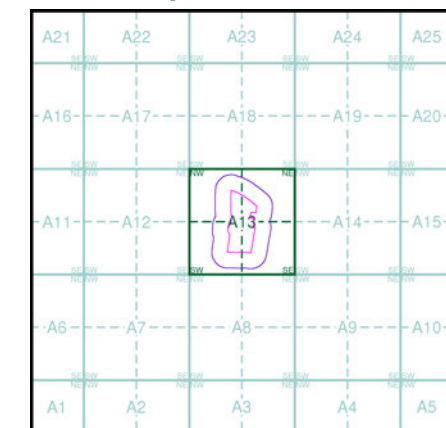
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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



Geo-Environmental Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:10,560	1879	2
Sussex	1:10,560	1899	3
Sussex	1:10,560	1912	4
Historical Aerial Photography	1:10,560	1947	5
Sussex	1:10,560	1952	6
Ordnance Survey Plan	1:10,000	1961 - 1962	7
Ordnance Survey Plan	1:10,000	1973	8
Ordnance Survey Plan	1:10,000	1980 - 1982	9
10K Raster Mapping	1:10,000	2000	10
10K Raster Mapping	1:10,000	2006	11
VectorMap Local	1:10,000	2021	12

Historical Map - Slice A



Order Details

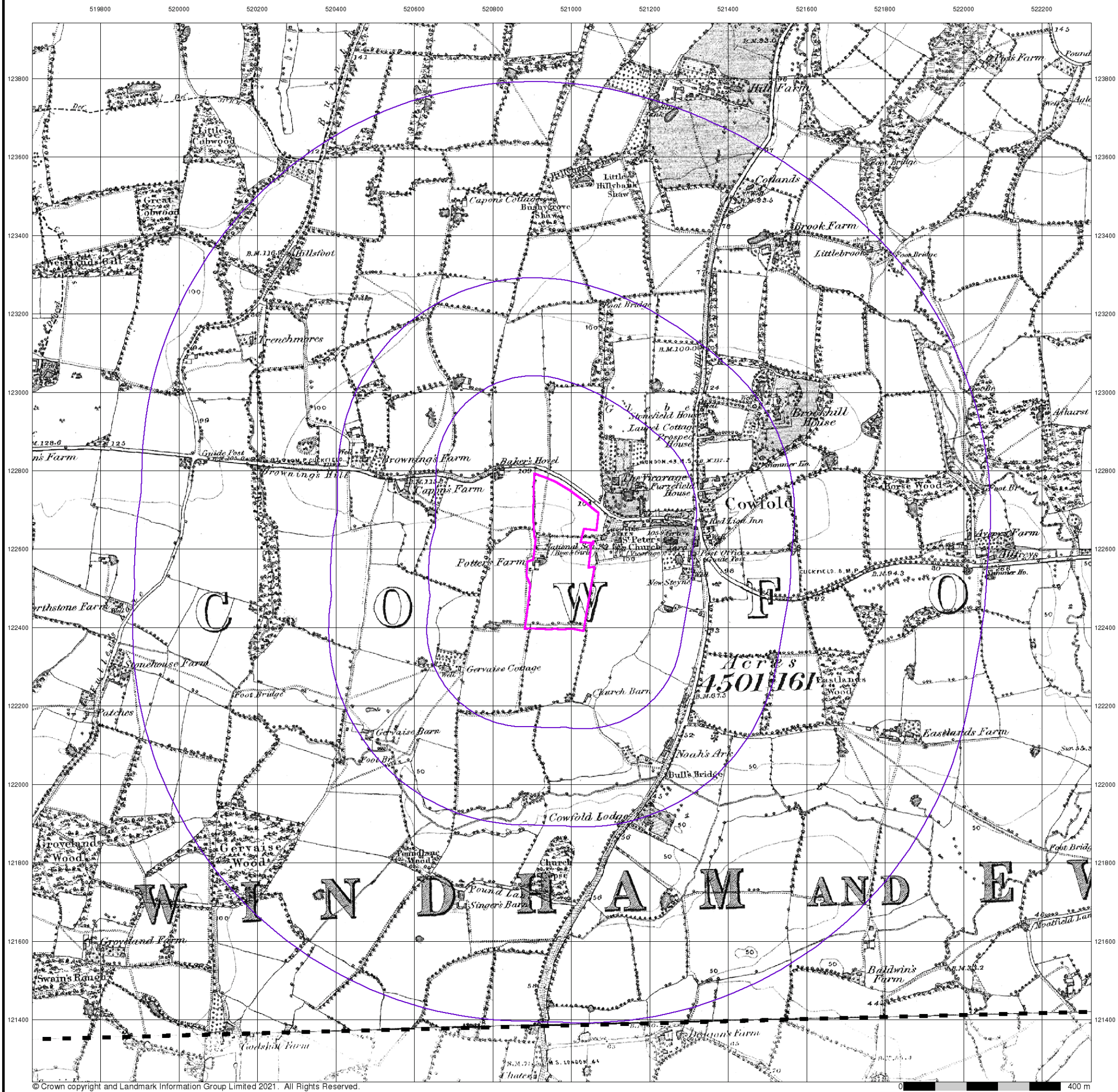
Order Number: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

Field, Station Road, Cowfold, HORSHAM, RH13 8QZ

Landmark
INFORMATION GROUP

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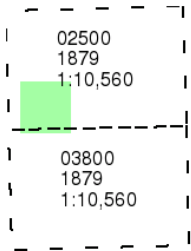
**Geo-Environmental
Sussex**

Published 1879

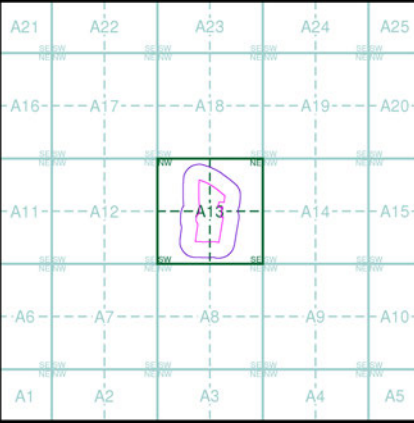
Source map scale - 1:10,560

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: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

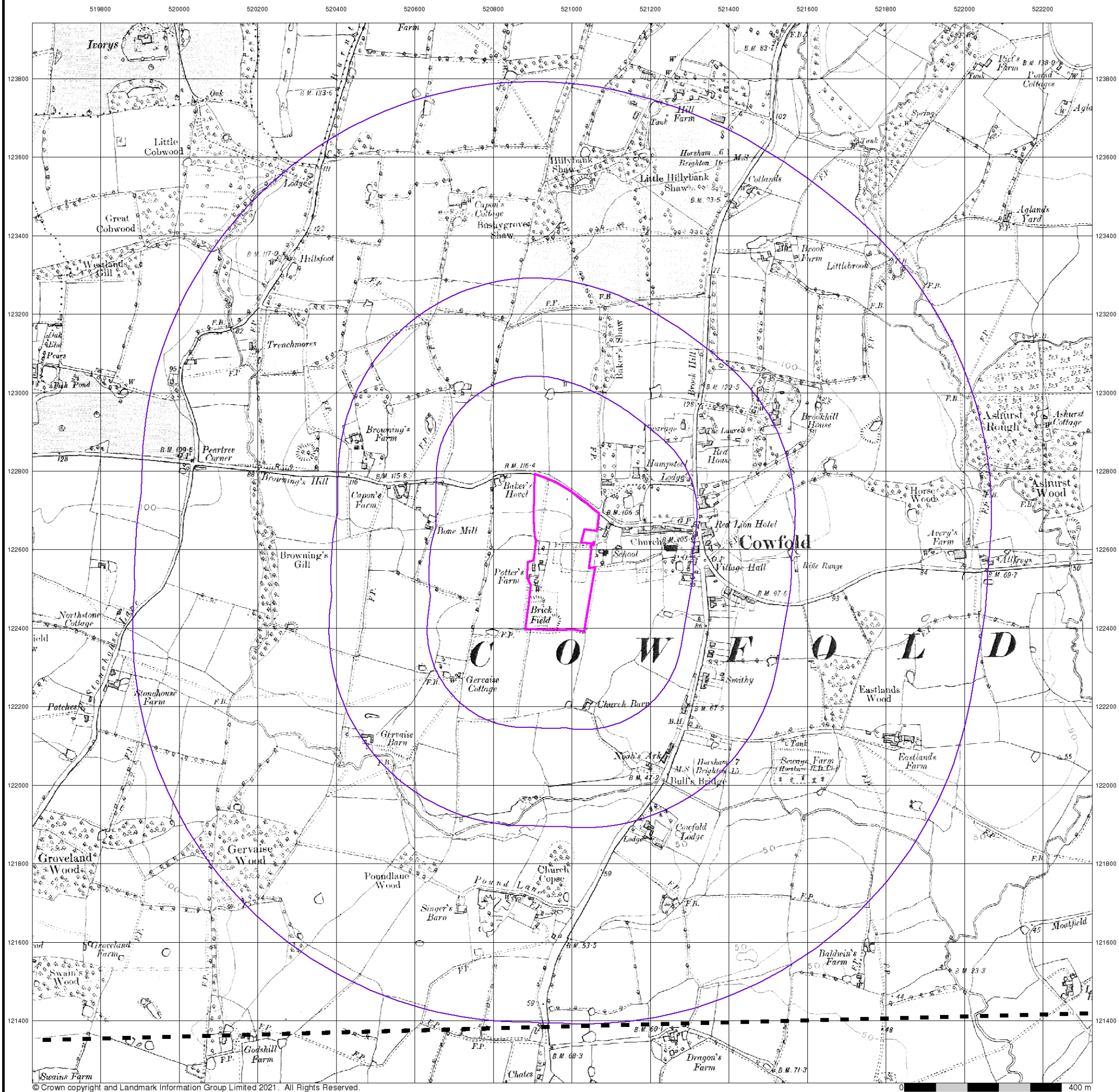
Field, Station Road, Cowfold, HORSHAM, RH13 8QZ

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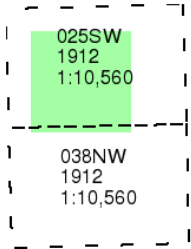
Geo-Environmental Sussex

Published 1912

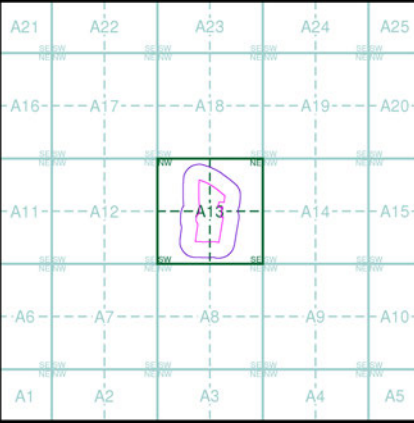
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

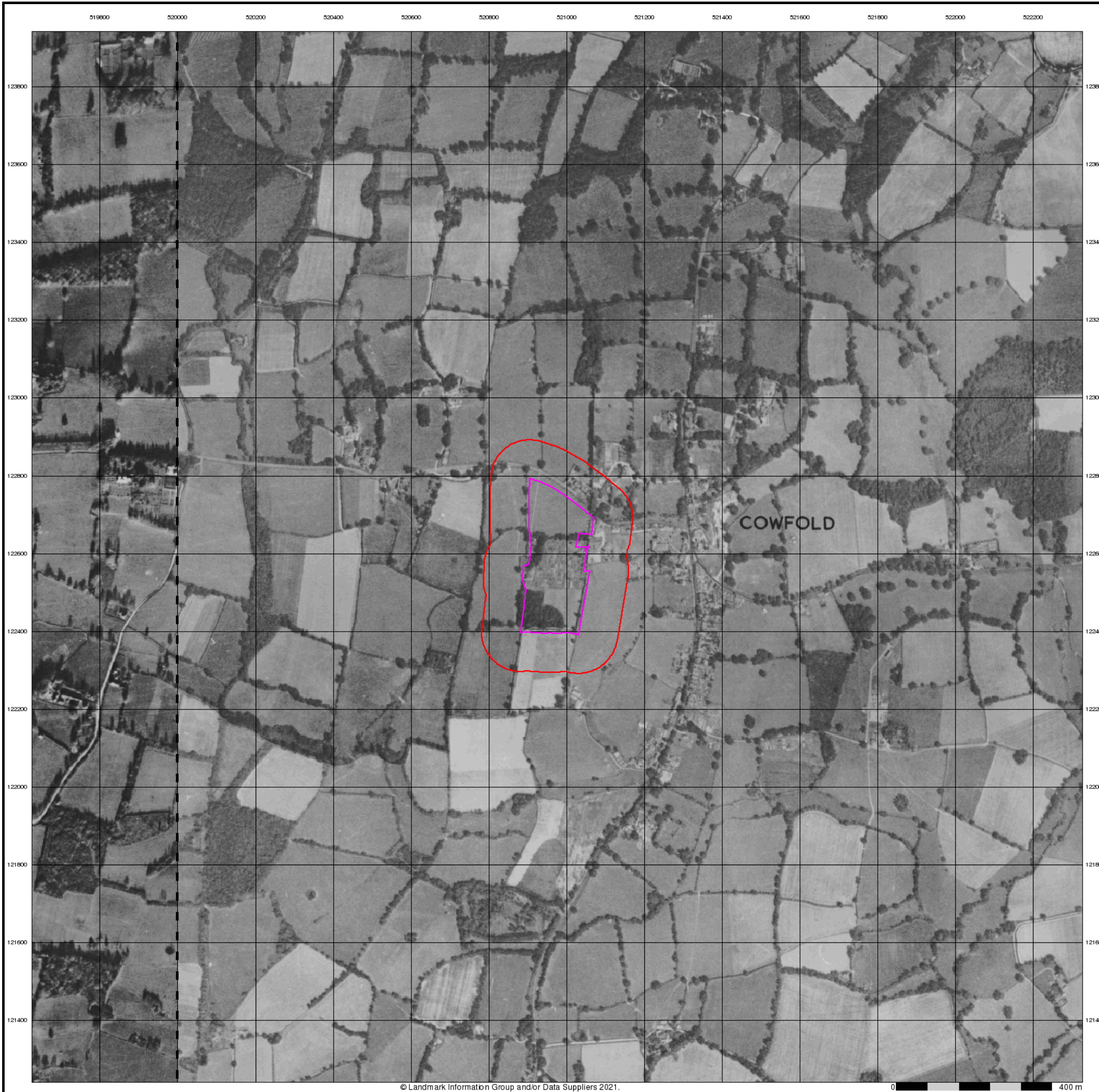
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Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

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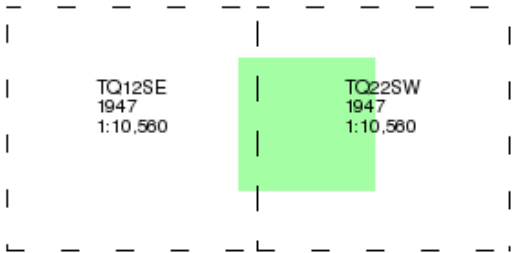


Geo-Environmental
Historical Aerial Photography
Published 1947
Source map scale - 1:10,560

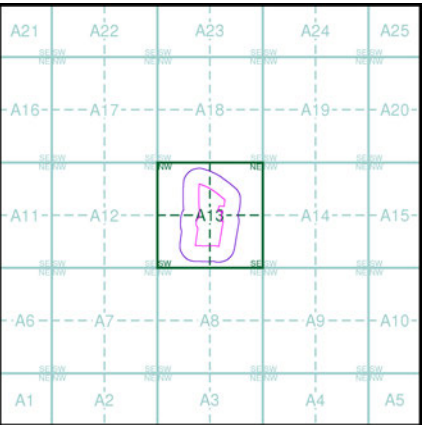
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

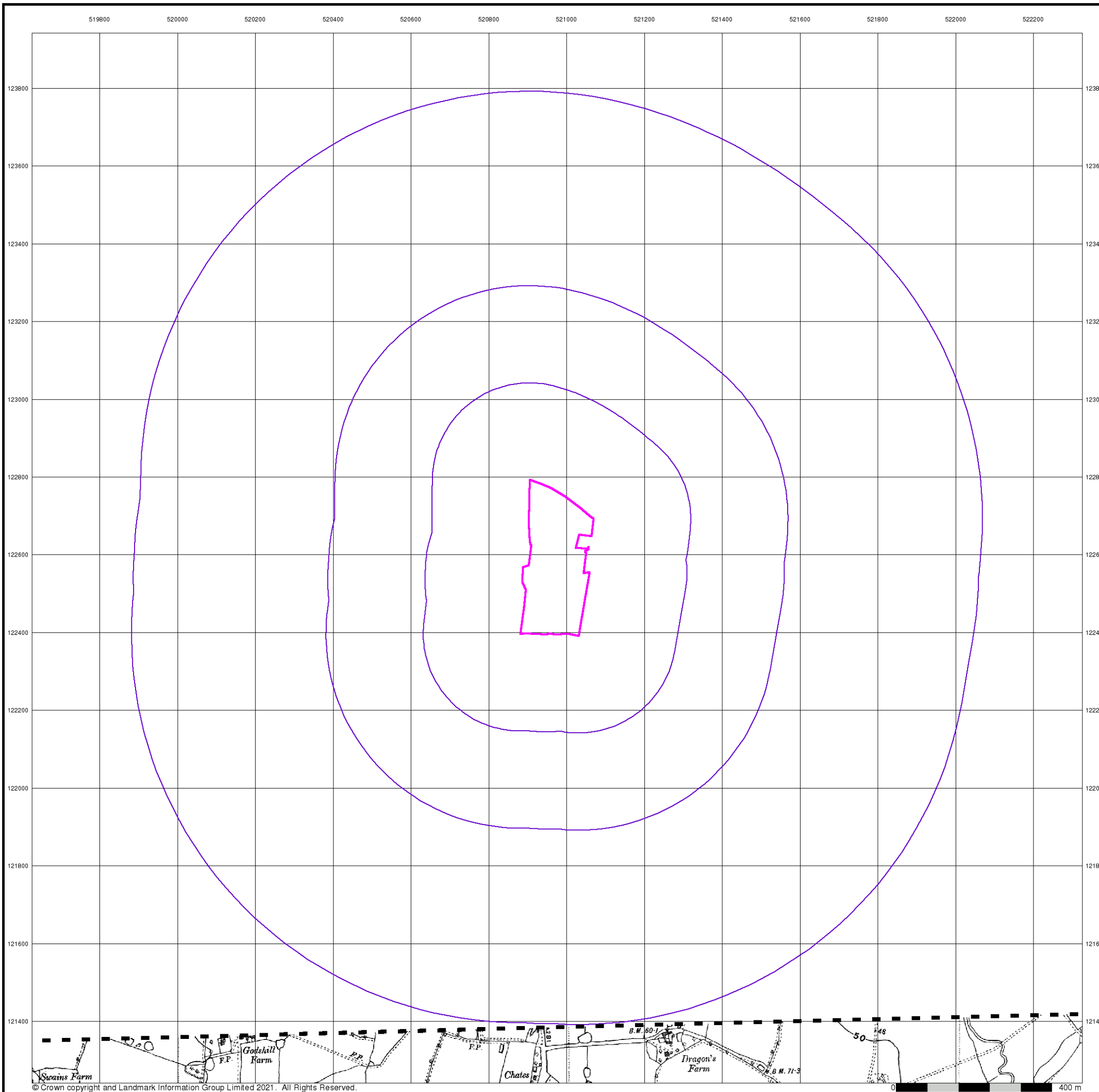
Order Number: 277681427_1_1
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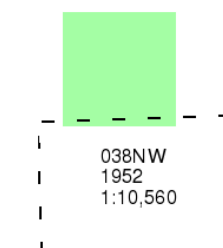
**Geo-Environmental
Sussex**

Published 1952

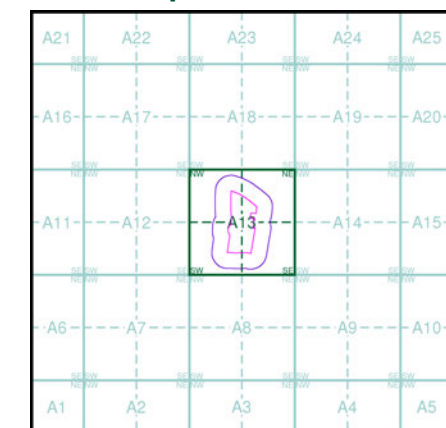
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

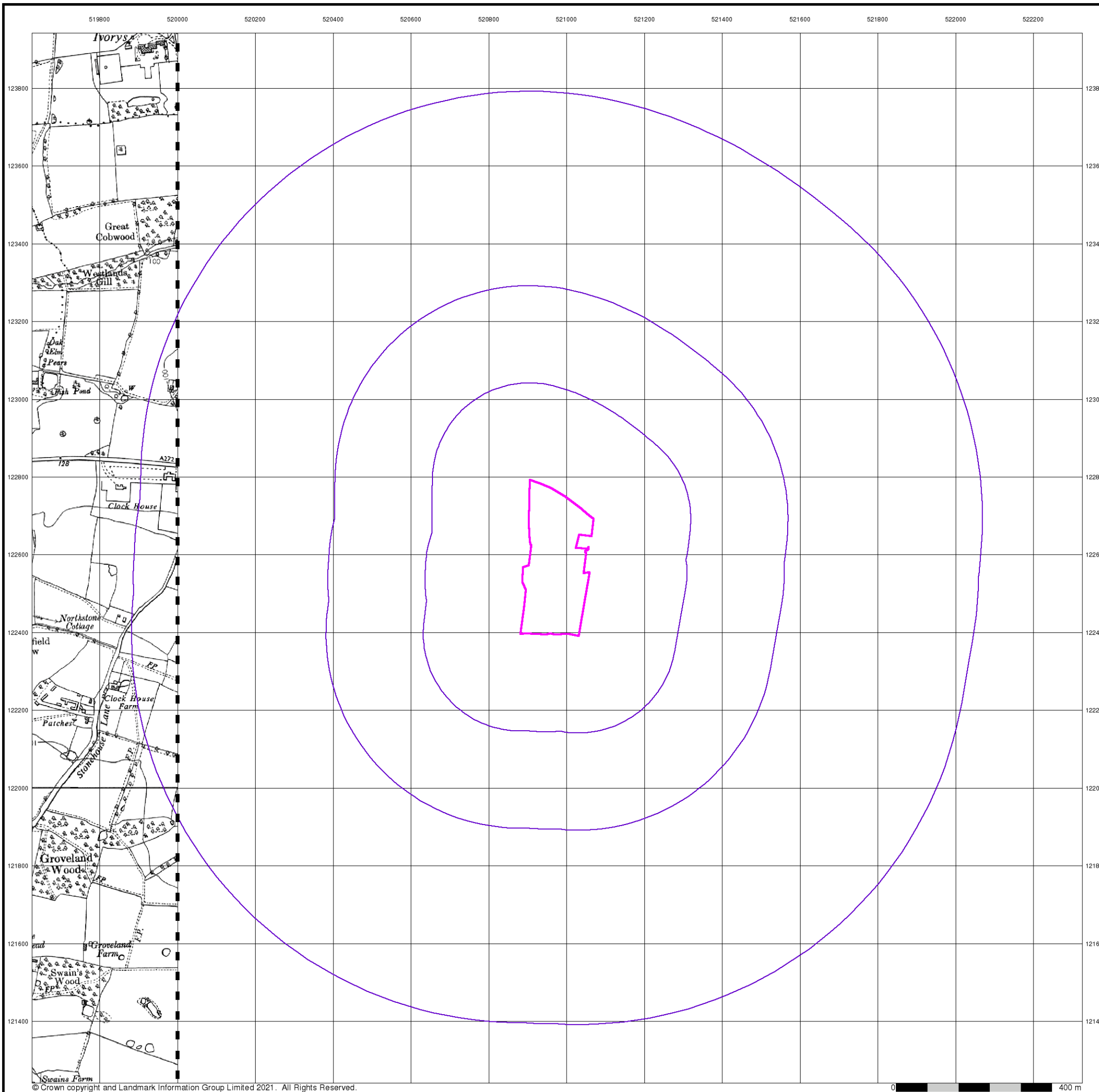
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National Grid Reference: 520960, 122580
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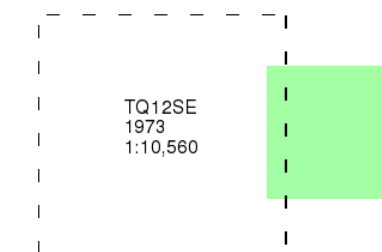
Geo-Environmental Ordnance Survey Plan

Published 1973

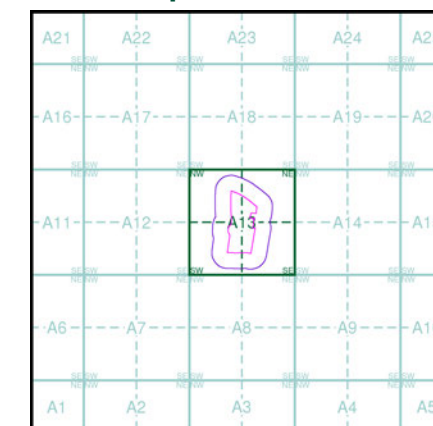
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

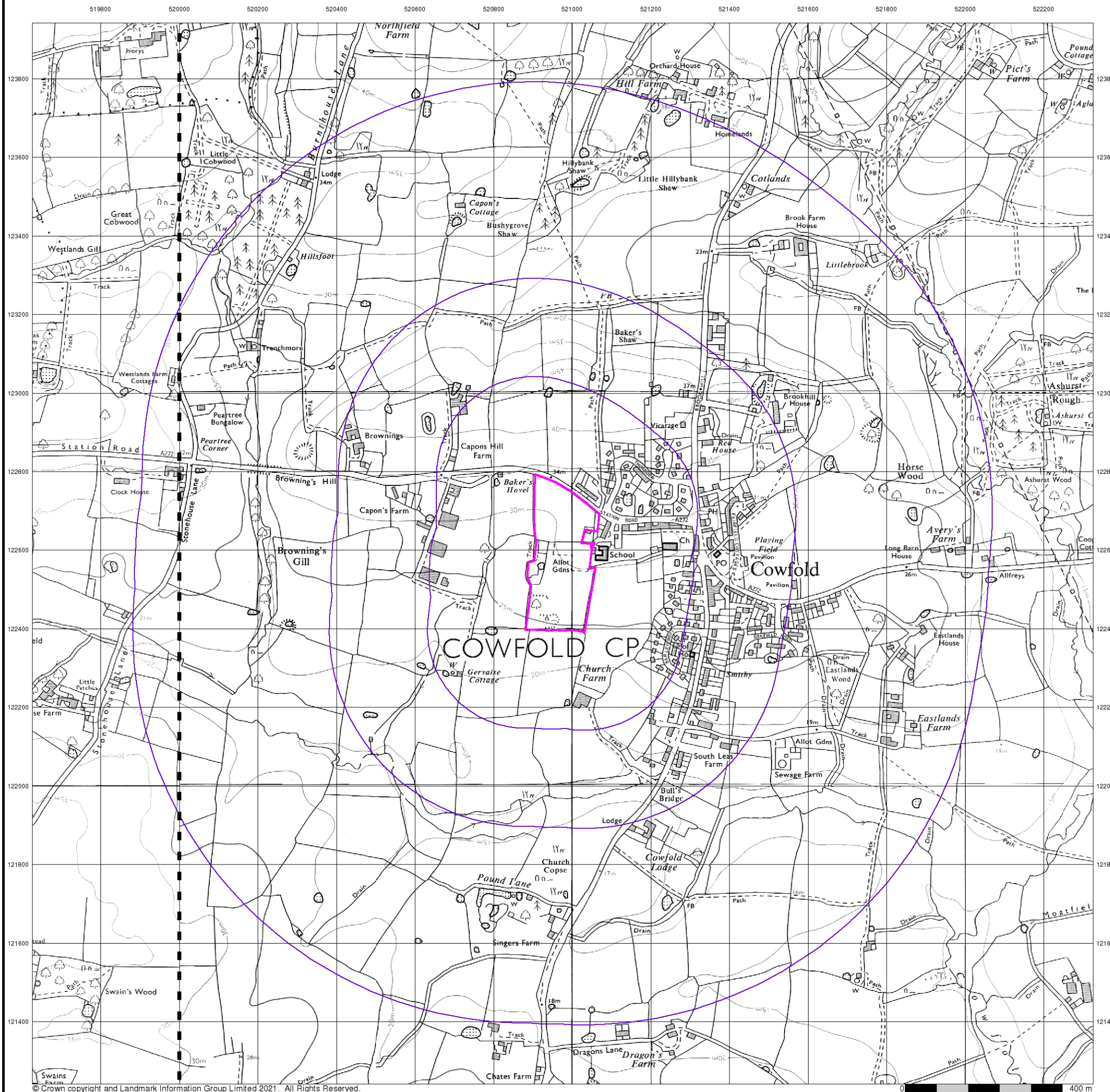
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Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
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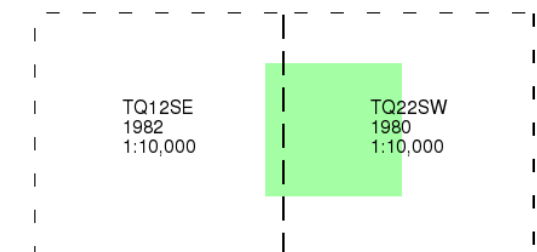
Geo-Environmental Ordnance Survey Plan

Published 1980 - 1982

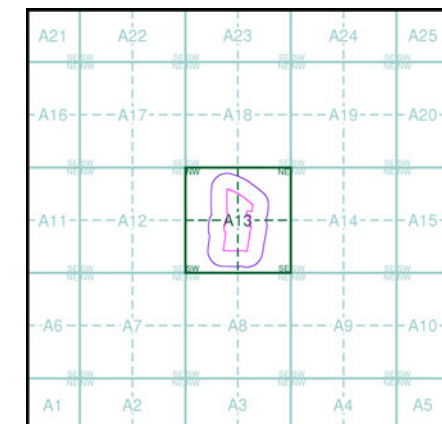
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

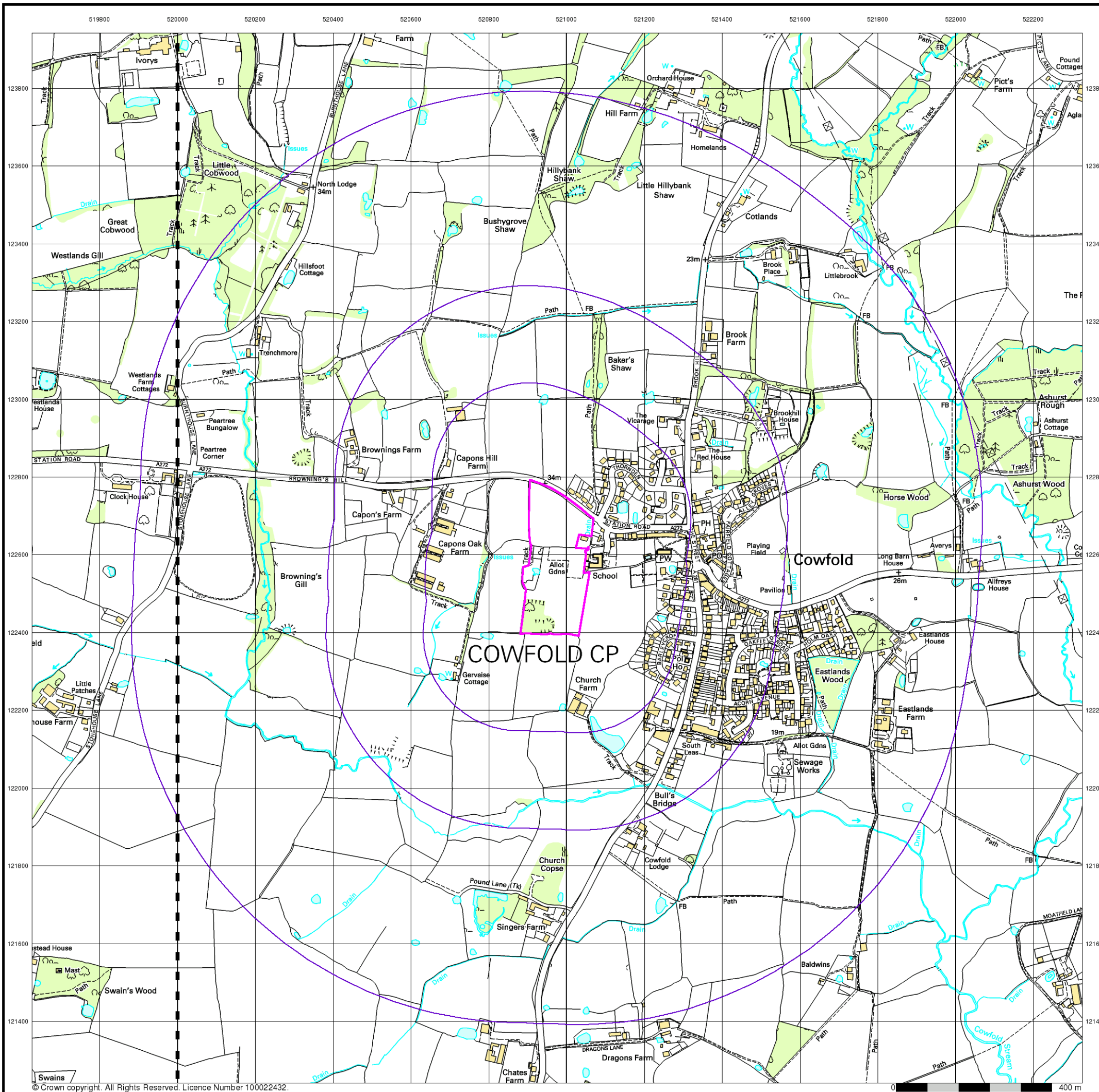
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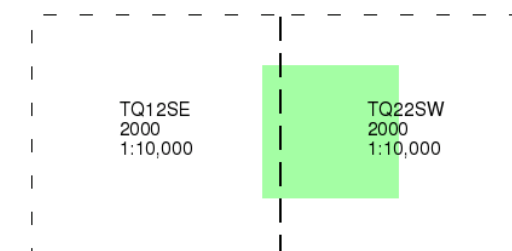
Geo-Environmental 10k Raster Mapping

