Barn Conversion
Wychwood Lane
Shermanbury

Preliminary and Quantitative Ground Contamination Risk Assessment and Remediation Strategy

Report Beneficiary:

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Project Reference: P14769

Report Reference: R14396

Document Control			
Issue No.	**Status**	**Issue Date**	**Notes**
1	Final	30th September 2020	

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EXECUTIVE SUMMARY

The following presents a summary of the main findings of the report. It is emphasised that no reliance should be placed on any individual point until the whole of the report has been read as other sections of the report may put into context the information contained herein.

The site at Wychwood Lane, Shermanbury comprises two barns. It is proposed to convert the northern barn into two residential units, with areas of garden to the north and west, and to demolish the southern barn to provide driveways and front gardens.

The existing barns are empty and have compacted dirt floors. The areas of proposed garden to the north and west of the barn are currently unsurfaced. Brick and concrete rubble was visible at the ground surface during the walkover.

The site has remained undeveloped until the construction of the existing barns circa 1977.

Reference to geological datasets indicates that the site is expected to be underlain by the Weald Clay Formation. The investigation works recorded made ground to be present within the proposed rear garden areas. Within the footprint of the barns, the investigation recorded compacted chalk fill to be present. The total depth of the made ground/fill was not proven by the investigation works.

The Weald Clay Formation is classed as an Unproductive Stratum. The site does not lie within an Environment Agency Source Protection Zone with regard to the protection of the quality of groundwater that is abstracted for potable supply.

The preliminary contamination risk assessment identified potential pollutant linkages to be present.

Testing of the made ground soils in the proposed rear garden areas recorded concentrations of PAH compounds and petroleum hydrocarbons, and the presence of asbestos materials, which are considered to pose an unacceptable risk to end users.

Remedial works are proposed to sever the pollutant linkages and safeguard proposed end users of the site.

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1. INTRODUCTION

The site at Wychwood Lane, Shermanbury comprises two barns. It is proposed to convert the northern barn into two residential units, with areas of garden to the north and west, and to demolish the southern barn to provide driveways and front gardens. A copy of the proposed development layout is presented in Appendix A.

Ashdown Site Investigation Ltd was requested to undertake a preliminary and quantitative contamination risk assessment for the proposed development works, to assist with the discharge of planning conditions.

The specific objectives of the works were to:

a) Establish the expected geology, hydrogeology and hydrology at the site;
b) Ascertain the development history and current site use;
c) Develop a preliminary conceptual model of the site identifying potential pollutant linkages relating to end users of the proposed development works, to controlled waters beneath and in the vicinity of the site, or to other off-site sensitive receptors, if identified;
d) Test for the presence of contaminants identified by the preliminary conceptual model; and
e) Develop a quantitative conceptual model of the site, refining the preliminary model to identify any pollutant linkages that may be present; and
f) Prepare a remediation strategy for the site addressing the pollutant linkages identified.

The scope of the works covered by this report, and the terms and conditions under which they were undertaken, were set out within the offer letter Q9979, dated 11th September 2020, and subsequent emails wherein additional fees were agreed. The instruction to proceed was received from the client.

The preliminary conceptual model has been based on the findings of a walkover survey and reference to historical Ordnance Survey maps and published geological and environmental information obtained from various sources.

Copies of the historical maps and geo-environmental data referred to in this report are presented within Appendix G.

2. WALKOVER SURVEY

The site comprises an irregular shaped plot of land located to the north of Wychwood Lane, Shermanbury, and is centred on the approximate Ordnance Survey national grid reference TQ 2081 1840. A site location plan is presented as Figure 1. Photographs taken during the walkover survey are included in Appendix B.

The site comprises 2 single storey barns, along with small open areas to the north and west. Both barns are clad with corrugated suspected asbestos cement panels and have dirt floors. The site is bounded to the south by Wychwood Lane, to the east by an overgrown and rough surfaced yard, beyond which lay further barns, and to the north and west by unsurfaced overgrown areas, beyond which lay fields.

With the exception of a compressor stored on a pallet and a trailer, both within the northern barn, the structures were empty. The area between the southern barn and Wychwood Lane was overgrown with brambles, small shrubs and trees. The open areas to the north and west of the barn were overgrown with brambles and weeds, and were unsurfaced, with brick and concrete rubble visible within the made ground at the surface.

3. ENVIRONMENTAL AND GEO-ENVIRONMENTAL DATA REVIEW

3.1 Geological and Hydrogeological Information

3.1.1 Expected Geology and Aquifer Designation

The stratigraphic unit that may be expected to underlie the site is presented in the following table.

Table 1. Expected Strata and Aquifer Designation

Type	Stratum	Aquifer Designation
Bedrock	Weald Clay Formation (mudstone)	Unproductive Stratum

The Weald Clay Formation usually consists of thinly-bedded mudstones (shales) and mudstone with subordinate siltstone, fine grained to medium grained sandstones, including calcareous sandstone (e.g. Horsham Stone Member), shelly limestones (the so called "Paludina Limestones") and clay ironstones. When fresh the beds are normally dark grey in colour but may weather to mottled yellow and brown. Conspicuous bands of red clay occur at certain horizons usually in close association with sandstone beds.

3.1.2 Mining and Natural Ground Hazards

Table 2. Mining and Natural Ground Subsidence Hazards from Envirocheck Data

Section	Risk Assessment
Coal Mining Affected Areas	In an area that might not be affected by coal mining
Non-Coal Mining Areas of Great Britain	Highly Unlikely
Potential for Collapsible Ground Stability Hazards	Very Low
Potential for Compressible Ground Stability Hazards	No Hazard Identified

Potential for Ground Dissolution Stability Hazards	No Hazard Identified
Potential for Landslide Ground Stability Hazards	Very Low
Potential for Running Sand Ground Stability Hazards	No Hazard Identified
Potential for Shrinking or Swelling Clay Ground Stability Hazards	Low

Although a negligible risk of soil change potential has been highlighted by the Envirocheck data, it is noted that the Weald Clay Formation may exhibit up to a high shrinkage potential and this should be taken into account when designing foundations.

A site-specific geotechnical assessment would require the undertaking of a geotechnical intrusive ground investigation.

3.1.3 Radon

Table 3. Radon

Section	Risk Assessment
Radon Affected Areas	The site is reported to be within an area where less than 1% of properties are at or above the action level requiring radon gas protection measures to be installed in new buildings.
Radon Protection Measures	No radon protection measures are reported by the British Geological Survey to be necessary in the construction of new dwellings or extensions.

3.1.4 Groundwater Source Protection Zones

The site does not lie within an Environment Agency Source Protection Zone with regard to the protection of the quality of groundwater that is abstracted for potable supply.

3.1.5 Groundwater and Surface Water Abstraction Licences

No groundwater abstraction licences are indicated within 1km of the site.

The closest surface water abstraction licence is recorded to lie 775m to the south west of the site. The abstraction is for General Agriculture: Spray Irrigation - Direct.

3.1.6 Surface Water Features

The nearest recorded significant surface water feature is a drainage ditch, located 63m to the south west of the site.

There is no Environment Agency information on river quality within 250m of the site.

3.1.7 Flooding

3.1.7.1 Flooding by Rivers or Sea

The site lies within an Environment Agency Flood Zone 1. This is the lowest flood risk zone assigned by the Environment agency and is defined as land assessed as having a less than 1 in 1,000 annual probability of river or sea flooding (<0.1%).

3.1.7.2 Groundwater Flooding

The site does not lie within an area where the British Geological Survey report a risk from Groundwater Flooding to be present.

The GeoSmart Groundwater Flood Risk (GW5) Map (GeoSmart, 2020)[1] concurs, and states that the risk of groundwater flooding at the site is 'negligible'.

Based on the susceptibility of the site to groundwater flooding, a groundwater flood risk assessment is not considered necessary for the site.

3.2 Data Review

3.2.1 Agency & Hydrological Data

The data has been reviewed and none of the entries within this section are considered to pose a significant risk to the site.

3.2.2 Waste

The data has been reviewed and none of the entries within this section are considered to pose a significant risk to the site.

3.2.3 Hazardous Substance

The data has been reviewed and none of the entries within this section are considered to pose a significant risk to the site.

3.2.4 Industrial Land Use

The data has been reviewed and any entries referring to locations on, or in close proximity to, the site that may pose a potential risk are discussed within the following table.

Table 4. Industrial Land Use Data

Section	Discussion
Contemporary Trade Directory Entries	Classic Choice (inactive) Classic Car Specialists located 49m south east of the site

[1] GeoSmart Information Limited, 2020. National Groundwater Flood Risk Map (GW5)

3.2.5 Sensitive Land Use

The data has been reviewed and no sensitive land uses that are likely to be affected by the proposed development have been identified within 500m of the site.

4. HISTORICAL MAP REVIEW

Historical Ordnance Survey maps covering the area of the site have been reviewed and are summarised in the following table.

It is noted that each map presents information applicable at the time of the survey (or revision date) and is subject to surveying and cartographic errors and/or advances. Revisions to maps are made at irregular intervals and it is possible that significant developments may have taken place on or within the vicinity of the site that are not shown on the maps.

'In the Vicinity of the Site' generally refers to features of relevance within approximately 250m of the site boundary but may also include more distant features if considered to be pertinent to the assessment of the development history.

Table 5. Summary of Significant Features Identified on Historical Maps

Map Details	On-Site	In the Vicinity of the Site
1879 1:2,500	The site comprises part of an open field.	Outlands Farm, comprising a number of buildings, is shown to the south east of the site. A track runs east west to the south of the site.
1938 1:2,500	No significant changes.	The track to the south is now a larger road. Additional farm buildings and glass houses are shown to the south of the road.
1956 1:2,500	No significant changes.	The barns to the east of the site are now shown.
1977 1:2,500	The existing barns are shown on the site.	No significant changes.

5. PRELIMINARY CONTAMINATION RISK ASSESSMENT

5.1 Introduction

The risk assessment considers the potential sources of contamination identified, the receptors that may be present in view of the development proposals and the contaminant pathways by which these may be linked. A complete pollutant linkage is only deemed to exist where all three are present and a site is considered suitable for use where no complete pollutant linkages are identified.

Where a complete pollutant linkage is deemed to be present, an assessment of the level of risk associated with the pollutant linkage has been carried out in line with current guidance[2].

The level of risk is determined using the risk matrix presented in the following table. Classifications of probability, consequence and risk are presented in Appendix C.

Table 6. Risk Assessment Matrix

		Probability			
		Very Low	**Low**	**Moderate**	**High**
Consequence	**Very Minor**	Negligible	Very Low	Low	Low/Moderate
	Minor	Very Low	Low	Low/Moderate	Moderate
	Moderate	Low	Low/Moderate	Moderate	High
	Severe	Low/Moderate	Moderate	High	Very High

5.2 Basis of Assessment

The development is to comprise new residential buildings together with areas of private garden where end users can expect to come into contact with the underlying soils, where soil derived dusts may be generated and where the growing of fruit and vegetables may feasibly occur.

The proposed development layout is presented in Appendix A. Should the proposed development plans be altered, a revised risk assessment may be required.

It is noted that an asbestos survey of existing structures and infrastructure[3] was beyond the brief of this report. The risk assessment has been undertaken on the basis that should asbestos be identified within buildings or infrastructure, with particular attention to the suspected asbestos cement panels on the roof and sides of the barns, these materials will be removed by appropriately licensed contractors and all asbestos materials disposed of in accordance with legal requirements prior to demolition or other works in order to avoid contaminating soils at the site.

5.3 Potential Contamination Sources Identified

The following potential sources of contamination have been identified by the preliminary contamination risk assessment:

- Made ground materials visible at the surface within proposed garden areas.

[2] Contaminated Land Risk Assessment: A guide to good practice, CIRIA C552, 2001.
[3] As defined under Section 5(a) of the Control of Asbestos Regulations, 2012.

- Historical use of the site for agricultural storage purposes.

5.4 Preliminary Conceptual Model

The preliminary conceptual model for the proposed development is presented in Appendix D.

6. GROUND INVESTIGATION

6.1 Introduction

To allow a quantitative assessment of the potential pollutant linkages identified by the preliminary risk assessment to be preapred, a series of shallow (0.3m deep) hand dug trial pits were excavated targeting the areas of proposed garden to the front and rear of the barn which is to be converted, as well as the shallow soils within the footprint of the barn.

The fieldwork was undertaken on the 10th September 2020. The locations of the pits are shown on Figure 2. Descriptions of the strata encountered are provide in Section 7.

6.2 Laboratory Testing

Laboratory testing was scheduled by Ashdown Site Investigation Ltd. Results from the laboratory tests are provided in Appendix E.

Chemical testing of selected samples was undertaken by a laboratory with recognised (UKAS and MCERTS) accreditation for quality control.

7. GROUND CONDITIONS

7.1 Stratigraphy

7.1.1 Made Ground

Trial pits HA01, HA02 and HA04, located within the proposed rear and side garden areas, encountered a brown silty sandy gravel of brick, flint, concrete and asphalt, with occasional cobbles of brick and concrete, which persisted to the full depth of each trial pit.

Trial pits HA03 and HA05 to HA07 recorded compacted chalk fill, with occasional flint gravel, to the full depth of each pit.

8. QUANTITATIVE CONTAMINATION ASSESSMENT

8.1 Analysis of Contamination Test Results

Comparison of the results of the laboratory testing has been made against the 'Suitable For Use Levels' (S4UL)[4] or, in lieu of an S4UL being developed for lead, the Category 4 Screening Level (C4SL)[5]. These are collectively referred to as soil screening values (SSV).

In view of the development proposal, the SSV utilised in this assessment are those calculated for the generic "Residential" land use[6]. The critical receptor for this land use is considered to be a young female child resident on site from birth to age 6. Exposure routes that are considered include the potential for direct ingestion of the soil, the outdoor and indoor ingestion of dust, the potential inhalation of dust and vapours, ingestion of site grown vegetables and ingestion of soil attached to vegetables.

For the assessment of risk to controlled waters a qualitative assessment has been undertaken based upon the concentrations of contaminants recorded within the soil samples and the information obtained about the sensitivity of the underlying strata or nearby surface water receptors.

8.1.1 Heavy Metals & PAH Compounds

The following table summarises the SSV for the heavy metals and PAH compounds tested for.

Table 7. Published SSV for generic "Residential" land use

Contaminant	Screening Value (mg/kg)	Contaminant	Screening Value (mg/kg)
Arsenic	37	Fluorene	170
Cadmium	11	Phenanthrene	95
Chromium	910	Anthracene	2400
Copper	2400	Fluoranthene	280
Lead	200	Pyrene	620
Mercury	40	Benz(a)anthracene	7.2
Nickel	180	Chrysene	15
Selenium	250	Benzo(b)fluoranthene	2.6
Zinc	3700	Benzo(k)fluoranthene	77
Hexavalent Chromium	6	Benzo(a)pyrene	2.2
Water Soluble Boron	290	Indeno(123-cd)pyrene	27
Naphthalene	2.3	Dibenz(ah)anthracene	0.24
Acenaphthylene	170	Benzo(ghi)perylene	320
Acenaphthene	210		

None of the samples recorded concentrations of heavy metals above the respective SSV. However, the samples from HA01 and HA04 both recorded significantly elevated concentrations of several PAH compounds.

[4] Nathanail, C.P, et al., The LQM/CIEH S4ULs for Human Health Risk Assessment, 2015, Land Quality Press, Nottingham. Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3071.
[5] SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination. Final Project Report, published by DEFRA, 2014.
[6] As defined within Science Report SC050021/SR3, January 2009, with the amendments discussed in the LQM/CIEH report.

8.1.2 Asbestos

During the trial pitting works pieces of suspected asbestos material, which appeared to have broken off the existing cladding of the barn, were noted on the ground surface near the trial pits.

Screening of the samples recorded asbestos fibres and fragments of asbestos cement to be present within the made ground encountered in HA01 and HA04. No asbestos was recorded in the chalk fill encountered in HA06 and HA07.

8.1.3 Petroleum Hydrocarbons

The following table lists the screening values for petroleum hydrocarbon equivalent carbon weight fractions calculated for 1% organic content.

Table 8. Soil Screening Values for petroleum hydrocarbon equivalent carbon weight fractions

Petroleum Hydrocarbon Fraction	SSV (mg/kg)	Petroleum Hydrocarbon Fraction	SSV (mg/kg)
Aliphatic EC 5-6	42	Aromatic EC 5-7	70
Aliphatic EC >6-8	100	Aromatic EC >7-8	130
Aliphatic EC >8-10	27	Aromatic EC >8-10	34
Aliphatic EC >10-12	130	Aromatic EC >10-12	74
Aliphatic EC >12-16	1100	Aromatic EC >12-16	140
Aliphatic EC >16-35	65000	Aromatic EC >16-21	260
Aliphatic EC >35-44	65000	Aromatic EC >21-35	1100
		Aromatic EC >35-44	1100

Whilst full speciation of the concentrations of petroleum hydrocarbons by aromatic and aliphatic fractions was not undertaken, the results of the testing undertaken can still be compared with the more stringent of the screening values for the respective equivalent carbon weight fractions.

The sample from HA04 recorded concentrations of the C16-C21 and C21-C40 fractions above the aromatic SSV. None of the remaining samples from the proposed garden areas recorded concentrations of petroleum hydrocarbons above the screening values.

The samples from HA03 and HA05, located within the footprint of the barn to be converted, recorded just 3mg/kg of petroleum hydrocarbons within the volatile (<C16) range.

8.2 Conclusions

The made ground present within the proposed rear garden areas has been recorded to contain concentrations of PAH compounds and petroleum hydrocarbons above published screening values, along with the presence of asbestos materials.

These materials are considered to pose an unacceptable risk to end users and remedial measures will be required to sever the pollutant linkage.

Elsewhere, the testing has not identified any volatile contamination beneath the footprint of the barn which is to be converted, and the samples of the chalk fill material present within the proposed front garden areas did not contain any contaminants at concentrations considered to pose an unacceptable risk to end users.

In view of the expected underlying geology, the concentrations of contaminants identified are not considered to pose an unacceptable risk to controlled waters.

8.3 Quantitative Contamination Risk Assessment

8.3.1 Contamination Source Identified

The following source of contamination has been identified by the quantitative contamination risk assessment:

- Made Ground containing PAH compounds, Petroleum Hydrocarbons and asbestos within proposed rear and side garden areas.

8.3.2 Quantitative Conceptual Model

The quantitative conceptual model for the proposed development is presented in Appendix F.

9. REMEDIATION STRATEGY

Current best practice guidance recommends that any remedial action proposed for the site should be justified. The requirement for remedial action is considered to be justified due to the identification of complete pollutant linkages.

The remediation works have been developed to meet the technical objectives for the development, the major drivers behind which are:

- To achieve successful remediation within a particular timescale and budget;
- Familiarity with the methodology by the developer/ground worker;
- Confidence that the remediation can be carried out by good technical practices; and
- Likely success of the style of remediation.

9.1 Options Appraisal

There are no in situ or ex situ remediation techniques available to reduce the concentrations of PAH compounds within the made ground soils to below that of the published screening values, or which could guarantee removal of all asbestos containing materials within the matrix of the soils.

The method chosen for remediation must be achievable by the groundworker, using techniques that they are familiar with. It is therefore considered that the remediation proposals could either comprise the complete removal of the contaminant source (the made ground soils), or the provision of a cover system to sever the contaminant pathways in areas where the end users may reasonably be expected to be exposed to the soils or soil derived dust.

Both approaches are considered to be equally straightforward and both would be an effective approach to reducing the risk to end users of the site to an acceptable level.

9.2 Proposed Treatment of Existing Contamination

9.2.1 Protection of Human Health

Within the proposed rear and side gardens the made ground soils should be either removed to expose the undisturbed soils, or excavated to a sufficient depth to allow the placement of a cover system of at least 600mm of verified "clean" topsoil and/or subsoil underlain by a high visibility geotextile and a geogrid.

The depth of the cover system specified represents "two spade depths" to allow for planting of trees, shrubs etc. without residents coming into contact with the contaminated soils remaining at depth.

Due to the presence of asbestos in the made ground soils, all service trenches should be over excavated to ensure that any maintenance personnel that may be required to work on the services in the future do not come in to contact with the soils.

9.2.2 Protection of Controlled Waters

The risk assessment did not identify any unacceptable risks to controlled waters beneath the site and therefore no specific remedial works are considered necessary in this regard.

9.2.3 Protection of Services

The concentrations of petroleum hydrocarbons recorded in the made ground soils to the rear of the barn exceed the screening criteria set out within Table 3.1 of the "Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites" published by UK Water Industry Research in 2010. It is strongly recommended that designers consult with the proposed water supply company to ascertain whether they require further laboratory testing and assessment specific to proposed routes of services or whether provision of barrier pipe is necessary.

All service providers' requirements must be fully adhered to, in order to reduce the risk to end users and services to an acceptable level.

Details of any measures required by service providers and confirmation of their implementation should be included within the verification report that will need to be compiled on completion of the remediation works.

9.2.4 Protection of Construction Workers

All construction workers must undertake their own risk assessment, based upon the works to be carried out and the proposed method by which this will be achieved, in accordance with current health and safety legislation. Their assessment should take into account all available information about the site, including that contained within this report.

Appropriate working procedures and PPE should be adopted to ensure the health and safety of the site operatives. Instruction should be given in the recognition of potentially hazardous materials. All site personnel should be appropriately briefed on the discovery strategy, presented below, and what actions they must take in the event that further evidence of contamination is identified or suspected.

9.3 Watching Brief on Development Works

If, during the course of the site clearance and development works, any materials not previously identified by the investigation that are suspected of being 'contaminants' are encountered, then the following procedure should apply:

- All works in that area should cease and the site manager should be informed.
- Advice should be sought from suitably qualified and experienced personnel as to whether any further site inspection, sampling, testing and/or assessment is deemed necessary.
- If required, the conclusions of any assessment and any proposed remedial works (if required) should be agreed by the local authority.
- If necessary, full details of any remedial works should be included in the verification report for the site.