Published 2000

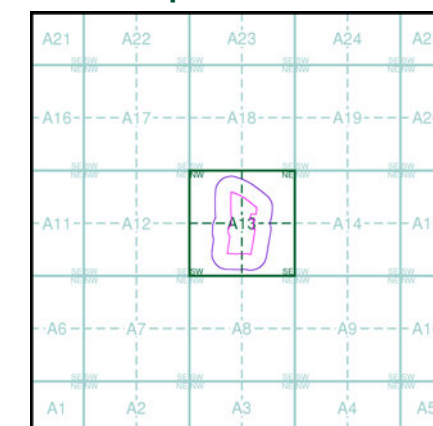
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

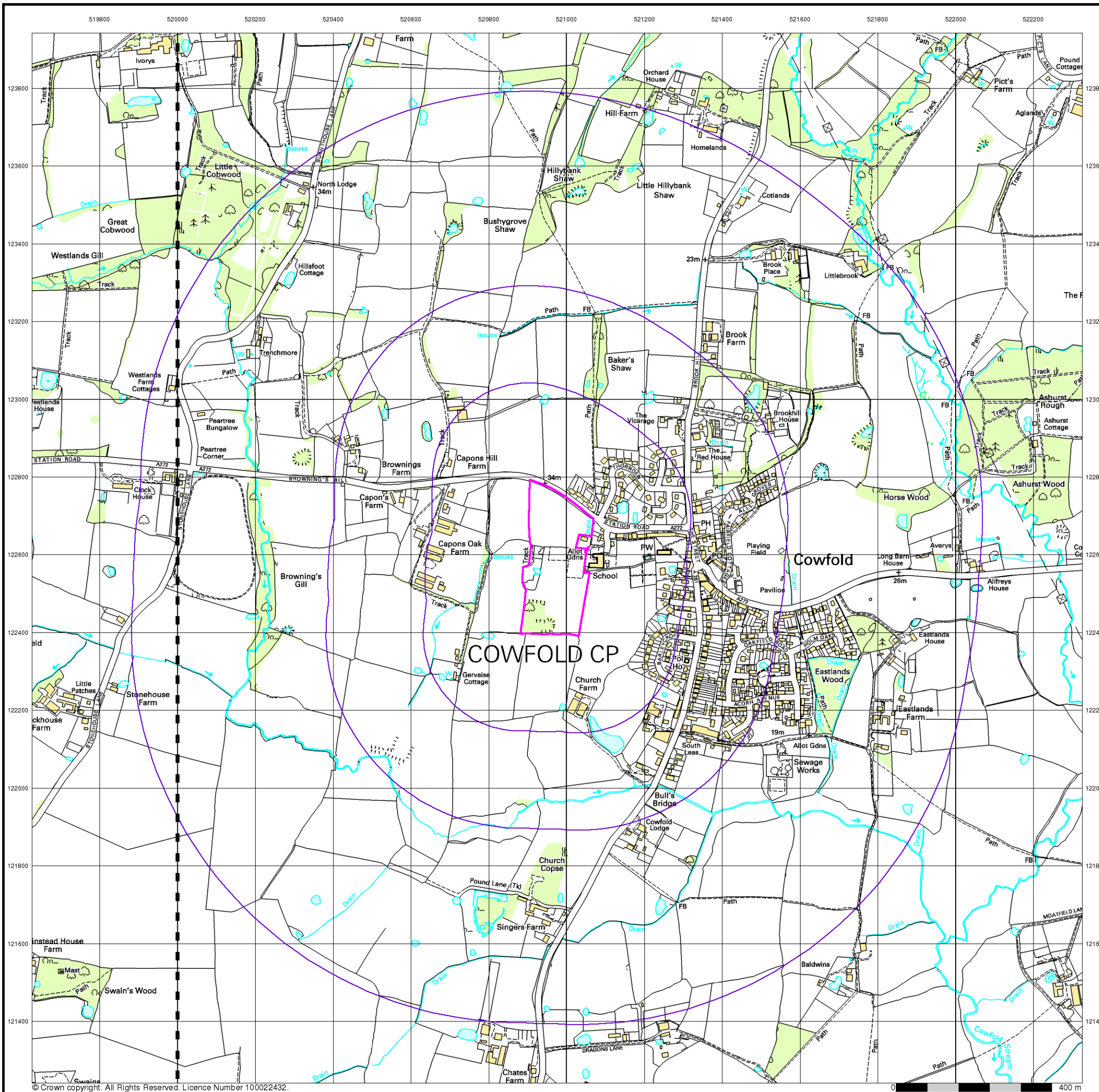
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Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

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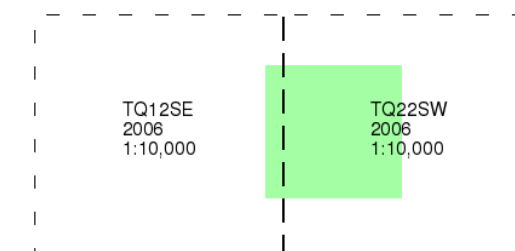
Geo-Environmental 10k Raster Mapping

Published 2006

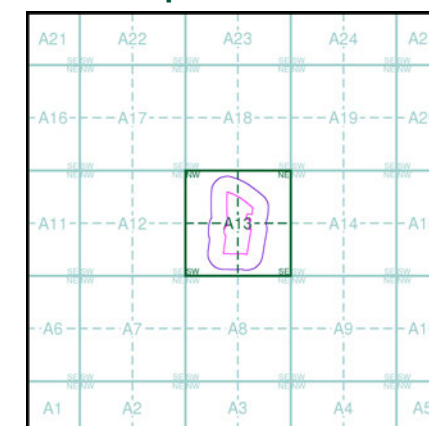
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

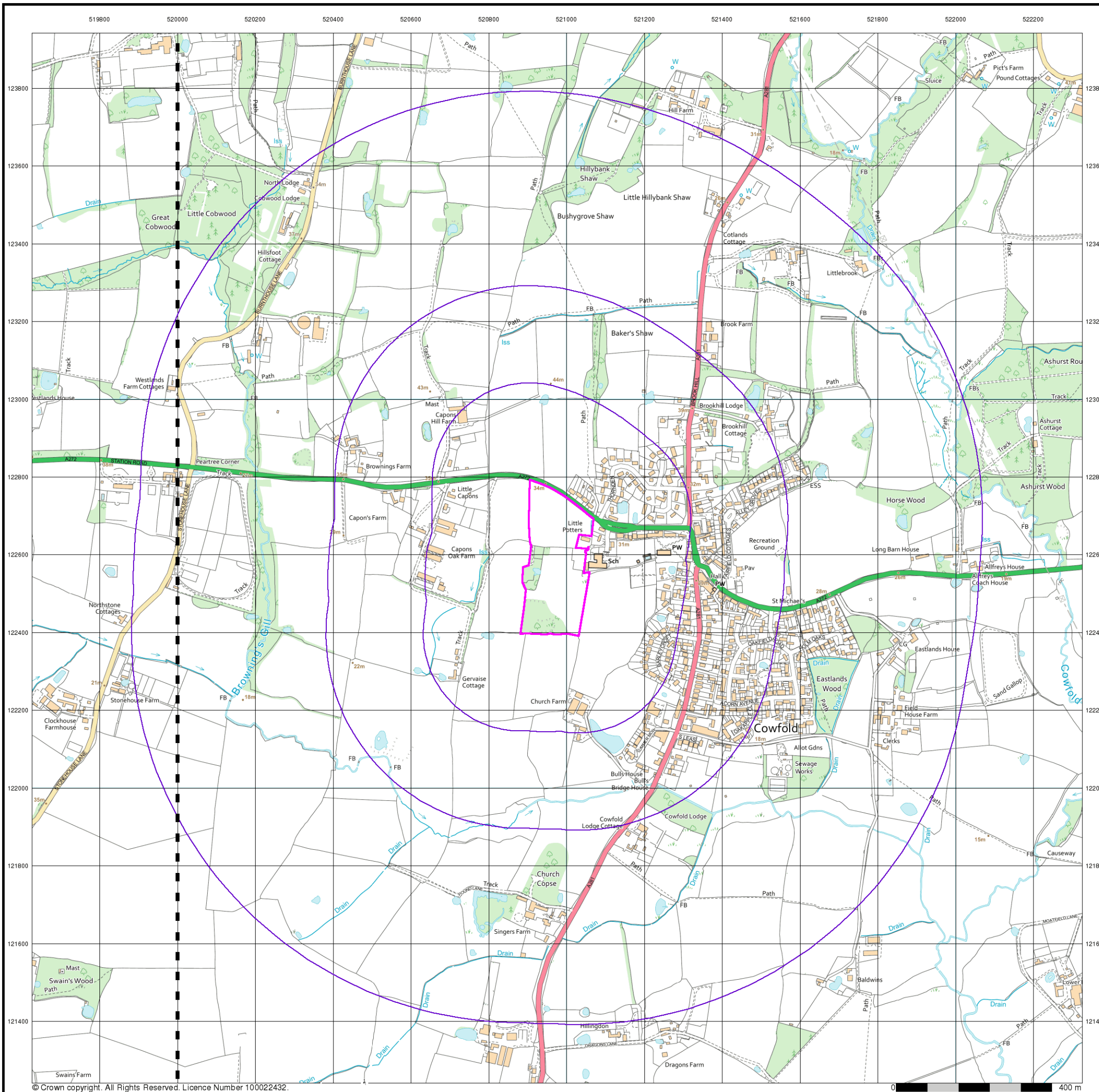
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Customer Ref: GE19071
National Grid Reference: 520960, 122580
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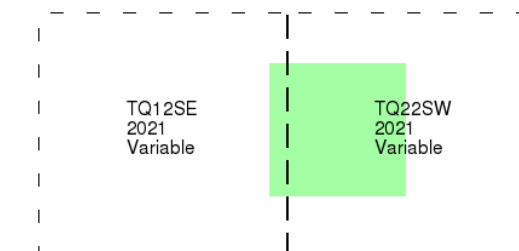
Geo-Environmental VectorMap Local

Published 2021

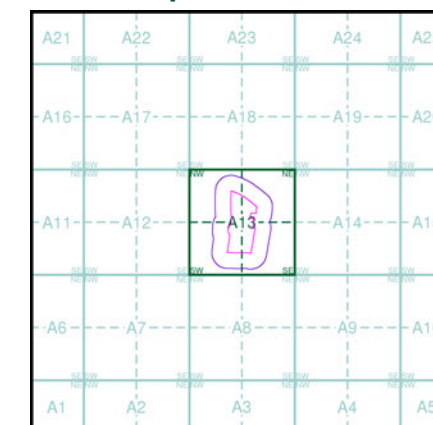
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
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Site Details

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Geo-Environmental

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

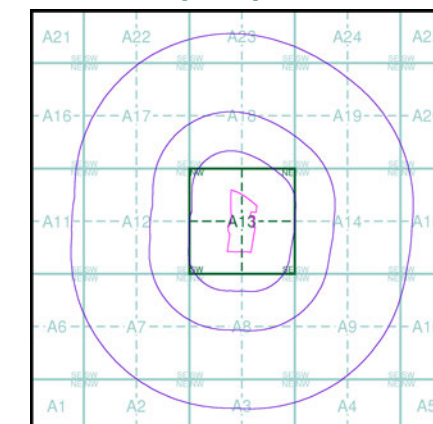
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- 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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A



Order Details

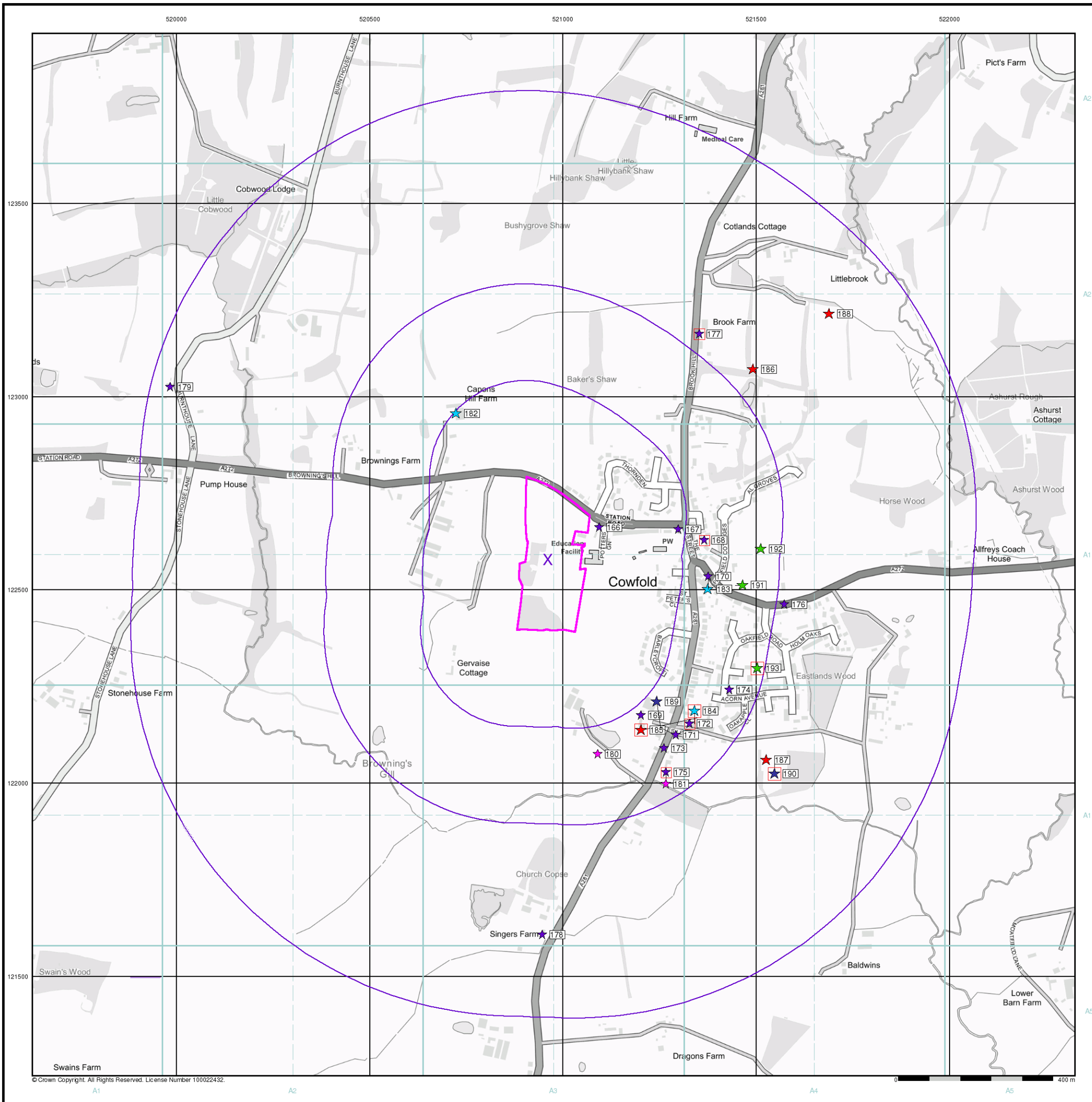
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Geo-Environmental Industrial Land Use Map

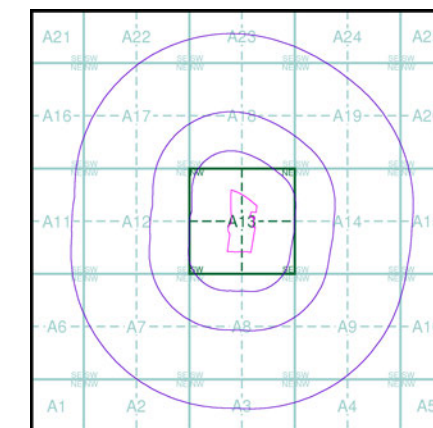
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

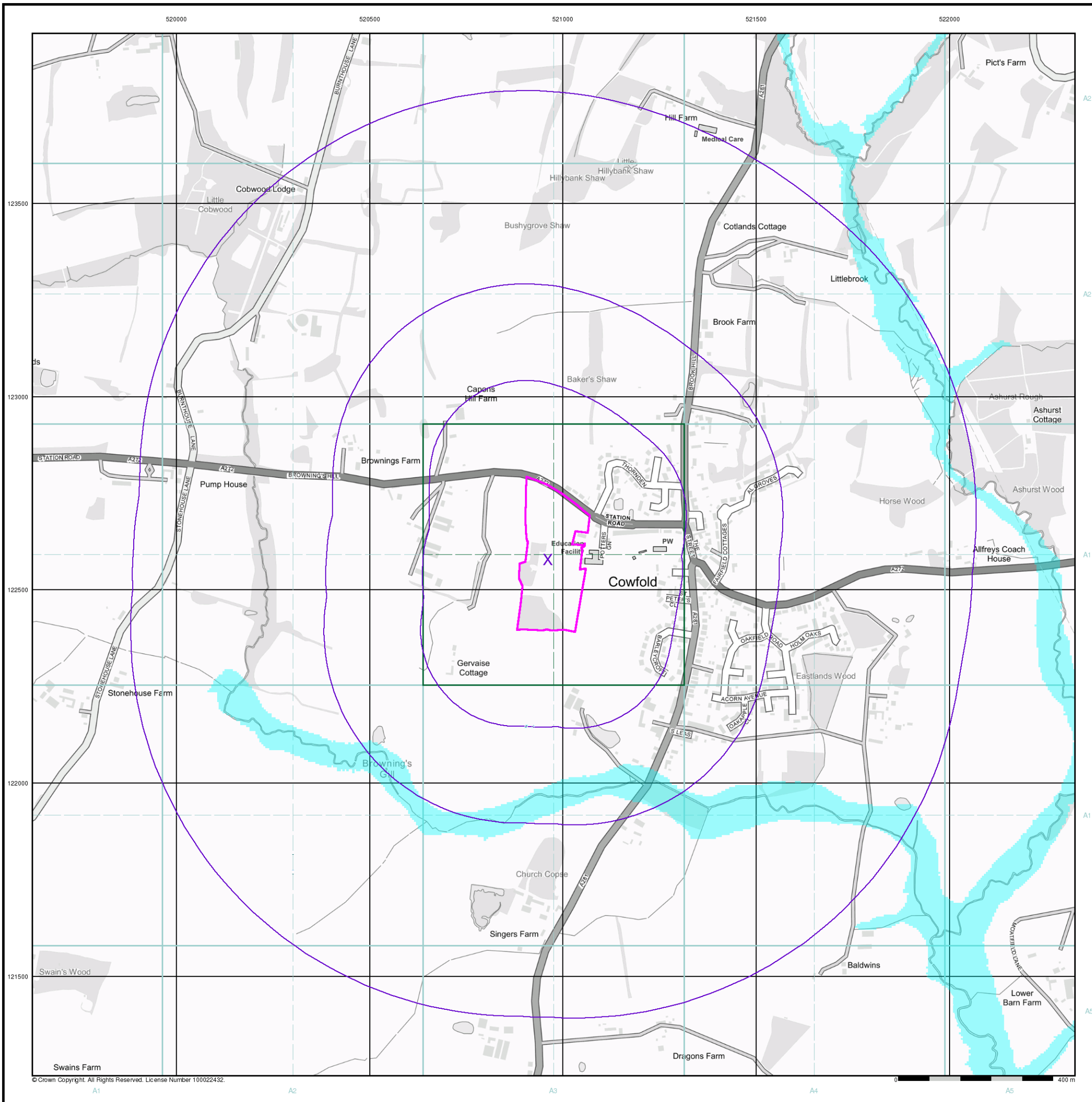
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Customer Ref: GE19071
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Slice: A
Site Area (Ha): 5.46
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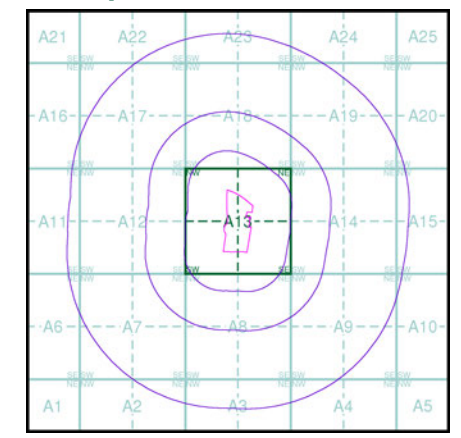
General

- 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

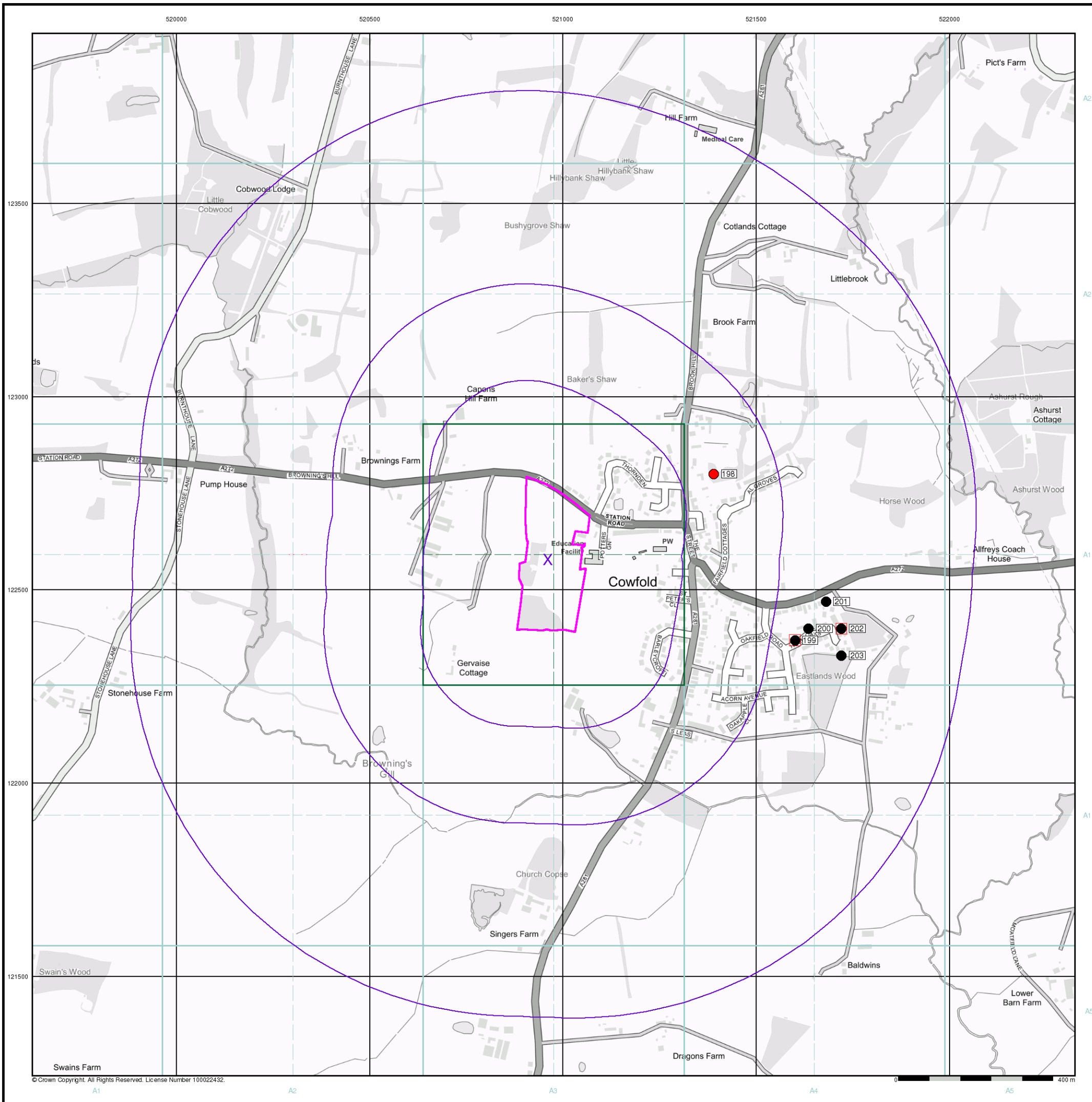


Order Details

Order Number: 277681427_1_1
 Customer Ref: GE19071
 National Grid Reference: 520960, 122580
 Slice: A
 Site Area (Ha): 5.46
 Search Buffer (m): 1000

Site Details

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Geo-Environmental

General

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

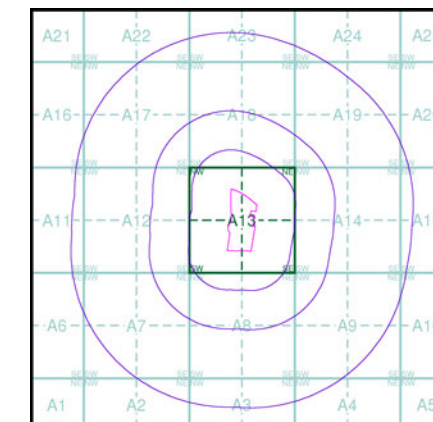
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

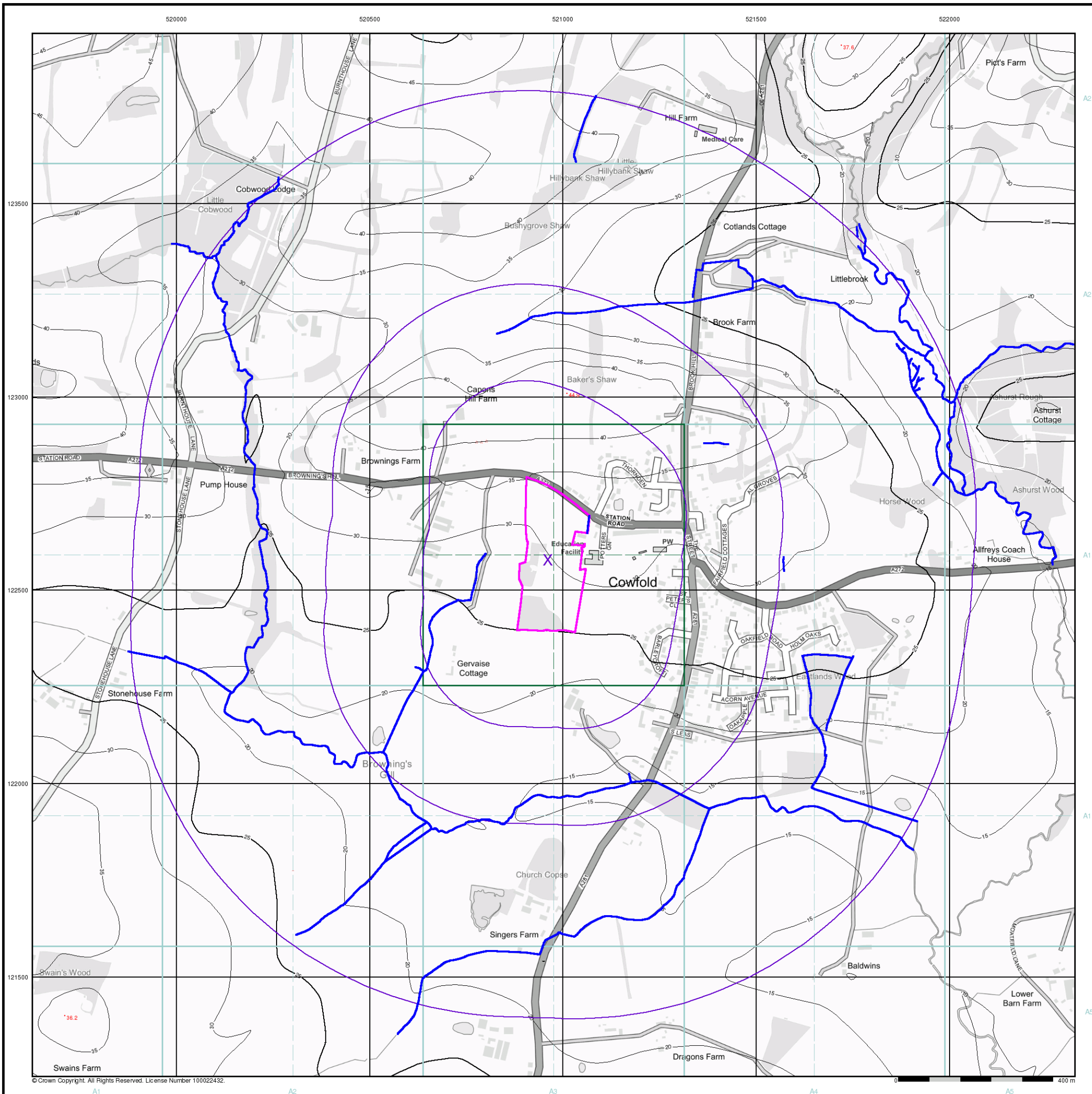
Order Number: 277681427_1_1
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National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

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Geo-Environmental

General

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

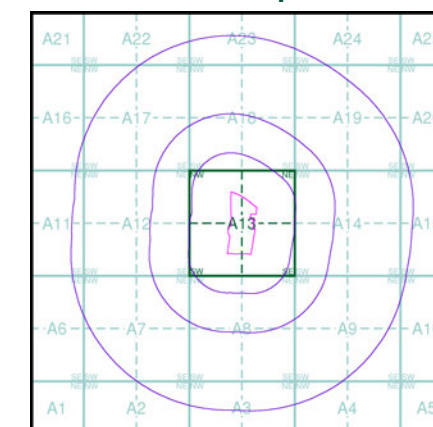
OS Water Network Data

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

Contours (height in meters)

- Standard Contour 105 100 95 MLW Mean Low Water
- Master Contour 105 100 95 MHW Mean High Water
- Spot Height 167.3

OS Water Network Map - Slice A



Order Details

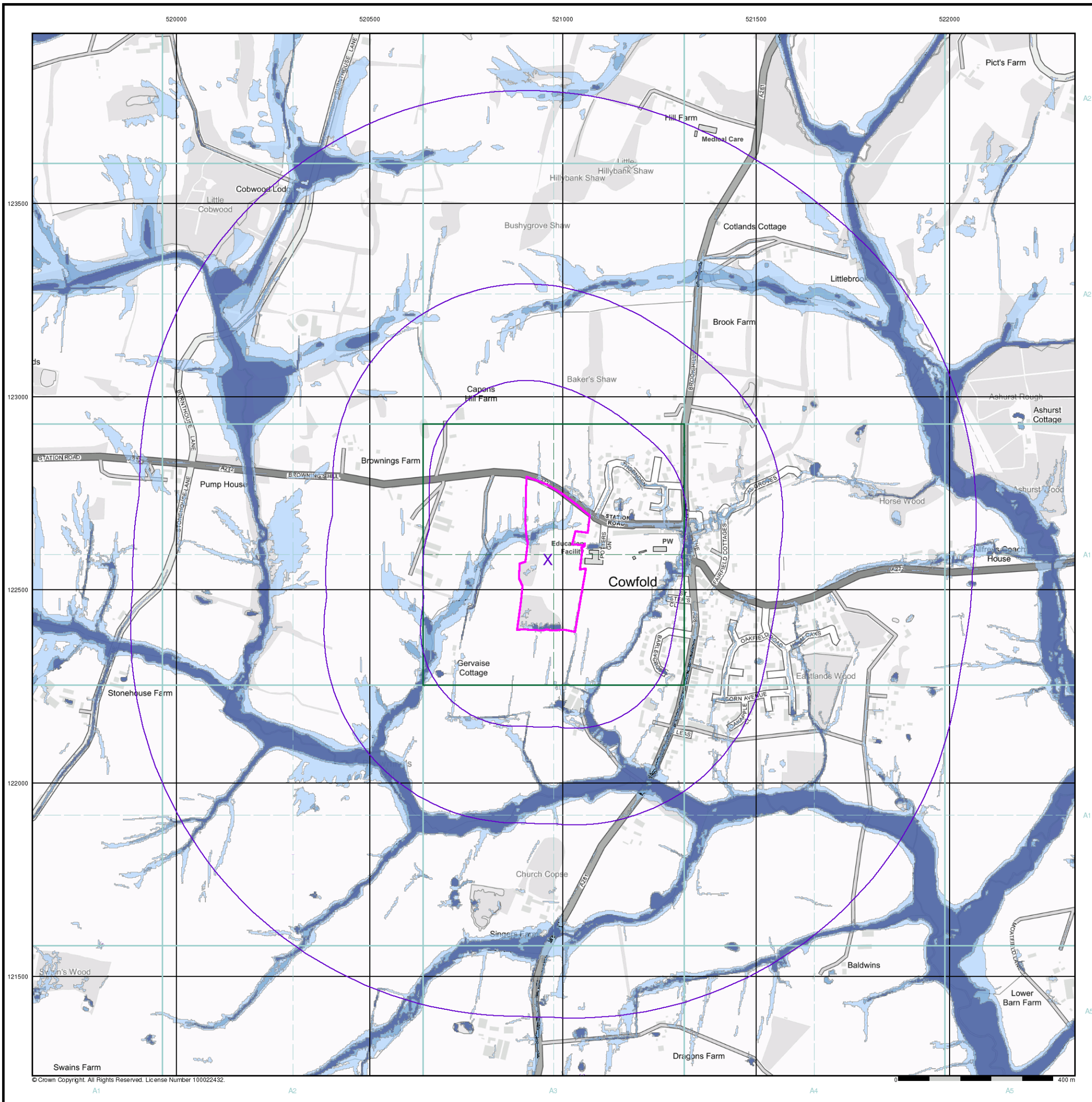
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National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

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Geo-Environmental

General

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

Risk of Flooding from Surface Water

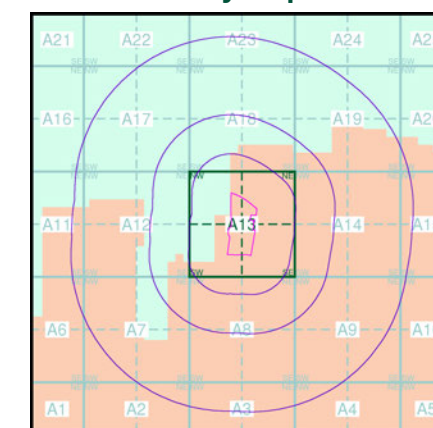
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EAN/RW Suitability Map - Slice A



Order Details

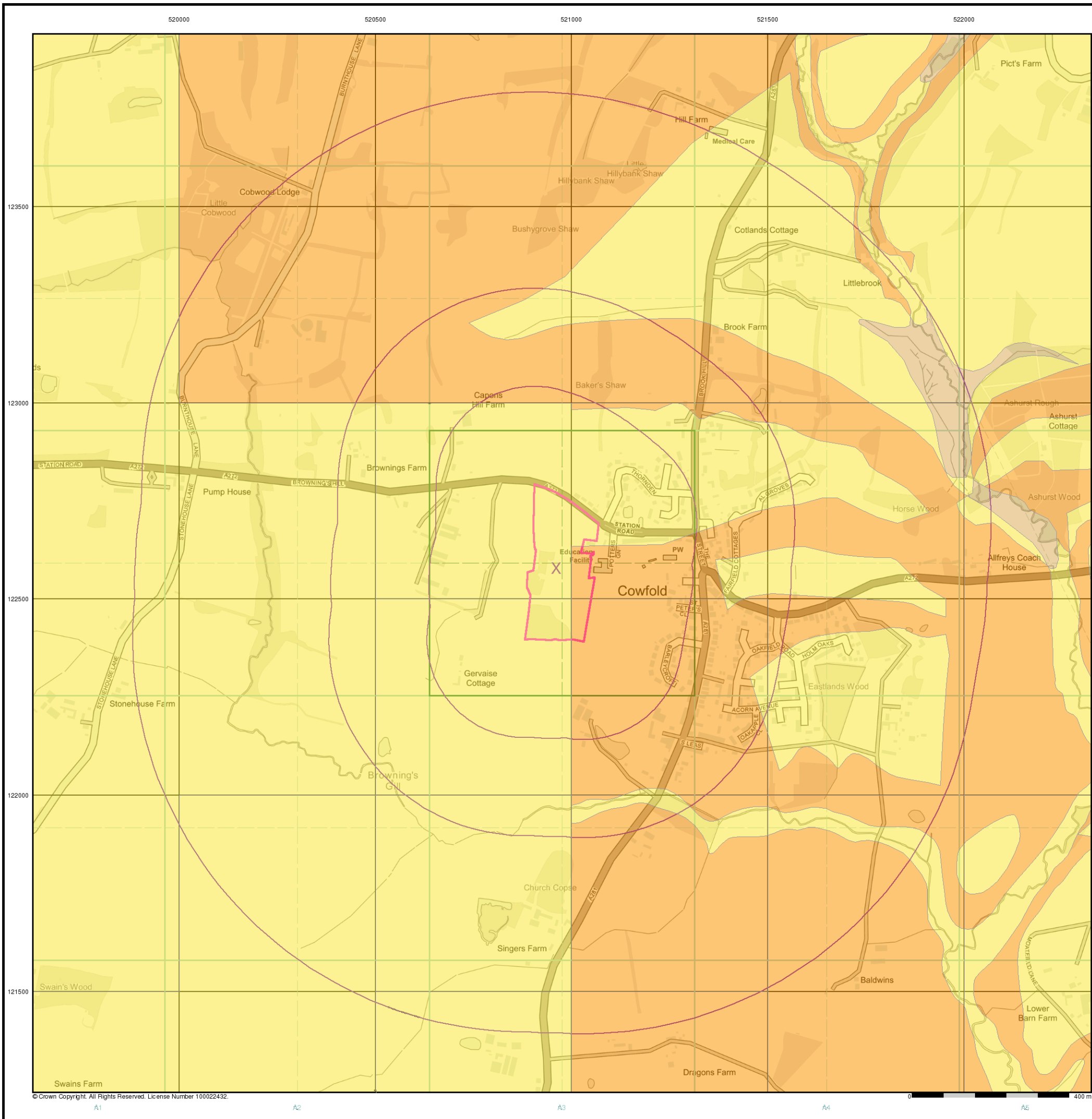
Order Number: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

Field, Station Road, Cowfold, HORSHAM, RH13 8QZ

Landmark
INFORMATION GROUP

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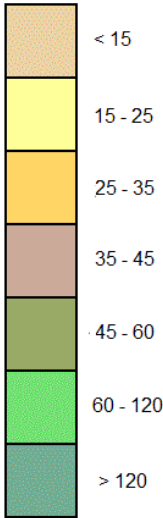


General

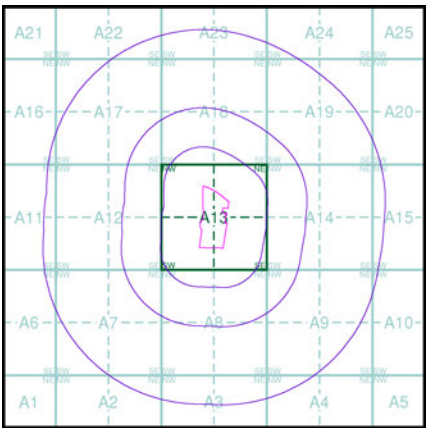
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

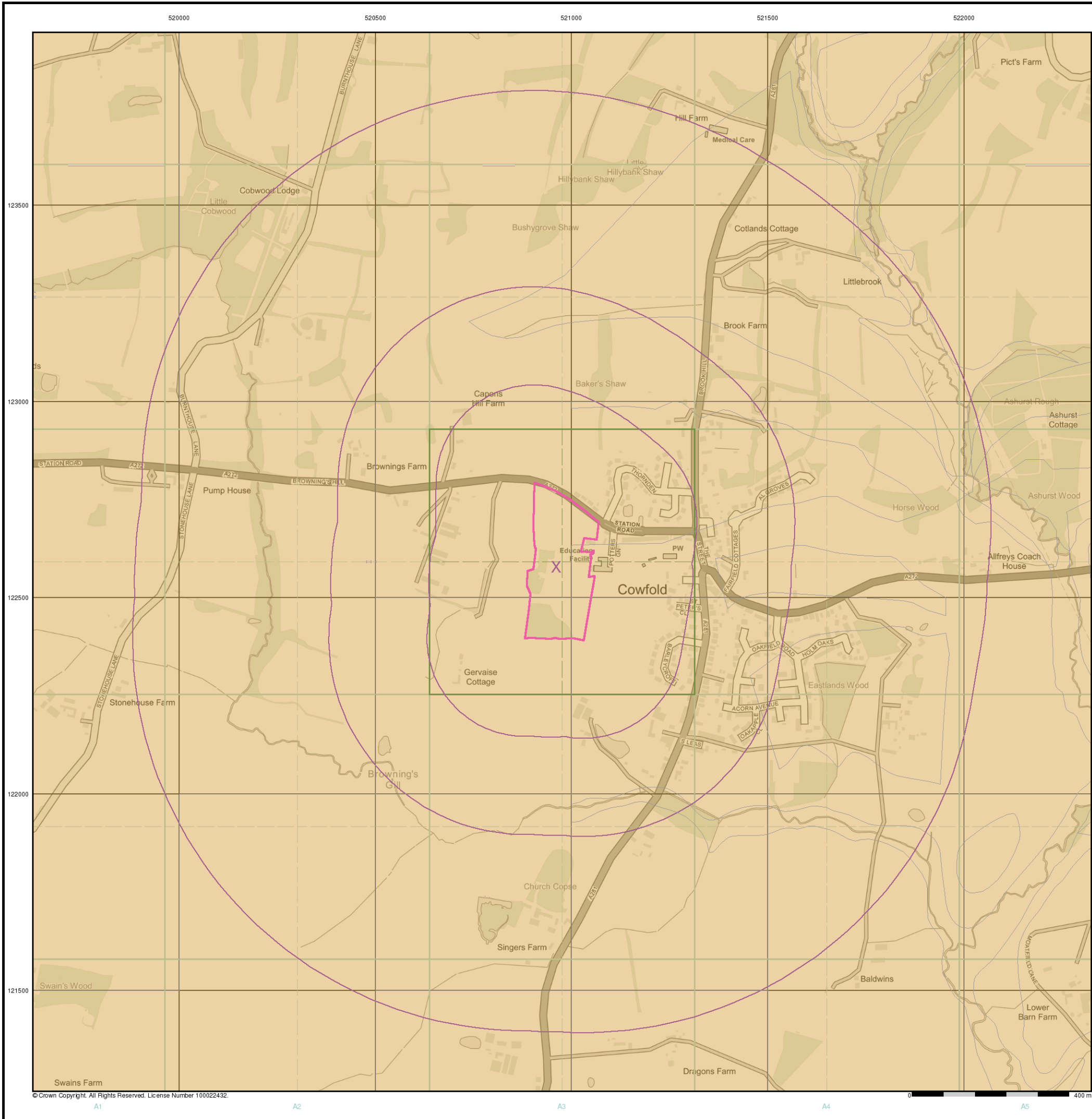


Order Details

Order Details: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

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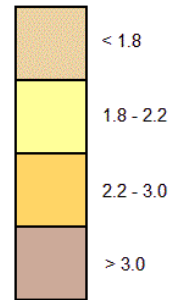


General

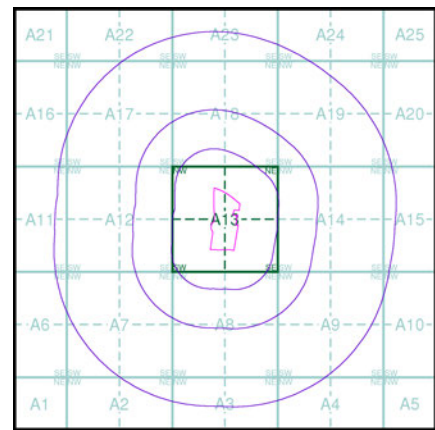
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

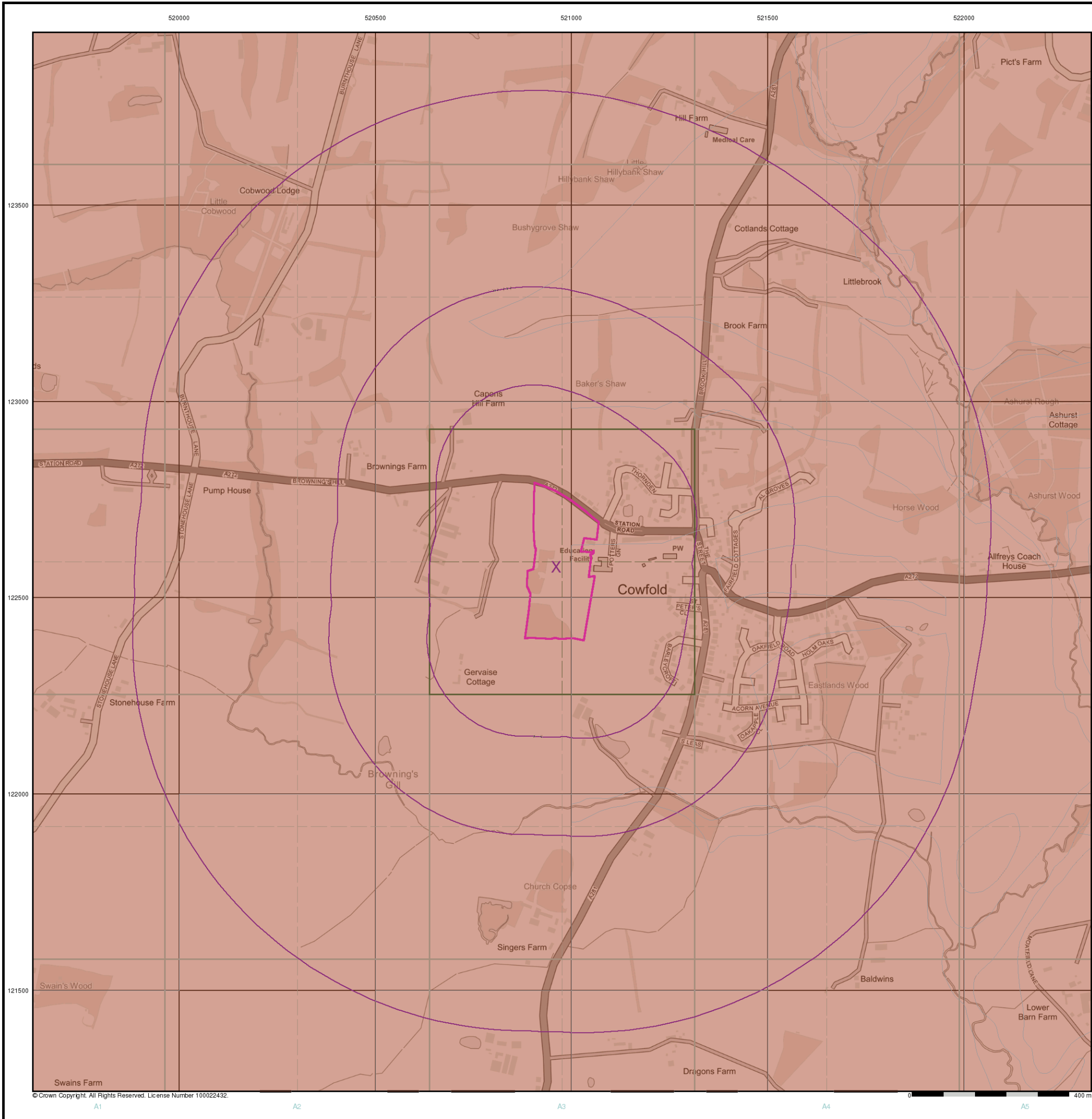


Order Details

Order Details: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

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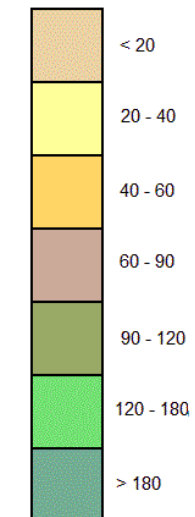
Geo-Environmental

General

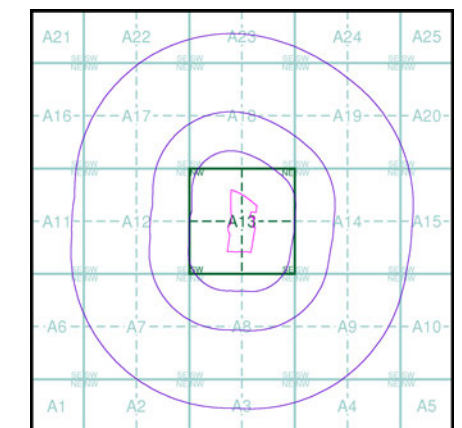
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

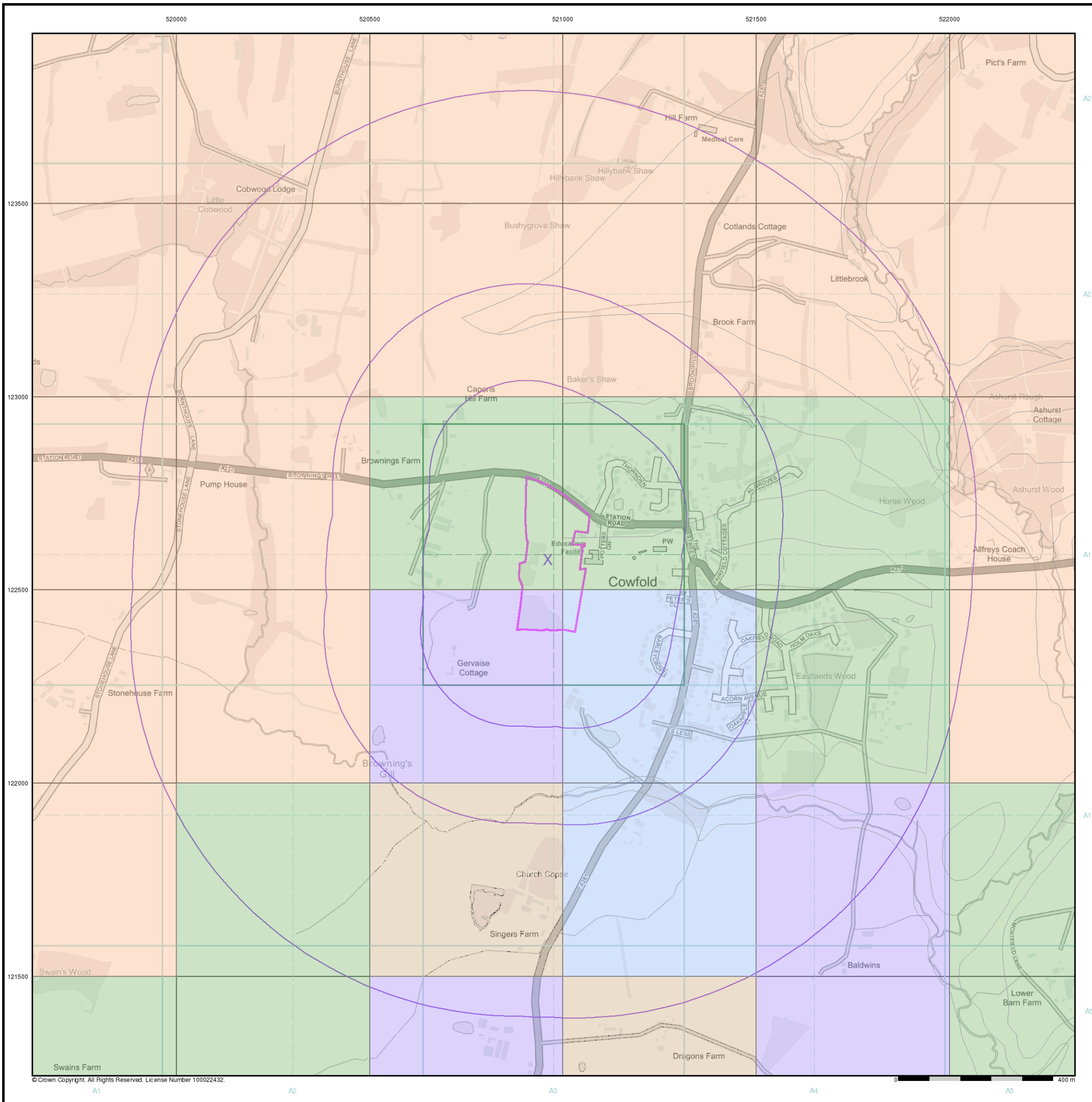
Order Details: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

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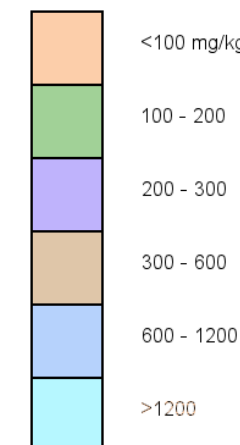
Geo-Environmental

General

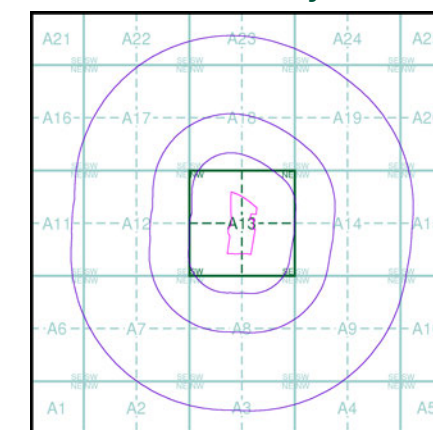
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

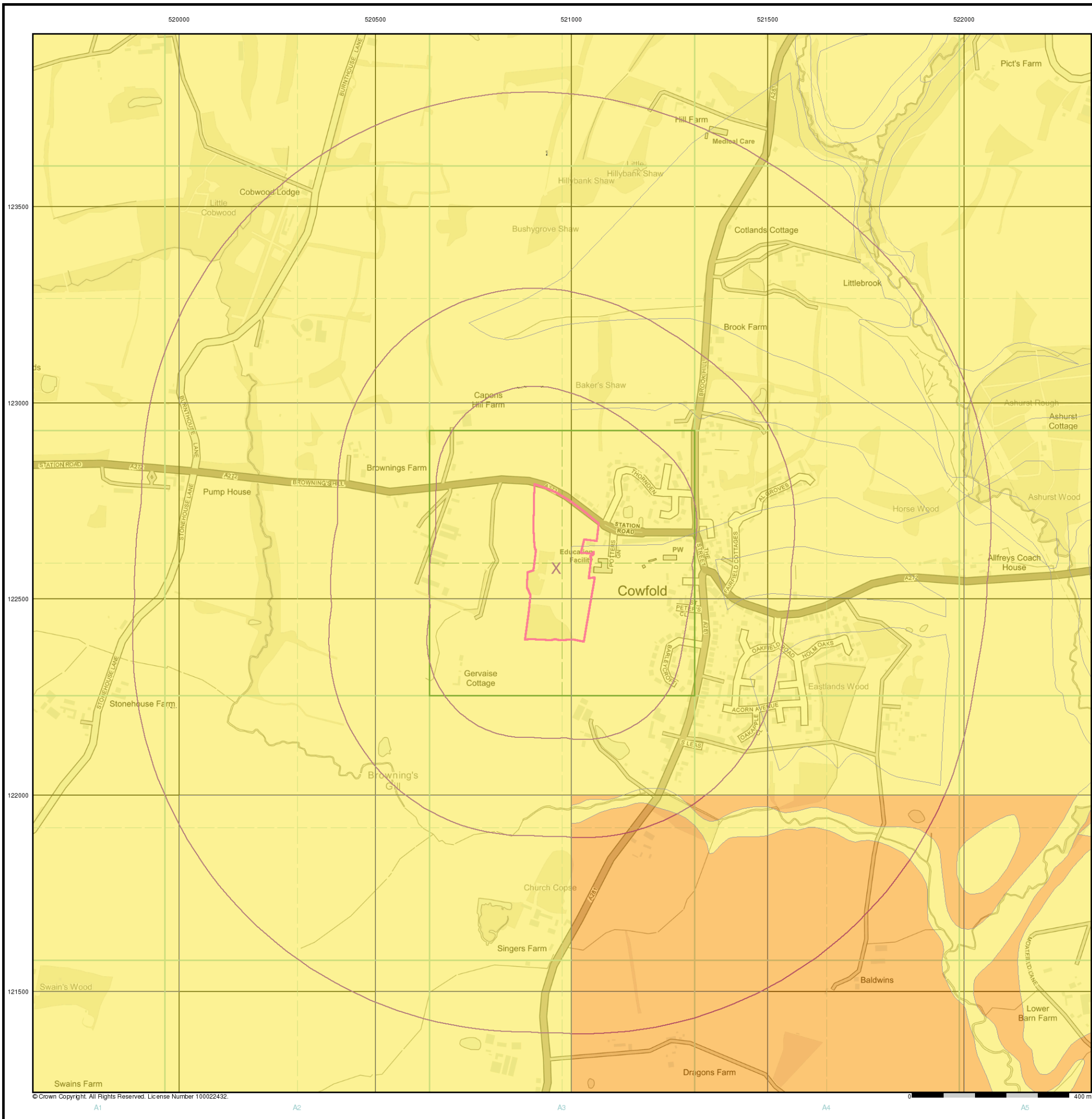
Order Details: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

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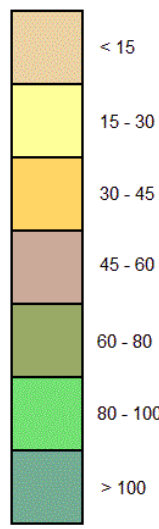
Geo-Environmental

General

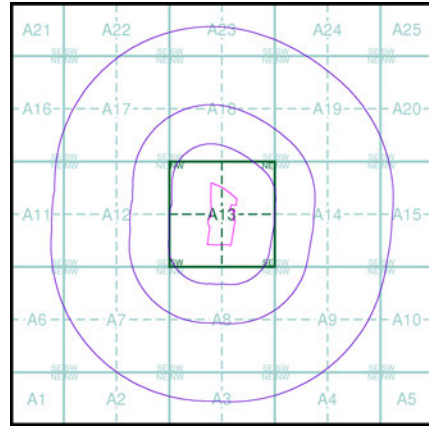
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details

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Historical Mapping Legends

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



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



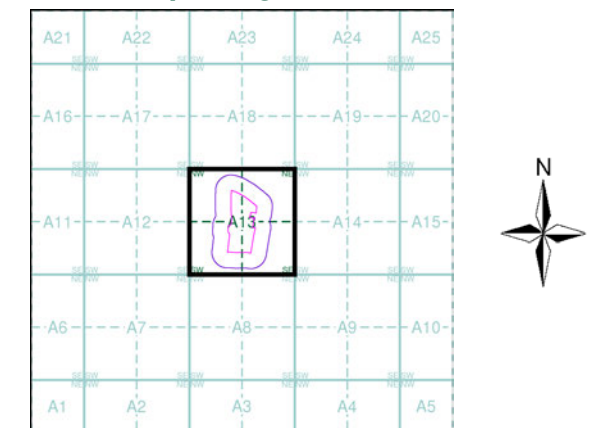
Large-Scale National Grid Data 1:2,500 and 1:1,250



Geo-Environmental Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:2,500	1875	2
Sussex	1:2,500	1897	3
Sussex	1:2,500	1911	4
Ordnance Survey Plan	1:2,500	1957	5
Ordnance Survey Plan	1:2,500	1972	6
Additional SIMs	1:2,500	1983	7
Large-Scale National Grid Data	1:2,500	1993	8
Additional SIMs	1:2,500	1993	9
Historical Aerial Photography	1:2,500	1999	10

Historical Map - Segment A13



Order Details

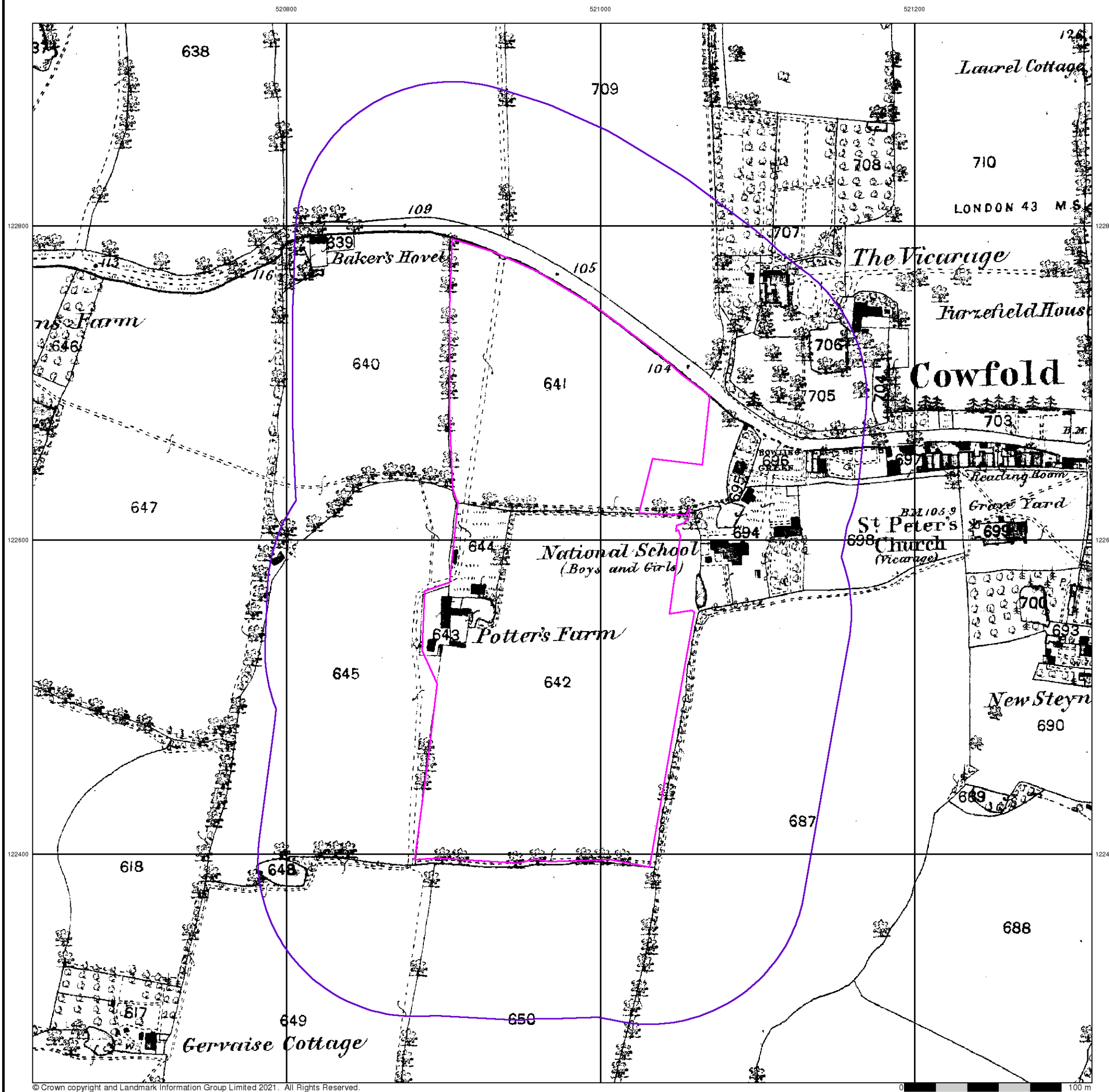
Order Number: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 100

Site Details

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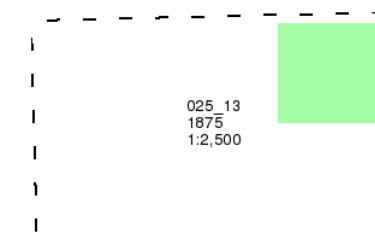
Geo-Environmental Sussex