Suspected 'contamination' may take the following form, though it is noted that this list is not exhaustive and site operatives should ask if they are at all unsure of any findings:

- Soil or water looks oily and/or has an oily odour
- Soil or water has a solvent type of odour
- Significant quantities of man-made materials within fill such as paint cans, car parts, glass fragments
- Suspected asbestos containing materials (insulating boards, cement, loose fibres etc.)
- Significant volumes of clinker like or ashy material
- Sand bags, and/or subsurface concrete structures
- Animal carcasses or evidence of animal burial pits

10. VERIFICATION PLAN

10.1 Inspection of Stripped Formations and Placement of Geotextile Marker and Geo-Grid

For all areas where remediation works are required (reference Figure 3) stripped formations will be inspected prior to placement of any cover soils to confirm either the removal of all made ground or that the excavations are sufficiently deep as to enable placement of the required thickness of cover soils, as well as to document the placement of the geotextile and geo-grid. A photographic record of all stripped formations will be maintained for inclusion in the verification report.

If for any reason inspections are not undertaken for any given area where remediation works were specified, retrospective validation may comprise excavation of trial pits by hand on a grid basis to confirm that the specified works have been undertaken. In such exceptional circumstances these works may be undertaken in conjunction with the works detailed in Section 10.2 below.

10.2 Cover System Depth

The final depth of cover material placed in all required areas should be confirmed by use of tape measurements made within excavations to the base of the cover soils. In the event that all made ground soils have been removed from site, then the depth of cover soils will not be measured.

Photographic evidence of the depth of cover soils present will be included in the verification report.

10.3 Services

Confirmation of any service providers' requirements and evidence to demonstrate adherence to them should be included in the verification report.

The contractor should provide photographic evidence to confirm installation of barrier pipe or, if applicable, written confirmation from the local water supply company that other pipework is acceptable.

The contractor should also provide photographic evidence of the over excavation of service trenches.

10.4 Imported Materials

Any imported material from a potentially contaminated (e.g. industrial) site should be rejected. It is recommended that chemical testing results are obtained and supplied for comment prior to accepting the soils on site.

Once imported materials have been brought to site they should be stockpiled and protected from cross contamination with any other materials already on site. They will then be inspected, sampled and tested by Ashdown Site Investigation Ltd.

10.4.1 Soils for use in soft covered areas.

The table below summarises the soil screening values[7] against which any imported soils will be assessed.

Table 9. Calculated soil screening values for imported soils

Contaminant	Screening Value (mg/kg)	Contaminant	Screening Value (mg/kg)
Arsenic	37	Fluorene	170
Cadmium	11	Phenanthrene	95
Chromium	910	Anthracene	2400
Copper	2400	Fluoranthene	280
Lead	200	Pyrene	620
Mercury	40	Benz(a)anthracene	7.2
Nickel	180	Chrysene	15
Selenium	250	Benzo(b)fluoranthene	2.6
Zinc	3700	Benzo(k)fluoranthene	77
Hexavalent Chromium	6	Benzo(a)pyrene	2.2
Water Soluble Boron	290	Indeno(123-cd)pyrene	27
Naphthalene	2.3	Dibenz(ah)anthracene	0.24
Acenaphthylene	170	Benzo(ghi)perylene	320
Acenaphthene	210	Asbestos	None detected

It is noted that the SSV are only protective of long-term risk to human health and do not necessarily represent suitable concentrations for planting or landscaping. If necessary, a horticulturalist should be consulted in this regard.

[7] Comprising 'Suitable For Use Levels' (S4ULs), 'The LQM/CIEH Suitable 4 Use Levels, 2015' and for lead, the Category 4 Screening Level (C4SL), SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination. Final Project Report, published by DEFRA, 2014.

All soils must be free from any visual or olfactory evidence of suspected petroleum hydrocarbon contamination and should contain no significant quantity of putrescible material (incl. wood or paper). Along with testing for the contaminants listed above, testing should also be undertaken to confirm the absence of any significant concentrations of petroleum hydrocarbons.

All soils used as surface dressing or as part of the cover system must be free from propagules of aggressive weeds, fragments of glass, bricks, concrete, wire or other potentially hazardous foreign matter and bulk vegetative growth, in order to ensure negligible risk of subsequent weed problems (introduced in the soil) or traumatic injury.

In the event that any individual sample of imported material records concentrations of contaminants above the screening values listed above, the following method of assessment will be undertaken:

- Statistical analysis of the results, along with an assessment of whether any statistical 'outliers' should be removed from the dataset and treated as 'hotspots'. If the data indicates that the majority of the soil mass as a whole may be considered to contain contaminant concentrations below the screening values then it may be deemed suitable to remain.
- Depending on the findings of the analysis additional testing (which may include retests of the original sample) may be undertaken along with further analysis of the results to determine if this is representative of a widespread issue, or may be attributed to a smaller part of the site, or batch of imported soils.
- Liaison with the regulators may be undertaken to agree whether or not the materials are to be considered suitable to remain.

Where testing and analysis identify a significant failure and the procedures above do not provide sufficient evidence that the imported materials are suitable to remain, then the imported soils will be removed and replaced with other suitable soils.

11. POST REMEDIATION RISK ASSESSMENT

The remedial works set out in this report are considered to remove or sever the identified pollutant linkages. A post remediation conceptual model is presented in the following table.

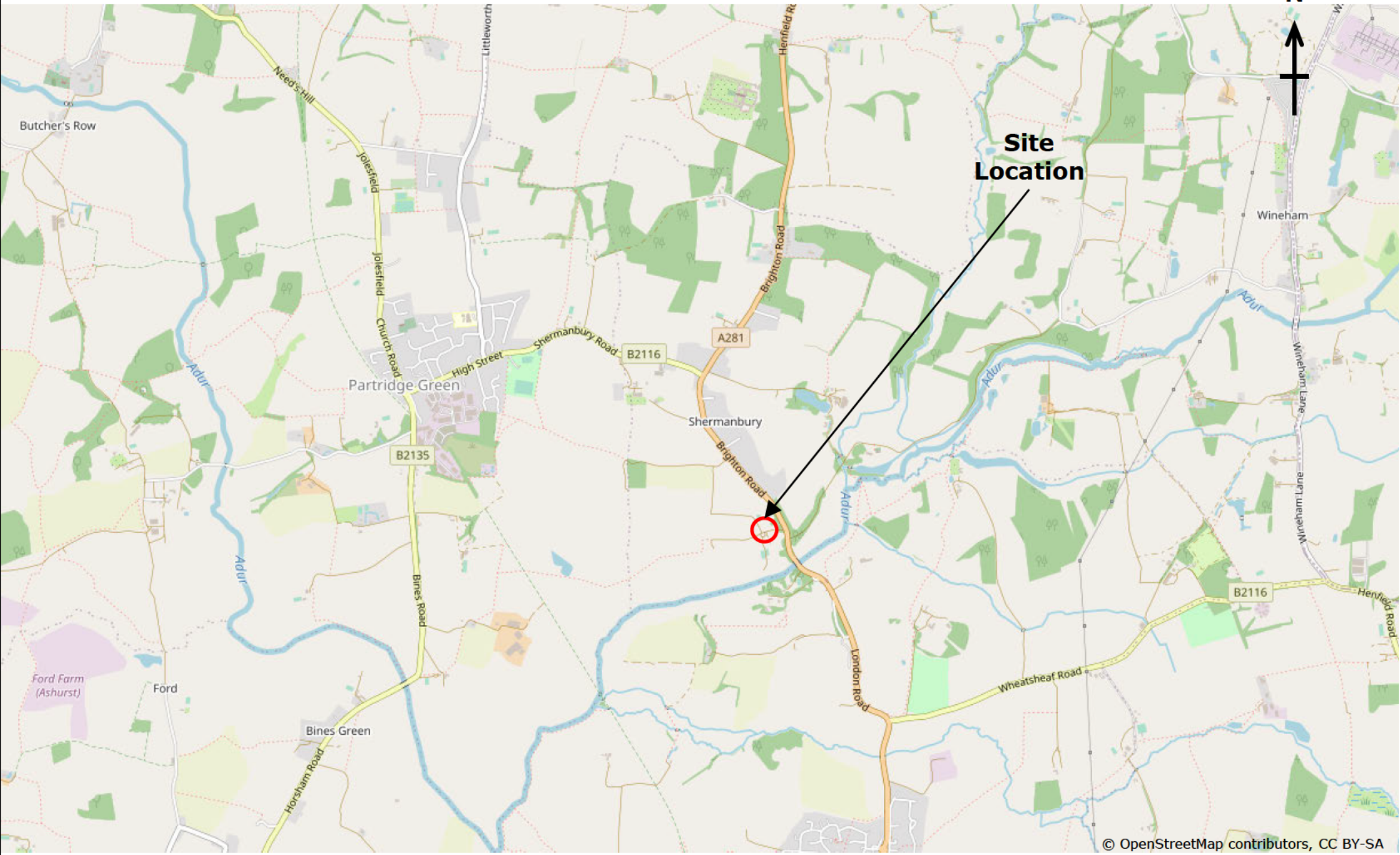
Table 10. Post Remediation Conceptual Model for End Users – Potential Pollutant Linkages and Assessment of Risk

Contaminant Source	Remedial Measures	Potential Pathway(s)	Assessment of Risk to Human Health
Made Ground containing PAH compounds, petroleum hydrocarbons and asbestos within proposed rear and side garden areas.	**Rear and Side Gardens** Removal of all made ground soils OR Placement of 600mm of verified cover soils over a high visibility geotextile marker and geo-grid.	Pathways severed by remedial measures	No significant pollutant linkages identified.

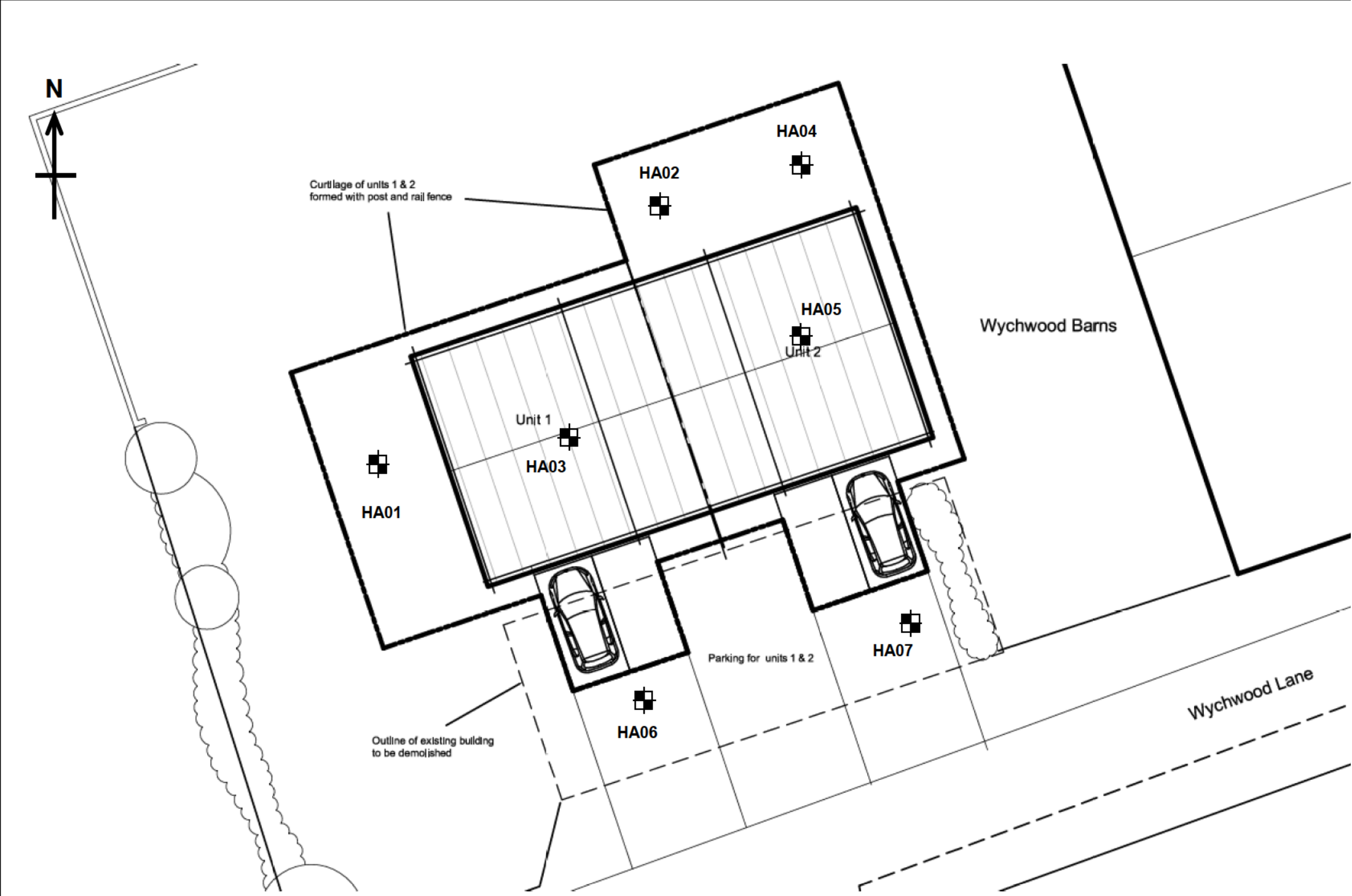
Ashdown Site Investigation Ltd.

FIGURES

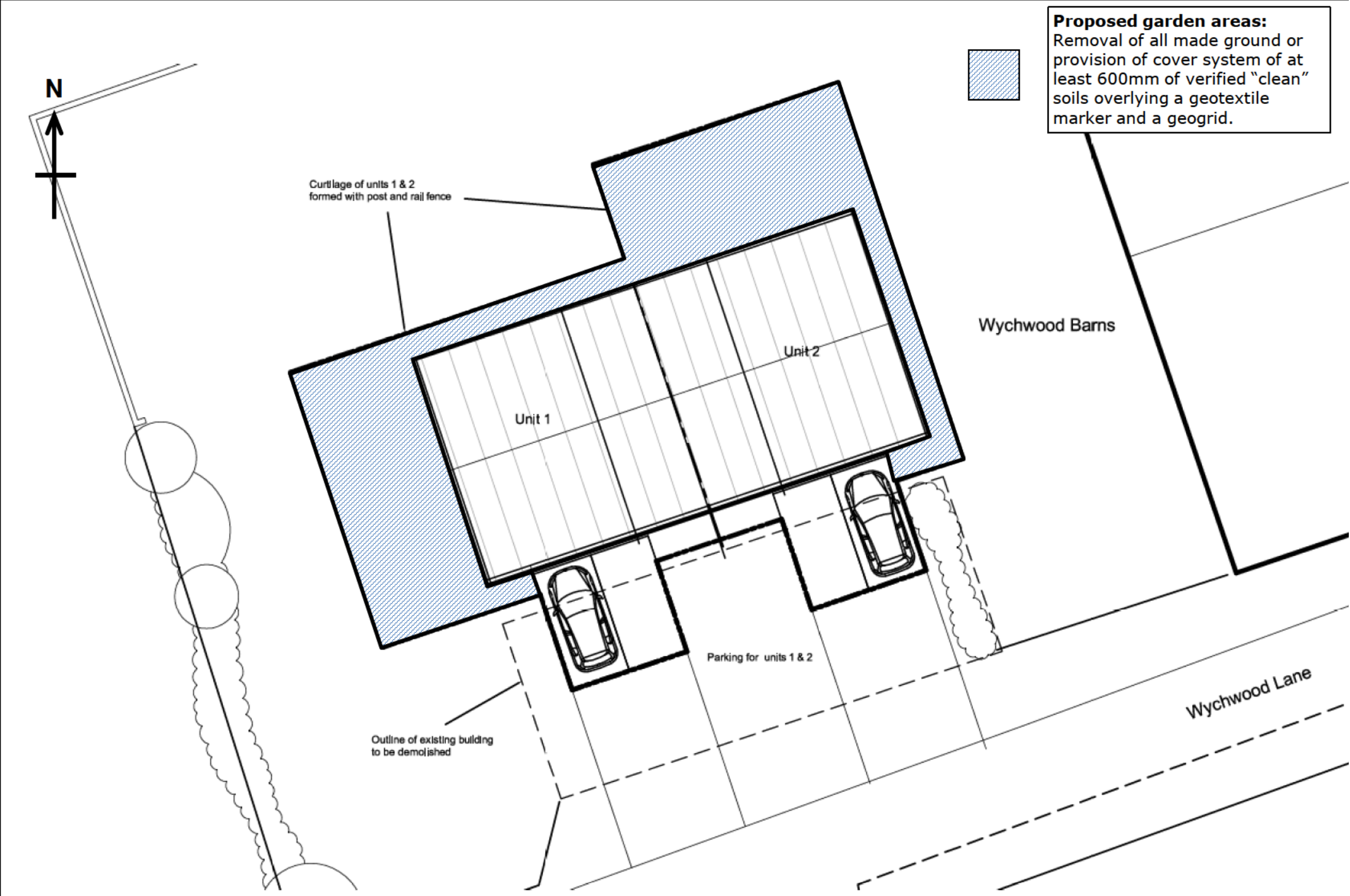
Figure 1 Site Location Plan
Figure 2 Site Plan
Figure 3 Remediation Plan



ASHDOWN SITE INVESTIGATION LIMITED	Site Location Plan	Site Name	Figure No.	Project Reference
		Barn Conversion, Wychwood Lane, Shermanbury	1	P14769



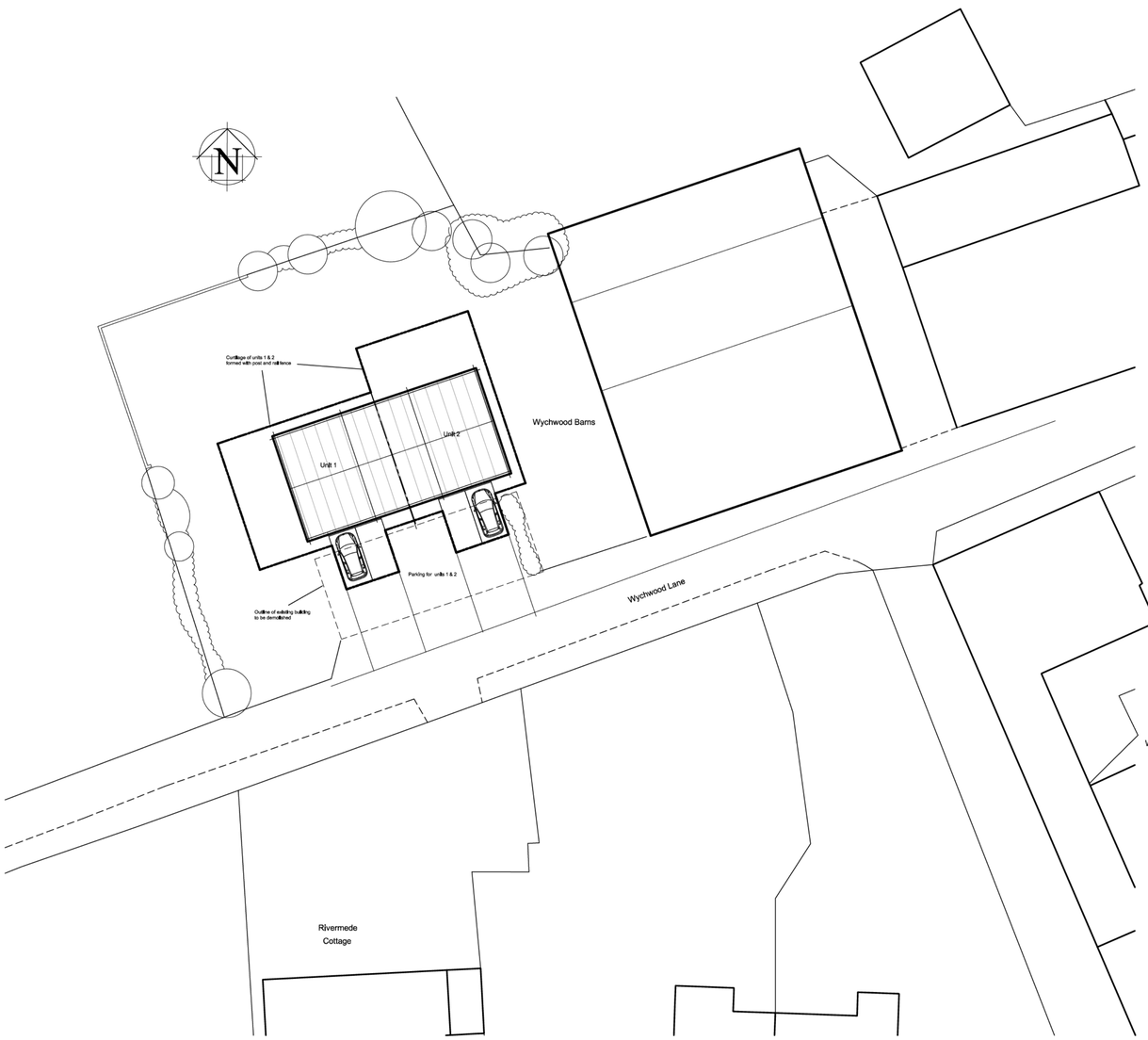
ASHDOWN SITE INVESTIGATION LIMITED	Site Plan	Site Name	Figure No.	Project Reference
		Barn Conversion, Wychwood Lane, Shermanbury	2	P14769



ASHDOWN SITE INVESTIGATION LIMITED	Remediation Plan	Site Name	Figure No.	Project Reference
		Barn Conversion, Wychwood Lane, Shermanbury	3	P14769