Published 1875

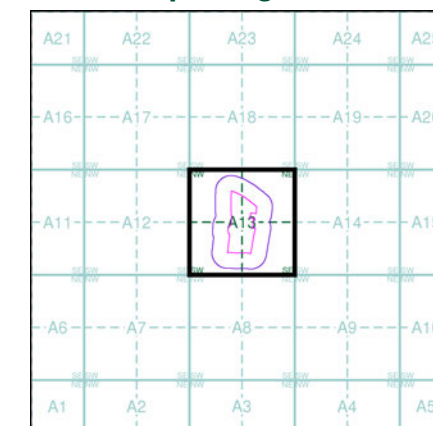
Source map scale - 1:2,500

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

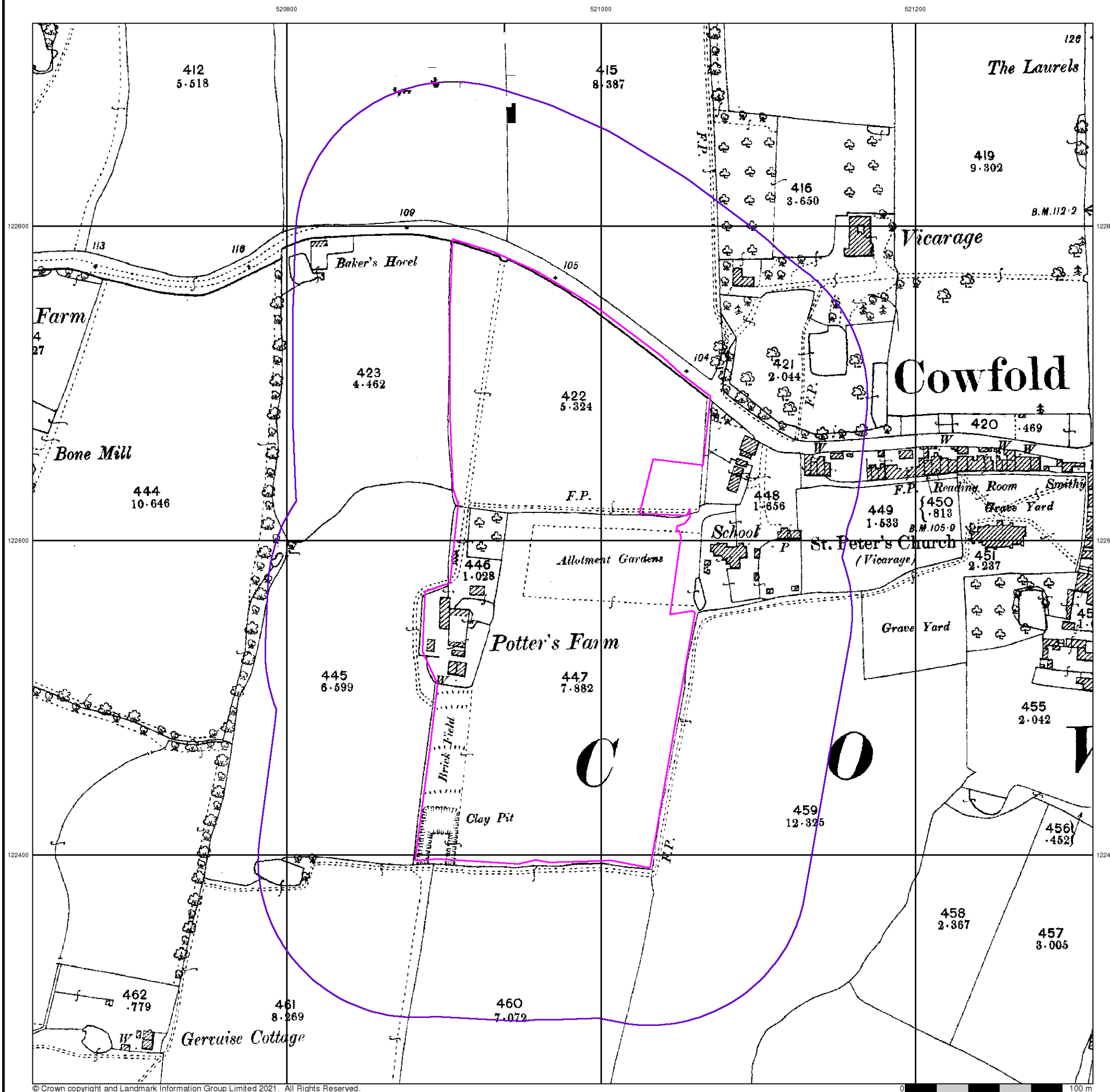
Order Number: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 100

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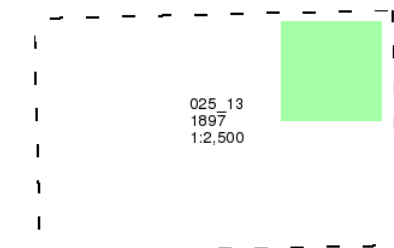
Geo-Environmental
Sussex

Published 1897

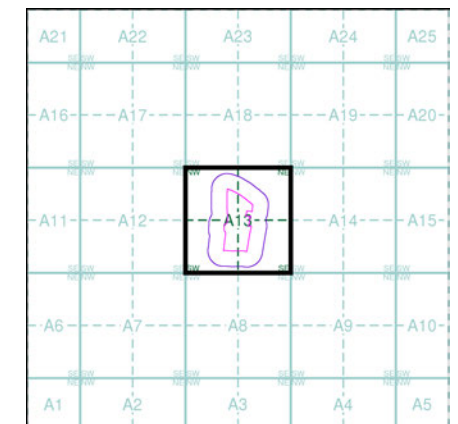
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

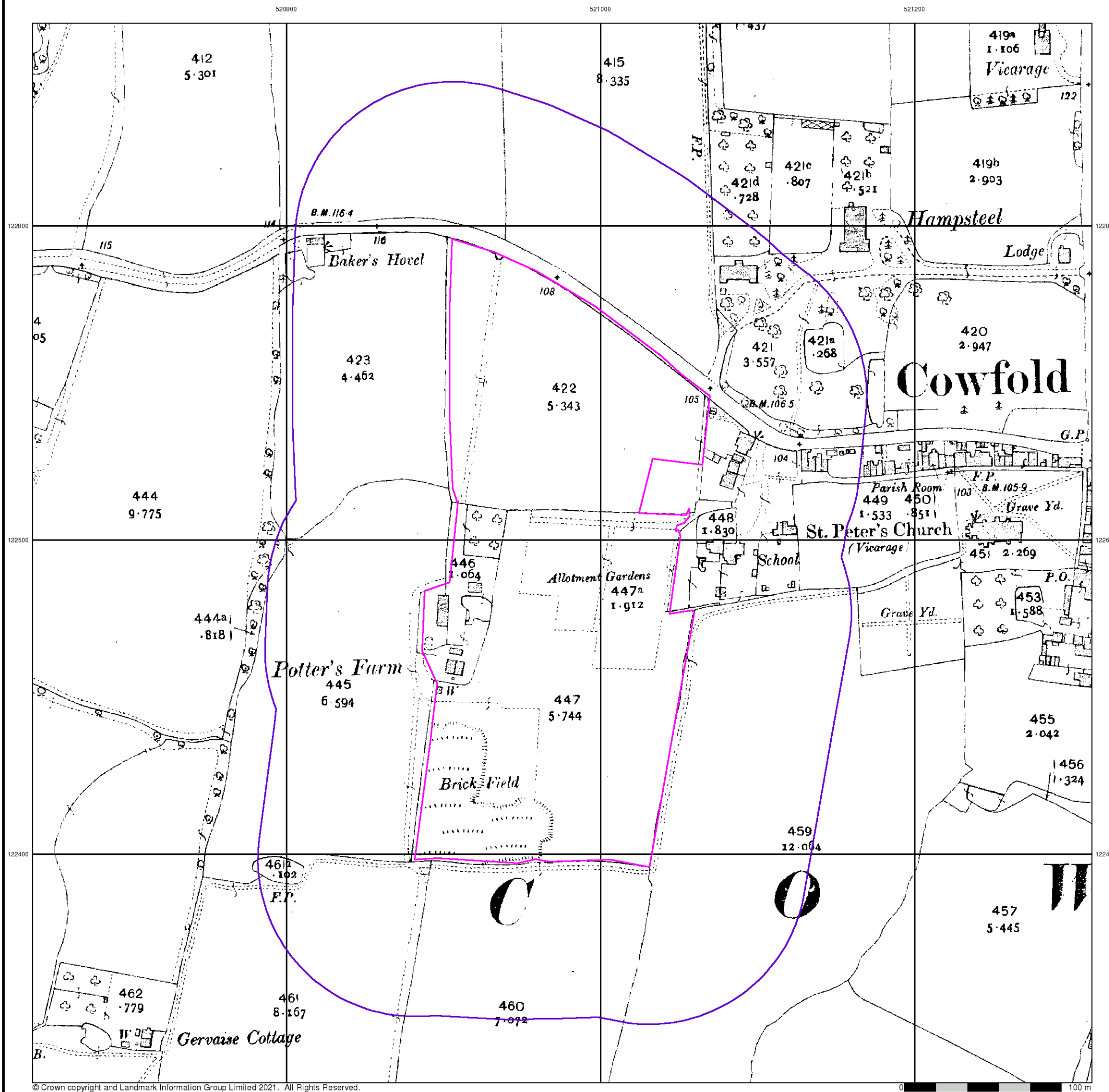
Order Number:	277681427_1_1
Customer Ref:	GE19071
National Grid Reference:	520960, 122580
Slice:	A
Site Area (Ha):	5.46
Search Buffer (m):	100

Site Details

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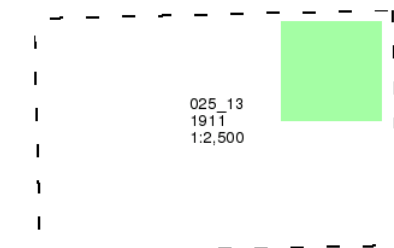
**Geo-Environmental
Sussex**

Published 1911

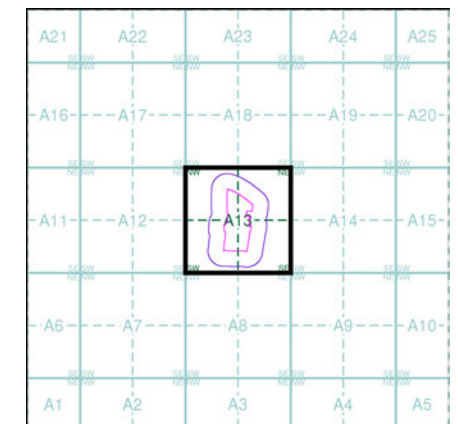
Source map scale - 1:2,500

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: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 100

Site Details

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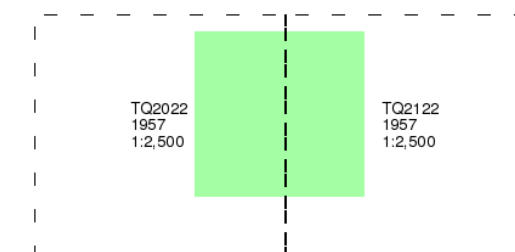
Geo-Environmental Ordnance Survey Plan

Published 1957

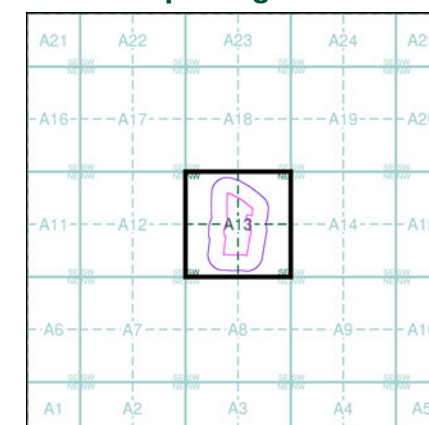
Source map scale - 1:2,500

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

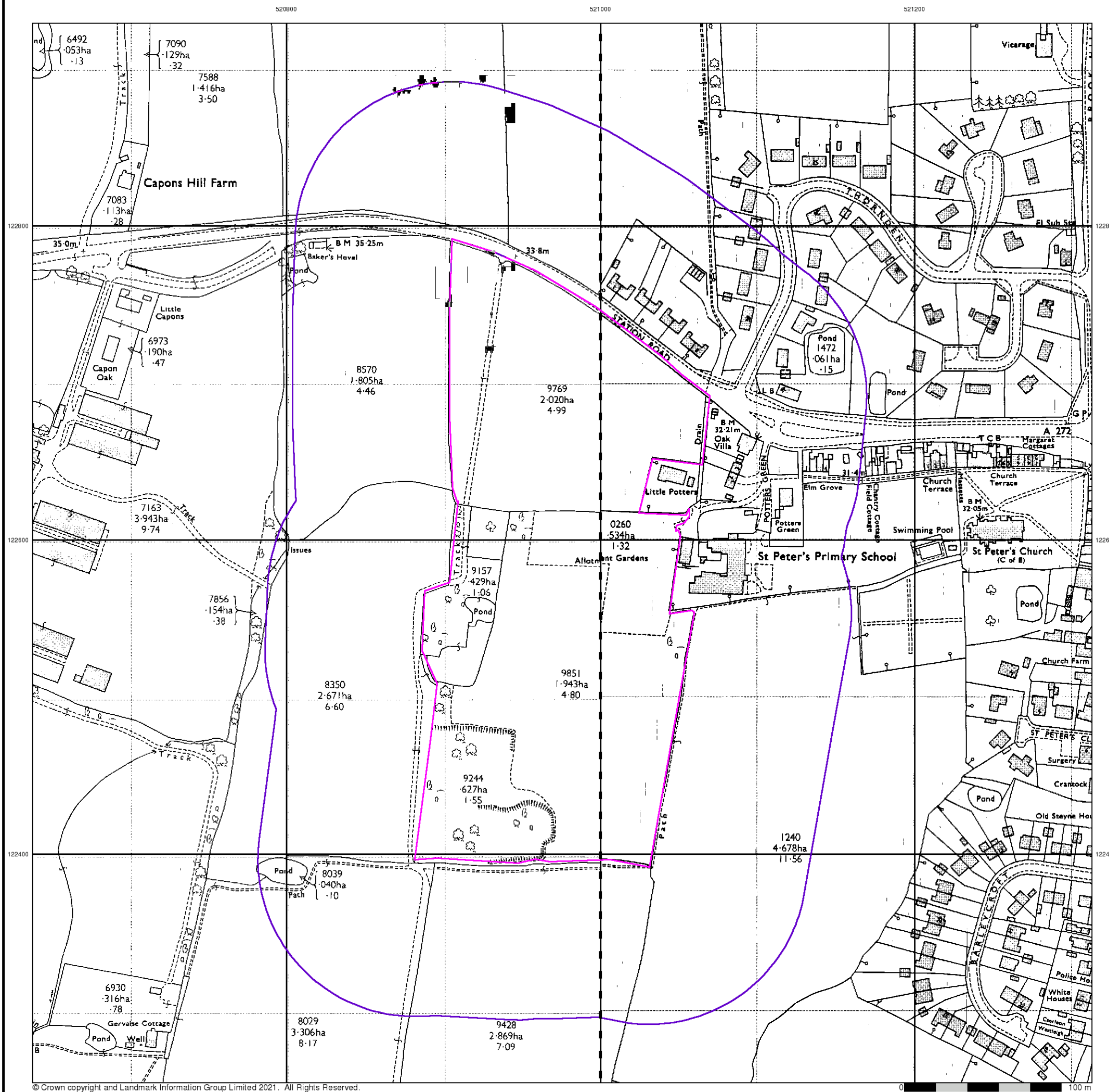
Order Number: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 100

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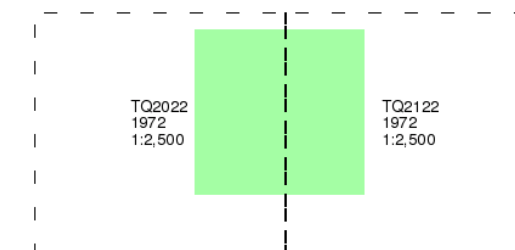
Geo-Environmental Ordnance Survey Plan

Published 1972

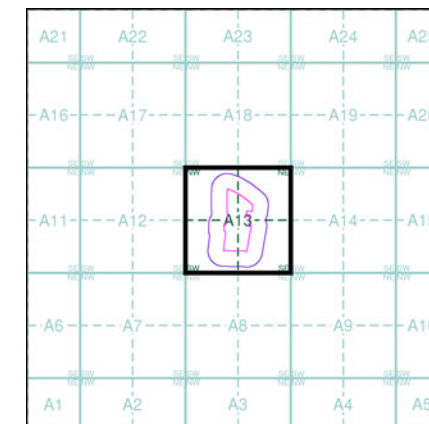
Source map scale - 1:2,500

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: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
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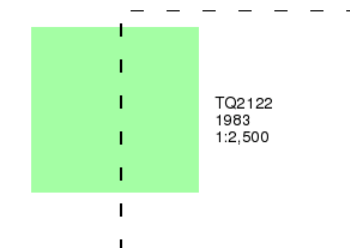
Geo-Environmental Additional SIMs

Published 1983

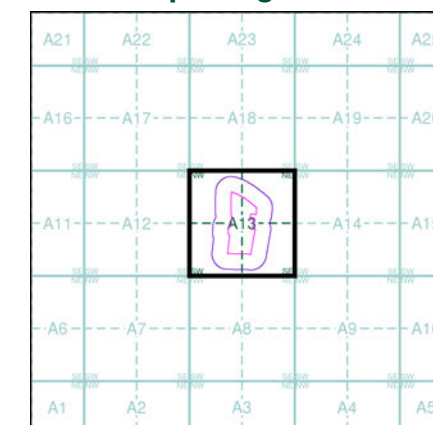
Source map scale - 1:2,500

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

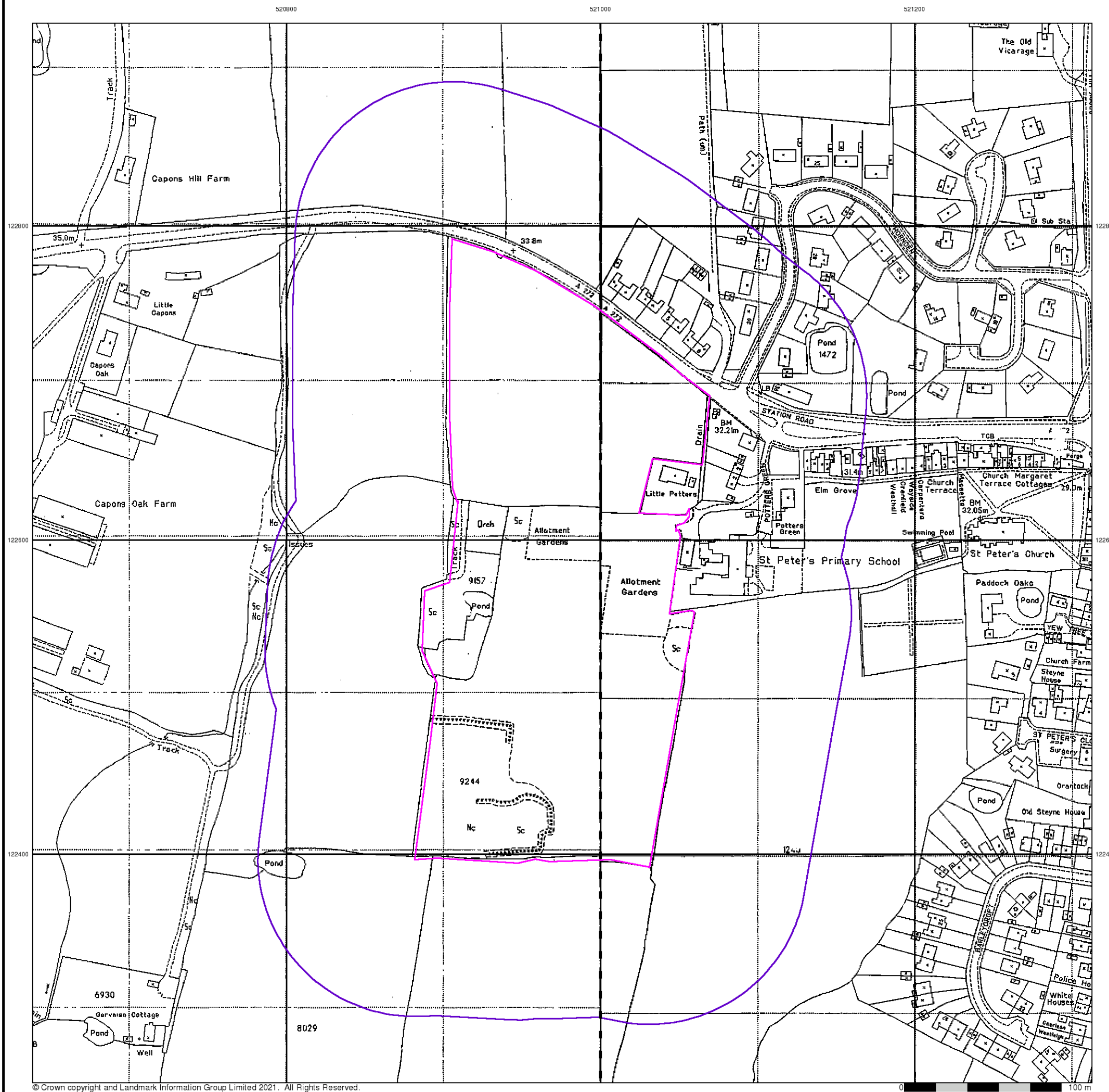
Order Number: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 100

Site Details

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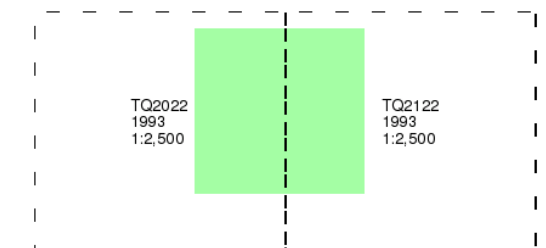
Geo-Environmental Large-Scale National Grid Data

Published 1993

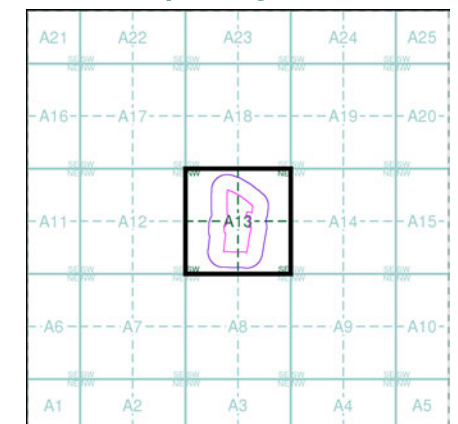
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 100

Site Details

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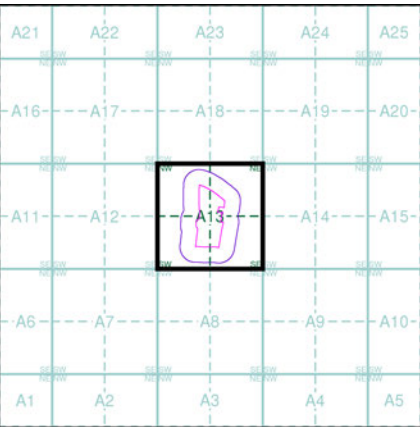


Geo-Environmental
Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



Order Details

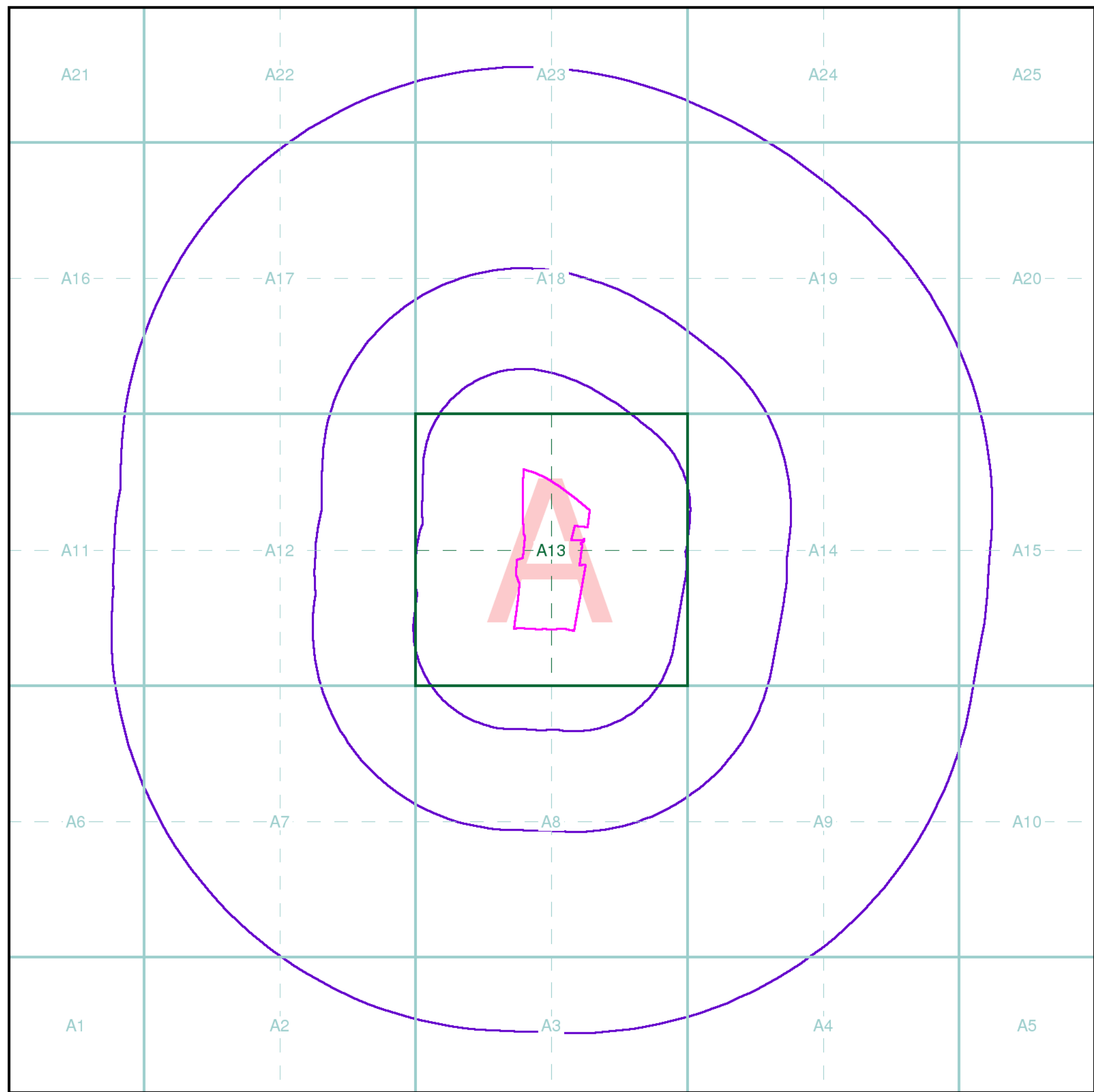
Order Number: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520960, 122580
Slice: A
Site Area (Ha): 5.46
Search Buffer (m): 100

Site Details

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Geo-Environmental 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
Ms K Brayne, Geo Environmental Services Ltd, Unit 7
Danworth Farm, Cuckfield Road, Hurstpierpoint, West
Sussex, BN6 9GL

Order Details
Order Number: 277681427_1_1
Customer Ref: GE19071
National Grid Reference: 520970, 122580
Site Area (Ha): 5.46
Search Buffer (m): 1000

Site Details
Field, Station Road, Cowfold, HORSHAM, RH13 8QZ

Full Terms and Conditions can be found on the following link:
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APPENDIX B

Exploratory Hole Logs





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP01

Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 520932.54 - 122764.78
Level: 33.06

Date
14/04/2021

Location: RH13 8DE

Dimensions (m): 2.65

Depth
2.05

0.55

Scale
1:25

Logged
CW

Client: Devine Homes

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.10	32.96		Dark brown sandy clay with abundant rootlets. Occasional rounded gravel with rare flint cobbles TOPSOIL	
	0.50 0.50 0.50	B D ES		0.60	32.46		Firm mottled grey and yellow CLAY. Occasional sand lenses and sub angular sandstone gravel WEALD CLAY FORMATION	
	1.00 1.00	B D					Firm mottled grey and yellow CLAY. Occasional sub angular sandstone gravel WEALD CLAY FORMATION	1
	1.50 1.50	B D						
	2.00 2.00	B D		2.05 2.05	31.01 31.01		Weak brown micaceous SANDSTONE. Rare ferruginous dark grey siltstone WEALD CLAY FORMATION End of Pit at 2.05m	2
								3
								4
								5

Remarks Refusal due to density.

Stability Sides stable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No
TP02
Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 520958.03 - 122727.57
Level: 31.60

Date
14/04/2021

Location: RH13 8DE

Dimensions (m): 2.50

Scale
1:25

Client: Devine Homes

Depth
2.05

Logged
CW

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.20	31.40		Dark brown slightly clayey sand with abundant rootlets and organic material. Occasional sub angular gravel TOPSOIL	
	0.50 0.50 0.50	B D ES		0.60	31.00		Firm mottled yellow and grey CLAY. Occasional sub angular sandstone gravel WEALD CLAY FORMATION	
	1.00 1.00	B D					Firm to stiff mottled grey and yellow CLAY. Occasional sand lenses and sub angular sandstone gravel WEALD CLAY FORMATION	1
	1.50 1.50	B D						
	2.00 2.00	B D		2.05 2.10	29.55 29.50		Weak grey with pale green sheen micaceous SANDSTONE WEALD CLAY FORMATION End of Pit at 2.05m	2
								3
								4
								5

Water Strikes		Remarks	Stability
Depth Strike	Rises to (m)		
		Seepage within sandstone. Refusal due to density.	Sides stable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP03

Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 520991.93 - 122728.47
Level: 31.38

Date
14/04/2021

Location: RH13 8DE

Dimensions (m): 2.30

Depth
2.25

0.55

Scale
1:25

Logged
CW

Client: Devine Homes

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.20	31.18		Brown to light brown slightly clayey sand. Abundant rootlets. TOPSOIL	
	0.50 0.50 0.50	B D ES		0.70	30.68		Firm mottled grey and yellow sandy CLAY. Occasional sub angular gravel WEALD CLAY FORMATION	
	1.00 1.00	B D		1.40 1.45	29.98 29.93		Firm mottled grey to yellow CLAY. Occasional sub angular gravel WEALD CLAY FORMATION	1
	1.50 1.50	B D		1.90	29.48		Very weak dark brown SANDSTONE WEALD CLAY FORMATION	
	2.00 2.00	B D		2.25	29.13		Stiff mottled grey and yellow sandy CLAY WEALD CLAY FORMATION	
							Weak grey micaceous SANDSTONE WEALD CLAY FORMATION	2
							End of Pit at 2.25m	3
								4
								5

Remarks Groundwater seepage. Refusal due to density.

Stability Sides stable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No
TP04
Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 520922.85 - 122735.48
Level: 31.81

Date
14/04/2021

Location: RH13 8DE

Dimensions (m): 2.60

Depth
1.60

0.60

Scale
1:25

Logged
CW

Client: Devine Homes

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.10	31.71		Dark brown clayey sand. Abundant rootlets and occasional rounded gravel TOPSOIL	
	0.50 0.50 0.50	B D ES		0.60	31.21		Firm mottled yellow and grey sandy CLAY. Occasional sub angular sandstone gravel WEALD CLAY FORMATION	
	1.00 1.00	B D					Firm mottled grey and yellow CLAY. Occasional sub angular sandstone gravel WEALD CLAY FORMATION	1
	1.50 1.50	B D		1.50 1.60	30.31 30.21		Weak brown micaceous SANDSTONE WEALD CLAY FORMATION	
							End of Pit at 1.60m	2
								3
								4
								5

Remarks Refusal due to density.

Stability Sides stable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP05

Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 521026.92 - 122701.69
Level: 30.99

Date
14/04/2021

Location: RH13 8DE

Dimensions (m): 2.42

Depth
2.35

0.45

Scale
1:25

Logged
CW

Client: Devine Homes

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.20	30.79		Dark brown sandy clay. Abundant rootlets and organic material. Occasional rounded gravel TOPSOIL	
	0.50 0.50 0.50	B D ES		0.60	30.39		Firm mottled grey and yellow CLAY. Occasional sub angular sandstone gravel WEALD CLAY FORMATION	
	1.00 1.00	B D					Firm to stiff mottled grey and yellow CLAY. Occasional sub angular sandstone gravel. Rare ferruginous dark grey siltstone WEALD CLAY FORMATION	1
	1.50 1.50	B D						
	2.00 2.00	B D						2
	2.35 2.35	B D		2.30 2.35	28.69 28.64		Weak brown micaceous SANDSTONE. Rare ferruginous dark grey siltstone WEALD CLAY FORMATION	
							End of Pit at 2.35m	3
								4
								5

Remarks Refusal due to density.

Stability Sides stable





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Trial Pit Log

Trial Pit No
TP06
Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 520945.60 - 122691.53
Level: 30.14

Date
14/04/2021

Location: RH13 8DE

Dimensions (m): 3.00

Depth
2.50

0.55

Scale
1:25

Logged
CW

Client: Devine Homes

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10	ES		0.10	30.04		Dark brown sandy clay with abundant rootlets. Occasional sub-angular gravel TOPSOIL
	0.50 0.50 0.50	B D ES		0.60	29.54		Firm mottled grey and yellow sandy CLAY. Occasional sub angular sandstone gravel WEALD CLAY FORMATION
	1.00 1.00	B D					Firm to stiff mottled grey and yellow CLAY. Occasional sub angular gravel. Rare ferruginous dark grey siltstone WEALD CLAY FORMATION
	1.50 1.50	B D					
	2.00 2.00	B D					
	2.50 2.50	B D		2.40 2.50	27.74 27.64		Weak grey micaceous SANDSTONE WEALD CLAY FORMATION End of Pit at 2.50m

Water Strikes		Remarks
Depth Strike	Rise to (m)	
		Seepage within sandstone. Refusal due to density.
		Stability Sides stable





Unit 7, Danworth Farm
Hurstpierpoint
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Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP07

Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 520928.89 - 122638.55
Level: 28.78

Date
15/04/2021

Location: RH13 8DE

Dimensions (m): 2.05

Depth
2.20

0.63

Scale
1:25

Logged
JG

Client: Devine Homes

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.30	28.48		Brown sandy clay. Rootlets throughout TOPSOIL	
	0.40 0.50 0.50	ES D PP	PP=3.25kg/cm2				Firm light brown mottled light grey CLAY. WEALD CLAY FORMATION	
				0.75	28.03		Firm to stiff light brown mottled light grey gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION	1
	1.00 1.00	D PP	PP=2.5kg/cm2					
	1.50 1.50	D PP	PP=2kg/cm2					
	2.00	D		1.95	26.83		SANDSTONE recovered as sandy GRAVEL. Gravel is sub angular weak friable sandstone. WEALD CLAY FORMATION	2
				2.20	26.58		End of Pit at 2.20m	3
								4
								5

Remarks Refusal due to density.

Stability Sides stable





Unit 7, Danworth Farm
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Trial Pit Log

Trial Pit No

TP08

Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 520972.13 - 122664.54
Level: 29.72

Date
15/04/2021

Location: RH13 8DE

Dimensions (m): 2.30

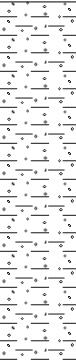
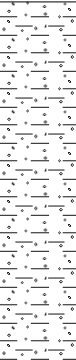
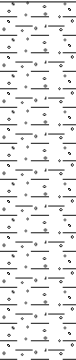
Depth
2.45

0.65

Scale
1:25

Logged
JG

Client: Devine Homes

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	ES		0.30	29.42		Brown clayey gravelly sand. Gravel is fine to medium sub angular TOPSOIL	
	0.50 0.50	D PP	PP=0.5kg/cm2				Light brown mottled light grey CLAY. WEALD CLAY FORMATION	
	1.00 1.00	D PP	PP=3.5kg/cm2	1.05	28.67		Firm to stiff Light brown mottled light grey gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION	1
	1.50 1.50	D PP	PP=4.25kg/cm2					
	2.00 2.00	D PP	PP=3kg/cm2					2
				2.25	27.47		SANDSTONE recovered as sandy GRAVEL. Gravel is sub angular weak friable sandstone WEALD CLAY FORMATION	
				2.45	27.27		End of Pit at 2.45m	
								3
								4
								5

Remarks Land drain 1.05m bgl. Refusal due to density.

Stability Sides stable





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Trial Pit Log

Trial Pit No

TP09

Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 521040.44 - 122666.89
Level: 30.82

Date
15/04/2021

Location: RH13 8DE

Dimensions (m): 2.10

Depth
2.20

0.55

Scale
1:25

Logged
JG

Client: Devine Homes

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.35	30.46		Brown clayey sand TOPSOIL	
	0.50 0.50 0.50	B D ES					Firm light brown mottled light grey CLAY. WEALD CLAY FORMATION	1
	1.00	D		1.30	29.52		Firm to stiff Light brown mottled light grey gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION	
	1.50 1.50	D PP	PP=3.5kg/cm2				SANDSTONE recovered as sandy GRAVEL. Gravel is sub angular weak friable sandstone. WEALD CLAY FORMATION	2
	2.00 2.00 2.20	D PP D	PP=3kg/cm2	2.10 2.20	28.72 28.62		End of Pit at 2.20m	3
								4
								5

Remarks Refusal due to density.

Stability Sides stable





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Trial Pit Log

Trial Pit No
TP10
Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 520976.13 - 122629.22
Level: 30.14

Date
15/04/2021

Location: RH13 8DE

Dimensions (m): 2.25
Depth 2.70

Scale
1:25
Logged
JG

Client: Devine Homes

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.25	29.89		Brown clayey sand. Rootlets throughout TOPSOIL	
	0.50 0.50	D PP	PP=3kg/cm2				Firm light brown mottled light grey CLAY. WEALD CLAY FORMATION	
	1.00 1.00	D PP	PP=3.75kg/cm2	1.10	29.04		Firm to stiff reddish brown gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION	1
	1.50 1.50	D PP	PP=1.75kg/cm2	1.55	28.59		Stiff light brown mottled light grey gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION	
	2.00	D					SANDSTONE recovered as sandy GRAVEL. Gravel is sub angular weak friable sandstone. WEALD CLAY FORMATION	2
				2.45	27.69			
				2.70	27.44		End of Pit at 2.70m	3
								4
								5

Remarks Refusal due to density.

Stability Sides stable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP11

Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 520957.89 - 122558.27
Level: 30.03

Date
14/04/2021

Location: RH13 8DE

Dimensions (m): 2.38

Depth
2.93

0.62

Scale
1:25

Logged
CW

Client: Devine Homes

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES		0.30	29.73		Dark brown sandy clay with abundant rootlets and organic material. Occasional sub angular gravel TOPSOIL	
	0.50 0.50 0.50	B D ES					Firm mottled grey yellow sandy CLAY. Occasional sub angular gravel WEALD CLAY FORMATION	1
	1.00 1.00	B D					Stiff reddish brown gravelly CLAY. Gravel comprises sub angular sandstone. Occasional organic material and ferruginous dark grey siltstone WEALD CLAY FORMATION	
	1.50 1.50	B D		1.50	28.53		Very weak pale grey and green micaceous, calcareous fine SANDSTONE. Rare ferruginous dark grey siltstone WEALD CLAY FORMATION	2
	2.00 2.00	B D		1.90	28.13		End of Pit at 2.93m	3
	2.50 2.50	B D						4
	2.93 2.93	B D		2.93	27.10			5

Remarks Refusal due to density.

Stability Sides stable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP12

Sheet 1 of 1

Project Name: Station Road, Cowfold

Project No.
GE19071

Co-ords: 521011.15 - 122565.83
Level: 30.70

Date
15/04/2021

Location: RH13 8DE

Dimensions (m): 2.30

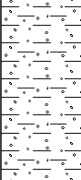
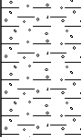
Depth
2.60

0.70

Scale
1:25

Logged
JG

Client: Devine Homes

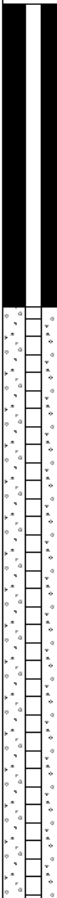
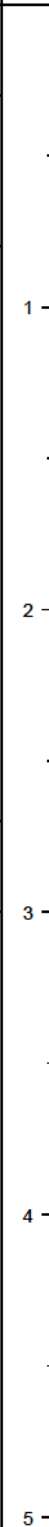
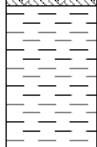
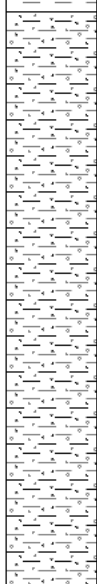
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.35	30.34		Brown clayey sand. Rootlets throughout. TOPSOIL
	0.50 0.50	D PP	PP=2.5kg/cm2				Firm to stiff brown clay. WEALD CLAY FORMATION
	1.00 1.00	D PP	PP=4.25kg/cm2				Firm to stiff reddish brown gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION
	1.50 1.50	D PP	PP=3.75kg/cm2	1.55 1.55	29.14 29.14		Stiff light brown mottled light grey gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION
	2.00	D					End of Pit at 2.60m
	2.50	D		2.60	28.10		

Remarks Refusal due to density.

Stability Sides stable



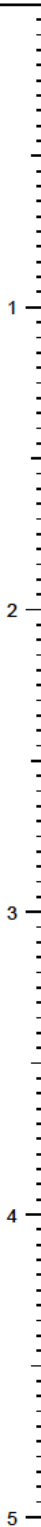
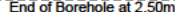
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Project Name: Station Road, Cowfold		Project No. GE19071		Co-ords: 520962E - 122752N		Hole Type WLS	
Location: RH13 8DE				Level: 32.46		Scale 1:25	
Client: Devine Homes				Dates: 14/04/2021		Logged By JG	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.30	32.16		Brown clayey sand. Rootlets throughout TOPSOIL	
		0.50 0.50 0.50	D ES PP	3.2kg/cm2	0.80	31.66		Firm to stiff brown with occasional light grey discolouration CLAY. WEALD CLAY FORMATION	
		1.00 1.00	D PP	3.0kg/cm2				Stiff brown with occasional light grey discolouration gravelly CLAY. Gravel is weak friable sandstone. Weathered sandstone WEALD CLAY FORMATION	
		1.50 1.50	D PP	4.5kg/cm2					
		2.00 2.00	D PP	4.5kg/cm2					
		2.50 2.50	D PP	4.5kg/cm2	2.70	29.76		Dark greyish brown finely laminated weak friable SANDSTONE WEALD CLAY FORMATION	
		3.00	D		3.00	29.46		End of Borehole at 3.00m	

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	
						Refusal due to density.



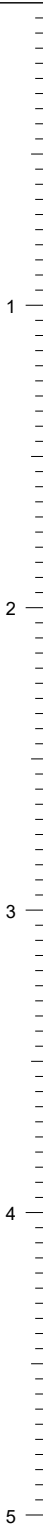
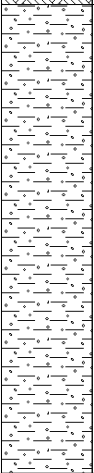
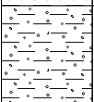
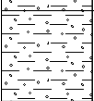
 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net		Borehole Log				Borehole No. WS02 Sheet 1 of 1	
Project Name: Station Road, Cowfold		Project No. GE19071		Co-ords: 520932E - 122711N		Hole Type WLS	
Location: RH13 8DE				Level: 30.80		Scale 1:25	
Client: Devine Homes				Dates: 14/04/2021		Logged By JG	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.20	30.60		Brown clayey sand. Rootlets throughout TOPSOIL	
		0.50	D					Stiff brown mottled grey gravelly CLAY. Gravel is composed of weak friable sandstone. Weathered sandstone WEALD CLAY FORMATION	
		0.50	ES						
		0.50	PP	3.5kg/cm2					
		1.00	D					Stiff brown mottled grey CLAY. WEALD CLAY FORMATION	
		1.00	PP	4.5kg/cm2					
		1.50	D						
		1.50	PP	4.5kg/cm2					
		2.00	D						
		2.00	PP	4.5kg/cm2					
	2.30				2.30	28.50			
	2.50	D			2.50	28.30			
	2.50	PP	4.5kg/cm2						
 End of Borehole at 2.50m									

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	
						Refusal due to density.



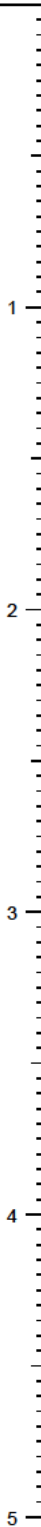
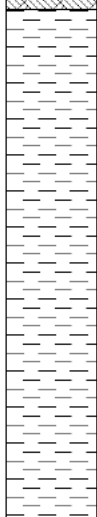
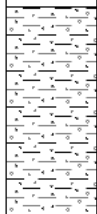
 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net		Borehole Log				Borehole No. WS03 Sheet 1 of 1	
Project Name: Station Road, Cowfold		Project No. GE19071		Co-ords: 520977E - 122703N		Hole Type WLS	
Location: RH13 8DE				Level: 30.54		Scale 1:25	
Client: Devine Homes				Dates: 14/04/2021		Logged By JG	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.30	30.24		Brown clayey rarely gravelly sand. Gravel is fine brick. TOPSOIL	
		0.50 0.50 0.60	D PP ES	3.2kg/cm2				Firm to stiff light brown mottled light grey gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION	
		1.00 1.00	D PP	2.8kg/cm2					
		1.50 1.50	D PP	0.8kg/cm2					
		2.00	D					Brown weak friable laminated SANDSTONE WEALD CLAY FORMATION	
								Stiff light brown mottled light grey gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION	
		2.40						Stiff light grey gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION	
		2.50 2.50	D PP	4.8kg/cm2					
							2.70	27.84	

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	
						Refusal due to density.



 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net				Borehole Log				Borehole No. WS04 Sheet 1 of 1	
Project Name: Station Road, Cowfold				Project No. GE19071		Co-ords: 521021E - 122685N		Hole Type WLS	
Location: RH13 8DE						Level: 30.73		Scale 1:25	
Client: Devine Homes						Dates: 14/04/2021		Logged By JG	

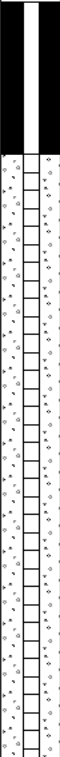
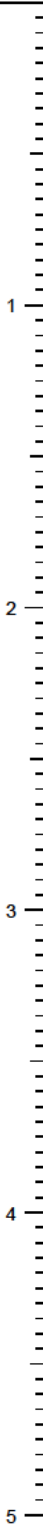
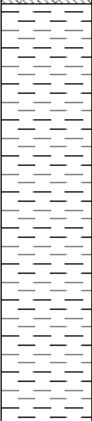
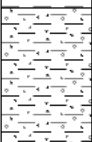
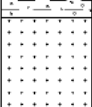
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.20	30.53		Brown sandy clay. Rootlets throughout. TOPSOIL	
		0.40	ES					Firm becoming stiff light brown mottled light grey CLAY. WEALD CLAY FORMATION	
		0.50	D						
		0.50	PP	3.0kg/cm2					
		1.00	D						
		1.00	PP	2.0kg/cm2					
		1.50	D						
		1.50	PP	3.2kg/cm2					
		2.00	D		1.90	28.83		Stiff to very stiff light brown mottled light laminated grey gravelly CLAY. Gravel is weak friable sandstone. Weathered sandstone WEALD CLAY FORMATION	
		2.00	PP	4.5kg/cm2					
	2.50	D		2.60	28.13				
		2.50	PP	3.5kg/cm2	2.60	28.03		Light grey with light brown discolouration weakly cemented SANDSTONE. WEALD CLAY FORMATION	
	2.70	D		2.70	28.03				

End of Borehole at 2.70m

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	
						Refusal due to density.



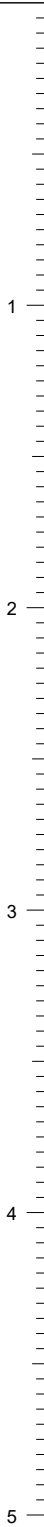
 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net		Borehole Log				Borehole No. WS05 Sheet 1 of 1	
Project Name: Station Road, Cowfold		Project No. GE19071		Co-ords: 521018E - 122652N		Hole Type WLS	
Location: RH13 8DE				Level: 30.63		Scale 1:25	
Client: Devine Homes				Dates: 14/04/2021		Logged By JG	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.30	30.33		Brown clayey slightly gravelly sand. Gravel is fine sub angular and partly composed of brick TOPSOIL	
		0.50	D					Firm Light brown mottled light grey CLAY. WEALD CLAY FORMATION	
		0.50	PP	2.5kg/cm2					
		0.60	ES						
		1.00	D					Firm to stiff light brown mottled light grey laminated gravelly CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION	
		1.00	PP	3.0kg/cm2					
		1.50	D					Weak grey with red discolouration weakly cemented SANDSTONE. WEALD CLAY FORMATION	
	1.50	PP	2.8kg/cm2	1.70	28.93				
	2.00	D			2.20	28.43			
	2.00	PP	2.8kg/cm2						
		2.50	D		2.50	28.13	End of Borehole at 2.50m		

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	
						Refusal due to density.



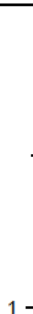
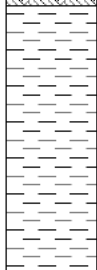
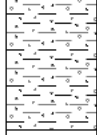
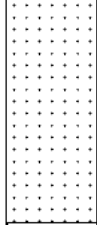
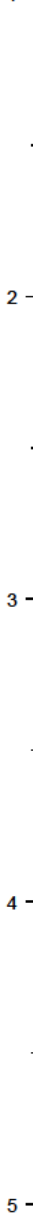
 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net		Borehole Log				Borehole No. WS06 Sheet 1 of 1	
Project Name: Station Road, Cowfold		Project No. GE19071		Co-ords: 521006E - 122633N		Hole Type WLS	
Location: RH13 8DE				Level: 30.70		Scale 1:25	
Client: Devine Homes				Dates: 14/04/2021		Logged By JG	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.20	30.50		Brown clayey sand. Rootlets throughout TOPSOIL	
		0.50 0.50	D PP	2.0kg/cm2				Firm light brown with light grey discolouration CLAY WEALD CLAY FORMATION	
		0.70	ES						
		1.00 1.00	D PP	2.0kg/cm2					
		1.50 1.50	D PP	1.0kg/cm2	1.40	29.30		Firm to stiff light brown with light grey discolouration gravelly laminated CLAY. Gravel is weak sandstone. Weathered sandstone WEALD CLAY FORMATION	
		2.00 2.00	D PP	3.5kg/cm2	1.85	28.85		Grey brown mottled red weakly cemented friable SANDSTONE. WEALD CLAY FORMATION	
		2.50	D						
		3.00	D						
		3.50	D						
					3.70	27.00		End of Borehole at 3.70m	
								5	

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	
						Refusal due to density.



 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net		Borehole Log				Borehole No. WS07 Sheet 1 of 1	
Project Name: Station Road, Cowfold		Project No. GE19071		Co-ords: 520982E - 122586N		Hole Type WLS	
Location: RH13 8DE				Level:		Scale 1:25	
Client: Devine Homes				Dates: 14/04/2021		Logged By JG	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.30		Brown clayey sand. Rootlets throughout TOPSOIL		
	0.50 0.50	D PP	1.5kg/cm2						Firm Light brown mottled light grey CLAY. WEALD CLAY FORMATION
	0.80	ES		1.20		Firm to stiff reddish brown with light brown discolouration gravelly CLAY. Gravel is weak mudstone. Weathered mudstone WEALD CLAY FORMATION			
	1.00 1.00	D PP	2.8kg/cm2				Firm to stiff brown with light brown discolouration gravelly CLAY. Gravel is weak mudstone. Weathered mudstone WEALD CLAY FORMATION		
	1.50 1.50	D PP	4.5kg/cm2	1.90		Light brown with reddish brown discolouration finely laminated SANDSTONE WEALD CLAY FORMATION			
	2.00	D							
	2.50	D		2.65					
	End of Borehole at 2.65m								

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	



Project Id: GE19071
Project Title: Station Road, Cowfold
Location: RH13 8DE
Client: Devine Homes

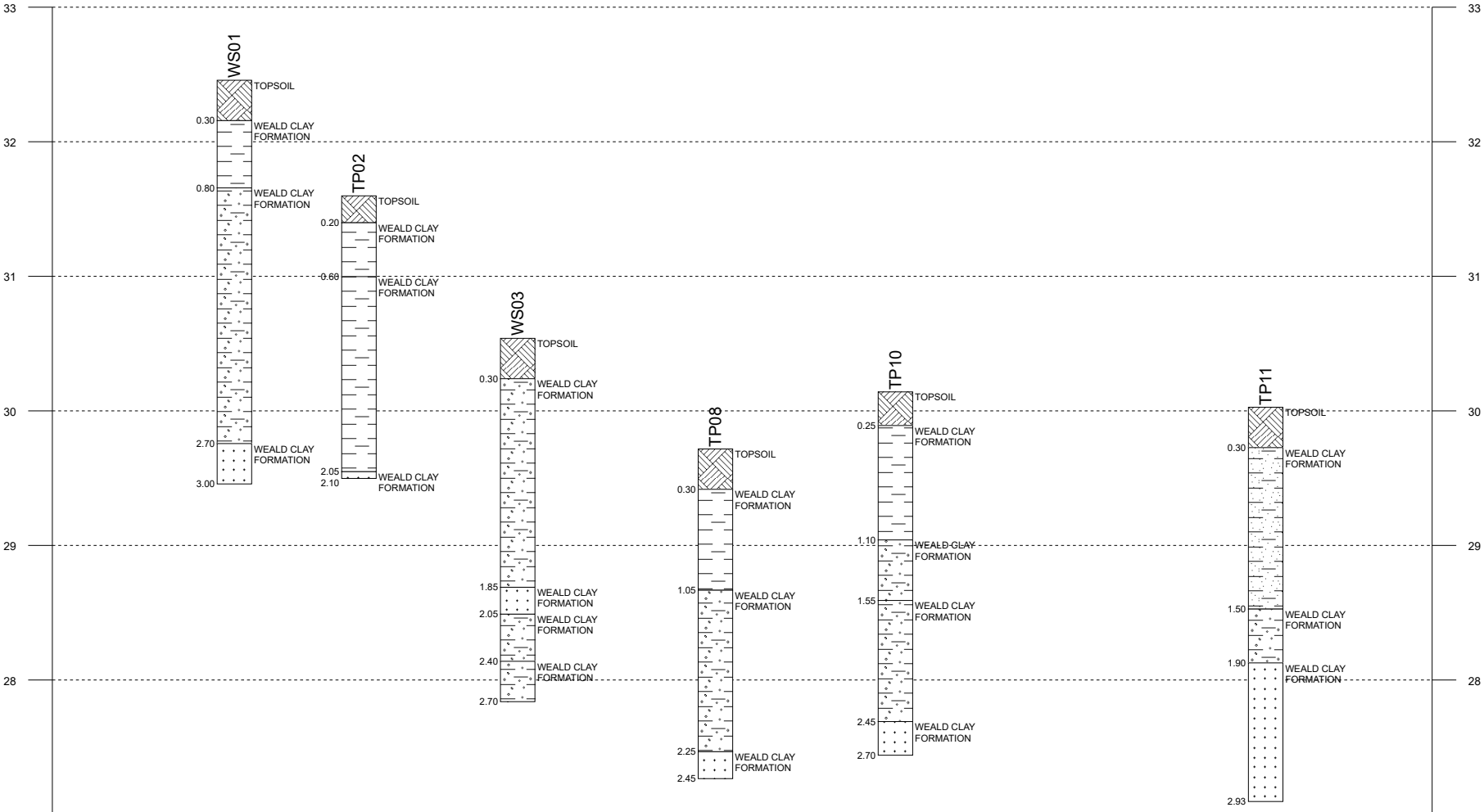
Title: Section line 1
Vertical Scale: 1:46
Horizontal Scale: 1:1227
Engineer: GE



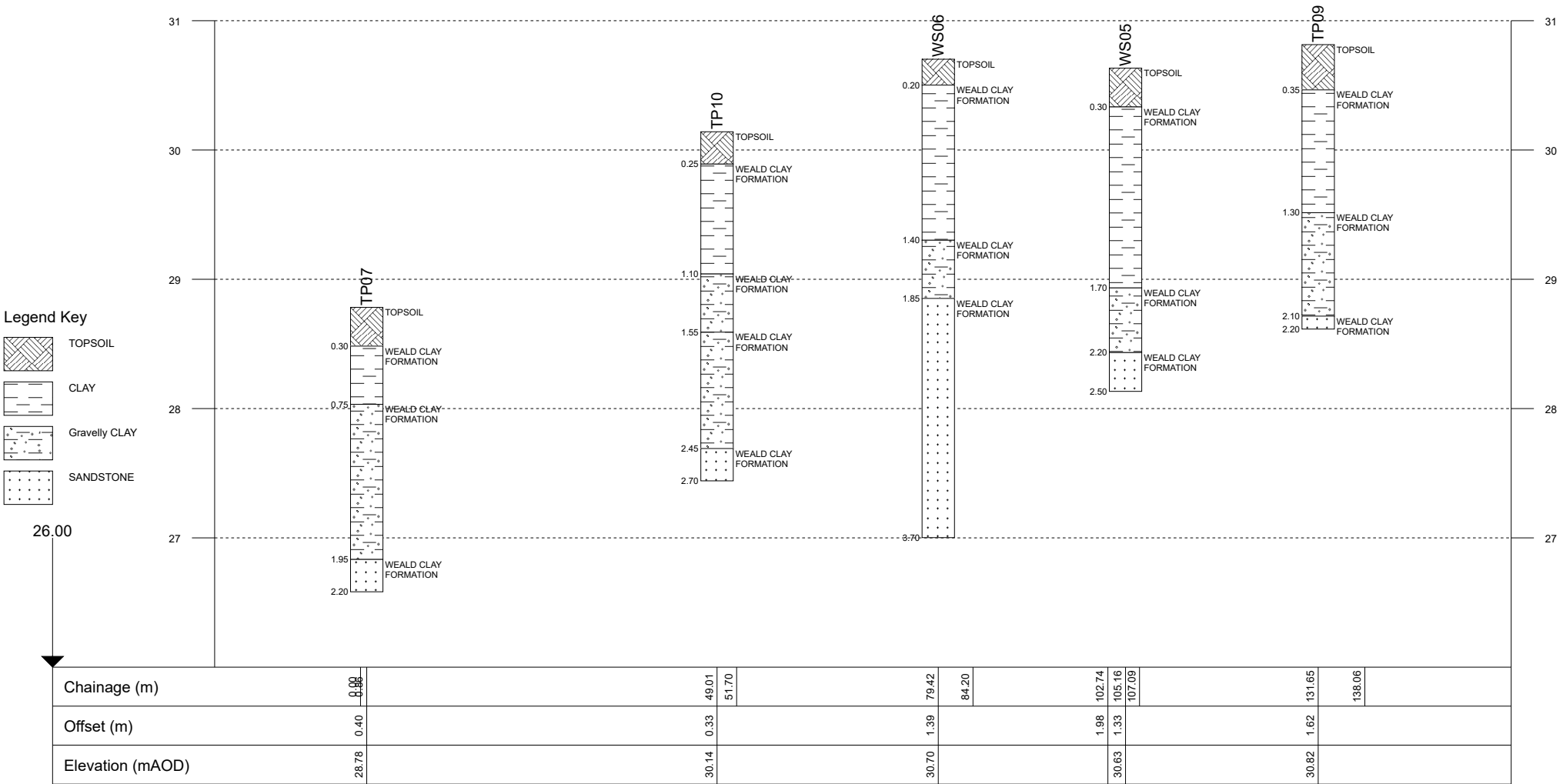
Legend Key

- TOPSOIL
- CLAY
- Gravelly CLAY
- SANDSTONE
- Sandy CLAY

27.00



Chainage (m)	0.00	5.32	29.99	32.78	61.44	65.56	96.56	100.62	103.65	136.27	209.62	211.65
Offset (m)		1.19	1.03		0.96		0.00	0.14		0.17	0.97	
Elevation (mAOD)	32.46		31.60		30.54		29.72			30.14	30.03	



Penetration Data Report

Project Name: DCP01

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 93

Test Date: 18/06/2021

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

Surface Moisture:

Moderate

Moisture adjustment factor:

Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	93	0.00					
2	1	1	192	99.00					
3	1	2	242	50.00					
4	1	3	296	54.00					
5	1	4	338	42.00					
6	1	5	382	44.00					
7	1	6	433	51.00					
8	1	7	472	39.00					
9	1	8	516	44.00					
10	1	9	573	57.00					
11	1	10	590	17.00					
12	1	11	610	20.00					
13	1	12	627	17.00					
14	1	13	652	25.00					
15	1	14	686	34.00					
16	1	15	720	34.00					
17	2	17	813	46.50					
18	1	18	860	47.00					
19	1	19	901	41.00					
20	1	20	939	38.00					

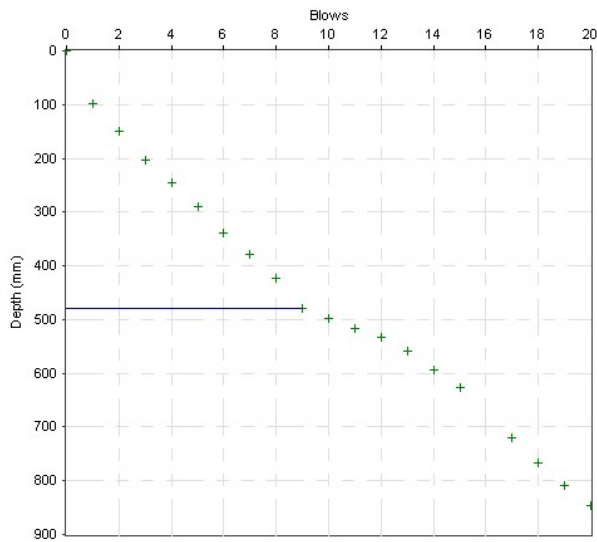
DCP Layer Strength Analysis Report

Project Name: DCP01

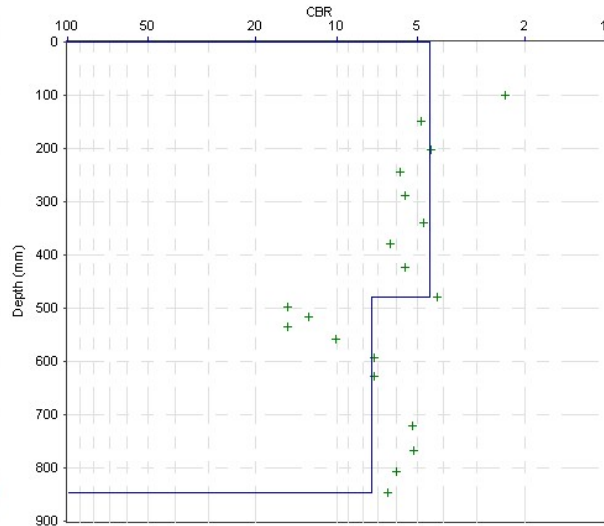
Chainage (km): 0.000
 Direction:
 Location/Offset: Lay-by / other
 Cone Angle: 60 degrees
 Zero Error (mm): 93
 Test Date: 18/06/2021

Surface Type: Unpaved
 Thickness (mm): 0
 Base Type:
 Thickness (mm):
 Surface Moisture: Moderate
 Moisture adjustment factor: Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	53.33	5	480	480
2	33.27	7	366	846

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP02

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 170

Test Date: 18/06/2021

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

Surface Moisture:

Moderate

Moisture adjustment factor:

Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	170	0.00					
2	1	1	191	21.00					
3	1	2	225	34.00					
4	1	3	255	30.00					
5	1	4	295	40.00					
6	1	5	342	47.00					
7	1	6	386	44.00					
8	1	7	425	39.00					
9	1	8	462	37.00					
10	1	9	497	35.00					
11	1	10	531	34.00					
12	1	11	570	39.00					
13	1	12	611	41.00					
14	1	13	657	46.00					
15	1	14	705	48.00					
16	1	15	772	67.00					
17	1	16	837	65.00					
18	1	17	905	68.00					
19	1	18	952	47.00					

DCP Layer Strength Analysis Report

Project Name: DCP02

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 170

Test Date: 18/06/2021

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

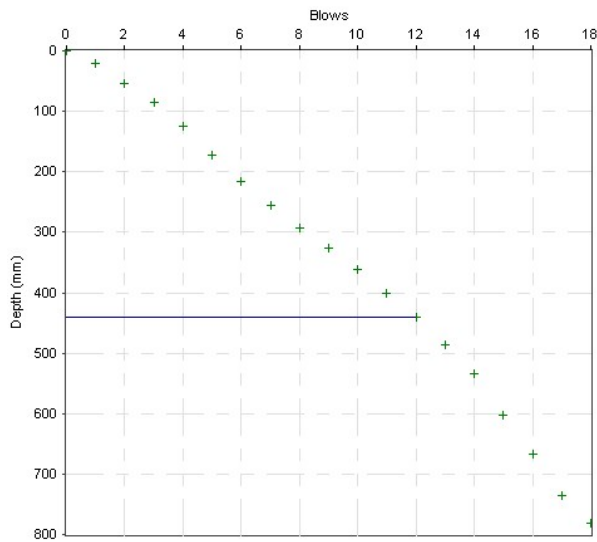
Surface Moisture:

Moderate

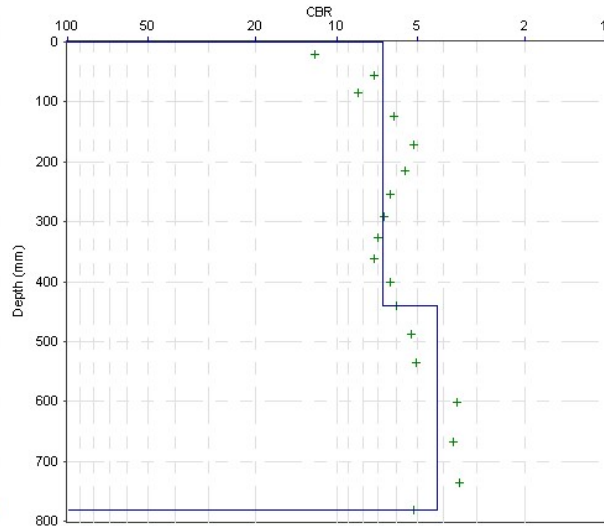
Moisture adjustment factor:

Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	36.75	7	441	441
2	56.83	4	341	782

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP03

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 122

Test Date: 18/06/2021

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

Surface Moisture:

Moderate

Moisture adjustment factor: Not adjusted

[illegible]

DCP Layer Strength Analysis Report

Project Name: DCP03

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 122

Test Date: 18/06/2021

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

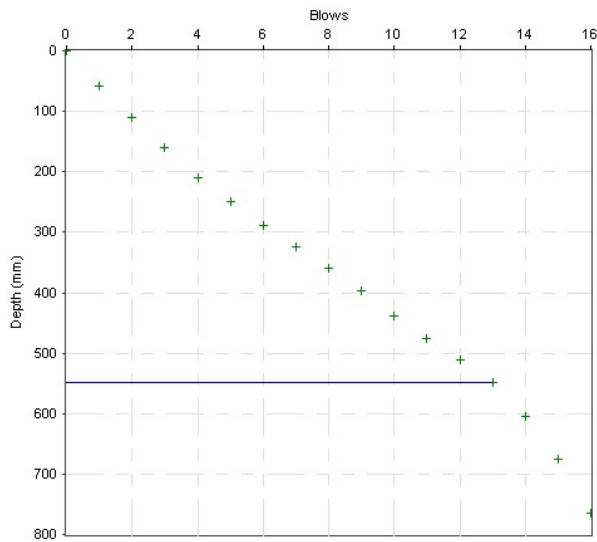
Surface Moisture:

Moderate

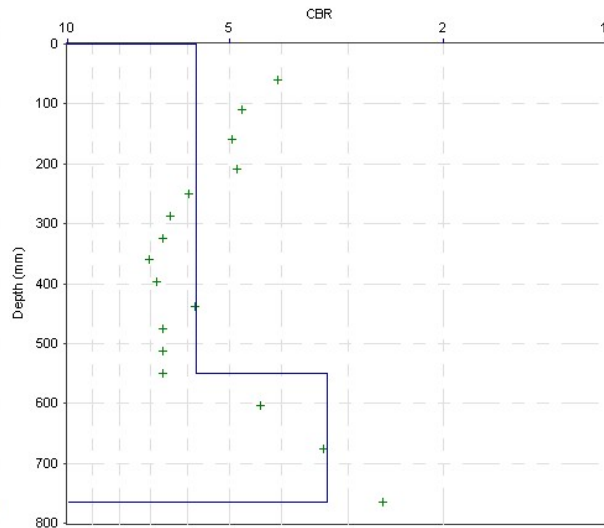
Moisture adjustment factor:

Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	42.23	6	549	549
2	72.00	3	216	765

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP04

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 10

Test Date: 18/06/2021

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

Surface Moisture:

Moderate

Moisture adjustment factor:

Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	100	0.00	26	1	25	939	18.00
2	1	1	175	75.00					
3	1	2	214	39.00					
4	1	3	263	49.00					
5	1	4	331	68.00					
6	1	5	372	41.00					
7	1	6	412	40.00					
8	1	7	450	38.00					
9	1	8	479	29.00					
10	1	9	488	9.00					
11	1	10	495	7.00					
12	1	11	505	10.00					
13	1	12	525	20.00					
14	1	13	553	28.00					
15	1	14	583	30.00					
16	1	15	613	30.00					
17	1	16	649	36.00					
18	1	17	682	33.00					
19	1	18	715	33.00					
20	1	19	750	35.00					
21	1	20	785	35.00					
22	1	21	822	37.00					
23	1	22	855	33.00					
24	1	23	893	38.00					
25	1	24	921	28.00					

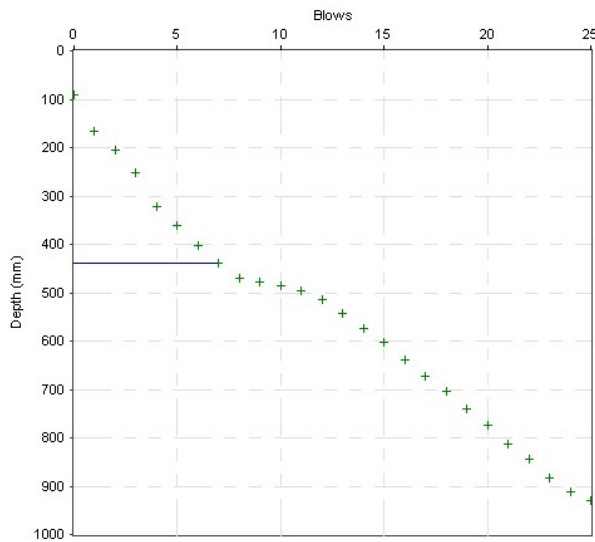
DCP Layer Strength Analysis Report

Project Name: DCP04

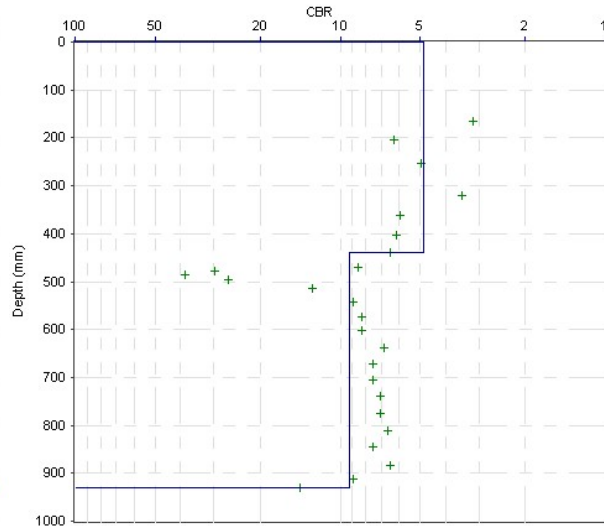
Chainage (km): 0.000
 Direction:
 Location/Offset: Lay-by / other
 Cone Angle: 60 degrees
 Zero Error (mm): 10
 Test Date: 18/06/2021

Surface Type: Unpaved
 Thickness (mm): 0
 Base Type:
 Thickness (mm):
 Surface Moisture: Moderate
 Moisture adjustment factor: Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	50.00	5	440	440
2	27.17	9	489	929

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP05

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 165

Test Date: 18/06/2021

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

Surface Moisture:

Moderate

Moisture adjustment factor:

Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)	No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/blow)
1	0	0	165	0.00					
2	1	1	201	36.00					
3	1	2	241	40.00					
4	1	3	275	34.00					
5	1	4	312	37.00					
6	1	5	342	30.00					
7	1	6	370	28.00					
8	1	7	392	22.00					
9	1	8	413	21.00					
10	1	9	432	19.00					
11	1	10	454	22.00					
12	1	11	480	26.00					
13	1	12	507	27.00					
14	1	13	538	31.00					
15	1	14	573	35.00					
16	1	15	615	42.00					
17	1	16	654	39.00					
18	1	17	694	40.00					
19	1	18	733	39.00					
20	1	19	783	50.00					
21	1	20	833	50.00					
22	1	21	880	47.00					
23	1	22	929	49.00					
24	1	23	949	20.00					

DCP Layer Strength Analysis Report

Project Name: DCP05

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 165

Test Date: 18/06/2021

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

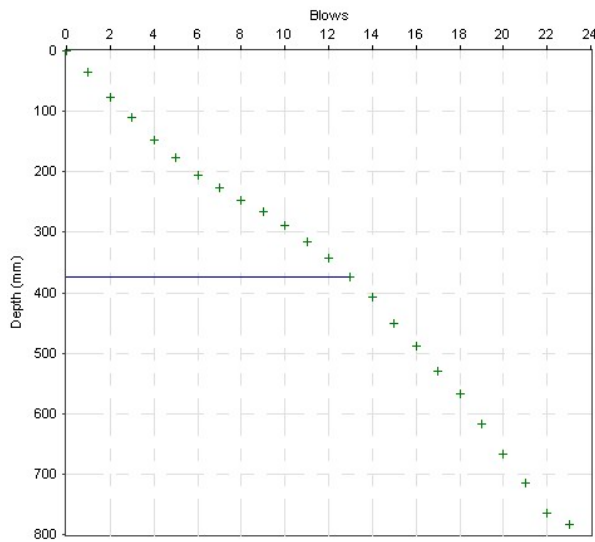
Surface Moisture:

Moderate

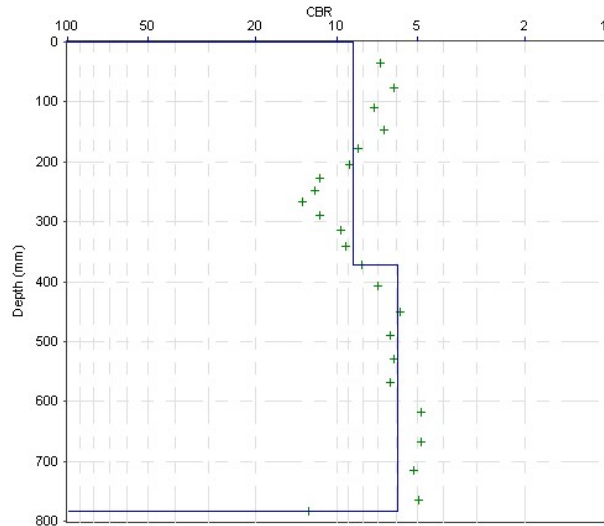
Moisture adjustment factor:

Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	28.69	9	373	373
2	41.10	6	411	784

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP06

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 100

Test Date: 18/06/2021

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

Surface Moisture:

Moderate

Moisture adjustment factor: Not adjusted

[illegible]

DCP Layer Strength Analysis Report

Project Name: DCP06

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 100

Test Date: 18/06/2021

Surface Type:

Unpaved

Thickness (mm):

0

Base Type:

Thickness (mm):

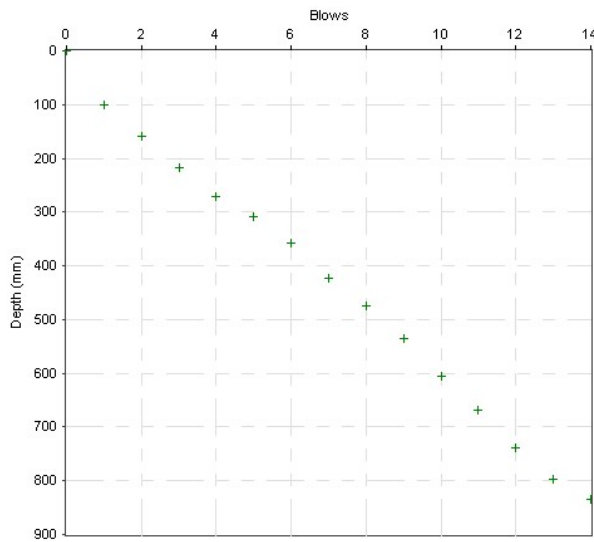
Surface Moisture:

Moderate

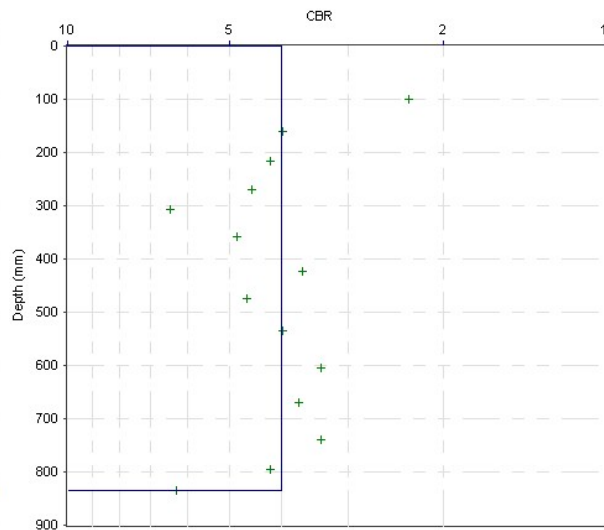
Moisture adjustment factor:

Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	59.64	4	835	835

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

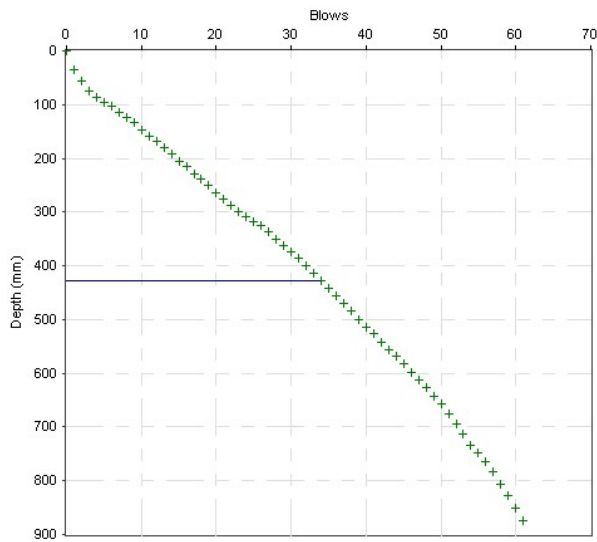
DCP Layer Strength Analysis Report

Project Name: DCP07

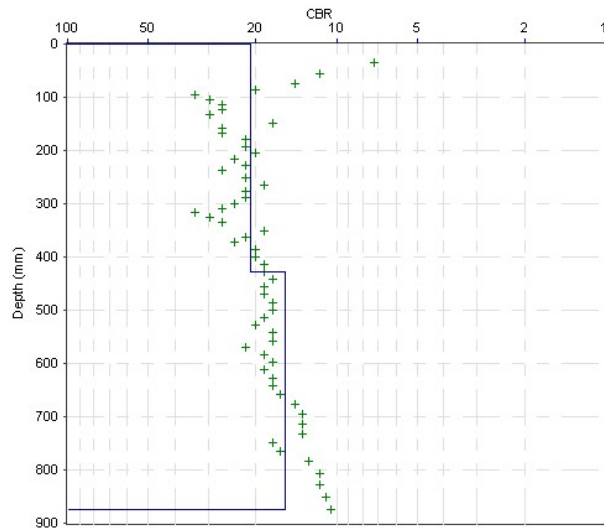
Chainage (km): 0.000
 Direction:
 Location/Offset: Lay-by / other
 Cone Angle: 60 degrees
 Zero Error (mm): 70
 Test Date: 14/06/2021

Surface Type: Unpaved
 Thickness (mm): 0
 Base Type:
 Thickness (mm):
 Surface Moisture: Dry
 Moisture adjustment factor: Not adjusted

Layer Boundaries: Chainage 0.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	12.56	21	427	427
2	16.59	16	448	875

CBR Relationship:

TRL equation: $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$

Report produced by

Penetration Data Report

Project Name: DCP07

Chainage (km): 0.000

Direction:

Location/Offset: Lay-by / other

Cone Angle: 60 degrees

Zero Error (mm): 70

Test Date: 14/06/2021

Surface Type:

Thickness (mm):

Base Type:

Thickness (mm):

Surface Moisture:

Moisture adjustment factor: Not adjusted

Unpaved

0

Dry

Not adjusted

[illegible]

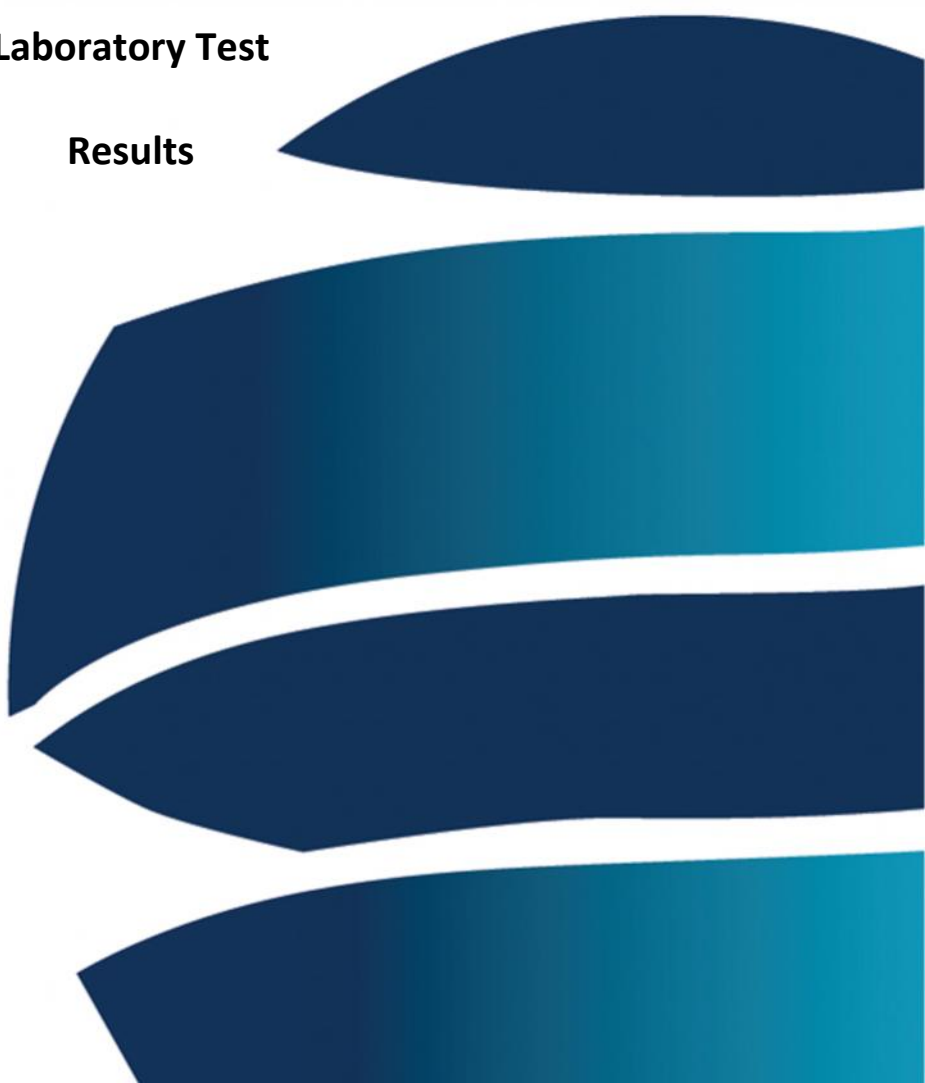


APPENDIX C

Geotechnical

Laboratory Test

Results



					Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results						
Job No.		Project Name					Programme				
30055		Station Road, Cowfold					Samples received		16/04/2021		
Project No.		Client					Schedule received		14/05/2021		
GE19071		GESL					Project started		14/05/20231		
							Testing Started		07/06/2021		
Hole No.	Sample				Soil Description	NMC %	Passing 425µm %	LL %	PL %	PI %	Remarks
	Ref	Top m	Base m	Type							
TP01	7	1.50		D	Orangish brown mottled light grey slightly sandy silty CLAY with occasional fm mudstone fragments	21	100	43	24	19	
TP02	5	1.00		D	Orangish brown mottled light grey slightly sandy silty CLAY with occasional fmc mudstone fragments	21	97	38	20	18	
TP03	5	1.50		D	Orangish brown mottled light grey slightly sandy silty CLAY	21	100	39	21	18	
TP04	5	1.00		D	Orangish brown mottled light grey slightly sandy silty CLAY with occasional fm mudstone fragments	22	98	38	19	19	
TP05	7	1.50		D	Orangish brown mottled light grey sandy silty CLAY with occasional fm mudstone fragments	19	98	37	23	14	
TP06	9	2.00		D	Orangish brown mottled bluish grey slightly sandy silty CLAY	19	100	38	21	17	
TP07	5	2.00		D	Greyish brown slightly sandy silty CLAY with numerous shale fragments	11					
TP08	4	1.50		D	Orangish brown mottled light grey slightly sandy silty CLAY with traces of fine rootlets	24	100	44	26	18	
TP09	2	1.00		D	Orangish brown mottled light grey slightly sandy silty CLAY	24	100	51	27	24	
TP10	2	1.00		D	Orangish brown slightly sandy silty CLAY	32	100	60	30	30	
TP10	4	2.00		D	Orangish brown mottled light grey sandy silty CLAY	17	100	46	24	22	
TP11	5	1.00		D	Orangish brown mottled bluish grey slightly sandy silty CLAY	21	100	54	27	27	

	Test Methods: BS1377: Part 2: 1990: Natural Moisture Content : clause 3.2 Atterberg Limits, clause 4.3 and 5.0 <i>These results only apply to the items tested</i>	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com	Checked and Approved Initials K.P. Date: 09/06/2021
	NOTE: The report shall not be reproduced except in full without authority of the laboratory		
	2519 Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		MSF-5-R1(b)

					Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results						
Job No.		Project Name					Programme				
30055		Station Road, Cowfold					Samples received		16/04/2021		
Project No.		Client					Schedule received		14/05/2021		
GE19071		GESL					Project started		14/05/20231		
							Testing Started		07/06/2021		
Hole No.	Sample				Soil Description	NMC %	Passing 425µm %	LL %	PL %	PI %	Remarks
	Ref	Top m	Base m	Type							
TP11	12	2.50		B	Brown slightly sandy silty CLAY with rare shale fragments	18					
TP12	4	2.00		D	Greyish brown sandy silty CLAY	19	100	50	28	22	
WS01	3	1.50		D	Orangish brown mottled bluish grey slightly sandy silty CLAY with calcareous deposits	20	100	42	24	18	
WS03	2	1.00		D	Orangish brown mottled light grey slightly sandy silty CLAY	20	100	37	22	15	
WS03	4	2.00		D	Grey mottled orangish brown silty CLAY	17	100	39	21	18	
WS04	3	1.50		D	Orangish brown mottled light grey slightly fine sandy silty CLAY	22	100	42	26	16	
WS04	5	2.50		D	Yellowish brown mottled light grey silty laminated CLAY	14	100	35	24	11	
WS05	5	1.50		D	Brown mottled light grey slightly sandy silty CLAY	32	100	55	31	24	
WS06	4	2.00		D	Greyish brown sandy silty CLAY	14	100	39	24	15	
WS07	3	1.50		D	Greyish brown slightly sandy silty CLAY	20	100	47	28	19	

	Test Methods: BS1377: Part 2: 1990: Natural Moisture Content : clause 3.2 Atterberg Limits: clause 4.3 and 5.0 <i>These results only apply to the items tested</i>	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com	Checked and Approved Initials K.P. Date: 09/06/2021
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	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		
	2519		MSF-5-R1(b)

					Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results						
Job No.		Project Name					Programme				
30055		Station Road, Cowfold					Samples received		16/04/2021		
Project No.		Client					Schedule received		14/05/2021		
GE19071		GESL					Project started		14/05/2021		
							Testing Started		28/05/2021		
Hole No.	Sample				Soil Description	NMC %	Passing 425µm %	LL %	PL %	PI %	Remarks
	Ref	Top m	Base m	Type							
TP01	7	1.50	-	D	Orangish brown mottled light grey slightly sandy silty CLAY with occasional fm mudstone fragments	21					
TP02	5	1.00	-	D	Orangish brown mottled light grey slightly sandy silty CLAY with occasional fmc mudstone fragments	21					
TP03	5	1.50	-	D	Orangish brown mottled light grey slightly sandy silty CLAY	21					
TP04	5	1.00	-	D	Orangish brown mottled light grey slightly sandy silty CLAY with occasional fm mudstone fragments	22					
TP05	7	1.50	-	D	Orangish brown mottled light grey sandy silty CLAY with occasional fm mudstone fragments	19					
TP06	9	2.00	-	D	Orangish brown mottled bluish grey slightly sandy silty CLAY	19					
TP08	4	1.50	-	D	Orangish brown mottled light grey slightly sandy silty CLAY with traces of fine rootlets	24					
TP09	2	1.00	-	D	Orangish brown mottled light grey slightly sandy silty CLAY	24					
TP10	2	1.00	-	D	Orangish brown slightly sandy silty CLAY	32					
TP10	4	2.00	-	D	Orangish brown mottled light grey sandy silty CLAY	17					
TP11	5	1.00	-	D	Orangish brown mottled bluish grey slightly sandy silty CLAY	21					
TP12	4	2.00	-	D	Greyish brown sandy silty CLAY	19					

	Test Methods: BS1377: Part 2: 1990: Natural Moisture Content : clause 3.2 Atterberg Limits: clause 4.3 and 5.0 <i>These results only apply to the items tested</i>	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com	Checked and Approved Initials J.P Date: 02/06/2021
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	2519 Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		MSF-5-R1(b)



Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results

Job No. 30055	Project Name Station Road, Cowfold	Programme	
		Samples received	16/04/2021
		Schedule received	14/05/2021
Project No. GE19071	Client GESL	Project started	14/05/2021
		Testing Started	28/05/2021

Hole No.	Sample				Soil Description	NMC %	Passing 425µm %	LL %	PL %	PI %	Remarks
	Ref	Top m	Base m	Type							
WS01	3	1.50	-	D	Orangish brown mottled bluish grey slightly sandy silty CLAY with calcareous deposits	20					
WS03	2	1.00	-	D	Orangish brown mottled light grey slightly sandy silty CLAY	20					
WS03	4	2.00	-	D	Grey mottled orangish brown silty CLAY	17					
WS04	3	1.50	-	D	Orangish brown mottled light grey slightly fine sandy silty CLAY	22					
WS04	5	2.50	-	D	Yellowish brown mottled light grey silty laminated CLAY	14					
WS05	5	1.50	-	D	Brown mottled light grey slightly sandy silty CLAY	32					
WS06	4	2.00	-	D	Greyish brown sandy silty CLAY	14					
WS07	3	1.50	-	D	Greyish brown slightly sandy silty CLAY	20					

 2519	Test Methods: BS1377: Part 2: 1990: Natural Moisture Content : clause 3.2 Atterberg Limits: clause 4.3 and 5.0 <i>These results only apply to the items tested</i> NOTE: The report shall not be reproduced except in full without authority of the laboratory	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com	Checked and Approved Initials J.P Date: 02/06/2021
	Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		MSF-5-R1(b)

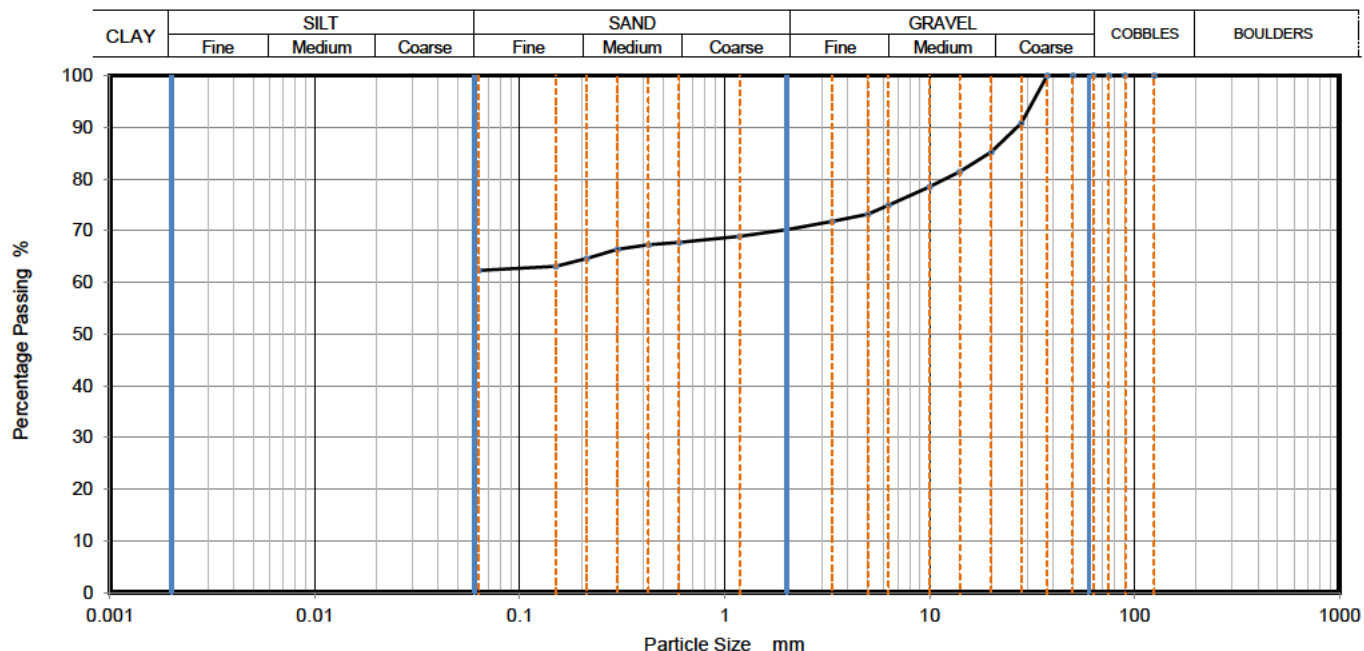


PARTICLE SIZE DISTRIBUTION

Job Ref	30055
Borehole/Pit No.	TP07
Sample No.	5
Depth Top	2.00 m
Depth Base	- m
Sample Type	D
Samples received	16/04/2021
Schedules received	14/05/2021
Project started	14/05/2021
Date tested	01/06/2021

Site Name	Station Road, Cowfold		
Project No.	GE19071	Client	GESL
Soil Description	Greyish brown slightly sandy silty CLAY with numerous shale fragments		
Test Method	BS1377:Part 2: 1990, clause 9.0		

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	91		
20	85		
14	81		
10	79		
6.3	75		
5	73		
3.35	72		
2	70		
1.18	69		
0.6	68		
0.425	67		
0.3	66		
0.212	65		
0.15	63		
0.063	62		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	29.8
Sand	7.9
Fines <0.063mm	62.3

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

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K4 Soils Laboratory

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Tel: 01923 711288

Checked and Approved

Initials: J.P

Date: 02/06/2021

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R3

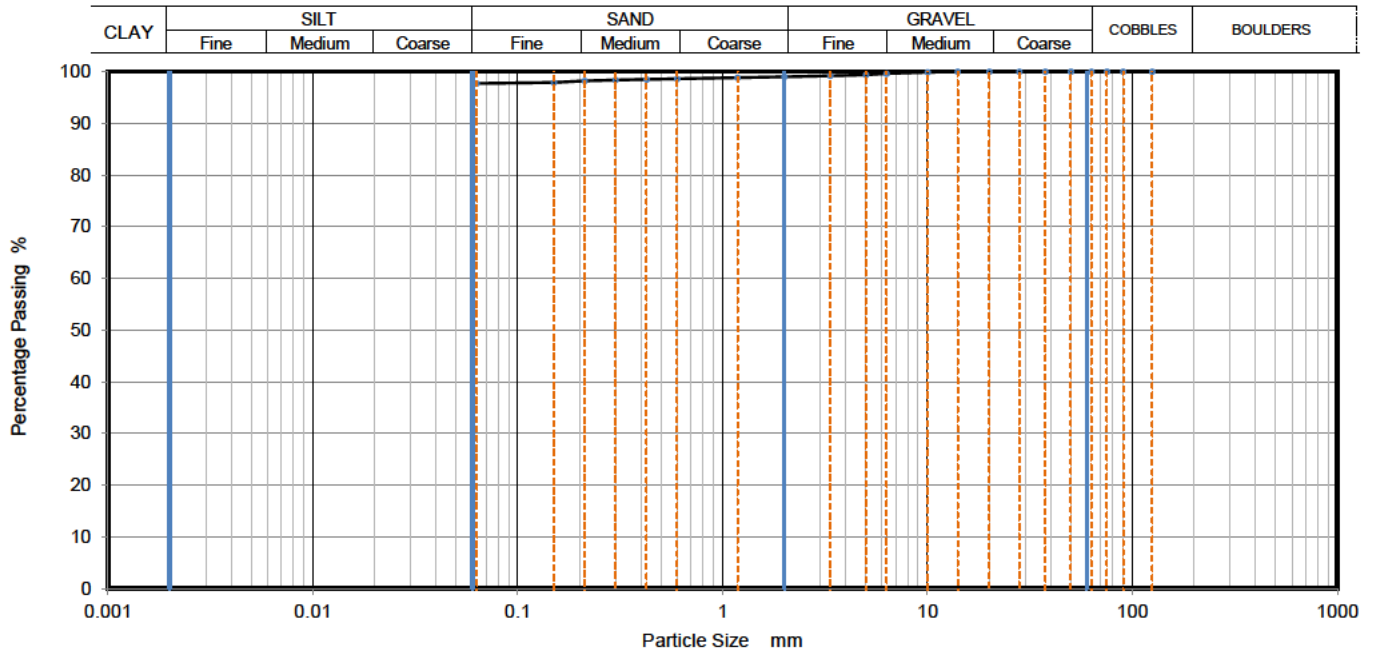


PARTICLE SIZE DISTRIBUTION

Job Ref	30055
Borehole/Pit No.	TP11
Sample No.	12
Depth Top	2.50 m
Depth Base	- m
Sample Type	B
Samples received	16/04/2021
Schedules received	14/05/2021
Project started	14/05/2021
Date tested	01/06/2021

Site Name	Station Road, Cowfold		
Project No.	GE19071	Client	GESL
Soil Description	Brown slightly sandy silty CLAY with rare shale fragments		
Test Method	BS1377:Part 2: 1990, clause 9.0		

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	99		
3.35	99		
2	99		
1.18	99		
0.6	99		
0.425	99		
0.3	98		
0.212	98		
0.15	98		
0.063	98		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	1.0
Sand	1.3
Fines <0.063mm	97.7

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks
Preparation and testing in accordance with BS1377 unless noted below

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K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU
Email: james@k4soils.com
Tel: 01923 711288

Checked and Approved

Initials: J.P
Date: 02/06/2021

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R3

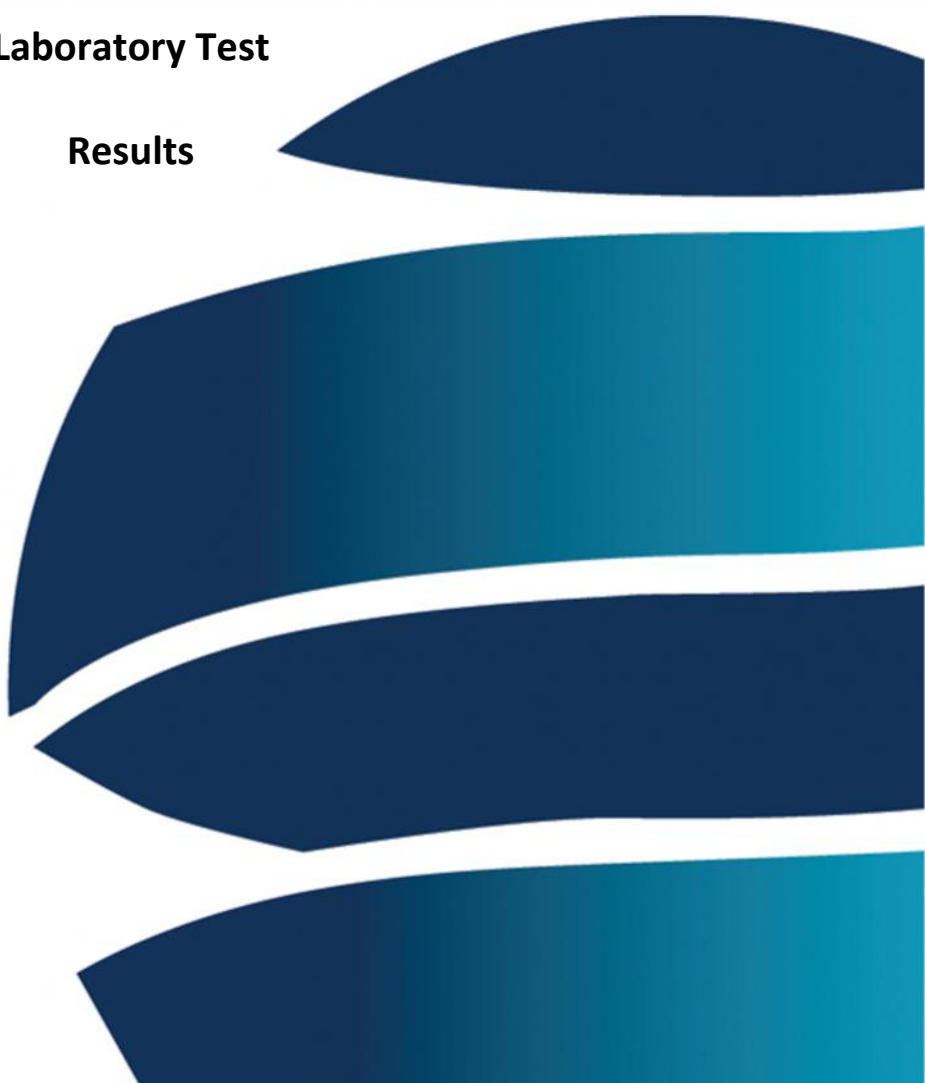


APPENDIX D

Geochemical

Laboratory Test

Results



Katie Brayne
Geo-Environmental Services Ltd
Unit 7, Danworth Farm
Cuckfield Road
Hurstpierpoint
West Sussex
BN6 9GL