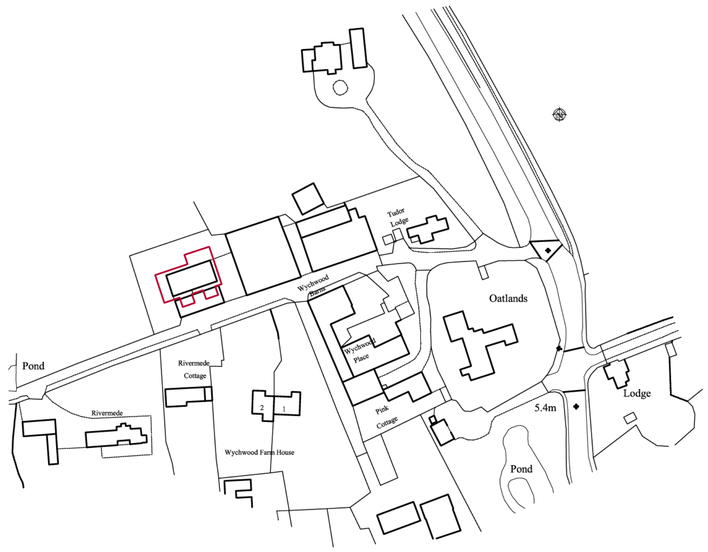
APPENDIX A

Proposed Development Layout



Site Plan

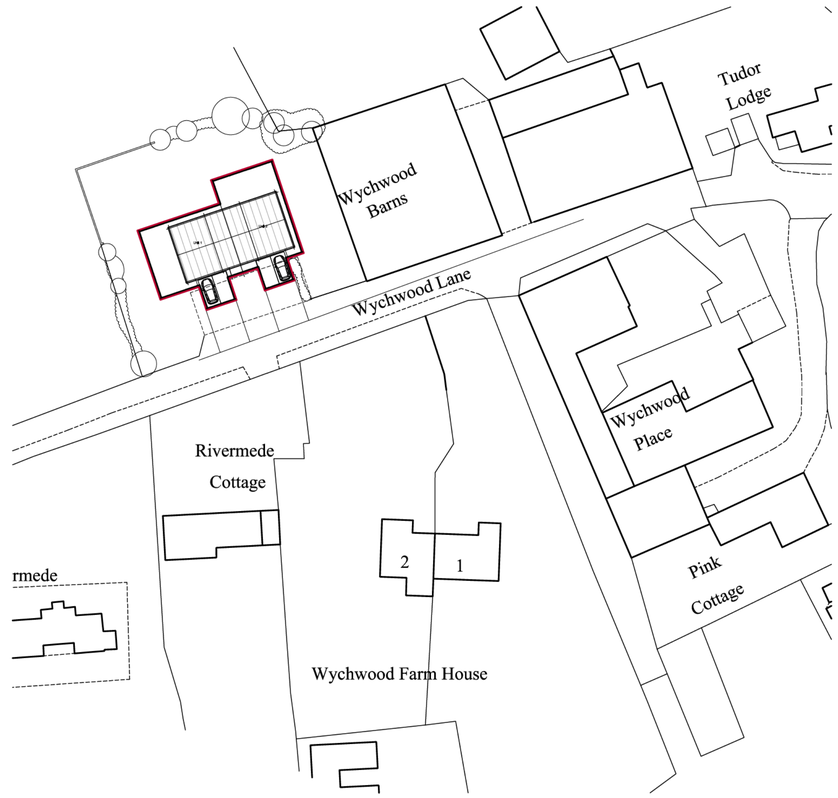
scale 1:200 @ A1



Ordnance Survey (c) Crown Copyright 2018. All rights reserved. Licence number 100022432

Location Plan

scale 1:1250 @ A1



Block Plan

scale 1:500 @ A1

NOTES

DO NOT SCALE OFF THIS DRAWING EXCEPT FOR PLANNING PURPOSES
ALL DIMENSIONS SHOULD CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORK
ALL GOODS MATERIALS AND WORKMANSHIP MUST CONFORM WITH CURRENT BUILDING REGULATIONS, BRITISH STANDARDS AND CODES OF PRACTICE
COPYRIGHT OF THIS DRAWING IS RETAINED BY GARRY MOUNT CHARTERED ARCHITECTTURAL TECHNOLOGIST AND IT MUST NOT BE REPRODUCED WITHOUT WRITTEN CONSENT

REV	DATE	BY	AMENDMENT
A	June 19	GM	Planning issue

CLIENT
Mr R Pettett

JOB TITLE
Change of use of Existing Barns at Wychwood Lane, Shermanbury

DRAWING TITLE
Proposed Site Plan
Location plan and Block Plan

DATE	SCALE	DRAWN BY
Dec 2018	as shown	GM
		CHECKED BY

JOB NO.	DRAWING NO.	REVISION
1801	2.03	A

Garry Mount MCIAT
Chartered Architectural Technologist
34 Penny Acre
Chichester
West Sussex
PO19 6DY
Tel : 07951 332812 email : garrymount@gmail.com

APPENDIX B

Site Walkover Photographs

	View to the west across the inside of the barn to be converted.
	View to the east across the inside of the southern barn, which is to be demolished.
	View to the west across the area to the north of the barn which will form part of the rear garden.

Site Walkover Photographs	**Project Name**	**Project Ref**
	Barn Conversion, Wychwood Lane, Shermanbury	P14769

	View to the south east along the western edge of the barn. This will form the other rear garden area.
	View to the north west at the front (southern) elevation of the southern barn which is to be demolished.

APPENDIX C

Classification of Probability, Consequence and Risk

Probability of risk being realised	
Classification	Definition
High	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution.
Moderate	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Very Low	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

Consequence of risk being realised		
Classification	Category	Definition
Severe	Human Health	Short term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA.
	Controlled Waters	Short term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource.
	Property	Catastrophic damage to buildings/property.
	Ecological Systems	A short term risk to a particular ecosystem or organisation forming part of such ecosystem.
Moderate	Human Health	Chronic damage to Human Health.
	Controlled Waters	Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution).
	Ecological System	A significant change in a particular ecosystem or organism forming part of such ecosystem.
Minor	Controlled Waters	Pollution of non-sensitive water resources.
	Property	Significant damage to crops, buildings, structures and services.
	Ecological Systems	Damage to sensitive buildings/structures/services or the environment.
Very Minor	Human Health	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc).
	Property	Easily repairable effects of damage to buildings, structures and services.
	Project	Harm, although not necessarily significant harm, which may result in a financial loss or expenditure to resolve.

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

APPENDIX D

Preliminary Conceptual Model

Wychwood Lane, Shermanbury				Preliminary Conceptual Model		P14769	
Potential Source	**Potential Receptor**	**Potential Contaminants**	**Potential Pathway**	**Complete Linkage Present?**	**Probability**	**Consequence**	**Risk**
Made ground materials visible at the surface within proposed garden areas	End Users	Heavy Metals, PAH Compounds, Petroleum Hydrocarbons and Asbestos	Dermal contact with soil and dust (indoor & outdoor)	Yes	P3: Moderate	C3: Moderate	Moderate
			Ingestion of soil and indoor dust	Yes	P3: Moderate	C3: Moderate	Moderate
			Consumption of home-grown produce and attached soil	Yes	P3: Moderate	C3: Moderate	Moderate
			Inhalation of soil dust (indoor and outdoor)	Yes	P3: Moderate	C3: Moderate	Moderate
			Inhalation of soil vapours	Yes	P1: Very Low	C3: Moderate	Low
			Inhalation of soil gases/ Risk of explosion	Source does not have signficant gas generation potential.			N/A
	End Users (via Water Supply Pipework)	Petroleum Hydrocarbons	Contamination of incoming services	Yes	P2: Low	C3: Moderate	Low/Moderate
	Groundwater	Heavy Metals, PAH Compounds and Petroleum Hydrocarbons	Migration to groundwater	Yes	P1: Very Low	C1: Very Minor	Negligible
Historical use of the site for agricultural storage purposes	End Users	Petroleum Hydrocarbons	Dermal contact with soil and dust (indoor & outdoor)	Yes	P1: Very Low	C3: Moderate	Low
			Ingestion of soil and indoor dust	Yes	P1: Very Low	C3: Moderate	Low
			Consumption of home-grown produce and attached soil	Yes	P1: Very Low	C3: Moderate	Low
			Inhalation of soil dust (indoor and outdoor)	Yes	P1: Very Low	C3: Moderate	Low
			Inhalation of soil vapours	Yes	P1: Very Low	C3: Moderate	Low
			Inhalation of soil gases/ Risk of explosion	Source does not have signficant gas generation potential.			N/A
	End Users (via Water Supply Pipework)	Petroleum Hydrocarbons	Contamination of incoming services	Yes	P1: Very Low	C3: Moderate	Low
	Groundwater	Petroleum Hydrocarbons	Migration to groundwater	Yes	P1: Very Low	C1: Very Minor	Negligible

APPENDIX E

Laboratory Test Results

Stuart Card
Ashdown Site Investigations Ltd
Unit 3 The Grain Store
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Ditchling Common
West Sussex
BN6 8SG

DETS Ltd
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Lenham Heath
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ME17 2JN
t: 01622 850410

UKAS TESTING
4480

DETS Report No: 20-10673

Site Reference:	Wychwood Lane, Shermanbury
Project / Job Ref:	PN14769
Order No:	8836
Sample Receipt Date:	16/09/2020
Sample Scheduled Date:	16/09/2020
Report Issue Number:	1
Reporting Date:	25/09/2020

Authorised by:

[redacted]

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

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Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

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Soil Analysis Certificate						
DETS Report No: 20-10673	**Date Sampled**	10/09/20	10/09/20	10/09/20	10/09/20	10/09/20
Ashdown Site Investigations Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Wychwood Lane, Shermanbury	**TP / BH No**	HA1	HA2	HA4	HA6	HA7
Project / Job Ref: PN14769	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 8836	**Depth (m)**	0.10 - 0.30	0.10 - 0.30	0.10 - 0.30	0.10 - 0.30	0.10 - 0.30
Reporting Date: 25/09/2020	**DETS Sample No**	499157	499158	499160	499162	499163

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Detected	Not Detected	Detected	Not Detected	Not Detected
Sample Matrix (S)	Material Type	N/a	NONE	Chrysotile Present as bundles		Chrysotile Present in microscopic cement fragment and bundles		
Asbestos Type (S)	PLM Result	N/a	ISO17025	Chrysotile		Chrysotile		
pH	pH Units	N/a	MCERTS	8.3	8.0	8.6	6.9	7.7
Total Sulphate as SO_4	mg/kg	< 200	NONE	1286	1352	1821	4051	8696
Total Sulphate as SO_4	%	< 0.02	NONE	0.13	0.14	0.18	0.41	0.87
Organic Matter	%	< 0.1	MCERTS	4.5	2.5	5.8	2.1	3.6
Arsenic (As)	mg/kg	< 2	MCERTS	11	6	9	< 2	< 2
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	1.9
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	17	10	19	5	4
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	144	14	21	14	15
Lead (Pb)	mg/kg	< 3	MCERTS	56	54	28	4	4
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	11	6	14	4	< 3
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	2.8	2.7	3
Zinc (Zn)	mg/kg	< 3	MCERTS	221	44	46	18	31

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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Rose Lane
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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 20-10673	**Date Sampled**	10/09/20	10/09/20	10/09/20	10/09/20	10/09/20
Ashdown Site Investigations Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Wychwood Lane, Shermanbury	**TP / BH No**	HA1	HA2	HA4	HA6	HA7
Project / Job Ref: PN14769	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 8836	**Depth (m)**	0.10 - 0.30	0.10 - 0.30	0.10 - 0.30	0.10 - 0.30	0.10 - 0.30
Reporting Date: 25/09/2020	**DETS Sample No**	499157	499158	499160	499162	499163

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.67	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	0.27	< 0.1	1.14	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	2.90	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	0.23	< 0.1	2.57	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	3.20	0.49	27.30	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	0.85	0.12	7.40	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	6.50	1.14	84.10	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	5.37	1.07	75.30	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	3.38	0.68	56.70	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	2.81	0.63	48.40	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	4.26	0.90	101	< 0.1	0.11
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	1.56	0.32	31.10	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	3.73	0.78	93.60	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	2.40	0.49	48.90	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.46	< 0.1	9.21	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	2.09	0.47	39.70	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	37.1	7.1	630	< 1.6	< 1.6

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Lenham Heath
Maidstone
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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 20-10673	**Date Sampled**	10/09/20	10/09/20			
Ashdown Site Investigations Ltd	**Time Sampled**	None Supplied	None Supplied			
Site Reference: Wychwood Lane, Shermanbury	**TP / BH No**	HA3	HA5			
Project / Job Ref: PN14769	**Additional Refs**	None Supplied	None Supplied			
Order No: 8836	**Depth (m)**	0.10 - 0.30	0.10 - 0.30			
Reporting Date: 25/09/2020	**DETS Sample No**	499159	499161			

Determinand	Unit	RL	Accreditation	(n)				
EPH Texas (C6 - C8)	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
EPH Texas (>C8 - C10)	mg/kg	< 1	**MCERTS**	< 1	< 1			
EPH Texas (>C10 - C12)	mg/kg	< 1	**MCERTS**	< 1	< 1			
EPH Texas (>C12 - C16)	mg/kg	< 1	**MCERTS**	< 1	3			
EPH Texas (>C16 - C21)	mg/kg	< 1	**MCERTS**	< 1	20			
EPH Texas (>C21 - C40)	mg/kg	< 6	**MCERTS**	15	286			
EPH Texas (C6 - C40)	mg/kg	< 6	NONE	15	309			

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

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Rose Lane
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Soil Analysis Certificate - EPH Banded (Type F)						
DETS Report No: 20-10673	**Date Sampled**	10/09/20	10/09/20	10/09/20	10/09/20	10/09/20
Ashdown Site Investigations Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Wychwood Lane, Shermanbury	**TP / BH No**	HA1	HA2	HA4	HA6	HA7
Project / Job Ref: PN14769	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 8836	**Depth (m)**	0.10 - 0.30	0.10 - 0.30	0.10 - 0.30	0.10 - 0.30	0.10 - 0.30
Reporting Date: 25/09/2020	**DETS Sample No**	499157	499158	499160	499162	499163

Determinand	Unit	RL	Accreditation					
EPH (>C8 - C10)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH (>C10 - C12)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH (>C12 - C16)	mg/kg	< 1	MCERTS	< 1	< 1	44	< 1	< 1
EPH (>C16 - C21)	mg/kg	< 1	MCERTS	24	12	829	< 1	1
EPH (>C21 - C40)	mg/kg	< 6	MCERTS	402	52	3108	13	57
EPH (C8 - C40)	mg/kg	< 6	MCERTS	426	64	3980	13	59

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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 20-10673	
Ashdown Site Investigations Ltd	
Site Reference: Wychwood Lane, Shermanbury	
Project / Job Ref: PN14769	
Order No: 8836	
Reporting Date: 25/09/2020	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
499157	HA1	None Supplied	0.10 - 0.30	4.4	Brown sandy gravel with stones and concrete
499158	HA2	None Supplied	0.10 - 0.30	4.5	Brown sandy clay with stones and brick
499159	HA3	None Supplied	0.10 - 0.30	6.4	White chalk
499160	HA4	None Supplied	0.10 - 0.30	3.3	Black sandy gravel with stones and concrete
499161	HA5	None Supplied	0.10 - 0.30	4.6	White sandy clay with stones and chalk
499162	HA6	None Supplied	0.10 - 0.30	5.5	White sandy clay with stones and chalk
499163	HA7	None Supplied	0.10 - 0.30	4.8	White sandy clay with stones and chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample I/S

Unsuitable Sample U/S

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Maidstone
Kent ME17 2JN
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Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 20-10673
Ashdown Site Investigations Ltd
Site Reference: Wychwood Lane, Shermanbury
Project / Job Ref: PN14769
Order No: 8836
Reporting Date: 25/09/2020

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

APPENDIX F

Quantitative Conceptual Model

Wychwood Lane, Shermanbury				Preliminary Conceptual Model		P14769	
Potential Source	**Potential Receptor**	**Potential Contaminants**	**Potential Pathway**	**Complete Linkage Present?**	**Probability**	**Consequence**	**Risk**
Made Ground containing PAH compounds, Petroleum Hydrocarbons and asbestos within proposed rear and side garden areas	End Users	PAH Compounds, Petroleum Hydrocarbons and Asbestos	Dermal contact with soil and dust (indoor & outdoor)	Yes	P3: Moderate	C3: Moderate	Moderate
			Ingestion of soil and indoor dust	Yes	P3: Moderate	C3: Moderate	Moderate
			Consumption of home-grown produce and attached soil	Yes	P3: Moderate	C3: Moderate	Moderate
			Inhalation of soil dust (indoor and outdoor)	Yes	P3: Moderate	C3: Moderate	Moderate
			Inhalation of soil vapours	Yes	P1: Very Low	C3: Moderate	Low
			Inhalation of soil gases/ Risk of explosion	Source does not have signficant gas generation potential.			N/A
	End Users (via Water Supply Pipework)	Petroleum Hydrocarbons	Contamination of incoming services	Yes	P2: Low	C3: Moderate	Low/Moderate
	Groundwater	PAH Compounds and Petroleum Hydrocarbons	Migration to groundwater	Yes	P1: Very Low	C1: Very Minor	Negligible

APPENDIX G

Envirocheck Report
Groundwater Flood Risk Map
Site Context Maps
Geology Data Maps
Site Sensitivity Maps
Historical Maps

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
255066459_1_1

Customer Reference:
66163.531

National Grid Reference:
520810, 118400

Slice:
A

Site Area (Ha):
0.05

Search Buffer (m):
1000

Site Details:

Building North of Wychwood Lane
Shermanbury
RH13 8HD

Client Details:

Miss A Pickles
Geo Smart Information Limited
Suite 9-11, 1st Floor
Old Bank Buildings
Bellstone
Shrewsbury
Shropshire
SY1 1HU

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	23
Hazardous Substances	-
Geological	24
Industrial Land Use	25
Sensitive Land Use	26
Data Currency	27
Data Suppliers	31
Useful Contacts	32

Introduction

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

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Report Version v53.0

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			4	8
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 4		Yes		
Pollution Incidents to Controlled Waters	pg 4			1	1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 4		1	1	1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 5				1
Substantiated Pollution Incident Register					
Water Abstractions	pg 6				1
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 6	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 6	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	pg 6		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 6		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences	pg 6		Yes	n/a	n/a
OS Water Network Lines	pg 6		21	36	88

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 23	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
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					
Geological					
BGS 1:625,000 Solid Geology	pg 24	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 24	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 24	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 24		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 24	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 24		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 24	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 25		1		2
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 26	1			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: Potential for Groundwater Flooding to Occur at Surface	A13SE (S)	139	1	520806 118250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	368	1	520950 118050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	389	1	520806 118000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	392	1	520850 118000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (E)	441	1	521250 118300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (SW)	481	1	520600 117950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	483	1	521300 118350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (SE)	495	1	521250 118150
1	**Discharge Consents** Operator: Messrs G Brown, S Brown, C Grundy Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 1 & 2 Wychwood Cottages, Shermanbury, Horsham, West Sussex, Rh13 8he Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P03724 Permit Version: 1 Effective Date: 4th July 1991 Issued Date: 4th July 1991 Revocation Date: 31st March 1997 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A13SW (W)	264	2	520540 118320
2	**Discharge Consents** Operator: Robert J & Marilyn S Finch Property Type: Undefined Or Other Location: Maltings Barn,Henfield Maltings Barn, Kidders Lane, London Road, Henfield, West Sussex, Bn5 9ab Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P05051 Permit Version: 1 Effective Date: 21st September 1993 Issued Date: 21st September 1993 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A8NW (S)	389	2	520800 118000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Mr P And Mr G Newman Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 1 Wychwood Cottage Brighton Road, Shermanbury, Horsham, West Sussex, Rh13 8he Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: P11196 Permit Version: 1 Effective Date: 6th June 2003 Issued Date: 6th June 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Land (Soakaway) **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	A8NW (SW)	409	2	520600 118030
3	**Discharge Consents** Operator: Mrs R Newman Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 1 Wychwood Cottage Brighton Road, Shermanbury, Horsham, West Sussex, Rh13 8he Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: P11196 Permit Version: 1 Effective Date: 6th June 2003 Issued Date: 6th June 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Land (Soakaway) **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	A8NW (SW)	409	2	520600 118030
4	**Discharge Consents** Operator: Mrs J Neville-Clarke Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Ewhurst Manor, Shermanbury Ewhurst Manor, Brighton Road, Shermanbury, West Sussex, Rh13 8hg Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: P12310 Permit Version: 1 Effective Date: 7th February 2005 Issued Date: 7th February 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Cowfold Stream Trib.R. Adur **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)	518	2	521160 118800
5	**Discharge Consents** Operator: Mr V Wylie Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Ewhurst Manor, Shermanbury, West Sussex, Rh13 8hg Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P04915 Permit Version: 1 Effective Date: 30th July 1993 Issued Date: 30th July 1993 Revocation Date: 31st March 1997 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	564	2	521100 118900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Verner Wylie Esq Property Type: Undefined Or Other Location: Land At Wood Barn, Ewhurst Manor, Shermanbury Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: N02636 Permit Version: 1 Effective Date: 3rd October 1984 Issued Date: 3rd October 1984 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company 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	A18NE (N)	696	2	520830 119110
7	**Discharge Consents** Operator: John Hudson Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Wood Barn Farm, Ewhurst Manor, Shermanbury, West Sussex, Rh13 8hg Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: Npswqd000498 Permit Version: 1 Effective Date: 30th January 2008 Issued Date: 30th January 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Ground Waters Via A Soakaway **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	A18NE (N)	705	2	520907 119113
8	**Discharge Consents** Operator: MR V WYLIE Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: LAKESIDE COTTAGE, EWHURST MANOR, SHERMANBURY, WEST SUSSEX Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P07816 Permit Version: 1 Effective Date: 4th November 1999 Issued Date: 4th November 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **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	A18NE (NE)	750	2	521140 119090
9	**Discharge Consents** Operator: Mr & Mrs B Barnes Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: The Coach House, Liddle Hill, London Road, Henfield, West Sussex, Bn5 9aa Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P05202 Permit Version: 1 Effective Date: 31st January 1994 Issued Date: 31st January 1994 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	844	2	521300 117700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: The Trustees Of W.A.A. Greenwell Property Type: Undefined Or Other Location: Middle Lodge & Coppards., Shermanbury Place,, Shermanbury,, Horsham, Sx. Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: N03219 Permit Version: 1 Effective Date: 4th July 1979 Issued Date: 4th July 1979 Revocation Date: 31st March 1997 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Into Land **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	858	2	521570 118820
11	**Discharge Consents** Operator: Mr B And Mrs S Hamilton Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Hill House, London Road, Henfield, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09705 Permit Version: 1 Effective Date: 19th December 2001 Issued Date: 19th December 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company 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 10m	A9SW (SE)	920	2	521300 117610
	Nearest Surface Water Feature	A13SW (SW)	63	-	520736 118365
12	**Pollution Incidents to Controlled Waters** Property Type: Dairy Cattle Location: A281 Crosses, River Adur Authority: Environment Agency, Southern Region Pollutant: Organic Wastes: Cattle Manure (solid) Note: Brown Substance In River Adur Incident Date: 2nd March 1996 Incident Reference: 596046 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Farm Cattle - Other Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	265	2	521000 118200
13	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: Shermanbury Garage Authority: Environment Agency, Southern Region Pollutant: Oils - Gas Oil Note: Oil Spillage - Approx 20 Gallons; Schools/Universities Incident Date: 20th December 1995 Incident Reference: 595253 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Oils/Related Products Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	982	2	520100 119100
	River Quality Name: Not Supplied GQA Grade: Unclassified Tidal River Reach: Not Supplied Estimated Distance (km): Not Supplied Flow Rate: Not Supplied Flow Type: Not Supplied Year: 1995	A13SE (SE)	248	2	520920 118168