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 : 21-70290

Project / Site name:	Station Road, Cowfold	Samples received on:	22/04/2021
Your job number:	GE19071	Samples instructed on/ Analysis started on:	22/04/2021
Your order number:	3899	Analysis completed by:	29/04/2021
Report Issue Number:	1	Report issued on:	29/04/2021
Samples Analysed:	21 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
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: 21-70290
Project / Site name: Station Road, Cowfold
Your Order No: 3899

Lab Sample Number				1845592	1845593	1845594	1845595	1845596
Sample Reference				WS01	WS01	WS02	WS03	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.50	0.20	0.20	0.20
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	14	17	16	24
Total mass of sample received	kg	0.001	NONE	0.90	1.2	1.0	1.0	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.8	8.0	7.1	6.6	5.8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	33	16	48	26	38
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.017	0.0079	0.024	0.013	0.019
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	16.5	7.9	23.8	12.8	19.2
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	13	6.0	23	27	22
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.2	0.3	2.8	1.8	2.8

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.12	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.26	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.43	< 0.05	< 0.05	< 0.05	0.21
Anthracene	mg/kg	0.05	MCERTS	0.17	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	2.1	< 0.05	< 0.05	< 0.05	0.77
Pyrene	mg/kg	0.05	MCERTS	1.9	< 0.05	< 0.05	< 0.05	0.78
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.5	< 0.05	< 0.05	< 0.05	0.53
Chrysene	mg/kg	0.05	MCERTS	1.5	< 0.05	< 0.05	< 0.05	0.65
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.9	< 0.05	< 0.05	< 0.05	0.90
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.88	< 0.05	< 0.05	< 0.05	0.28
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.7	< 0.05	< 0.05	< 0.05	0.67
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.98	< 0.05	< 0.05	< 0.05	0.43
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.30	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.1	< 0.05	< 0.05	< 0.05	0.53

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	14.7	< 0.80	< 0.80	< 0.80	5.75
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Analytical Report Number: 21-70290
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1845592	1845593	1845594	1845595	1845596
Sample Reference				WS01	WS01	WS02	WS03	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.50	0.20	0.20	0.20
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	19	16	18	17
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	1.2	1.1	1.1	1.3
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	0.7	1.9	1.9	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	27	25	26	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22	19	23	52	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	52	20	46	39	49
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	21	33	21	20	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	43	40	40	43	53
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	73	63	68	66	80

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	3.6
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	18	< 10	< 10	< 10	11
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	28	< 10	< 10	< 10	21

TPH (C10 - C25)	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH (C25 - C40)	mg/kg	10	MCERTS	-	< 10	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 21-70290
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1845592	1845593	1845594	1845595	1845596
Sample Reference				WS01	WS01	WS02	WS03	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.50	0.20	0.20	0.20
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Bifenthrin	µg/kg	10	NONE	-	-	-	-	-
Carbophenothion	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	-
Cypermethrin (Sum)	µg/kg	10	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	-	-	-	-	-
Deltamethrin	µg/kg	10	NONE	-	-	-	-	-
Demeton-O	µg/kg	10	NONE	-	-	-	-	-
Demeton-S	µg/kg	10	NONE	-	-	-	-	-
Diazinon	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dichlorvos	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Dimethoate	µg/kg	10	NONE	-	-	-	-	-
Dimethylinphos	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	-	-	-	-	-
Endrin aldehyde	µg/kg	10	NONE	-	-	-	-	-
Endrin ketone	µg/kg	10	NONE	-	-	-	-	-
Ethion	µg/kg	10	NONE	-	-	-	-	-
Etrifos	µg/kg	10	NONE	-	-	-	-	-
Fenitrothion	µg/kg	10	NONE	-	-	-	-	-
Fenthion	µg/kg	10	NONE	-	-	-	-	-
Fenvalerate (Sum)	µg/kg	10	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	-	-	-	-	-
Malathion	µg/kg	10	NONE	-	-	-	-	-
Methacrifos	µg/kg	10	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	-
Omethoate	µg/kg	20	NONE	-	-	-	-	-
Parathion	µg/kg	10	NONE	-	-	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 21-70290
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1845592	1845593	1845594	1845595	1845596
Sample Reference				WS01	WS01	WS02	WS03	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.50	0.20	0.20	0.20
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Permethrin, Cis-	µg/kg	10	NONE	-	-	-	-	-
Permethrin, Trans-	µg/kg	10	NONE	-	-	-	-	-
Phorate	µg/kg	10	NONE	-	-	-	-	-
Phosalone	µg/kg	10	NONE	-	-	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	-
Propetamphos	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	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

Analytical Report Number: 21-70290
Project / Site name: Station Road, Cowfold
Your Order No: 3899

Lab Sample Number				1845597	1845598	1845599	1845600	1845601
Sample Reference				WS05	WS06	WS06	WS07	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.20	0.70	0.20	0.10
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	19	21	18	12
Total mass of sample received	kg	0.001	NONE	0.90	1.0	0.70	0.70	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.1	5.9	6.5	7.2	7.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	53	42	48	28	36
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.027	0.021	0.024	0.014	0.018
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	26.6	20.8	23.8	14.1	17.8
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	3.4	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	23	7.4	21	15	15
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Organic Carbon (TOC)	%	0.1	MCERTS	3.2	3.4	0.6	1.4	2.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.31	0.31	< 0.05	0.46	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.27	0.20	< 0.05	0.36	0.68
Anthracene	mg/kg	0.05	MCERTS	0.11	< 0.05	< 0.05	< 0.05	0.14
Fluoranthene	mg/kg	0.05	MCERTS	0.94	0.72	< 0.05	0.83	1.9
Pyrene	mg/kg	0.05	MCERTS	0.91	0.73	< 0.05	0.73	1.6
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.66	0.54	< 0.05	0.49	1.0
Chrysene	mg/kg	0.05	MCERTS	0.72	0.62	< 0.05	0.53	1.0
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.0	1.1	< 0.05	0.67	1.4
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.31	0.28	< 0.05	0.23	0.71
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.77	0.74	< 0.05	0.51	1.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.47	0.79	< 0.05	0.35	0.67
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.55	0.86	< 0.05	0.34	0.80

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	7.05	6.92	< 0.80	5.50	11.1
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Analytical Report Number: 21-70290
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1845597	1845598	1845599	1845600	1845601
Sample Reference				WS05	WS06	WS06	WS07	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.20	0.70	0.20	0.10
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	19	27	20	15
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	1.3	1.3	1.5	0.98
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	1.9	0.2	0.7	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29	32	42	30	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	30	30	33	36	30
Lead (aqua regia extractable)	mg/kg	1	MCERTS	51	63	24	100	42
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	18	20	19	19	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	47	53	62	52	36
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	82	82	69	110	77

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	11	< 10	< 10	17
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	12	14	< 10	< 10	23

TPH (C10 - C25)	mg/kg	10	MCERTS	< 10	-	-	-	-
TPH (C25 - C40)	mg/kg	10	MCERTS	< 10	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	< 10
Aldrin	µg/kg	10	NONE	-	-	-	-	< 10
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	< 10
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	< 10
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	< 10

Analytical Report Number: 21-70290
Project / Site name: Station Road, Cowfold
Your Order No: 3899

Lab Sample Number				1845597	1845598	1845599	1845600	1845601
Sample Reference				WS05	WS06	WS06	WS07	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.20	0.70	0.20	0.10
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
BHC-beta	µg/kg	10	NONE	-	-	-	-	< 10
BHC-delta	µg/kg	10	NONE	-	-	-	-	< 10
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	< 10
Bifenthrin	µg/kg	10	NONE	-	-	-	-	< 10
Carbophenothion	µg/kg	10	NONE	-	-	-	-	< 10
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	< 10
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	< 10
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	< 10
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	< 20
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	< 10
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	< 10
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
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
Deltamethrin	µg/kg	10	NONE	-	-	-	-	< 10
Demeton-O	µg/kg	10	NONE	-	-	-	-	< 10
Demeton-S	µg/kg	10	NONE	-	-	-	-	< 10
Diazinon	µg/kg	10	NONE	-	-	-	-	< 10
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	< 10
Dichlorvos	µg/kg	10	NONE	-	-	-	-	< 10
Dieldrin	µg/kg	10	NONE	-	-	-	-	< 10
Dimethoate	µg/kg	10	NONE	-	-	-	-	< 10
Dimethyvinphos	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
Endrin aldehyde	µg/kg	10	NONE	-	-	-	-	< 10
Endrin ketone	µg/kg	10	NONE	-	-	-	-	< 10
Ethion	µg/kg	10	NONE	-	-	-	-	< 10
Etrinfos	µg/kg	10	NONE	-	-	-	-	< 10
Fenitrothion	µg/kg	10	NONE	-	-	-	-	< 10
Fenthion	µg/kg	10	NONE	-	-	-	-	< 10
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
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
Malathion	µg/kg	10	NONE	-	-	-	-	< 10
Methacrifos	µg/kg	10	NONE	-	-	-	-	< 10
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	< 20
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	< 10
Omethoate	µg/kg	20	NONE	-	-	-	-	< 20
Parathion	µg/kg	10	NONE	-	-	-	-	< 10
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	< 10
Pendimethalin	µg/kg	10	NONE	-	-	-	-	< 10
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10

Analytical Report Number: 21-70290
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1845597	1845598	1845599	1845600	1845601
Sample Reference				WS05	WS06	WS06	WS07	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.20	0.70	0.20	0.10
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Permethrin, Cis-	µg/kg	10	NONE	-	-	-	-	< 10
Permethrin, Trans-	µg/kg	10	NONE	-	-	-	-	< 10
Phorate	µg/kg	10	NONE	-	-	-	-	< 10
Phosalone	µg/kg	10	NONE	-	-	-	-	< 10
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	< 10
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	< 10
Propetamphos	µg/kg	10	NONE	-	-	-	-	< 10
Propyzamide	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

Analytical Report Number: 21-70290
Project / Site name: Station Road, Cowfold
Your Order No: 3899

Lab Sample Number				1845602	1845603	1845604	1845605	1845606
Sample Reference				TP02	TP03	TP04	TP05	TP06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	15	15	18	16
Total mass of sample received	kg	0.001	NONE	1.0	0.90	1.0	1.2	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	7.9	7.6	7.0	7.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	17	45	23	37	35
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0085	0.023	0.012	0.019	0.018
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	8.5	22.5	11.7	18.5	17.5
Sulphide	mg/kg	1	MCERTS	1.5	3.5	< 1.0	1.9	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	7.0	29	4.9	7.3	8.7
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Organic Carbon (TOC)	%	0.1	MCERTS	2.6	1.6	1.6	1.4	1.7

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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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	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.20	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.08	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.54	< 0.05	1.2	0.25
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.48	< 0.05	1.2	0.23
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.42	< 0.05	0.92	0.19
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.44	< 0.05	0.98	0.23
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.63	< 0.05	1.1	0.28
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.19	< 0.05	0.60	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.47	< 0.05	1.0	0.22
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.26	< 0.05	0.56	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.32	< 0.05	0.56	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	3.75	< 0.80	8.33	1.40
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Analytical Report Number: 21-70290
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1845602	1845603	1845604	1845605	1845606
Sample Reference				TP02	TP03	TP04	TP05	TP06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	23	19	17	15	23
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	1.2	1.1	1.2	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	1.0	1.6	1.0	1.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25	26	25	28	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	29	29	34	22	28
Lead (aqua regia extractable)	mg/kg	1	MCERTS	33	32	46	30	38
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	29	28	23	18	26
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	40	42	41	45	43
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	79	81	73	68	80

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	< 0.1	-
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	13	12
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	21	17

TPH (C10 - C25)	mg/kg	10	MCERTS	-	< 10	< 10	12	-
TPH (C25 - C40)	mg/kg	10	MCERTS	-	< 10	< 10	< 10	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	< 10
Aldrin	µg/kg	10	NONE	-	-	-	-	< 10
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	< 10
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	< 10
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	< 10

Analytical Report Number: 21-70290
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1845602	1845603	1845604	1845605	1845606
Sample Reference				TP02	TP03	TP04	TP05	TP06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
BHC-beta	µg/kg	10	NONE	-	-	-	-	< 10
BHC-delta	µg/kg	10	NONE	-	-	-	-	< 10
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	< 10
Bifenthrin	µg/kg	10	NONE	-	-	-	-	< 10
Carbophenothion	µg/kg	10	NONE	-	-	-	-	< 10
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	< 10
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	< 10
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	< 10
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	< 20
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	< 10
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	-	-	< 10
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
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
Deltamethrin	µg/kg	10	NONE	-	-	-	-	< 10
Demeton-O	µg/kg	10	NONE	-	-	-	-	< 10
Demeton-S	µg/kg	10	NONE	-	-	-	-	< 10
Diazinon	µg/kg	10	NONE	-	-	-	-	< 10
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	< 10
Dichlorvos	µg/kg	10	NONE	-	-	-	-	< 10
Dieldrin	µg/kg	10	NONE	-	-	-	-	< 10
Dimethoate	µg/kg	10	NONE	-	-	-	-	< 10
Dimethyvinphos	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
Endrin aldehyde	µg/kg	10	NONE	-	-	-	-	< 10
Endrin ketone	µg/kg	10	NONE	-	-	-	-	< 10
Ethion	µg/kg	10	NONE	-	-	-	-	< 10
Etrinfos	µg/kg	10	NONE	-	-	-	-	< 10
Fenitrothion	µg/kg	10	NONE	-	-	-	-	< 10
Fenthion	µg/kg	10	NONE	-	-	-	-	< 10
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
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
Malathion	µg/kg	10	NONE	-	-	-	-	< 10
Methacrifos	µg/kg	10	NONE	-	-	-	-	< 10
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	< 20
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	< 10
Omethoate	µg/kg	20	NONE	-	-	-	-	< 20
Parathion	µg/kg	10	NONE	-	-	-	-	< 10
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	< 10
Pendimethalin	µg/kg	10	NONE	-	-	-	-	< 10
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10

Analytical Report Number: 21-70290
Project / Site name: Station Road, Cowfold
Your Order No: 3899

Lab Sample Number				1845602	1845603	1845604	1845605	1845606
Sample Reference				TP02	TP03	TP04	TP05	TP06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Permethrin, Cis-	µg/kg	10	NONE	-	-	-	-	< 10
Permethrin, Trans-	µg/kg	10	NONE	-	-	-	-	< 10
Phorate	µg/kg	10	NONE	-	-	-	-	< 10
Phosalone	µg/kg	10	NONE	-	-	-	-	< 10
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	< 10
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	< 10
Propetamphos	µg/kg	10	NONE	-	-	-	-	< 10
Propyzamide	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

Analytical Report Number: 21-70290
Project / Site name: Station Road, Cowfold
Your Order No: 3899

Lab Sample Number				1845607	1845608	1845609	1845610	1845611
Sample Reference				TP07	TP08	TP09	TP10	TP11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.30	0.20	0.20	0.10
Date Sampled				14/04/2021	14/04/2021	15/04/2021	15/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	15	19	15	16
Total mass of sample received	kg	0.001	NONE	0.90	0.70	0.90	0.70	1.2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.4	7.5	7.7	6.2	7.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	200	250	65	40	180
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.099	0.13	0.032	0.020	0.092
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	98.5	127	32.3	19.9	92.3
Sulphide	mg/kg	1	MCERTS	< 1.0	2.4	3.3	< 1.0	3.2
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	19	15	16	19	7.8
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	8.0
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.1	2.0	1.8	1.8	1.8

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.43	0.20	< 0.05	0.29
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.17
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.10
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.14
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	1.1	0.30	< 0.05	1.3
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.28	< 0.05	< 0.05	0.38
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.4	0.79	< 0.05	3.2
Pyrene	mg/kg	0.05	MCERTS	< 0.05	1.2	0.72	< 0.05	2.8
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.74	0.54	< 0.05	1.8
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.79	0.59	< 0.05	1.6
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.84	0.66	< 0.05	2.0
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.48	0.35	< 0.05	0.88
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.77	0.56	< 0.05	1.7
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.50	0.30	< 0.05	0.90
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.26
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.59	0.35	< 0.05	1.1

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	9.13	5.36	< 0.80	18.5
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Analytical Report Number: 21-70290
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1845607	1845608	1845609	1845610	1845611
Sample Reference				TP07	TP08	TP09	TP10	TP11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.30	0.20	0.20	0.10
Date Sampled				14/04/2021	14/04/2021	15/04/2021	15/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	61	17	16	19	15
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.7	1.5	1.4	1.2	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2	2.0	0.4	0.9	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	55	36	34	33	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	44	23	23	23	37
Lead (aqua regia extractable)	mg/kg	1	MCERTS	26	50	45	49	99
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	69	25	23	20	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.5	< 1.0	< 1.0	1.6	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	66	57	54	53	45
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	94	81	74	120

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-	< 0.1	-	-	-
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	3.0	3.1	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	8.6	7.9	< 2.0	6.6
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	12	< 10	< 10	19
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	19	14	< 10	39
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	42	33	16	65

TPH (C10 - C25)	mg/kg	10	MCERTS	-	30	-	-	-
TPH (C25 - C40)	mg/kg	10	MCERTS	-	20	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	< 10	-	< 10
Aldrin	µg/kg	10	NONE	-	-	< 10	-	< 10
Azinphos-ethyl	µg/kg	10	NONE	-	-	< 10	-	< 10
Azinphos-methyl	µg/kg	10	NONE	-	-	< 10	-	< 10
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	< 10	-	< 10

Analytical Report Number: 21-70290
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1845607	1845608	1845609	1845610	1845611
Sample Reference				TP07	TP08	TP09	TP10	TP11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.30	0.20	0.20	0.10
Date Sampled				14/04/2021	14/04/2021	15/04/2021	15/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
BHC-beta	µg/kg	10	NONE	-	-	< 10	-	< 10
BHC-delta	µg/kg	10	NONE	-	-	< 10	-	< 10
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	< 10	-	< 10
Bifenthrin	µg/kg	10	NONE	-	-	< 10	-	< 10
Carbophenothion	µg/kg	10	NONE	-	-	< 10	-	< 10
Chlordane-cis	µg/kg	10	NONE	-	-	< 10	-	< 10
Chlordane-trans	µg/kg	10	NONE	-	-	< 10	-	< 10
Chlorfenvinphos	µg/kg	10	NONE	-	-	< 10	-	< 10
Chlorothalonil	µg/kg	20	NONE	-	-	< 20	-	< 20
Chlorpyrifos	µg/kg	10	NONE	-	-	< 10	-	< 10
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-	< 10	-	< 10
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-	< 10	-	< 10
Cypermethrin (Sum)	µg/kg	10	NONE	-	-	< 10	-	< 10
DDD-o,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
DDD-p,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
DDE-o,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
DDE-p,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
DDT-o,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
DDT-p,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
Deltamethrin	µg/kg	10	NONE	-	-	< 10	-	< 10
Demeton-O	µg/kg	10	NONE	-	-	< 10	-	< 10
Demeton-S	µg/kg	10	NONE	-	-	< 10	-	< 10
Diazinon	µg/kg	10	NONE	-	-	< 10	-	< 10
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	< 10	-	< 10
Dichlorvos	µg/kg	10	NONE	-	-	< 10	-	< 10
Dieldrin	µg/kg	10	NONE	-	-	< 10	-	< 10
Dimethoate	µg/kg	10	NONE	-	-	< 10	-	< 10
Dimethylvinphos	µg/kg	10	NONE	-	-	< 10	-	< 10
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	< 10	-	< 10
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	< 10	-	< 10
Endosulfan sulfate	µg/kg	10	NONE	-	-	< 10	-	< 10
Endrin	µg/kg	20	NONE	-	-	< 20	-	< 20
Endrin aldehyde	µg/kg	10	NONE	-	-	< 10	-	< 10
Endrin ketone	µg/kg	10	NONE	-	-	< 10	-	< 10
Ethion	µg/kg	10	NONE	-	-	< 10	-	< 10
Etrinfos	µg/kg	10	NONE	-	-	< 10	-	< 10
Fenitrothion	µg/kg	10	NONE	-	-	< 10	-	< 10
Fenthion	µg/kg	10	NONE	-	-	< 10	-	< 10
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	< 10	-	< 10
Heptachlor	µg/kg	10	NONE	-	-	< 10	-	< 10
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	< 10	-	< 10
Hexachlorobenzene	µg/kg	10	NONE	-	-	< 10	-	< 10
Hexachlorobutadiene	µg/kg	10	NONE	-	-	< 10	-	< 10
Isodrin	µg/kg	20	NONE	-	-	< 20	-	< 20
Malathion	µg/kg	10	NONE	-	-	< 10	-	< 10
Methacrifos	µg/kg	10	NONE	-	-	< 10	-	< 10
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	< 20	-	< 20
Mevinphos, E+Z	µg/kg	10	NONE	-	-	< 10	-	< 10
Omethoate	µg/kg	20	NONE	-	-	< 20	-	< 20
Parathion	µg/kg	10	NONE	-	-	< 10	-	< 10
Parathion-methyl	µg/kg	10	NONE	-	-	< 10	-	< 10
Pendimethalin	µg/kg	10	NONE	-	-	< 10	-	< 10
Pentachlorobenzene	µg/kg	10	NONE	-	-	< 10	-	< 10

Analytical Report Number: 21-70290
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1845607	1845608	1845609	1845610	1845611
Sample Reference				TP07	TP08	TP09	TP10	TP11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.30	0.20	0.20	0.10
Date Sampled				14/04/2021	14/04/2021	15/04/2021	15/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Permethrin, Cis-	µg/kg	10	NONE	-	-	< 10	-	< 10
Permethrin, Trans-	µg/kg	10	NONE	-	-	< 10	-	< 10
Phorate	µg/kg	10	NONE	-	-	< 10	-	< 10
Phosalone	µg/kg	10	NONE	-	-	< 10	-	< 10
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	< 10	-	< 10
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	< 10	-	< 10
Pirimiphos-methyl	µg/kg	10	NONE	-	-	< 10	-	< 10
Propetamphos	µg/kg	10	NONE	-	-	< 10	-	< 10
Propyzamide	µg/kg	10	NONE	-	-	< 10	-	< 10
Tecnazene	µg/kg	10	NONE	-	-	< 10	-	< 10
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	< 10	-	< 10
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	< 10	-	< 10
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	< 10	-	< 10
Trifluralin	µg/kg	10	NONE	-	-	< 10	-	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-70290
Project / Site name: Station Road, Cowfold
Your Order No: 3899

Lab Sample Number				1845612
Sample Reference				TP11
Sample Number				None Supplied
Depth (m)				0.50
Date Sampled				14/04/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	17
Total mass of sample received	kg	0.001	NONE	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	76
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.038
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	37.9
Sulphide	mg/kg	1	MCERTS	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	6.2
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80
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Analytical Report Number: 21-70290
Project / Site name: Station Road, Cowfold
Your Order No: 3899

Lab Sample Number				1845612
Sample Reference				TP11
Sample Number				None Supplied
Depth (m)				0.50
Date Sampled				14/04/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	21
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	39
Copper (aqua regia extractable)	mg/kg	1	MCERTS	31
Lead (aqua regia extractable)	mg/kg	1	MCERTS	27
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	35
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	52
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	95

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10

TPH (C10 - C25)	mg/kg	10	MCERTS	-
TPH (C25 - C40)	mg/kg	10	MCERTS	-

Pesticides

Alachlor	µg/kg	10	NONE	< 10
Aldrin	µg/kg	10	NONE	< 10
Azinphos-ethyl	µg/kg	10	NONE	< 10
Azinphos-methyl	µg/kg	10	NONE	< 10
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	< 10

Analytical Report Number: 21-70290
Project / Site name: Station Road, Cowfold
Your Order No: 3899

Lab Sample Number				1845612
Sample Reference				TP11
Sample Number				None Supplied
Depth (m)				0.50
Date Sampled				14/04/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
BHC-beta	µg/kg	10	NONE	< 10
BHC-delta	µg/kg	10	NONE	< 10
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	< 10
Bifenthrin	µg/kg	10	NONE	< 10
Carbophenothion	µg/kg	10	NONE	< 10
Chlordane-cis	µg/kg	10	NONE	< 10
Chlordane-trans	µg/kg	10	NONE	< 10
Chlorfenvinphos	µg/kg	10	NONE	< 10
Chlorothalonil	µg/kg	20	NONE	< 20
Chlorpyrifos	µg/kg	10	NONE	< 10
Cyfluthrin (Sum)	µg/kg	10	NONE	< 10
Cyhalothrin (Lambda)	µg/kg	10	NONE	< 10
Cypermethrin (Sum)	µg/kg	10	NONE	< 10
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
Deltamethrin	µg/kg	10	NONE	< 10
Demeton-O	µg/kg	10	NONE	< 10
Demeton-S	µg/kg	10	NONE	< 10
Diazinon	µg/kg	10	NONE	< 10
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	< 10
Dichlorvos	µg/kg	10	NONE	< 10
Dieldrin	µg/kg	10	NONE	< 10
Dimethoate	µg/kg	10	NONE	< 10
Dimethylinphos	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
Endrin aldehyde	µg/kg	10	NONE	< 10
Endrin ketone	µg/kg	10	NONE	< 10
Ethion	µg/kg	10	NONE	< 10
Etrinfos	µg/kg	10	NONE	< 10
Fenitrothion	µg/kg	10	NONE	< 10
Fenthion	µg/kg	10	NONE	< 10
Fenvalerate (Sum)	µg/kg	10	NONE	< 10
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
Malathion	µg/kg	10	NONE	< 10
Methacrifos	µg/kg	10	NONE	< 10
Methoxychlor, p,p'-	µg/kg	20	NONE	< 20
Mevinphos, E+Z	µg/kg	10	NONE	< 10
Omethoate	µg/kg	20	NONE	< 20
Parathion	µg/kg	10	NONE	< 10
Parathion-methyl	µg/kg	10	NONE	< 10
Pendimethalin	µg/kg	10	NONE	< 10
Pentachlorobenzene	µg/kg	10	NONE	< 10

Analytical Report Number: 21-70290
Project / Site name: Station Road, Cowfold
Your Order No: 3899

Lab Sample Number				1845612
Sample Reference				TP11
Sample Number				None Supplied
Depth (m)				0.50
Date Sampled				14/04/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Permethrin, Cis-	µg/kg	10	NONE	< 10
Permethrin, Trans-	µg/kg	10	NONE	< 10
Phorate	µg/kg	10	NONE	< 10
Phosalone	µg/kg	10	NONE	< 10
Phosphamidon (Sum)	µg/kg	10	NONE	< 10
Pirimiphos-ethyl	µg/kg	10	NONE	< 10
Pirimiphos-methyl	µg/kg	10	NONE	< 10
Propetamphos	µg/kg	10	NONE	< 10
Propyzamide	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

Analytical Report Number : 21-70290

Project / Site name: Station Road, Cowfold

* 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 *
1845592	WS01	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
1845593	WS01	None Supplied	0.5	Brown clay and sand with gravel and vegetation.
1845594	WS02	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
1845595	WS03	None Supplied	0.2	Brown loam and clay with vegetation and gravel
1845596	WS04	None Supplied	0.2	Brown loam and clay with vegetation and gravel
1845597	WS05	None Supplied	0.2	Brown loam and clay with vegetation and gravel
1845598	WS06	None Supplied	0.2	Brown clay with vegetation.
1845599	WS06	None Supplied	0.7	Brown clay.
1845600	WS07	None Supplied	0.2	Brown clay with vegetation.
1845601	TP01	None Supplied	0.1	Brown sandy clay with vegetation and gravel
1845602	TP02	None Supplied	0.1	Brown sandy clay with vegetation and gravel
1845603	TP03	None Supplied	0.1	Brown sandy clay with vegetation and gravel
1845604	TP04	None Supplied	0.1	Brown sandy clay with vegetation and gravel
1845605	TP05	None Supplied	0.1	Brown sandy clay with vegetation and gravel
1845606	TP06	None Supplied	0.1	Brown sandy clay with vegetation and gravel
1845607	TP07	None Supplied	0.4	Brown clay.
1845608	TP08	None Supplied	0.3	Brown clay with vegetation.
1845609	TP09	None Supplied	0.2	Brown clay with vegetation.
1845610	TP10	None Supplied	0.2	Brown clay with vegetation.
1845611	TP11	None Supplied	0.1	Brown loam and clay with vegetation.
1845612	TP11	None Supplied	0.5	Brown clay.