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Adur East GQA Grade: River Quality C Reach: Shermanbury Place - Wyndham Farm Estimated Distance (km): 3.3 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A14NW (E)	474	2	521275 118533
	River Quality Name: Cowfold Strm GQA Grade: River Quality E Reach: Adur East Conf - Trib 3-20 Conf Estimated Distance (km): 3.6 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A14NW (NE)	523	2	521281 118650
14	**River Quality Chemistry Sampling Points** Name: Cowfold Stream Reach: River Adur East Confluence To Tributary 3-20 Confluence Estimated Distance: 3.60 Objective: Not Supplied Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied	A19SE (NE)	875	2	521600 118800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Water Abstractions** Operator: R G Nash & Sons Licence Number: 10/41/321007 Permit Version: 100 Location: River Adur East Branch At Brighthams Farm Points A - B Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 386 Yearly Rate (m3): 22727 Details: Eatons-, Bines- Brighthams- & Homelands Farms, See Licence Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 8th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	775	2	520150 117960
	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 (NW)	0	3	520806 118400
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (NW)	0	3	520806 118400
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	63	2	520737 118367
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	79	2	520728 118347
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences Type: Flood Defences Reference: Not Supplied	A13SE (S)	221	2	520883 118182
	Flood Defences Type: Flood Defences Reference: Not Supplied	A13SE (SE)	229	2	520999 118253
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 142.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (SW)	78	4	520727 118350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 237.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NE (E)	103	4	520918 118429
18	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 36.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	133	4	520941 118341
19	**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	A13SE (SE)	160	4	520953 118307
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (S)	170	4	520815 118219
21	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NE (NE)	170	4	520881 118570
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NE (N)	172	4	520871 118576
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NE (N)	179	4	520864 118586
24	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 39.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	183	4	520969 118289
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (S)	185	4	520744 118211

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NE (N)	198	4	520844 118609
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (S)	205	4	520744 118191
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NE (N)	210	4	520836 118623
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	219	4	520987 118254
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NE (N)	227	4	520827 118640
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NE (N)	228	4	520827 118641
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 187.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NE (N)	228	4	520827 118641
33	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 27.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	230	4	520997 118249
34	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 196.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A13SE (S)	241	4	520880 118160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 134.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A13SE (S)	247	4	520839 118145
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (S)	247	4	520839 118145
37	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 16.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	253	4	521011 118230
38	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 7.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	258	4	521025 118239
39	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 341.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	258	4	521025 118239
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	266	4	520932 118153
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	266	4	521032 118236
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (S)	272	4	520846 118120
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (S)	280	4	520713 118122

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NW (N)	281	4	520791 118693
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (SW)	283	4	520625 118164
46	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 9.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (S)	294	4	520712 118108
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (SW)	301	4	520622 118143
48	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 128.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A13SW (S)	303	4	520713 118098
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (SW)	305	4	520624 118137
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (S)	314	4	520866 118081
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (S)	314	4	520855 118079
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (S)	318	4	520851 118074

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	327	4	521092 118216
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18SW (N)	357	4	520776 118768
55	**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	A13SE (SE)	361	4	521127 118207
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SW (SW)	364	4	520588 118090
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 86.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	365	4	521130 118204
58	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 41.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A13SW (SW)	383	4	520588 118066
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18SW (N)	388	4	520771 118799
60	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 411.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A8NW (SW)	416	4	520550 118053
61	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8NW (SW)	416	4	520550 118053

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18SW (N)	422	4	520753 118831
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8NW (SW)	424	4	520547 118046
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8NW (SW)	434	4	520554 118029
65	**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	A14SW (SE)	446	4	521187 118142
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SW (SE)	446	4	521187 118142
67	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 58.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NW (E)	454	4	521270 118456
68	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 180.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A14NW (E)	454	4	521270 118456
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8NW (SW)	458	4	520558 117997
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SW (SE)	492	4	521211 118097

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18SW (N)	498	4	520721 118903
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18SW (N)	500	4	520720 118905
73	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 104.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A14NW (NE)	506	4	521267 118641
74	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 89.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A14NW (NE)	508	4	521273 118634
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NW (E)	510	4	521327 118446
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NW (E)	513	4	521331 118445
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NW (E)	530	4	521350 118404
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	536	4	521232 118052
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	536	4	521232 118052

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 192.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	537	4	521221 118038
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NW (E)	541	4	521360 118428
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A14NW (NE)	543	4	521254 118733
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cowfold Stream Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	549	4	521238 118763
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 718.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cowfold Stream Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	549	4	521238 118763
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	550	4	521249 118752
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cowfold Stream Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	550	4	521243 118759
87	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 22.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	559	4	521260 118751
88	**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	A14SW (E)	571	4	521391 118394

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	575	4	521282 118747
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 176.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SW (E)	576	4	521396 118399
91	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 75.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	579	4	521288 118747
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	583	4	521253 118006
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A14NW (NE)	585	4	521335 118682
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 202.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	588	4	521256 118001
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 229.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A14NW (NE)	612	4	521359 118693
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 2	A14NW (NE)	612	4	521359 118693
97	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 2	A14NW (NE)	613	4	521359 118696

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NE (W)	613	4	520182 118475
99	**OS Water Network Lines** Watercourse Form: Transfer Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: False Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 2	A14NW (NE)	614	4	521359 118699
100	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 20.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 2	A14NW (NE)	615	4	521359 118701
101	**OS Water Network Lines** Watercourse Form: Transfer Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: False Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 2	A14NW (NE)	625	4	521359 118721
102	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 16.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 2	A14NW (NE)	626	4	521359 118723
103	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 64.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A14NW (NE)	637	4	521362 118739
104	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 14.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NE (W)	646	4	520147 118452
105	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 108.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NE (W)	646	4	520147 118452
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NE (W)	661	4	520132 118452

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NE (W)	677	4	520132 118559
108	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 7.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NE (W)	679	4	520132 118565
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 155.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A17SE (NW)	681	4	520253 118819
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	686	4	520123 118248
111	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 74.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A14NW (NE)	693	4	521432 118729
112	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 56.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 2	A19SW (NE)	694	4	521426 118743
113	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 68.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NW (W)	724	4	520111 118652
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SE (SW)	727	4	520140 118074
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NW (W)	729	4	520106 118649

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 253.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SE (E)	731	4	521546 118310
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SE (E)	732	4	521546 118313
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 180.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NW (W)	736	4	520074 118567
119	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 48.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	743	4	521474 118755
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	747	4	520059 118251
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NW (NW)	751	4	520107 118711
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 288.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8SW (SW)	756	4	520498 117694
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	763	4	520043 118254
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 268.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12NW (W)	764	4	520030 118478

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	767	4	520109 118753
126	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	769	4	520110 118761
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	771	4	520111 118764
128	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 77.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	772	4	520156 117956
129	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	772	4	520156 117956
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18NE (N)	780	4	521041 119160
131	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18NE (N)	783	4	521039 119164
132	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18NE (N)	788	4	521035 119170
133	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 148.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	790	4	521510 118789

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	793	4	520187 117881
135	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 400.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	801	4	521569 118684
136	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	801	4	520002 118263
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 177.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A14NE (NE)	802	4	521559 118713
138	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 320.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NW (SW)	810	4	520068 118031
139	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NW (SW)	841	4	520085 117938
140	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NW (SW)	845	4	520113 117890
141	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 17.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NW (SW)	847	4	520086 117926
142	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 157.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A7NW (SW)	849	4	520094 117910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 115.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	867	4	519934 118271
144	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18NE (N)	887	4	521027 119275
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 411.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 2	A19SE (NE)	891	4	521534 118940
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A18NE (N)	892	4	521025 119280
147	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 487.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	923	4	519899 118164
148	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 2	A19SE (NE)	935	4	521623 118884
149	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	935	4	521623 118884
150	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 2	A19SE (NE)	935	4	521623 118884
151	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 2	A19SE (NE)	936	4	521621 118888

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.4 Watercourse Level: Underground Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	937	4	521625 118885
153	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 321.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	939	4	521649 118846
154	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 249.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	949	4	521635 118891
155	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SE (E)	957	4	521756 118198
156	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14SE (E)	961	4	521760 118196
157	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 123.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (N)	988	4	521162 119339
158	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 402.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Cutlers Brook Catchment Name: Adur and Teville Primacy: 1	A7SE (SW)	992	4	520300 117530
159	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 270.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A7NW (SW)	997	4	519992 117798
160	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NW (SW)	997	4	519992 117798

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Horsham District Council - Has supplied landfill data		0	5	520806 118400
	Local Authority Landfill Coverage Name: West Sussex County Council - Has supplied landfill data		0	6	520806 118400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Wealden Group	A13SE (NW)	0	1	520806 118400
	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	A13SE (NW)	0	1	520806 118400
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	520806 118400
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	68	1	520755 118334
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	520806 118400
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	68	1	520755 118334
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	520806 118400
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	520806 118400
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	520806 118400
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	68	1	520755 118334
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NW)	0	1	520806 118400
	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	A13SE (NW)	0	1	520806 118400
	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	A13SE (NW)	0	1	520806 118400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
161	**Contemporary Trade Directory Entries** Name: Classic Choice Location: Wychwood Farm, Brighton Road, Shermanbury, Horsham, West Sussex, RH13 8HE Classification: Classic Car Specialists **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	49	-	520842 118351
162	**Contemporary Trade Directory Entries** Name: Task Force Location: Diamond Hill, Brighton Road, Shermanbury, Horsham, West Sussex, RH13 8HB Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	552	-	520591 118920
163	**Contemporary Trade Directory Entries** Name: Autospeciali Location: Walver, Brighton Road, Shermanbury, Horsham, West Sussex, RH13 8HB Classification: Car Customizing Specialists **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NW (N)	737	-	520569 119109

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	**Nitrate Vulnerable Zones** Name: Adur East (Sakeham) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SE (NW)	0	3	520806 118400
165	**Nitrate Vulnerable Zones** Name: Chess Stream Nvz Description: Surface Water Source: Environment Agency, Head Office	A8NE (S)	617	3	520917 117783

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Horsham District Council - Environmental Health Department	February 2015	Annual Rolling Update
Environment Agency - Head Office	June 2020	Annually
Mid Sussex District Council - Environmental Services Section	November 2014	Annual Rolling Update
Discharge Consents		
Environment Agency - Southern Region	July 2020	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	July 2020	Quarterly
Environment Agency - Southern Region	July 2020	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Horsham District Council - Environmental Health Department	June 2015	Variable
Mid Sussex District Council - Environmental Services Section	September 2014	Variable
Local Authority Pollution Prevention and Controls		
Horsham District Council - Environmental Health Department	June 2015	Annual Rolling Update
Mid Sussex District Council - Environmental Services Section	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Horsham District Council - Environmental Health Department	June 2015	Variable
Mid Sussex District Council - Environmental Services Section	September 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	June 2020	
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	July 2020	Quarterly
Environment Agency - Southern Region - Solent and South Downs	July 2020	Quarterly
Environment Agency - Southern Region - Sussex Area	July 2020	Quarterly
Water Abstractions		
Environment Agency - Southern Region	July 2020	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

Data Currency

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	June 2020	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	June 2020	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	June 2020	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	June 2020	Quarterly
Flood Defences		
Environment Agency - Head Office	June 2020	Quarterly
OS Water Network Lines		
Ordnance Survey	June 2020	Quarterly
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	July 2020	Quarterly
Environment Agency - Southern Region - Solent and South Downs	July 2020	Quarterly
Environment Agency - Southern Region - Sussex Area	July 2020	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - South East Region - Solent & South Downs Area	July 2020	Quarterly
Environment Agency - Southern Region - Solent and South Downs	July 2020	Quarterly
Environment Agency - Southern Region - Sussex Area	July 2020	Quarterly
Local Authority Landfill Coverage		
Horsham District Council - Environmental Health Department	May 2000	Not Applicable
Mid Sussex District Council - Environmental Services Section	May 2000	Not Applicable
West Sussex County Council - Environment & Development	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Horsham District Council - Environmental Health Department	May 2000	Not Applicable
Mid Sussex District Council - Environmental Services Section	May 2000	Not Applicable
West Sussex County Council - Environment & Development	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - Southern Region - Solent and South Downs	March 2003	Not Applicable
Environment Agency - Southern Region - Sussex Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Southern Region - Solent and South Downs	March 2003	Not Applicable
Environment Agency - Southern Region - Sussex Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Southern Region - Solent and South Downs	March 2003	Not Applicable
Environment Agency - Southern Region - Sussex Area	March 2003	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	August 2015	Variable
Mid Sussex District Council	January 2016	Variable
West Sussex County Council - Environment & Development	October 2006	Annual Rolling Update
Planning Hazardous Substance Consents		
Horsham District Council - Planning Department	August 2015	Variable
Mid Sussex District Council	January 2016	Variable
West Sussex County Council - Environment & Development	October 2006	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 Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	June 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	July 2020	Quarterly
Fuel Station Entries		
Catalist Ltd - Experian	June 2020	Quarterly
Gas Pipelines		
National Grid	July 2014	
Underground Electrical Cables		
National Grid	August 2020	
Sensitive Land Use	**Version**	**Update Cycle**
Ancient Woodland		
Natural England	April 2020	Bi-Annually
Areas of Adopted Green Belt		
Horsham District Council - Planning Department	June 2020	As notified
Mid Sussex District Council	June 2020	As notified
South Downs National Park	June 2020	As notified
Areas of Unadopted Green Belt		
Horsham District Council - Planning Department	June 2020	As notified
Mid Sussex District Council	June 2020	As notified
South Downs National Park	June 2020	As notified
Areas of Outstanding Natural Beauty		
Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	April 2020	Bi-Annually
Marine Nature Reserves		
Natural England	July 2019	Bi-Annually
National Nature Reserves		
Natural England	July 2019	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	December 2017	Bi-Annually
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites		
Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural England	May 2020	Bi-Annually
Special Areas of Conservation		
Natural England	July 2020	Bi-Annually
Special Protection Areas		
Natural England	April 2019	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

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

Useful Contacts

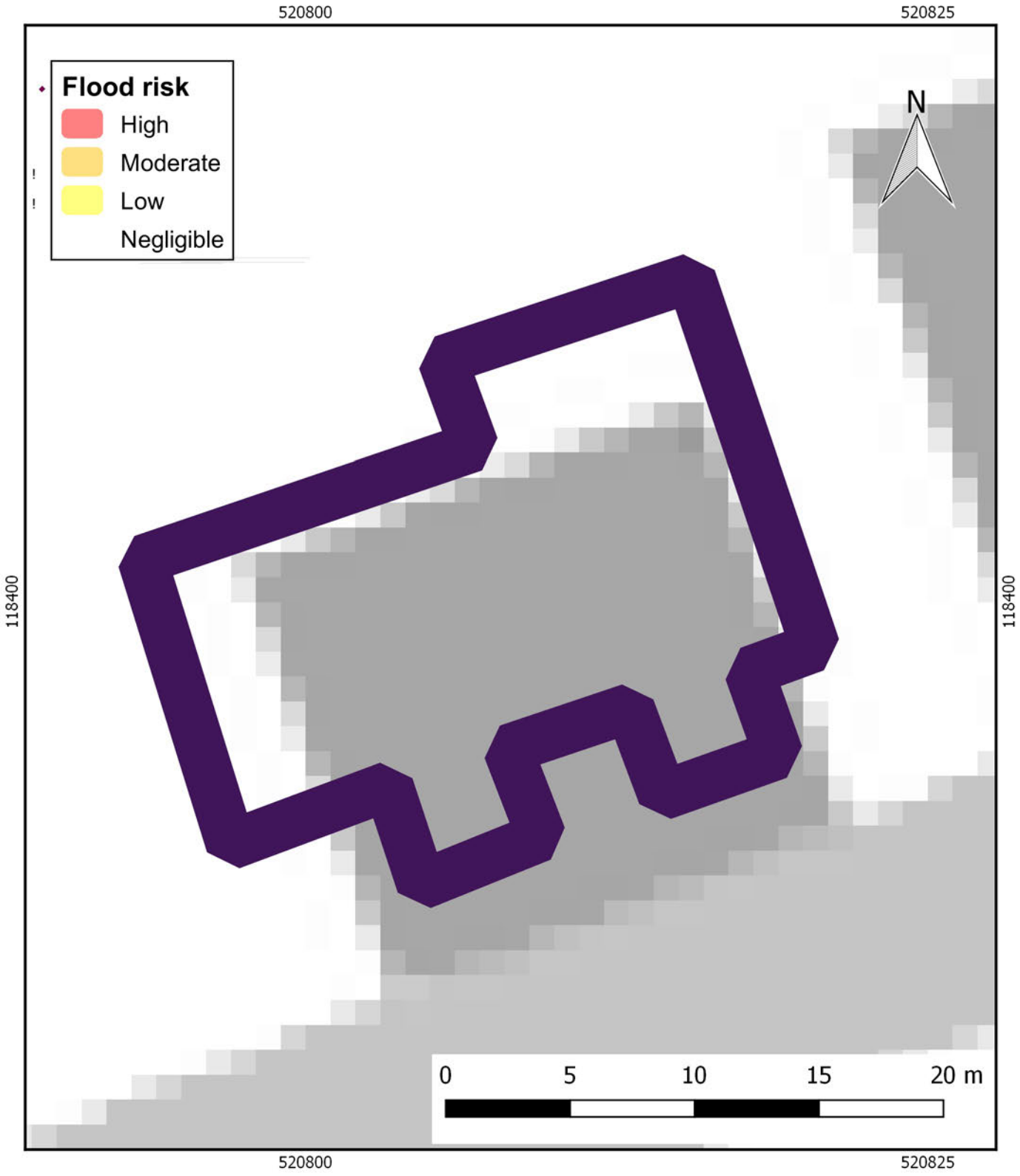
Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**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	**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

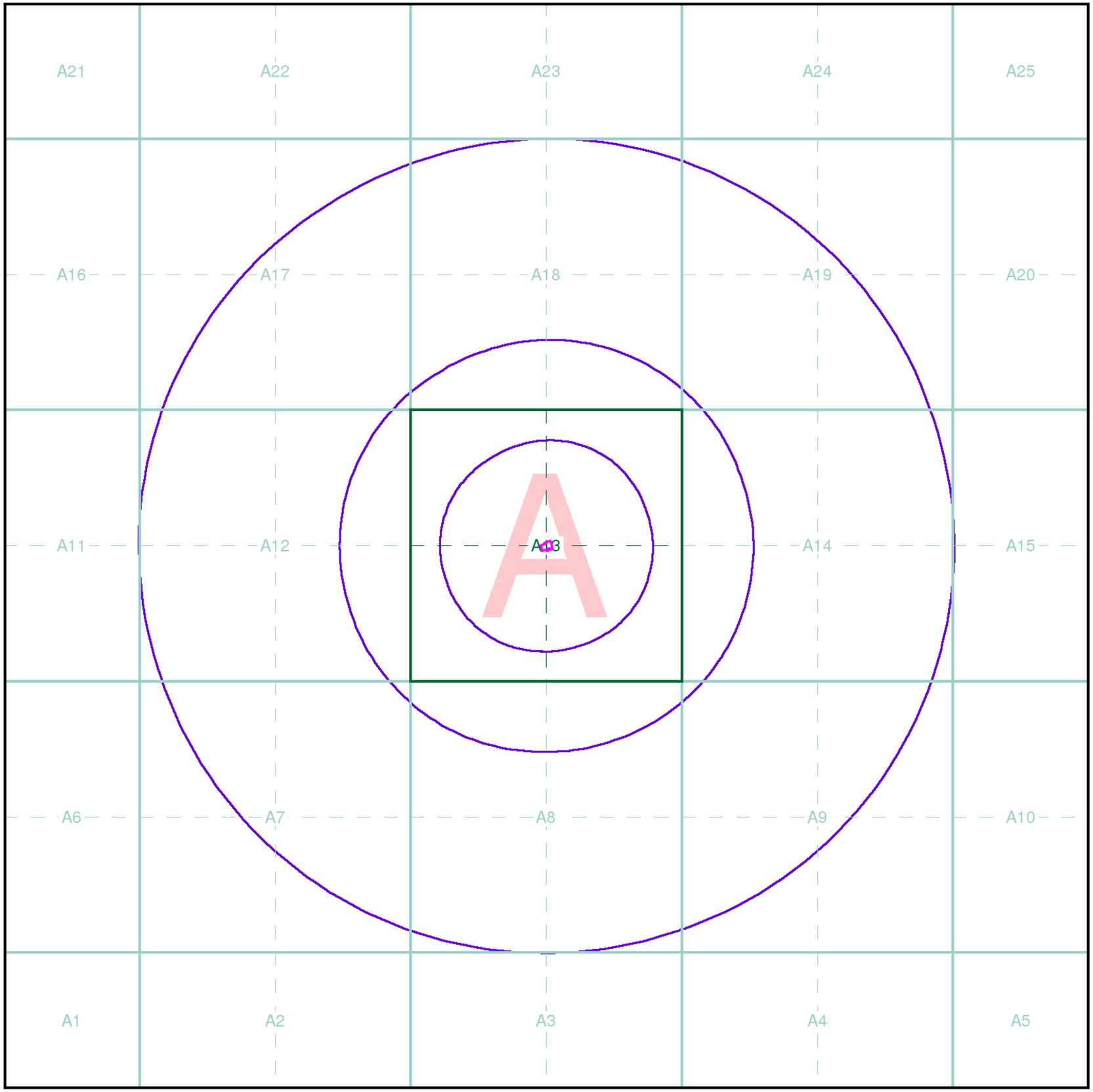
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

GeoSmart Information

Environmental Thinking

GeoSmart GW5 Groundwater Flood Risk Map V2.3





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

Miss A Pickles, Geo Smart Information Limited, Suite 9-11, 1st Floor, Old Bank Buildings, Bellstone, Shrewsbury, Shropshire, SY1 1HU

Order Details

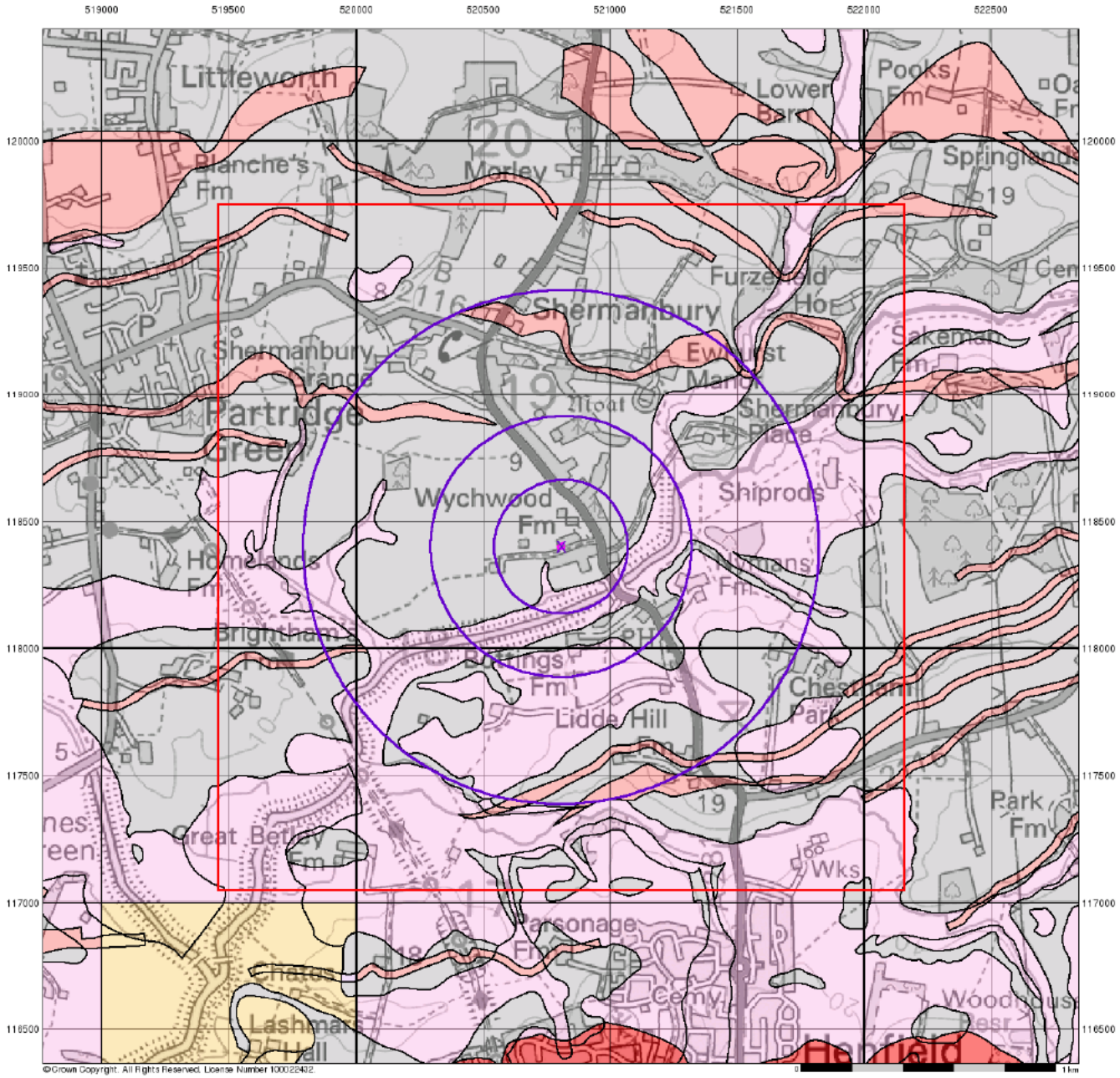
Order Number:	255066459_1_1
Customer Ref:	66163.531
National Grid Reference:	520810, 118400
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

Building North of Wychwood Lane, Shermanbury, RH13 8HD

Full Terms and Conditions can be found on the following link:
http://www.landmarkinfo.co.uk/Terms/Show/515

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



GeoSmart Information

Environmental Thinking

Groundwater Vulnerability

General

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

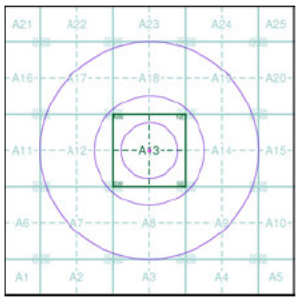
Agency and Hydrological

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

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



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Site Details

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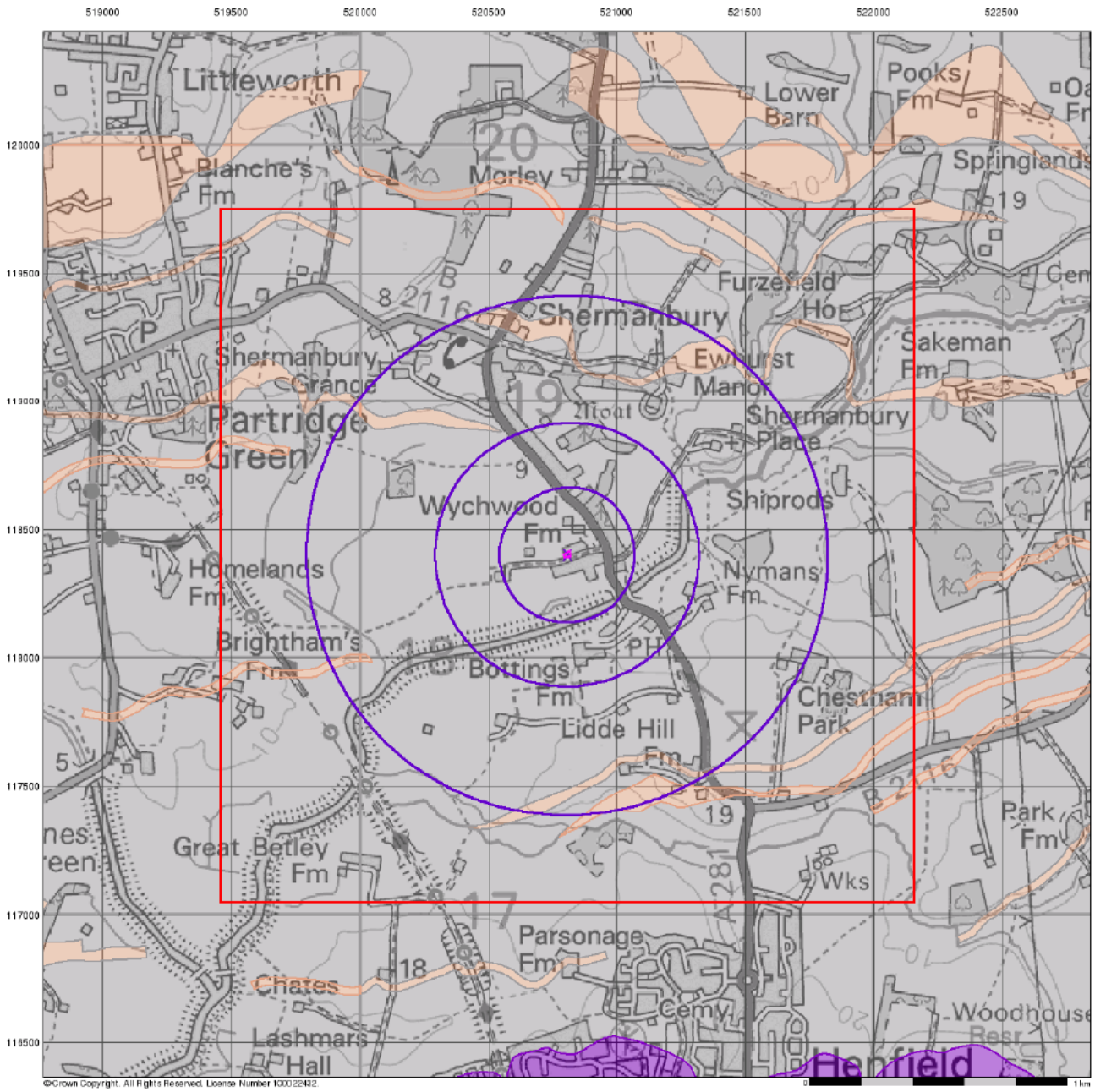


GeoSmart Information

Environmental Thinking

Bedrock Aquifer Designation

General

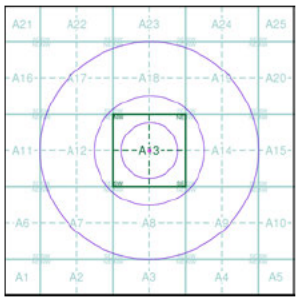
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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



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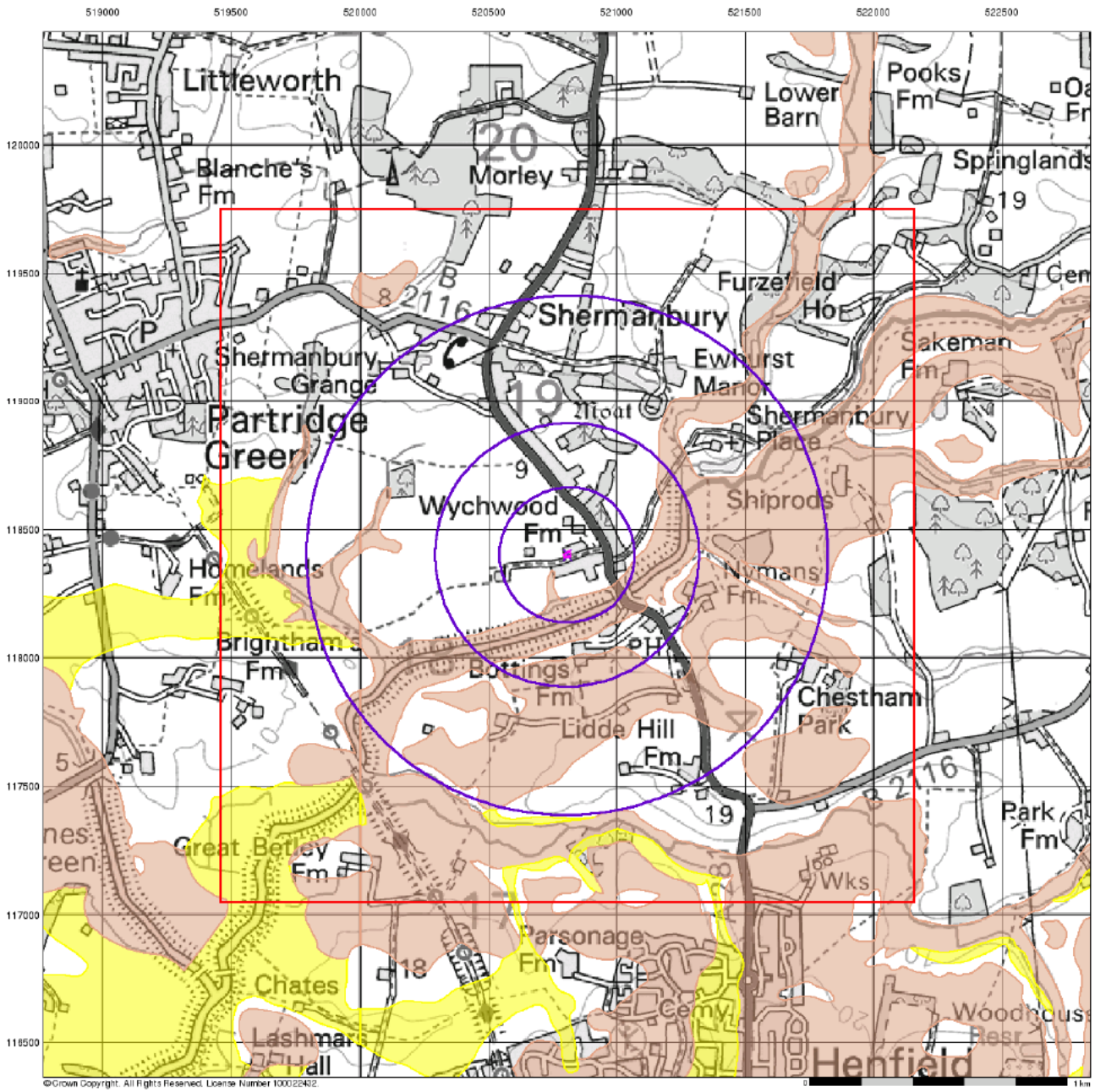
Site Details

Building North of Wychwood Lane, Shermanbury, RH13 8HD



GeoSmart Information

Environmental Thinking

Superficial Aquifer Designation

General

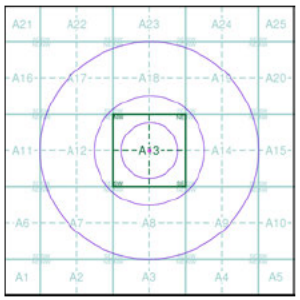
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



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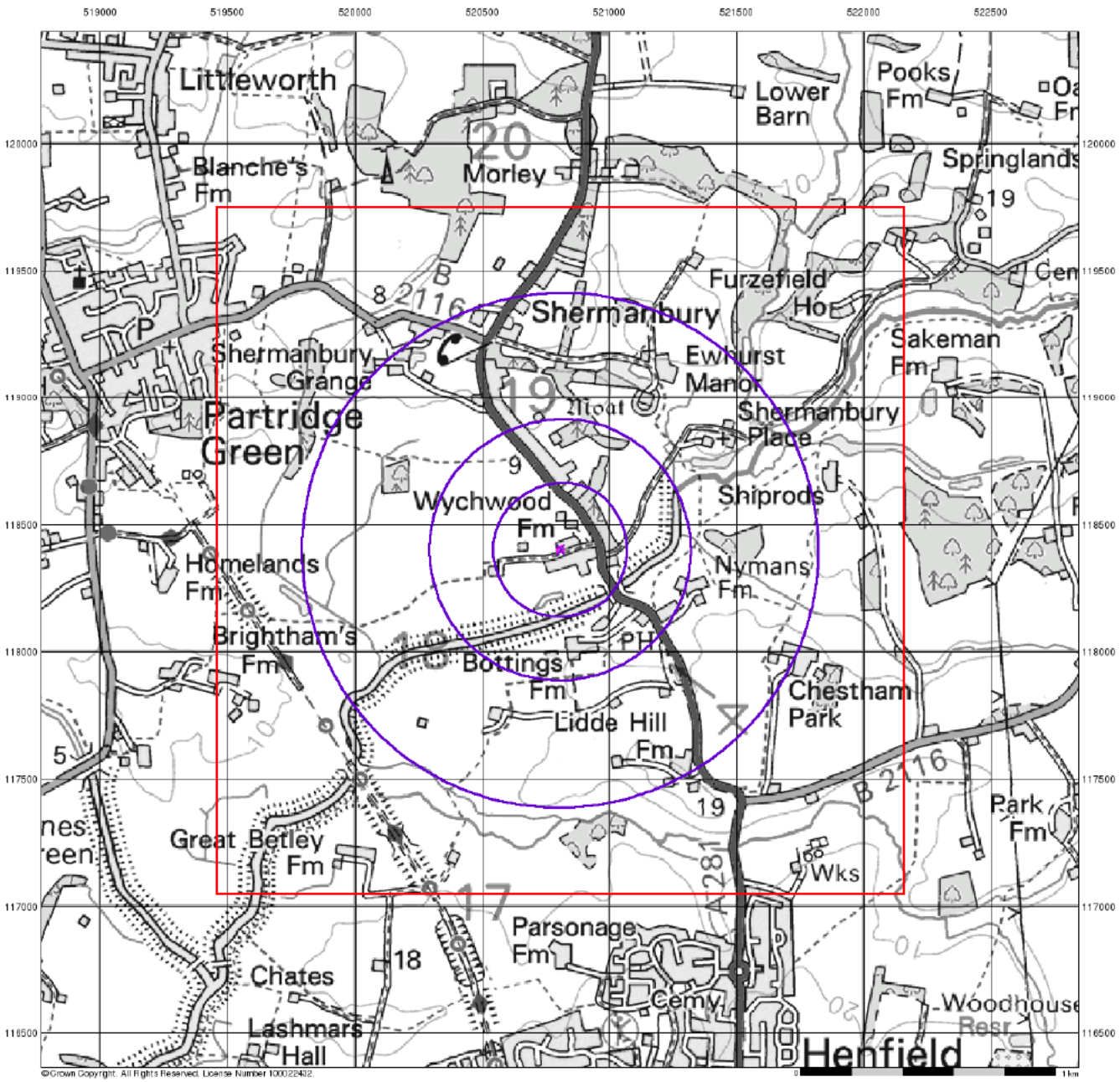
Building North of Wychwood Lane, Shermanbury, RH13 8HD



GeoSmart Information

Environmental Thinking

Source Protection Zones

General

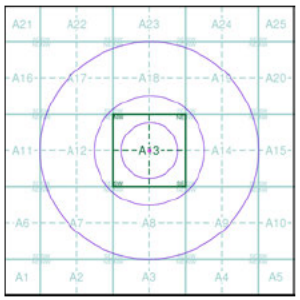
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



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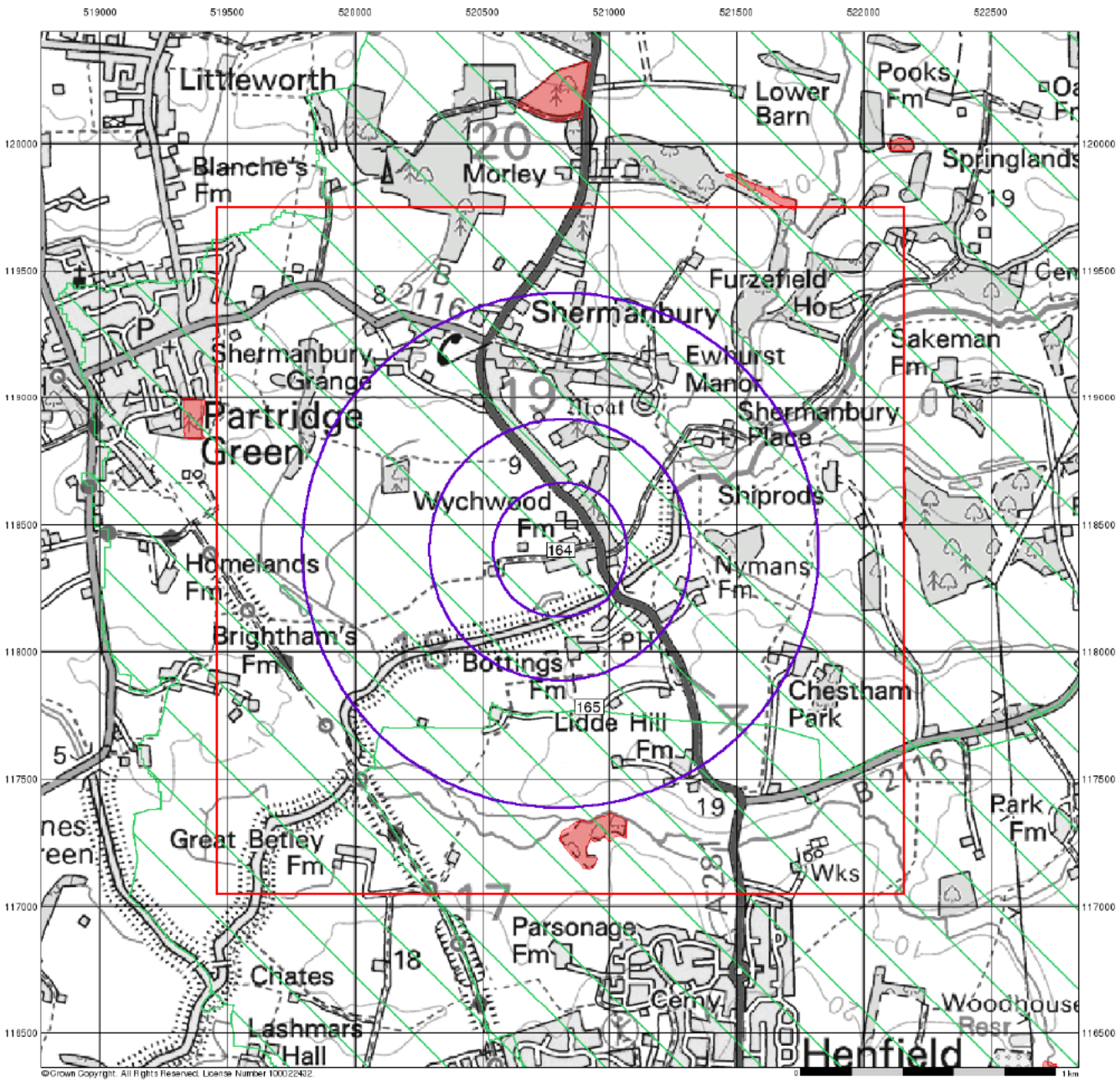