Analytical Report Number : 21-70290

Project / Site name: Station Road, Cowfold

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion 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
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC.	In-house method based on Secondsite Property Holdings Guidance for Assessing and Managing Potential	L021-PL	D	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
PRO (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	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
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
Total organic carbon (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
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

Analytical Report Number : 21-70290

Project / Site name: Station Road, Cowfold

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH Oils (Soils)	Determination of extractable hydrocarbons in soil by GC-MS/FID.	In-house method with silica gel split/clean up.	L076-PL	D	MCERTS
DRO (Soil)	Determination of extractable hydrocarbons in soil by GC-MS/FID.	In-house method with silica gel split/clean up.	L076-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Pesticides by GC-MS/MS	Determination of Pesticides in soil by GC MS/MS	In-house method	L055B-PL	W	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' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Sample Deviation Report

Analytical Report Number : 21-70290

Project / Site name: Station Road, Cowfold

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP01	None Supplied	S	1845601	c	Sulphide in soil	L010-PL	c
TP01	None Supplied	S	1845601	c	Total cyanide in soil	L080-PL	c
TP02	None Supplied	S	1845602	c	Sulphide in soil	L010-PL	c
TP02	None Supplied	S	1845602	c	Total cyanide in soil	L080-PL	c
TP03	None Supplied	S	1845603	c	Sulphide in soil	L010-PL	c
TP03	None Supplied	S	1845603	c	Total cyanide in soil	L080-PL	c
TP04	None Supplied	S	1845604	c	Sulphide in soil	L010-PL	c
TP04	None Supplied	S	1845604	c	Total cyanide in soil	L080-PL	c
TP05	None Supplied	S	1845605	c	Sulphide in soil	L010-PL	c
TP05	None Supplied	S	1845605	c	Total cyanide in soil	L080-PL	c
TP06	None Supplied	S	1845606	c	Sulphide in soil	L010-PL	c
TP06	None Supplied	S	1845606	c	Total cyanide in soil	L080-PL	c
TP07	None Supplied	S	1845607	c	Sulphide in soil	L010-PL	c
TP07	None Supplied	S	1845607	c	Total cyanide in soil	L080-PL	c
TP08	None Supplied	S	1845608	c	Sulphide in soil	L010-PL	c
TP08	None Supplied	S	1845608	c	Total cyanide in soil	L080-PL	c
TP09	None Supplied	S	1845609	c	Sulphide in soil	L010-PL	c
TP09	None Supplied	S	1845609	c	Total cyanide in soil	L080-PL	c
TP10	None Supplied	S	1845610	c	Sulphide in soil	L010-PL	c
TP10	None Supplied	S	1845610	c	Total cyanide in soil	L080-PL	c
TP11	None Supplied	S	1845611	c	Sulphide in soil	L010-PL	c
TP11	None Supplied	S	1845611	c	Total cyanide in soil	L080-PL	c
TP11	None Supplied	S	1845612	c	Sulphide in soil	L010-PL	c
TP11	None Supplied	S	1845612	c	Total cyanide in soil	L080-PL	c
WS01	None Supplied	S	1845592	c	Sulphide in soil	L010-PL	c
WS01	None Supplied	S	1845592	c	Total cyanide in soil	L080-PL	c
WS01	None Supplied	S	1845593	c	Sulphide in soil	L010-PL	c
WS01	None Supplied	S	1845593	c	Total cyanide in soil	L080-PL	c
WS02	None Supplied	S	1845594	c	Sulphide in soil	L010-PL	c
WS02	None Supplied	S	1845594	c	Total cyanide in soil	L080-PL	c
WS03	None Supplied	S	1845595	c	Sulphide in soil	L010-PL	c
WS03	None Supplied	S	1845595	c	Total cyanide in soil	L080-PL	c
WS04	None Supplied	S	1845596	c	Sulphide in soil	L010-PL	c
WS04	None Supplied	S	1845596	c	Total cyanide in soil	L080-PL	c
WS05	None Supplied	S	1845597	c	Sulphide in soil	L010-PL	c
WS05	None Supplied	S	1845597	c	Total cyanide in soil	L080-PL	c
WS06	None Supplied	S	1845598	c	Sulphide in soil	L010-PL	c
WS06	None Supplied	S	1845598	c	Total cyanide in soil	L080-PL	c
WS06	None Supplied	S	1845599	c	Sulphide in soil	L010-PL	c
WS06	None Supplied	S	1845599	c	Total cyanide in soil	L080-PL	c
WS07	None Supplied	S	1845600	c	Sulphide in soil	L010-PL	c
WS07	None Supplied	S	1845600	c	Total cyanide in soil	L080-PL	c

Katie Brayne

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Cuckfield Road
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■ [REDACTED]

e: [REDACTED]

Analytical Report Number : 21-70292

Project / Site name:	Station Road, Cowfold	Samples received on:	22/04/2021
Your job number:	GE19071	Samples instructed on/ Analysis started on:	22/04/2021
Your order number:	3899	Analysis completed by:	29/04/2021
Report Issue Number:	1	Report issued on:	29/04/2021
Samples Analysed:	3 leachate samples - 3 soil samples		

Signed: [REDACTED]

Rachel Bradley
Deputy Quality Manager
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.

i2 Analytical

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Waste Acceptance Criteria Analytical Results								
Report No:	21-70292							
					Client: GESL			
Location	Station Road, Cowfold							
Lab Reference (Sample Number)	1845617 / 1845618				Landfill Waste Acceptance Criteria			
					Limits			
Sampling Date	14/04/2021				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID	WS02							
Depth (m)	0.50							
Solid Waste Analysis								
TOC (%)**	< 0.1				3%	5%	6%	
Loss on Ignition (%) **	3.0				--	--	10%	
BTEX (µg/kg) **	< 10				6000	--	--	
Sum of PCBs (mg/kg) **	< 0.007				1	--	--	
Mineral Oil (mg/kg)	< 10				500	--	--	
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--	
pH (units)**	8.3				--	>6	--	
Acid Neutralisation Capacity (mol / kg)	6.2				--	To be evaluated	To be evaluated	
Eluate Analysis								
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test			
	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic *	< 0.0010			< 0.0100	0.5	2	25	
Barium *	0.0070			0.0594	20	100	300	
Cadmium *	< 0.0001			< 0.0008	0.04	1	5	
Chromium *	0.0017			0.014	0.5	10	70	
Copper *	0.0026			0.022	2	50	100	
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2	
Molybdenum *	0.0008			0.0064	0.5	10	30	
Nickel *	0.0025			0.022	0.4	10	40	
Lead *	< 0.0010			< 0.010	0.5	10	50	
Antimony *	< 0.0017			< 0.017	0.06	0.7	5	
Selenium *	< 0.0040			< 0.040	0.1	0.5	7	
Zinc *	0.0027			0.023	4	50	200	
Chloride *	1.6			13	800	15000	25000	
Fluoride	0.65			5.5	10	150	500	
Sulphate *	2.6			22	1000	20000	50000	
TDS*	62			530	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-	
DOC	7.50			63.6	500	800	1000	
Leach Test Information								
Stone Content (%)	< 0.1							
Sample Mass (kg)	1.0							
Dry Matter (%)	83							
Moisture (%)	17							
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					** = 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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Waste Acceptance Criteria Analytical Results								
Report No:	21-70292							
					Client: GESL			
Location	Station Road, Cowfold							
Lab Reference (Sample Number)	1845619 / 1845620				Landfill Waste Acceptance Criteria			
					Limits			
Sampling Date	14/04/2021				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID	WS03							
Depth (m)	0.60							
Solid Waste Analysis								
TOC (%)**	0.2				3%	5%	6%	
Loss on Ignition (%) **	2.8				--	--	10%	
BTEX (µg/kg) **	< 10				6000	--	--	
Sum of PCBs (mg/kg) **	< 0.007				1	--	--	
Mineral Oil (mg/kg)	< 10				500	--	--	
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--	
pH (units)**	8.0				--	>6	--	
Acid Neutralisation Capacity (mol / kg)	11				--	To be evaluated	To be evaluated	
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test			
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic *	< 0.0010			< 0.0100	0.5	2	25	
Barium *	0.0084			0.0731	20	100	300	
Cadmium *	< 0.0001			< 0.0008	0.04	1	5	
Chromium *	< 0.0004			< 0.0040	0.5	10	70	
Copper *	0.0035			0.030	2	50	100	
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2	
Molybdenum *	0.0021			0.0179	0.5	10	30	
Nickel *	0.0028			0.024	0.4	10	40	
Lead *	< 0.0010			< 0.010	0.5	10	50	
Antimony *	< 0.0017			< 0.017	0.06	0.7	5	
Selenium *	< 0.0040			< 0.040	0.1	0.5	7	
Zinc *	0.0057			0.049	4	50	200	
Chloride *	2.0			18	800	15000	25000	
Fluoride	0.59			5.1	10	150	500	
Sulphate *	4.6			40	1000	20000	50000	
TDS*	61			530	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-	
DOC	9.21			79.8	500	800	1000	
Leach Test Information								
Stone Content (%)	< 0.1							
Sample Mass (kg)	0.90							
Dry Matter (%)	89							
Moisture (%)	11							
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					** = MCFRTS accredited			

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.

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Waste Acceptance Criteria Analytical Results								
Report No:	21-70292							
					Client: GESL			
Location	Station Road, Cowfold							
Lab Reference (Sample Number)	1845621 / 1845622				Landfill Waste Acceptance Criteria			
					Limits			
Sampling Date	14/04/2021				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID	WS05							
Depth (m)	0.60							
Solid Waste Analysis								
TOC (%)**	0.3				3%	5%	6%	
Loss on Ignition (%) **	4.6				--	--	10%	
BTEX (µg/kg) **	< 10				6000	--	--	
Sum of PCBs (mg/kg) **	< 0.007				1	--	--	
Mineral Oil (mg/kg)	< 10				500	--	--	
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--	
pH (units)**	6.0				--	>6	--	
Acid Neutralisation Capacity (mol / kg)	-12				--	To be evaluated	To be evaluated	
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test			
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic *	< 0.0010			< 0.0100	0.5	2	25	
Barium *	0.0054			0.0464	20	100	300	
Cadmium *	< 0.0001			< 0.0008	0.04	1	5	
Chromium *	< 0.0004			< 0.0040	0.5	10	70	
Copper *	0.0011			0.0099	2	50	100	
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2	
Molybdenum *	< 0.0004			< 0.0040	0.5	10	30	
Nickel *	0.0020			0.017	0.4	10	40	
Lead *	< 0.0010			< 0.010	0.5	10	50	
Antimony *	< 0.0017			< 0.017	0.06	0.7	5	
Selenium *	< 0.0040			< 0.040	0.1	0.5	7	
Zinc *	0.0029			0.025	4	50	200	
Chloride *	2.0			17	800	15000	25000	
Fluoride	< 0.050			< 0.50	10	150	500	
Sulphate *	7.0			60	1000	20000	50000	
TDS*	19			160	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-	
DOC	5.79			49.7	500	800	1000	
Leach Test Information								
Stone Content (%)	< 0.1							
Sample Mass (kg)	0.70							
Dry Matter (%)	80							
Moisture (%)	20							
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					** = MCFRTS accredited			

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.



Analytical Report Number : 21-70292

Project / Site name: Station Road, Cowfold

* 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 *
1845617	WS02	None Supplied	0.5	Brown clay.
1845619	WS03	None Supplied	0.6	Brown clay.
1845621	WS05	None Supplied	0.6	Brown clay.

Analytical Report Number : 21-70292

Project / Site name: Station Road, Cowfold

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance""	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/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. MCERTS accredited except Coronene.	L064-PL	D	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	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (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
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025

Analytical Report Number : 21-70292

Project / Site name: Station Road, Cowfold

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Katie Brayne

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Analytical Report Number : 21-72874

Project / Site name:	Station Road, Cowfold	Samples received on:	05/05/2021
Your job number:	GE19071	Samples instructed on/ Analysis started on:	05/05/2021
Your order number:	3899	Analysis completed by:	12/05/2021
Report Issue Number:	1	Report issued on:	12/05/2021
Samples Analysed:	6 soil samples		

Signed: [REDACTED]

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

Analytical Report Number: 21-72874
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1859468	1859469	1859470	1859471	1859472
Sample Reference				TP01	TP03	TP09	WS03	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	2.00	1.50	1.50	1.00
Date Sampled				14/04/2021	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	16	20	20	19
Total mass of sample received	kg	0.001	NONE	0.70	0.70	1.0	1.0	0.80

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	8.5	5.6	7.9	7.6
Total Sulphate as SO ₄	mg/kg	50	MCERTS	310	440	780	310	450
Total Sulphate as SO ₄	%	0.005	MCERTS	0.031	0.044	0.078	0.031	0.045
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0092	0.035	0.025	0.025	0.066
Total Sulphur	mg/kg	50	MCERTS	100	160	250	110	130
Total Sulphur	%	0.005	MCERTS	0.010	0.016	0.025	0.011	0.013

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-72874
 Project / Site name: Station Road, Cowfold
 Your Order No: 3899

Lab Sample Number				1859473
Sample Reference				WS05
Sample Number				None Supplied
Depth (m)				2.00
Date Sampled				14/04/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	20
Total mass of sample received	kg	0.001	NONE	1.7

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.4
Total Sulphate as SO ₄	mg/kg	50	MCERTS	400
Total Sulphate as SO ₄	%	0.005	MCERTS	0.040
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.030
Total Sulphur	mg/kg	50	MCERTS	120
Total Sulphur	%	0.005	MCERTS	0.012

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 21-72874

Project / Site name: Station Road, Cowfold

* 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 *
1859468	TP01	None Supplied	1	Brown clay with gravel.
1859469	TP03	None Supplied	2	Brown clay with gravel.
1859470	TP09	None Supplied	1.5	Brown clay with gravel.
1859471	WS03	None Supplied	1.5	Brown clay with gravel.
1859472	WS04	None Supplied	1	Brown clay.
1859473	WS05	None Supplied	2	Brown clay.

Analytical Report Number : 21-72874

Project / Site name: Station Road, Cowfold

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

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
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
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
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
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
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

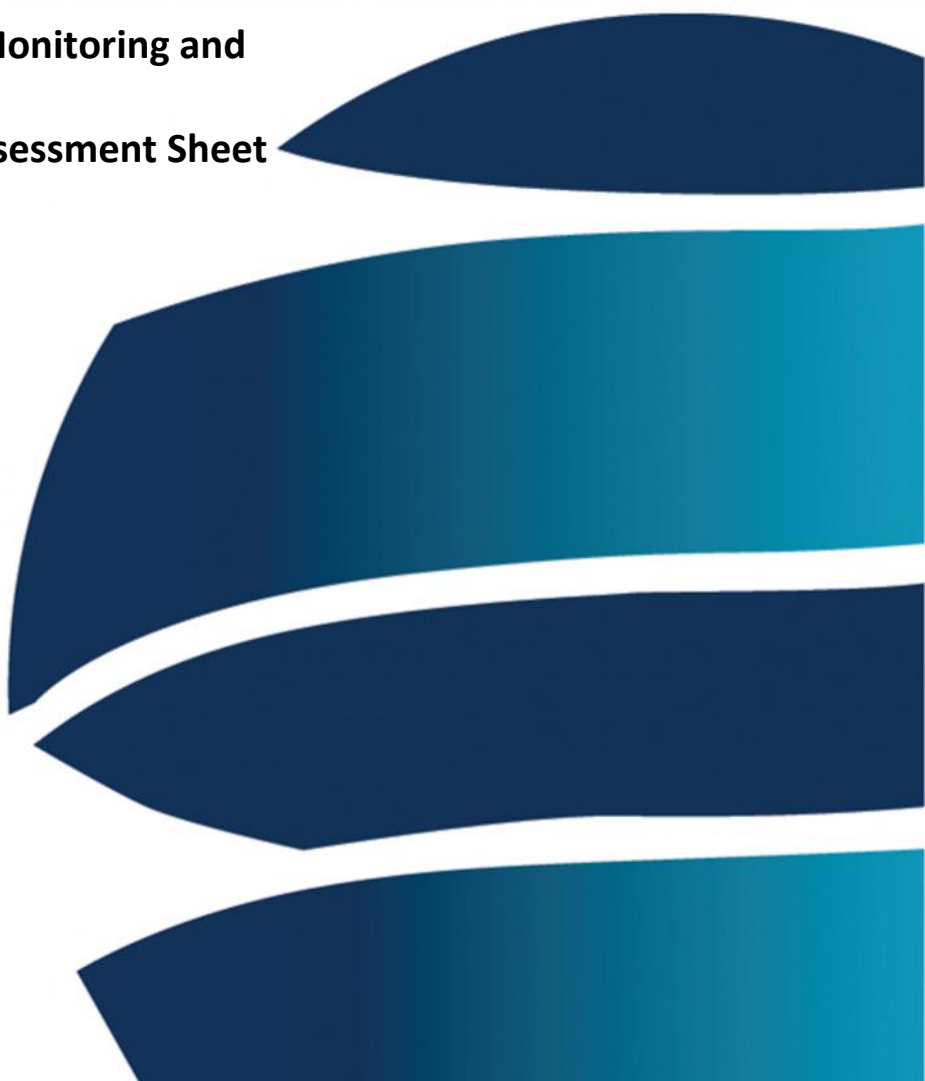
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



APPENDIX E

Ground Gas

Monitoring and Assessment Sheet



Project: Station Road, Cowfold
Ref: GE19071
Client: Devine Homes PLC



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS01	20/04/21	0	0.1	0.0	20.9	0.0	0.2	1013	2.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	20/04/21	10	0.1	0.3	20.8	0.0	0.2	1013	2.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	20/04/21	20	0.1	0.8	20.0	0.0	0.2	1013	2.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	20/04/21	30	0.1	0.9	19.9	0.0	0.2	1013	2.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	20/04/21	60	0.1	0.9	19.9	0.0	0.2	1013	2.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	20/04/21	90	0.1	0.9	19.8	0.0	0.2	1013	2.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	20/04/21	120	0.1	1.0	19.8	0.0	0.2	1013	2.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	20/04/21	180	0.1	1.0	19.8	0.0	0.2	1013	2.56	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	20/04/21	0	0.1	1.0	20.1	0.0	0.2	1013	1.57	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	20/04/21	10	0.0	0.9	20.3	0.0	0.2	1013	1.57	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	20/04/21	20	0.0	0.9	20.2	0.0	0.2	1013	1.57	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	20/04/21	30	0.0	0.9	20.2	0.0	0.2	1013	1.57	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	20/04/21	60	0.1	1.0	20.2	0.0	0.2	1013	1.57	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	20/04/21	90	0.1	1.0	20.2	0.0	0.2	1013	1.57	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	20/04/21	120	0.1	1.0	20.2	0.0	0.2	1013	1.57	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	20/04/21	180	0.1	1.0	20.1	0.0	0.2	1013	1.57	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	20/04/21	0	0.1	0.9	20.1	0.0	0.6	1013	1.97	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	20/04/21	10	1.7	0.8	20.2	0.0	0.6	1013	1.97	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS04	20/04/21	20	1.8	0.6	20.0	0.0	0.6	1013	1.97	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS04	20/04/21	30	1.9	0.6	20.0	0.0	0.6	1013	1.97	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS04	20/04/21	60	1.9	0.6	20.0	0.0	0.6	1013	1.97	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS04	20/04/21	90	1.9	0.6	20.0	0.0	0.6	1013	1.97	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS04	20/04/21	120	1.9	0.6	20.0	0.0	0.6	1013	1.97	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS04	20/04/21	180	1.7	0.6	20.0	0.0	0.6	1013	1.97	0.000	0.000	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
WS05	20/04/21	0	0.2	0.4	20.3	0.0	8.4	1013	2.43	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	20/04/21	10	0.2	0.4	20.3	0.0	8.4	1013	2.43	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	20/04/21	20	0.2	0.4	20.2	0.0	8.4	1013	2.43	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	20/04/21	30	0.1	0.4	20.2	0.0	8.4	1013	2.43	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	20/04/21	60	0.1	0.4	20.2	0.0	8.4	1013	2.43	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	20/04/21	90	0.1	0.4	20.2	0.0	8.4	1013	2.43	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	20/04/21	120	0.1	0.4	20.2	0.0	8.4	1013	2.43	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	20/04/21	180	0.1	0.4	20.0	0.0	8.4	1013	2.43	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	20/04/21	0	0.1	0.2	19.7	0.0	0.5	1013	2.53	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	20/04/21	10	0.1	0.2	20.1	0.0	0.5	1013	2.53	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	20/04/21	20	0.1	0.4	20.3	0.0	0.5	1013	2.53	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	20/04/21	30	0.1	0.4	20.3	0.0	0.5	1013	2.53	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	20/04/21	60	0.1	0.4	20.3	0.0	0.5	1013	2.53	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	20/04/21	90	0.1	0.4	20.4	0.0	0.5	1013	2.53	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	20/04/21	120	0.1	0.4	20.4	0.0	0.5	1013	2.53	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	20/04/21	180	0.1	0.4	20.4	0.0	0.5	1013	2.53	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/05/21	0	0.1	0.1	20.8	0.0	0.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/05/21	10	0.1	1.2	20.7	0.0	0.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/05/21	20	0.1	1.3	20.2	0.0	0.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/05/21	30	0.1	1.3	20.1	0.0	0.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/05/21	60	0.1	1.3	20.1	0.0	0.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/05/21	90	0.1	1.3	20.1	0.0	0.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/05/21	120	0.1	1.3	20.1	0.0	0.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/05/21	180	0.1	1.3	20.1	0.0	0.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/05/21	0	0.1	0.1	21.2	0.0	0.1	1007	1.31	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/05/21	10	0.1	0.8	21.0	0.0	0.1	1007	1.31	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/05/21	20	0.1	1.1	20.4	0.0	0.1	1007	1.31	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Station Road, Cowfold
 Ref: GE19071
 Client: Devine Homes PLC



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS02	05/05/21	30	0.1	1.1	20.4	0.0	0.1	1007	1.31	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/05/21	60	0.1	1.1	20.4	0.0	0.1	1007	1.31	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/05/21	90	0.1	1.1	20.4	0.0	0.1	1007	1.31	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/05/21	120	0.1	1.1	20.4	0.0	0.1	1007	1.31	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/05/21	180	0.1	1.1	20.4	0.0	0.1	1007	1.31	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	05/05/21	0	0.1	0.0	21.7	0.0	6.5	1007	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	05/05/21	10	0.1	0.4	21.6	0.0	6.5	1007	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	05/05/21	20	0.1	0.5	21.3	0.0	6.5	1007	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	05/05/21	30	0.2	0.5	21.3	0.0	6.5	1007	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	05/05/21	60	0.2	0.6	21.3	0.0	6.5	1007	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	05/05/21	90	0.2	0.6	21.3	0.0	6.5	1007	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	05/05/21	120	0.2	0.6	21.3	0.0	6.5	1007	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	05/05/21	180	0.2	0.6	21.3	0.0	6.5	1007	1.16	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/05/21	0	0.1	0.1	21.3	0.0	1.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/05/21	10	0.1	0.4	21.2	0.0	1.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/05/21	20	0.1	0.5	20.9	0.0	1.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/05/21	30	0.1	0.5	20.9	0.0	1.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/05/21	60	0.1	0.5	20.9	0.0	1.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/05/21	90	0.1	0.5	21.0	0.0	1.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/05/21	120	0.1	0.5	21.0	0.0	1.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/05/21	180	0.1	0.4	21.1	0.0	1.1	1007	1.69	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	05/05/21	0	0.1	0.0	21.6	0.0	0.4	1007	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	05/05/21	10	0.1	0.4	21.4	0.0	0.4	1007	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	05/05/21	20	0.1	0.6	21.0	0.0	0.4	1007	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	05/05/21	30	0.1	0.6	21.0	0.0	0.4	1007	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	05/05/21	60	0.1	0.6	21.0	0.0	0.4	1007	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	05/05/21	90	0.1	0.6	21.0	0.0	0.4	1007	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	05/05/21	120	0.1	0.6	21.0	0.0	0.4	1007	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	05/05/21	180	0.1	0.6	21.1	0.0	0.4	1007	2.55	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	19/05/21	0	0.0	0.0	20.4	0.0	0.3	1016	1.54	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	19/05/21	10	0.0	1.3	20.1	0.0	0.3	1016	1.54	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	19/05/21	20	0.0	1.3	19.0	0.0	0.3	1016	1.54	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	19/05/21	30	0.0	1.3	19.0	0.0	0.3	1016	1.54	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	19/05/21	60	0.0	1.3	19.0	0.0	0.3	1016	1.54	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	19/05/21	90	0.0	1.3	18.9	0.0	0.3	1016	1.54	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	19/05/21	120	0.0	1.3	18.9	0.0	0.3	1016	1.54	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	19/05/21	180	0.0	1.3	18.9	0.0	0.3	1016	1.54	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	19/05/21	0	0.0	0.1	20.5	0.1	0.0	1016	1.09	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	19/05/21	10	0.0	1.3	19.7	0.1	0.0	1016	1.09	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	19/05/21	20	0.0	1.3	18.9	0.1	0.0	1016	1.09	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	19/05/21	30	0.0	1.3	18.8	0.1	0.0	1016	1.09	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	19/05/21	60	0.0	1.4	18.8	0.1	0.0	1016	1.09	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	19/05/21	90	0.0	1.4	18.8	0.1	0.0	1016	1.09	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	19/05/21	120	0.0	1.3	18.9	0.1	0.0	1016	1.09	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	19/05/21	180	0.0	1.3	18.9	0.1	0.0	1016	1.09	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	19/05/21	0	0.0	0.0	20.1	0.0	0.0	1016	0.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	19/05/21	10	0.0	0.7	20.1	0.0	0.0	1016	0.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	19/05/21	20	0.0	0.7	19.5	0.0	0.0	1016	0.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	19/05/21	30	0.0	0.7	19.4	0.0	0.0	1016	0.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	19/05/21	60	0.0	0.7	19.4	0.0	0.0	1016	0.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	19/05/21	90	0.0	0.7	19.4	0.0	0.0	1016	0.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Station Road, Cowfold
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 Client: Devine Homes PLC



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS04	19/05/21	120	0.0	0.7	19.4	0.0	0.0	1016	0.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	19/05/21	180	0.0	0.7	19.4	0.0	0.0	1016	0.98	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	19/05/21	0				0.0		1016	To surface	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	19/05/21	10				0.0		1016	To surface	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	19/05/21	20				0.0		1016	To surface	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	19/05/21	30				0.0		1016	To surface	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	19/05/21	60				0.0		1016	To surface	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	19/05/21	90				0.0		1016	To surface	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	19/05/21	120				0.0		1016	To surface	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	19/05/21	180				0.0		1016	To surface	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	19/05/21	0	0.0	0.0	20.4	0.0	0.0	1016	0.72	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	19/05/21	10	0.0	0.1	20.4	0.0	0.0	1016	0.72	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	19/05/21	20	0.0	0.2	20.5	0.0	0.0	1016	0.72	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	19/05/21	30	0.0	0.2	20.0	0.0	0.0	1016	0.72	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	19/05/21	60				0.0	0.0	1016	0.72	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	19/05/21	90				0.0	0.0	1016	0.72	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	19/05/21	120				0.0	0.0	1016	0.72	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	19/05/21	180				0.0	0.0	1016	0.72	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	02/06/21	0	0.2	0.0	21.0	-0.7	0.0	1008	0.81	-0.001	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	02/06/21	10	0.2	0.7	20.5	-0.7	0.0	1008	0.81	-0.001	-0.005	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	02/06/21	20	0.2	0.9	19.9	-0.7	0.0	1008	0.81	-0.001	-0.006	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	02/06/21	30	0.2	0.9	19.9	-0.7	0.0	1008	0.81	-0.001	-0.006	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	02/06/21	60	0.2	0.9	20.0	-0.7	0.0	1008	0.81	-0.001	-0.006	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	02/06/21	90	0.2	0.9	20.0	-0.7	0.0	1008	0.81	-0.001	-0.006	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	02/06/21	120	0.2	0.9	20.0	-0.7	0.0	1008	0.81	-0.001	-0.006	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	02/06/21	180	0.2	0.9	19.9	-0.7	0.0	1008	0.81	-0.001	-0.006	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	02/06/21	0	0.2	0.0	21.2	0.0	0.2	1008	1.17	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	02/06/21	10	0.2	1.1	20.0	0.0	0.2	1008	1.17	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	02/06/21	20	0.2	1.5	18.7	0.0	0.2	1008	1.17	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	02/06/21	30	0.2	1.5	18.6	0.0	0.2	1008	1.17	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	02/06/21	60	0.2	1.6	18.6	0.0	0.2	1008	1.17	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	02/06/21	90	0.2	1.6	18.6	0.0	0.2	1008	1.17	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	02/06/21	120	0.2	1.6	18.6	0.0	0.2	1008	1.17	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	02/06/21	180	0.2	1.6	18.5	0.0	0.2	1008	1.17	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	02/06/21	0	0.3	0.0	21.2	0.1	0.0	1008	0.76	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	02/06/21	10	0.3	0.4	20.6	0.1	0.0	1008	0.76	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	02/06/21	20	0.3	0.5	20.2	0.1	0.0	1008	0.76	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	02/06/21	30	0.3	0.5	20.2	0.1	0.0	1008	0.76	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	02/06/21	60	0.3	0.5	20.3	0.1	0.0	1008	0.76	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	02/06/21	90	0.3	0.5	20.2	0.1	0.0	1008	0.76	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	02/06/21	120	0.2	0.8	18.7	0.1	0.0	1008	0.76	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	02/06/21	180	0.2	1.0	18.0	0.1	0.0	1008	0.76	0.000	0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	02/06/21	0	0.2	0.0	21.1	0.0	0.9	1008	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	02/06/21	10	0.2	0.3	21.1	0.0	0.9	1008	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	02/06/21	20	0.2	0.4	21.0	0.0	0.9	1008	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	02/06/21	30	0.2	0.3	20.0	0.0	0.9	1008	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	02/06/21	60				0.0	0.9	1008	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	02/06/21	90				0.0	0.9	1008	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	02/06/21	120				0.0	0.9	1008	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	02/06/21	180				0.0	0.9	1008	0.59	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	02/06/21	0	0.2	0.0	21.0	-0.1	0.0	1008	0.81	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

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Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS07	02/06/21	10	0.2	0.4	20.6	-0.1	0.0	1008	0.81	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	02/06/21	20	0.2	0.5	20.3	-0.1	0.0	1008	0.81	0.000	-0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	02/06/21	30	0.2	0.5	20.2	-0.1	0.0	1008	0.81	0.000	-0.001	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	02/06/21	60				-0.1	0.0	1008	0.81	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	02/06/21	90				-0.1	0.0	1008	0.81	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	02/06/21	120				-0.1	0.0	1008	0.81	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	02/06/21	180				-0.1	0.0	1008	0.81	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/21	0				0.0		1005		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/21	10				0.0		1005		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/21	20				0.0		1005		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/21	30				0.0		1005		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/21	60				0.0		1005		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/21	90				0.0		1005		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/21	120				0.0		1005		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	16/06/21	180				0.0		1005		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	16/06/21	0	0.2	0.0	20.6	0.0	0.1	1005	1.24	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	16/06/21	10	0.2	1.8	18.0	0.0	0.1	1005	1.24	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	16/06/21	20	0.2	2.1	17.0	0.0	0.1	1005	1.24	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	16/06/21	30	0.2	2.2	17.0	0.0	0.1	1005	1.24	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	16/06/21	60	0.2	2.2	17.0	0.0	0.1	1005	1.24	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	16/06/21	90	0.2	2.2	17.0	0.0	0.1	1005	1.24	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	16/06/21	120	0.2	2.2	17.0	0.0	0.1	1005	1.24	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	16/06/21	180	0.2	2.1	17.1	0.0	0.1	1005	1.24	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	16/06/21	0	0.2	0.0	20.9	0.0	0.1	1007	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	16/06/21	10	0.2	0.7	20.3	0.0	0.1	1007	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	16/06/21	20	0.2	0.9	20.0	0.0	0.1	1007	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	16/06/21	30	0.2	0.9	20.0	0.0	0.1	1007	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	16/06/21	60	0.2	1.0	20.0	0.0	0.1	1007	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	16/06/21	90	0.2	1.0	20.0	0.0	0.1	1007	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	16/06/21	120	0.2	1.4	19.8	0.0	0.1	1007	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	16/06/21	180	0.2	1.2	20.0	0.0	0.1	1007	0.88	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	16/06/21	0	0.2	0.0	20.6	0.0	0.4	1005	0.79	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	16/06/21	10	0.2	1.1	17.5	0.0	0.4	1005	0.79	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	16/06/21	20	0.2	3.6	15.3	0.0	0.4	1005	0.79	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	16/06/21	30	0.2	3.7	15.2	0.0	0.4	1005	0.79	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	16/06/21	60	0.2	3.7	15.2	0.0	0.4	1005	0.79	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	16/06/21	90	0.2	3.7	15.2	0.0	0.4	1005	0.79	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	16/06/21	120	0.2	3.8	15.1	0.0	0.4	1005	0.79	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	16/06/21	180	0.2	3.4	16.3	0.0	0.4	1005	0.79	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	16/06/21	0	0.2	0.0	20.3	0.2		1005	1.29	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	16/06/21	10	0.2	0.9	19.3	0.2		1005	1.29	0.000	0.002	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	16/06/21	20	0.2	1.5	18.2	0.2		1005	1.29	0.000	0.003	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	16/06/21	30	0.2	1.7	17.9	0.2		1005	1.29	0.000	0.003	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	16/06/21	60	0.2	1.9	17.5	0.2		1005	1.29	0.000	0.004	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	16/06/21	90				0.2		1005	1.29	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	16/06/21	120				0.2		1005	1.29	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	16/06/21	180				0.2		1005	1.29	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	30/06/21	0				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	30/06/21	10				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	30/06/21	20				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	30/06/21	30				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Station Road, Cowfold
Ref: GE19071
Client: Devine Homes PLC



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS01	30/06/21	60				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	30/06/21	90				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	30/06/21	120				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	30/06/21	180				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	30/06/21	0				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	30/06/21	10				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	30/06/21	20				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	30/06/21	30				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	30/06/21	60				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	30/06/21	90				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	30/06/21	120				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	30/06/21	180				0.0		1014		0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	30/06/21	0	0.0	0.0	20.7	0.0	0.0	1014	0.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	30/06/21	10	0.0	0.8	20.6	0.0	0.0	1014	0.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	30/06/21	20	0.0	1.1	20.1	0.0	0.0	1014	0.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	30/06/21	30	0.0	1.1	20.0	0.0	0.0	1014	0.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	30/06/21	60	0.0	1.1	19.9	0.0	0.0	1014	0.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	30/06/21	90	0.0	1.1	19.9	0.0	0.0	1014	0.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	30/06/21	120	0.0	1.1	19.9	0.0	0.0	1014	0.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS04	30/06/21	180	0.0	1.4	19.5	0.0	0.0	1014	0.80	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	30/06/21	0	0.0	0.0	20.8	0.0	0.4	1014	0.86	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	30/06/21	10	0.0	3.2	17.1	0.0	0.4	1014	0.86	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	30/06/21	20	0.0	4.8	12.5	0.0	0.4	1014	0.86	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	30/06/21	30	0.0	4.8	12.0	0.0	0.4	1014	0.86	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	30/06/21	60	0.0	4.6	12.2	0.0	0.4	1014	0.86	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	30/06/21	90	0.0	4.5	12.5	0.0	0.4	1014	0.86	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	30/06/21	120	0.0	4.4	12.6	0.0	0.4	1014	0.86	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	30/06/21	180	0.0	4.4	12.7	0.0	0.4	1014	0.86	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	30/06/21	0	0.0	0.0	20.0	0.0	0.4	1014	1.50	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	30/06/21	10	0.0	1.6	18.5	0.0	0.4	1014	1.50	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	30/06/21	20	0.0	2.2	14.9	0.0	0.4	1014	1.50	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	30/06/21	30	0.0	2.4	13.9	0.0	0.4	1014	1.50	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	30/06/21	60	0.0	2.6	13.2	0.0	0.4	1014	1.50	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	30/06/21	90	0.0	2.6	13.0	0.0	0.4	1014	1.50	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	30/06/21	120	0.0	2.6	12.9	0.0	0.4	1014	1.50	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS07	30/06/21	180	0.0	2.6	12.8	0.0	0.4	1014	1.50	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
Max values			1.9	4.8	21.7	0.2	8.4	1016.0	2.6	0.004	0.010	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN
Min Vaules			0.0	0.0	12.0	-0.7	0.0	1005.0	0.6	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
BH Flow LoD check			1.9	4.8	21.7	0.1	-	-	-	0.002	0.005	CS1	CS1	NO	CH4>CS1 limit	NO	GREEN	AMBER 1	GREEN	GREEN