GeoSmart Information

Environmental Thinking

Sensitive Land Uses

General

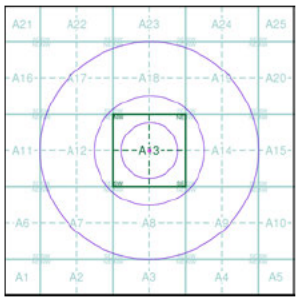
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



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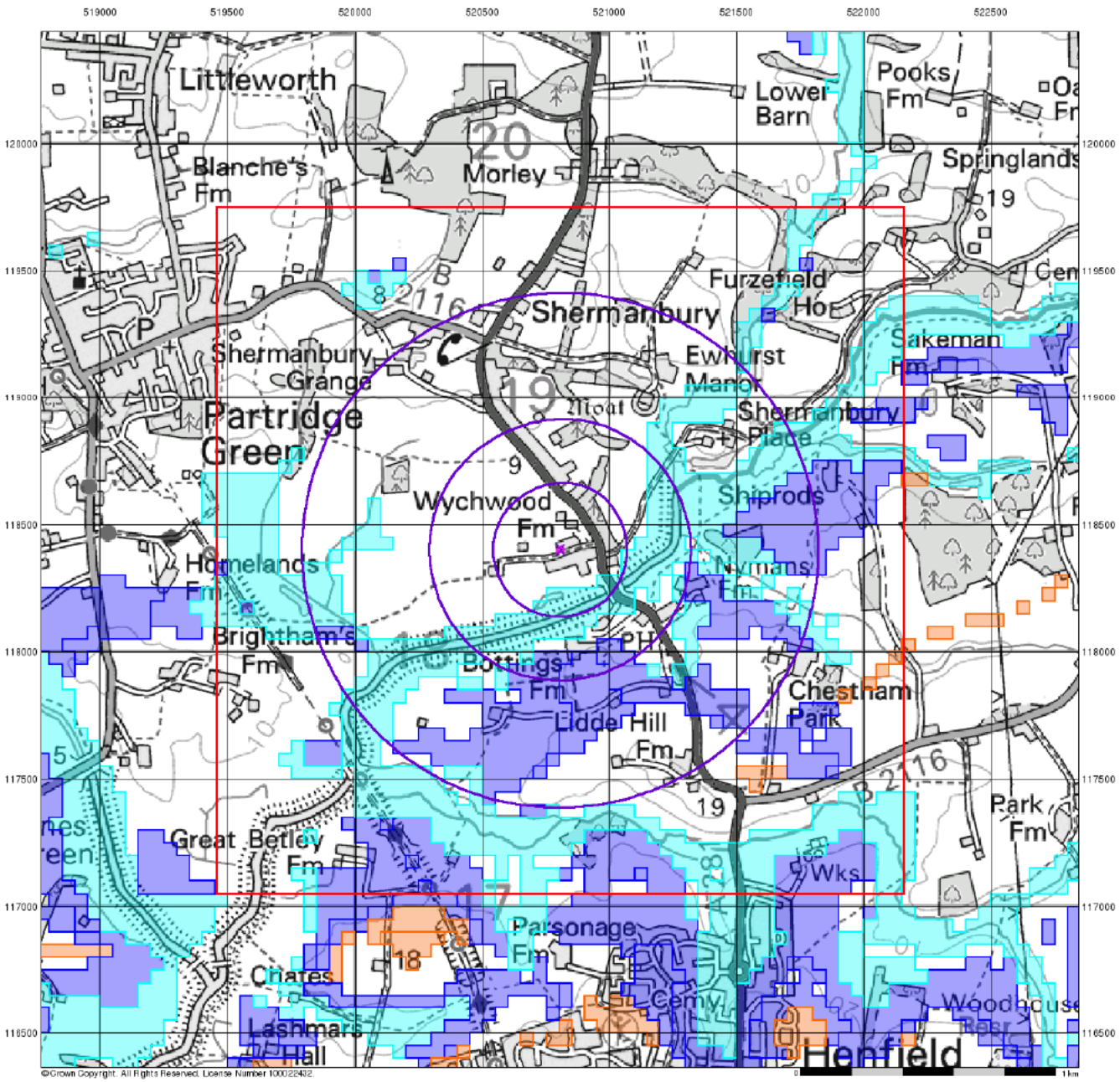
Search Buffer (m):	1000

Site Details

Building North of Wychwood Lane, Shermanbury, RH13 8HD



GeoSmart Information

Environmental Thinking

BGS Flood GFS Data

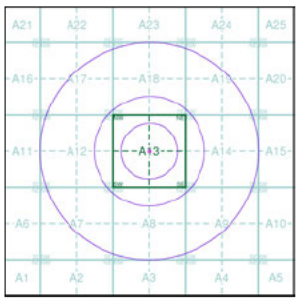
General

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



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Slice:	A
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Search Buffer (m):	1000

Site Details

Building North of Wychwood Lane, Shermanbury, RH13 8HD

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	ALV	Alluvium	Clay, Silt, Sand And Peat	Not Supplied - Holocene
	AD2	River Terrace Deposits, 2 (Adur)	Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	AD3	River Terrace Deposits, 3 (Adur)	Sand and Gravel	Not Supplied - Quaternary
	AD1T2	River Terrace Deposits, 1-2 (Adur)	Sand and Gravel	Not Supplied - Quaternary
	AD1	River Terrace Deposits, 1 (Adur)	Sand and Gravel	Not Supplied - Quaternary
	AD2T3	River Terrace Deposits, 2 to 3 (Adur)	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LGS	Lower Greensand Group	Sandstone, Silty	Not Supplied - Aptian
	WC	Weald Clay Formation	Mudstone	Not Supplied - Hauterivian
	WC	Weald Clay Formation	Sandstone	Not Supplied - Hauterivian
	WC	Weald Clay Formation	Limestone	Not Supplied - Hauterivian
		Faults		

GeoSmart Information

Environmental Thinking

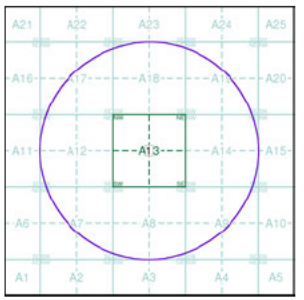
Geology 1:50,000 Maps

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

Geology 1:50,000 Maps Coverage

Map ID:	**1**
Map Sheet No:	**318**
Map Name:	**Brighton and Wo**
Map Date:	**2006**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Available**
Faults:	**Not Supplied**
Landslip:	**Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A

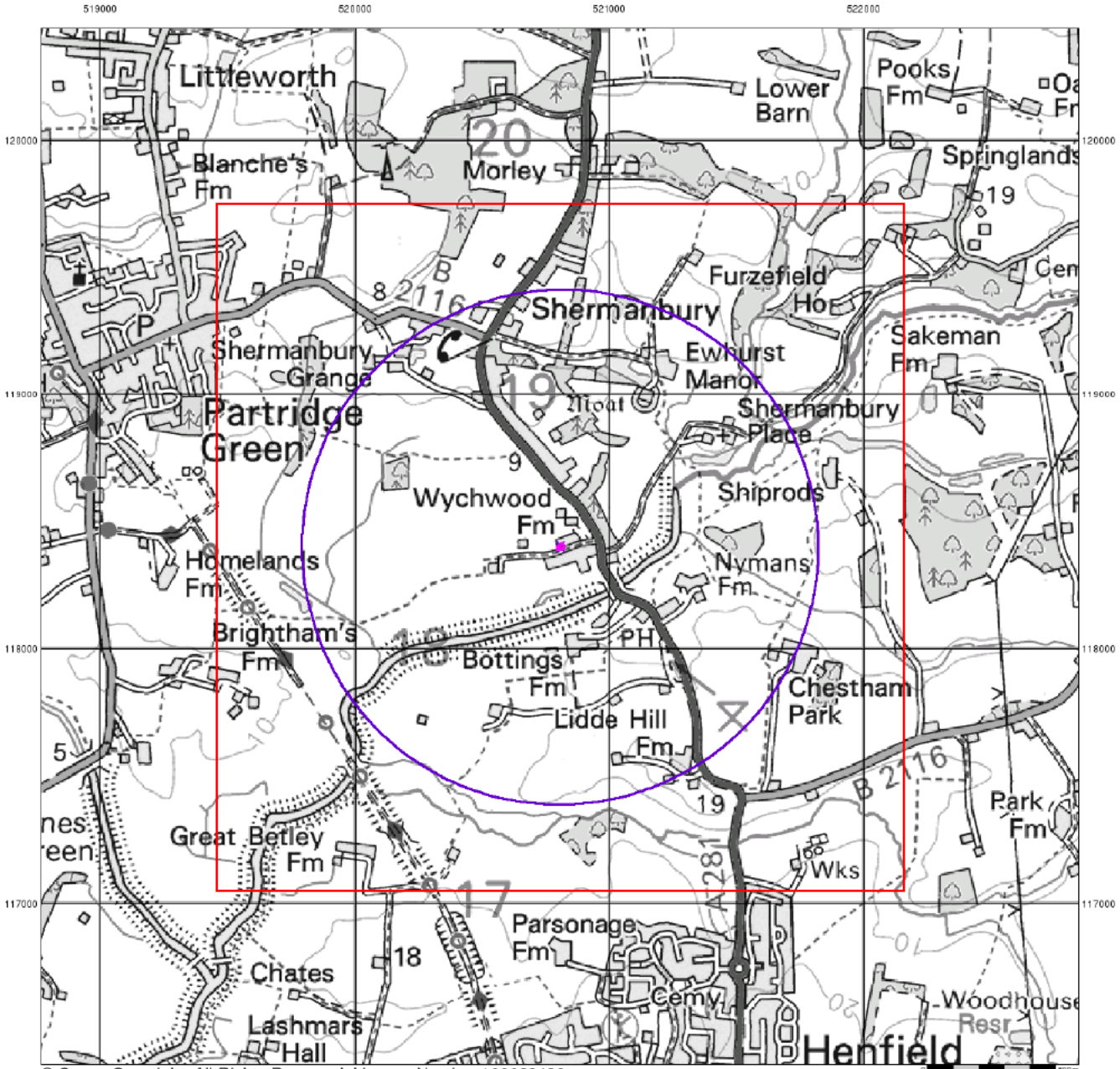


Order Details:

Order Number:	255066459_1_1
Customer Reference:	66163.531
National Grid Reference:	520810, 118400
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details:

Building North of Wychwood Lane, Shermanbury, RH13 8HD



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GeoSmart Information
Environmental Thinking

Artificial Ground and Landslip

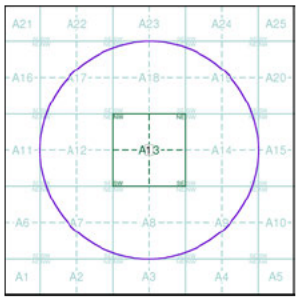
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



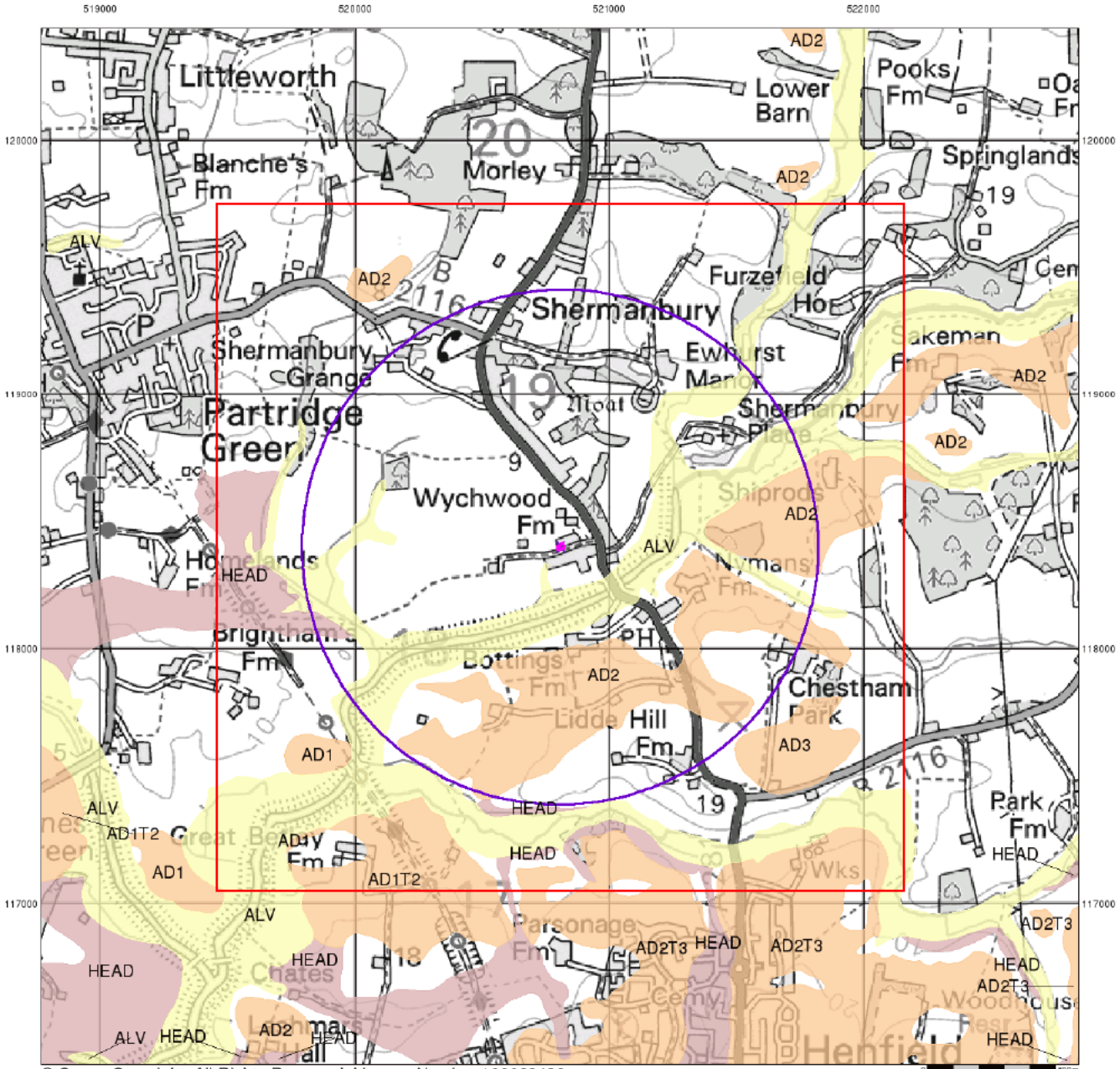
Order Details:

Order Number:	255066459_1_1
Customer Reference:	66163.531
National Grid Reference:	520810, 118400
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details:

Building North of Wychwood Lane, Shermanbury, RH13 8HD

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



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GeoSmart Information

Environmental Thinking

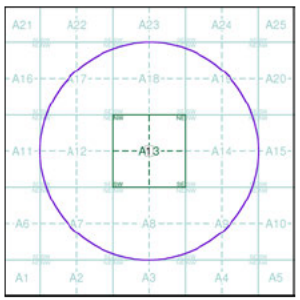
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



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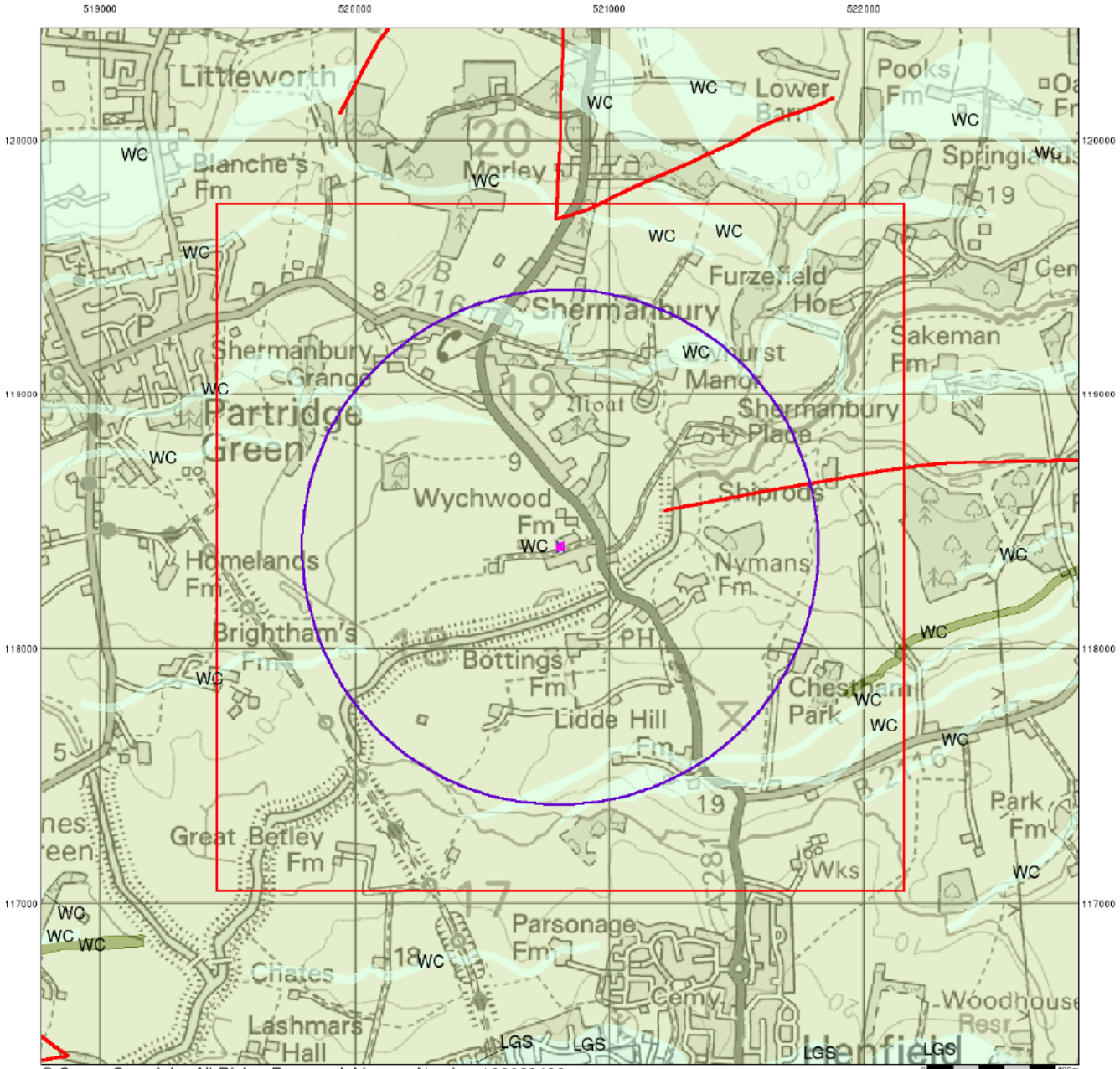

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GeoSmart Information

Environmental Thinking

Bedrock and Faults

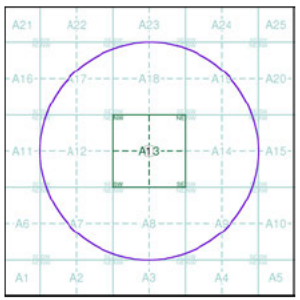
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



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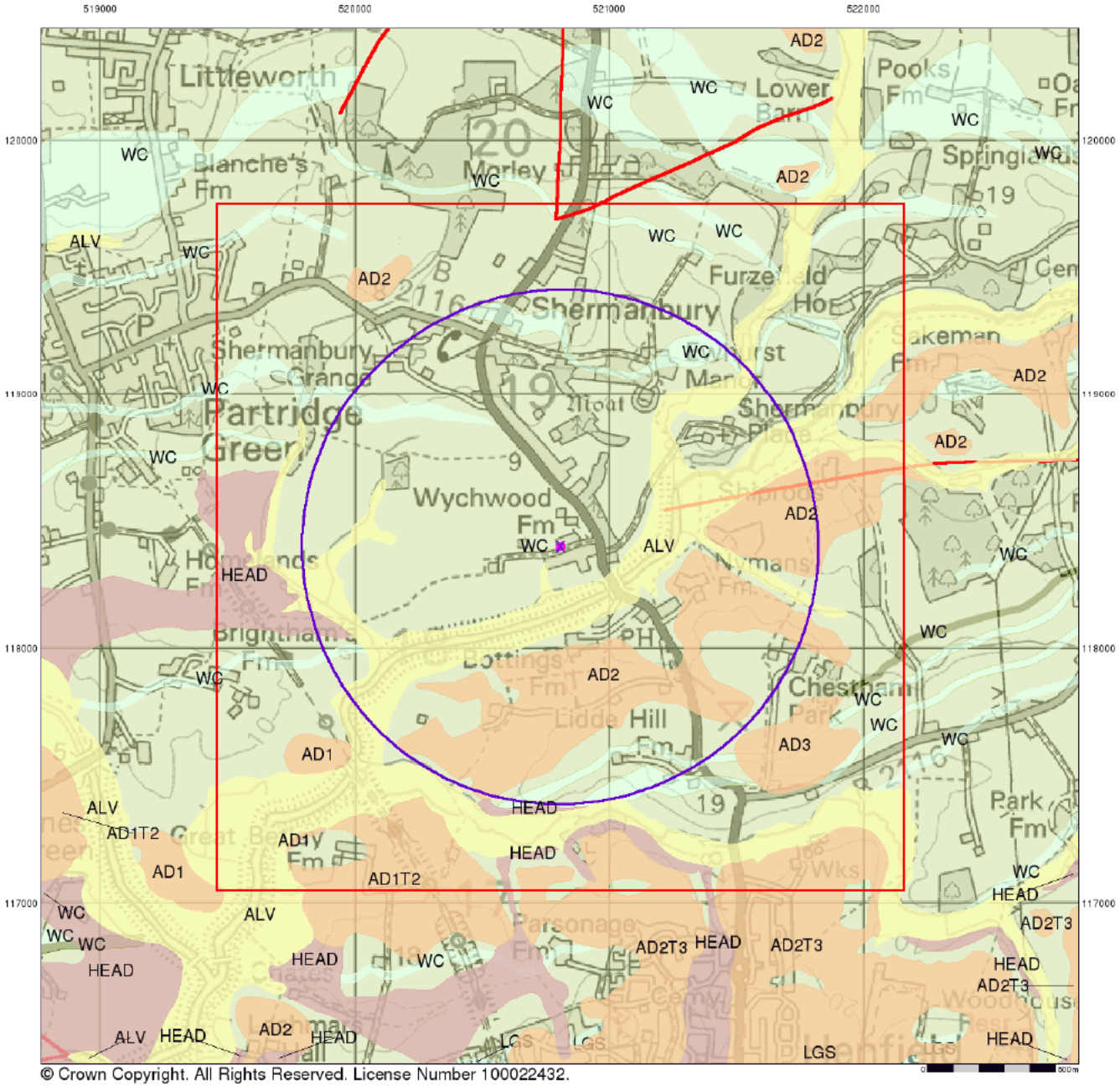

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GeoSmart Information
Environmental Thinking

Combined Surface Geology

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

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

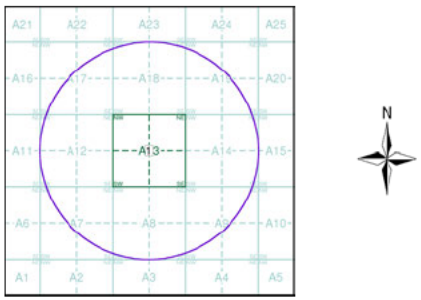
Additional Information

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

Contact

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

Combined Geology Map - Slice A



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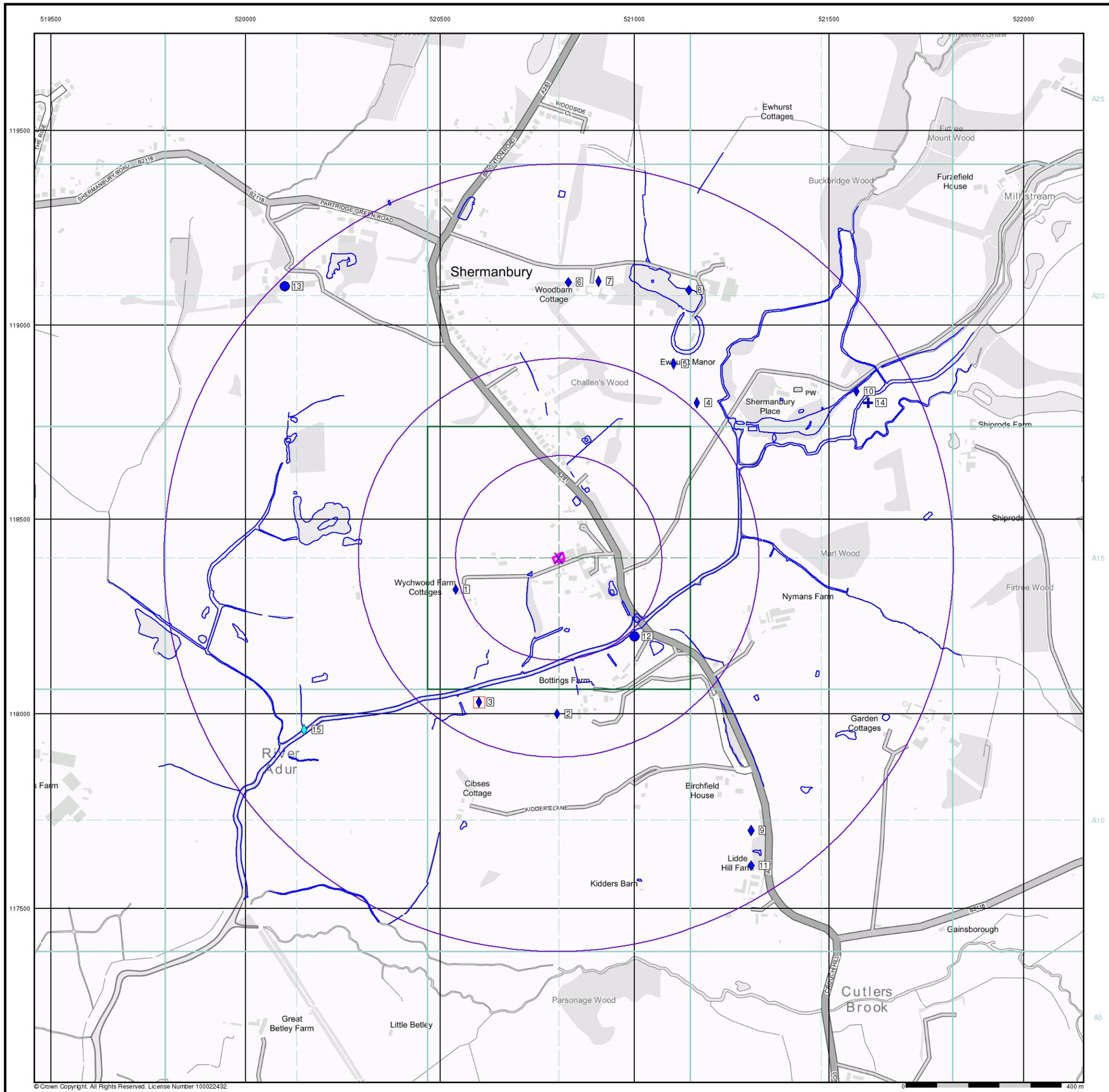

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GeoSmart Information
Environmental Thinking

General

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

Agency and Hydrological

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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

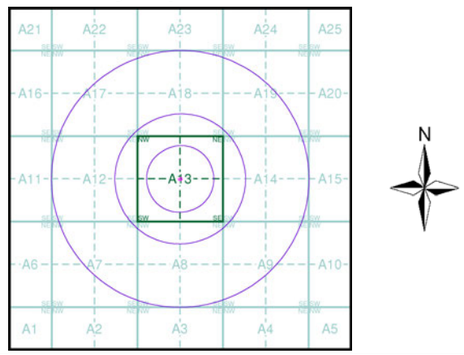
Waste

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

Hazardous Substances

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

Site Sensitivity Map - Slice A



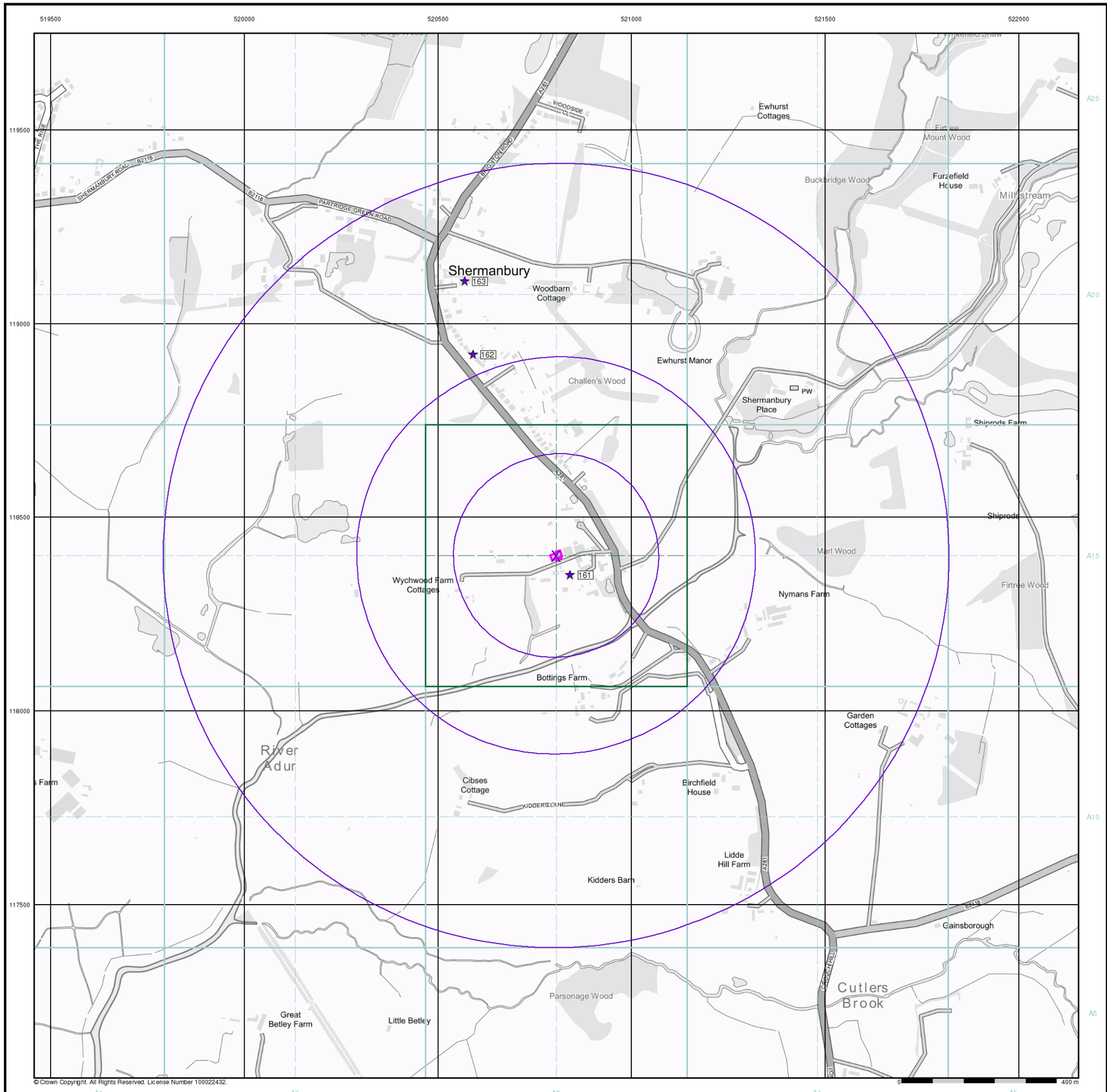
Order Details

Order Number:	255066459_1_1
Customer Ref:	66163.531
National Grid Reference:	520810, 118400
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

Building North of Wychwood Lane, Shermanbury, RH13 8HD

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



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GeoSmart Information
Environmental Thinking

Industrial Land Use Map

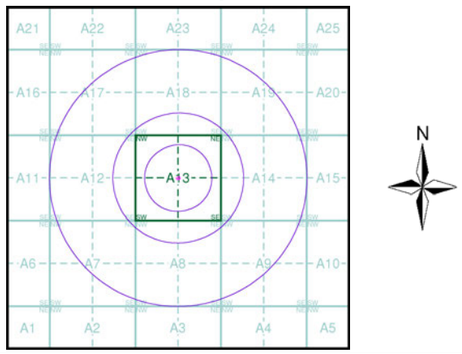
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



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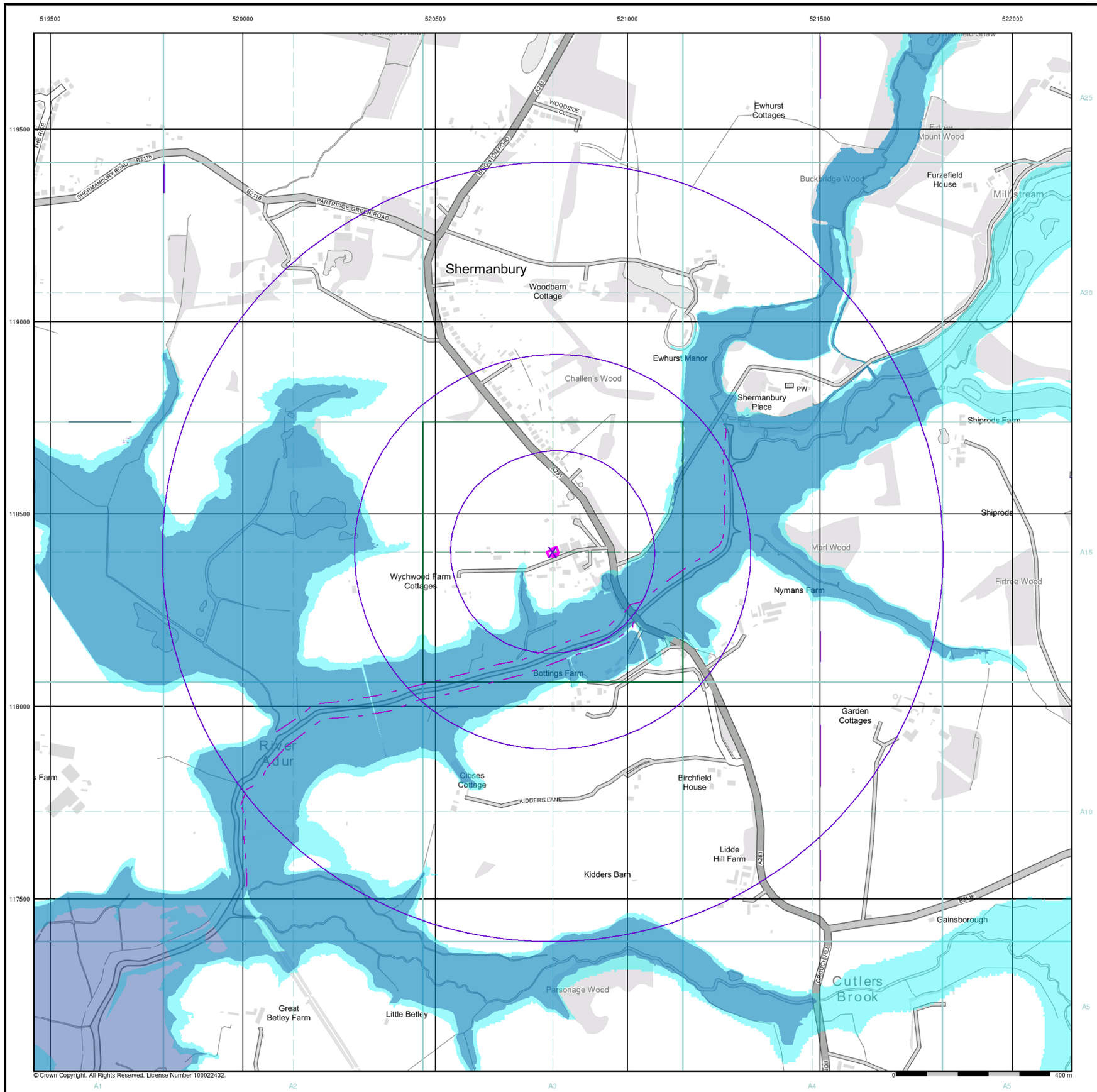

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GeoSmart Information
Environmental Thinking

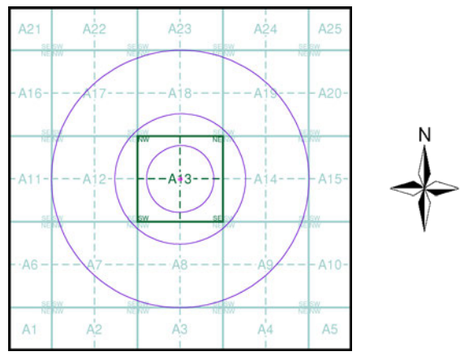
General

- 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



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Site Area (Ha):	0.05
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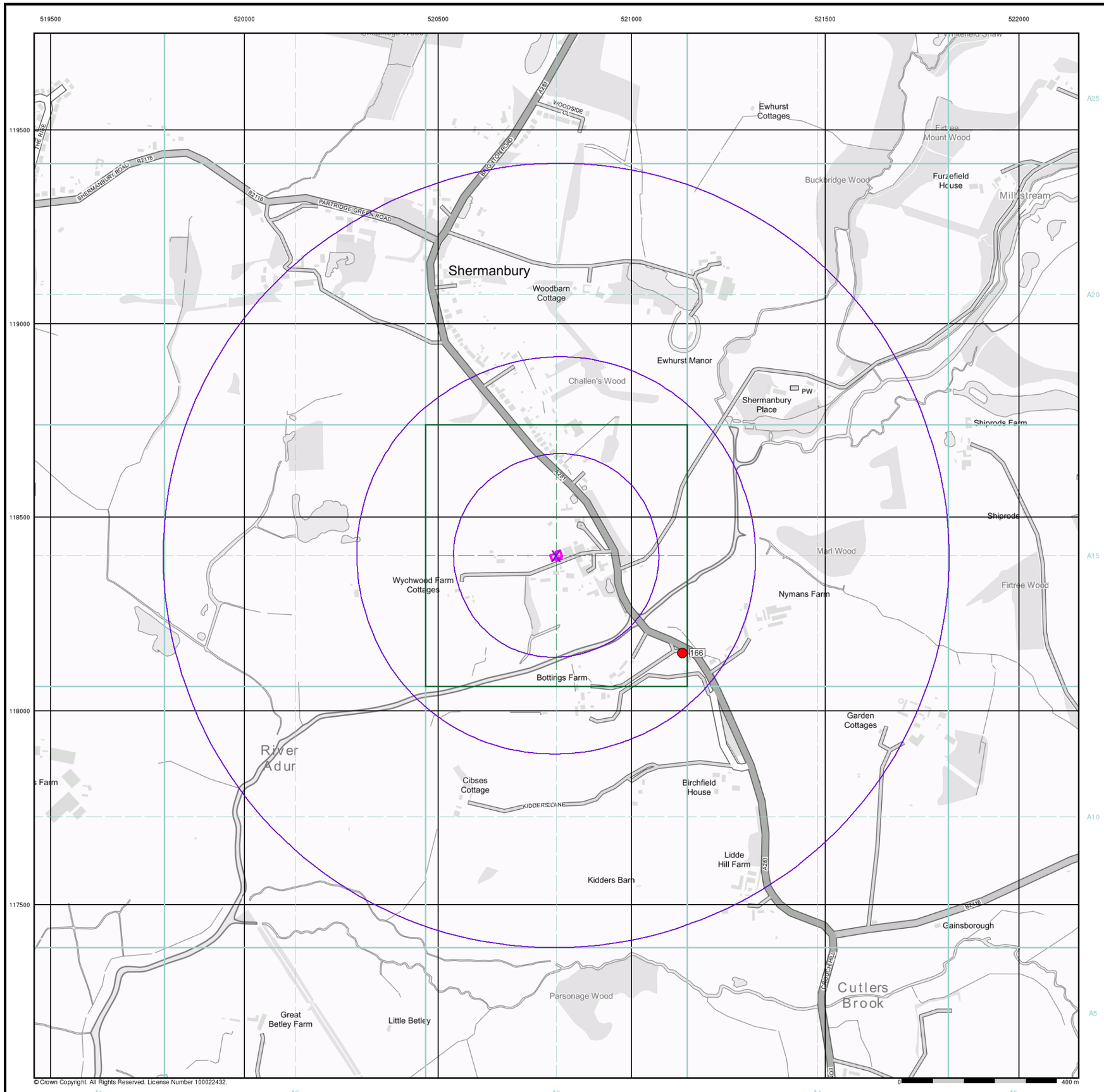

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GeoSmart Information
Environmental Thinking

General

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

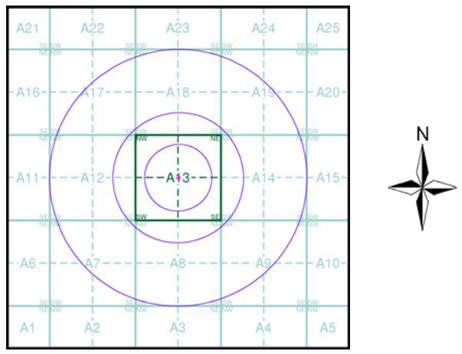
Agency and Hydrological (Boreholes)

- 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



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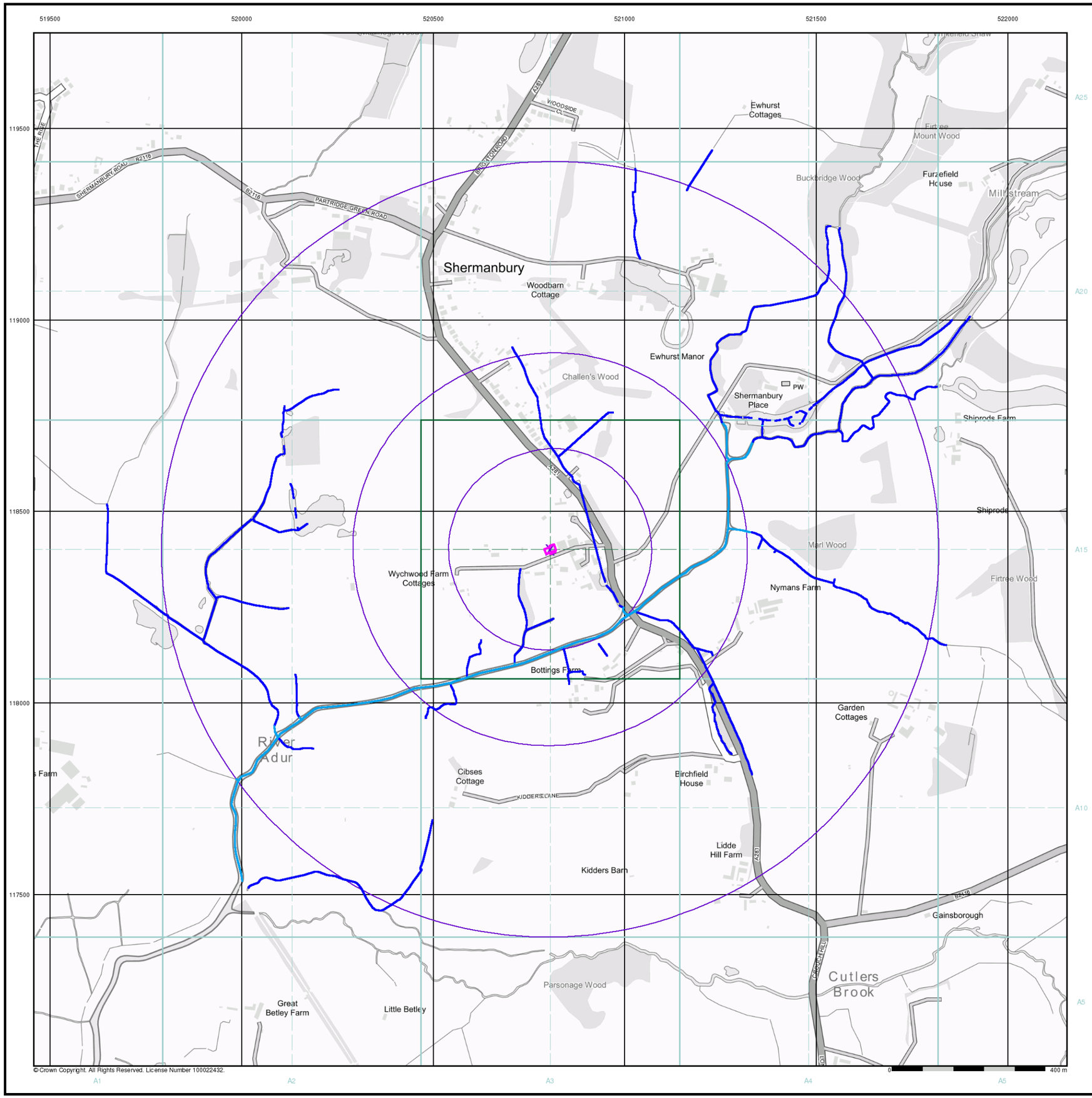

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GeoSmart Information
Environmental Thinking

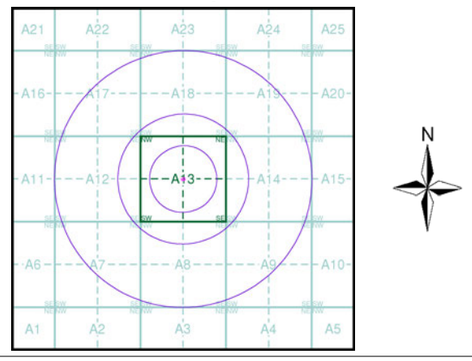
General

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

OS Water Network Data

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

OS Water Network Map - Slice A



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Slice:	A
Site Area (Ha):	0.05
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

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

1:10,000 Raster Mapping

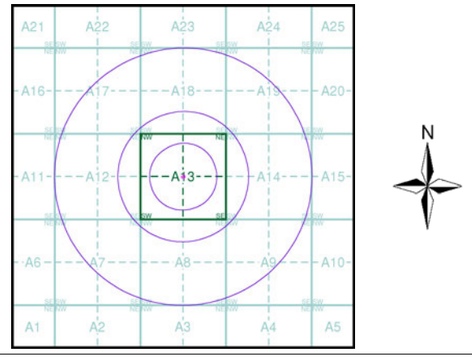
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community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

GeoSmart Information
Environmental Thinking

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
Sussex	1:10,560	1951 - 1952	5
Ordnance Survey Plan	1:10,000	1961 - 1963	6
Ordnance Survey Plan	1:10,000	1974	7
Ordnance Survey Plan	1:10,000	1982	8
10K Raster Mapping	1:10,000	2000	9
Street View	Variable		10

Historical Map - Slice A



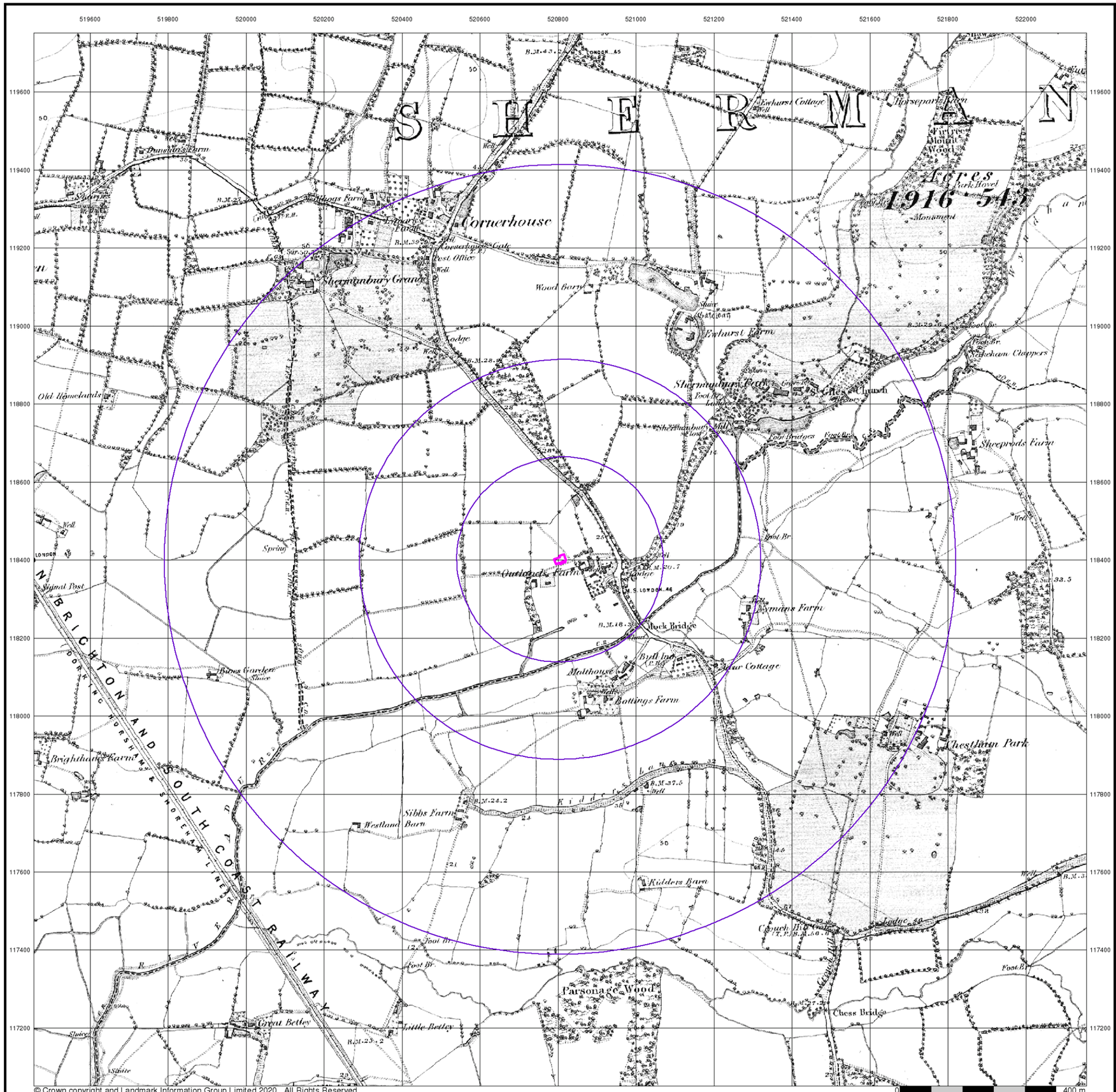
Order Details

Order Number: 255066459_1_1
Customer Ref: 66163.531
National Grid Reference: 520810, 118400
Slice: A
Site Area (Ha): 0.05
Search Buffer (m): 1000

Site Details

Building North of Wychwood Lane, Shermanbury, RH13 8HD

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



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GeoSmart Information
Environmental Thinking

Sussex

Published 1879

Source map scale - 1:10,560

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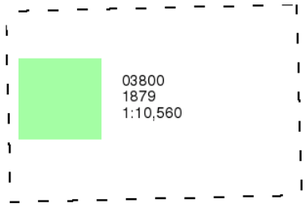
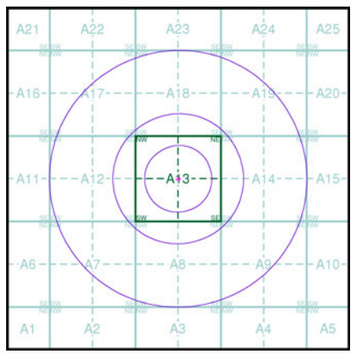
Map Name(s) and Date(s)



Historical Map - Slice A



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Customer Ref:	66163.531
National Grid Reference:	520810, 118400
Slice:	A
Site Area (Ha):	0.05
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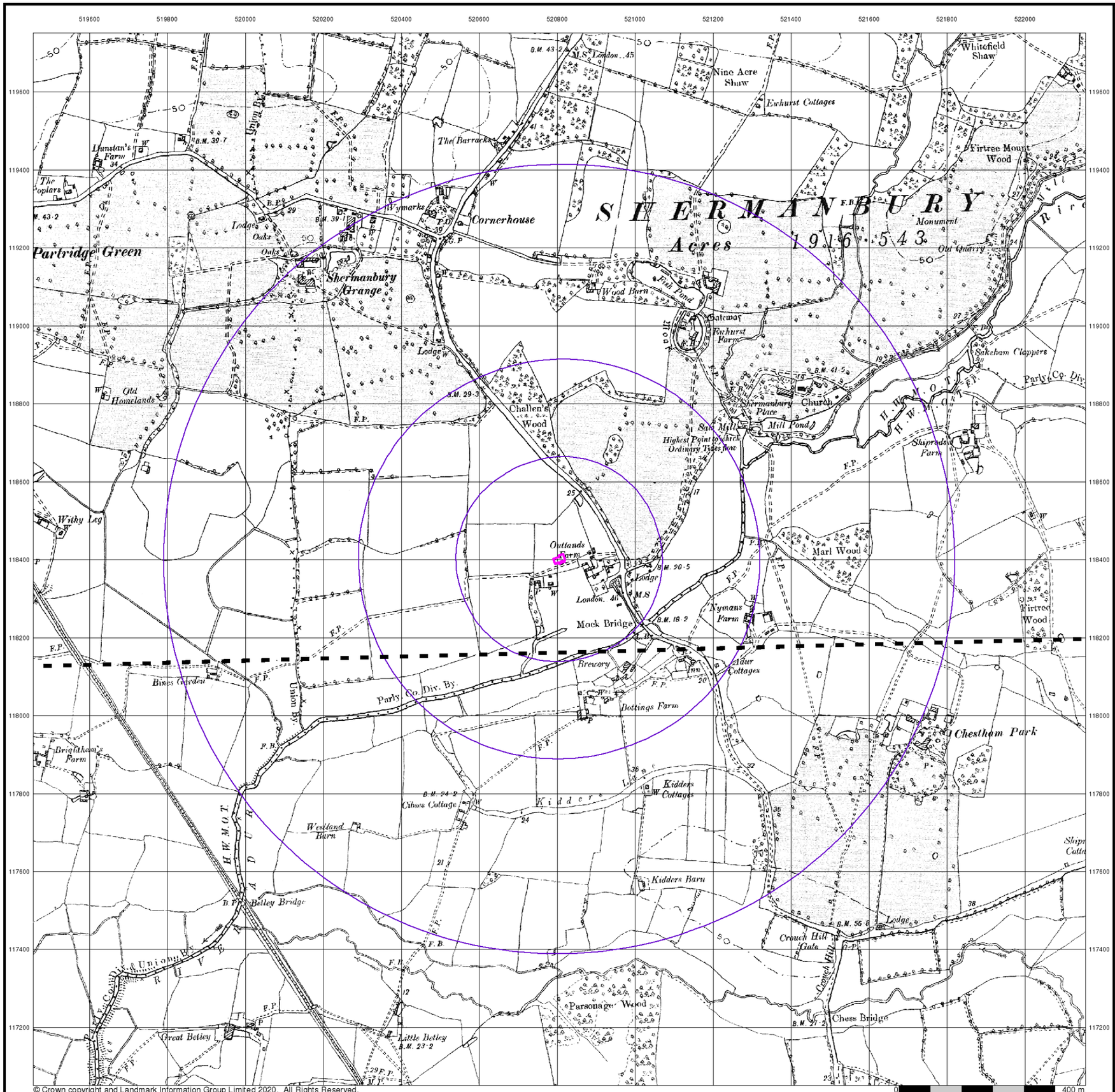

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GeoSmart Information
Environmental Thinking

Sussex

Published 1899

Source map scale - 1:10,560

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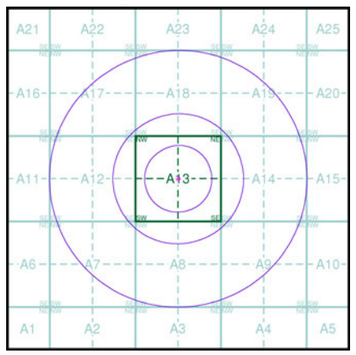
Map Name(s) and Date(s)

038NW
1899
1:10,560

038SW
1899
1:10,560

Historical Map - Slice A



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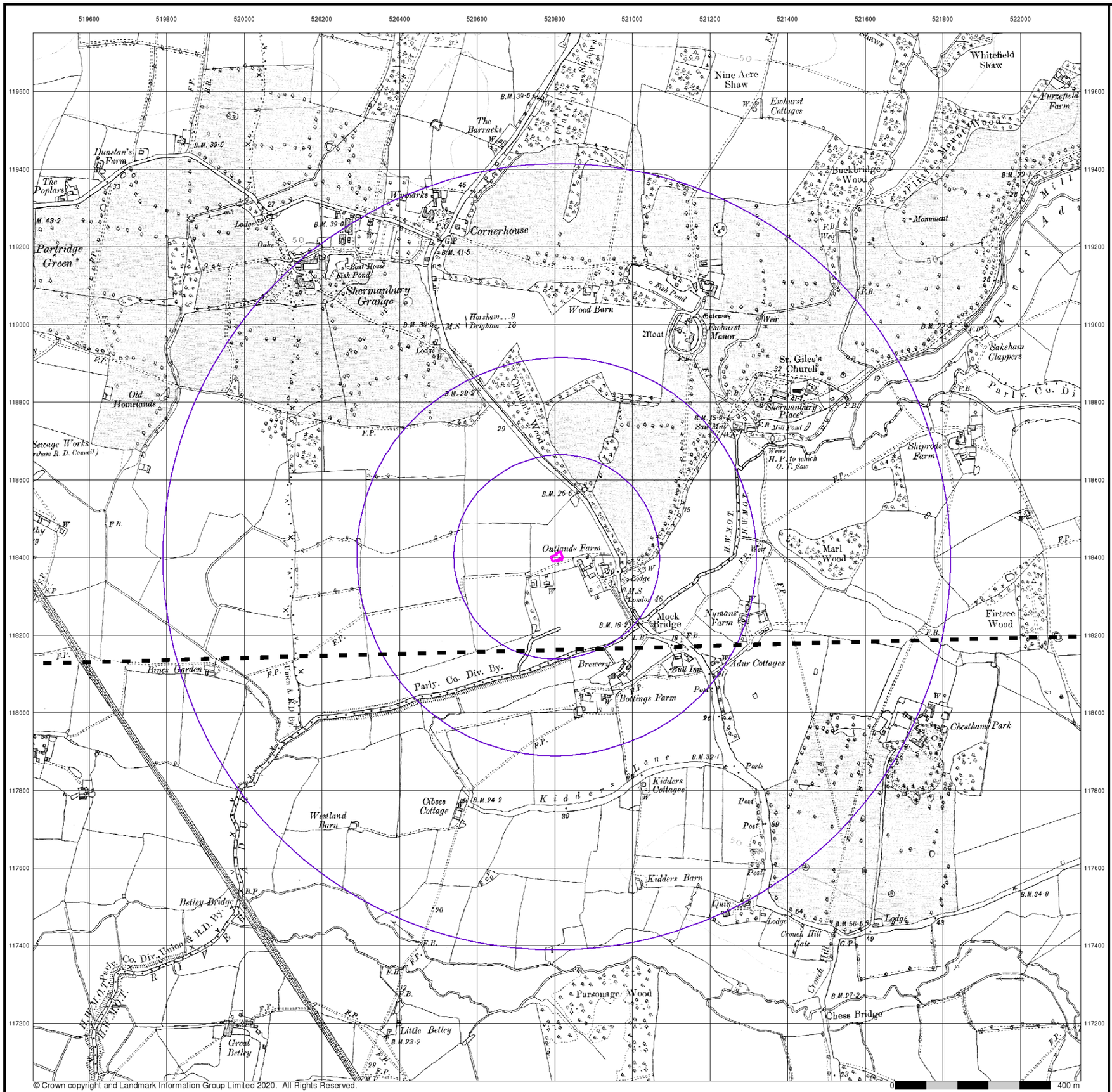

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GeoSmart Information
Environmental Thinking

Sussex

Published 1912

Source map scale - 1:10,560

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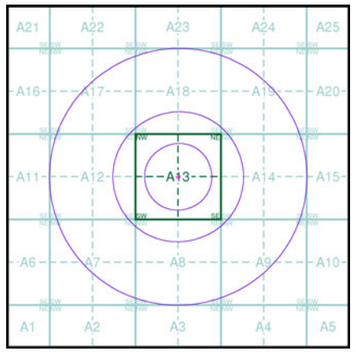
Map Name(s) and Date(s)

038NW
1912
1:10,560

038SW
1912
1:10,560

Historical Map - Slice A



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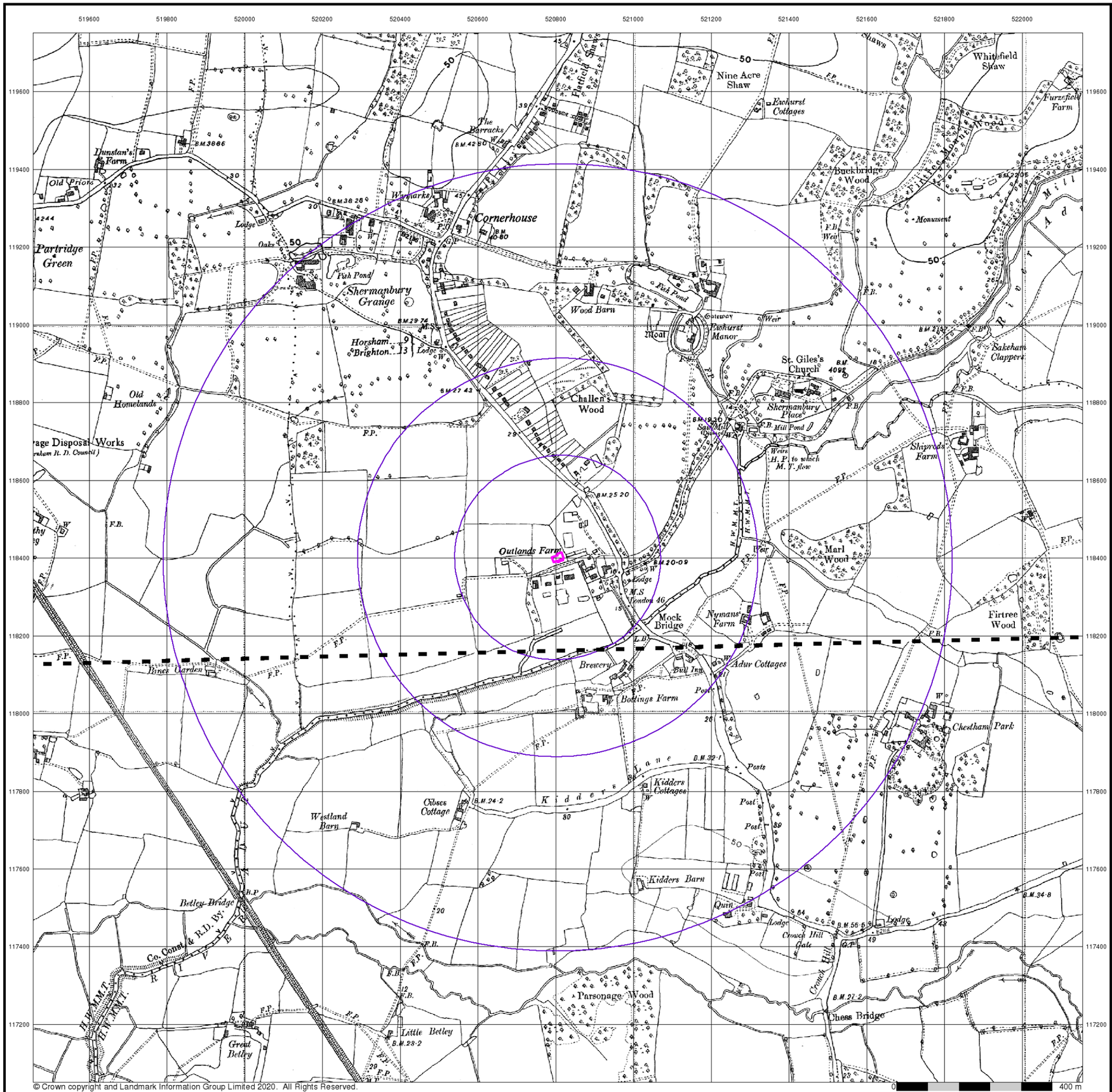

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GeoSmart Information
Environmental Thinking

Sussex

Published 1951 - 1952

Source map scale - 1:10,560

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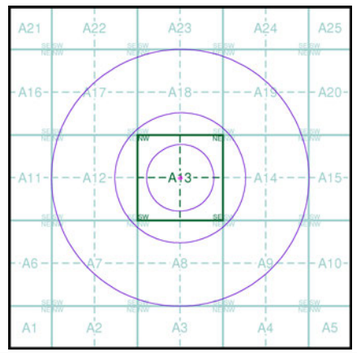
Map Name(s) and Date(s)

038NW
1952
1:10,560

038SW
1951
1:10,560

Historical Map - Slice A



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Site Area (Ha):	0.05
Search Buffer (m):	1000

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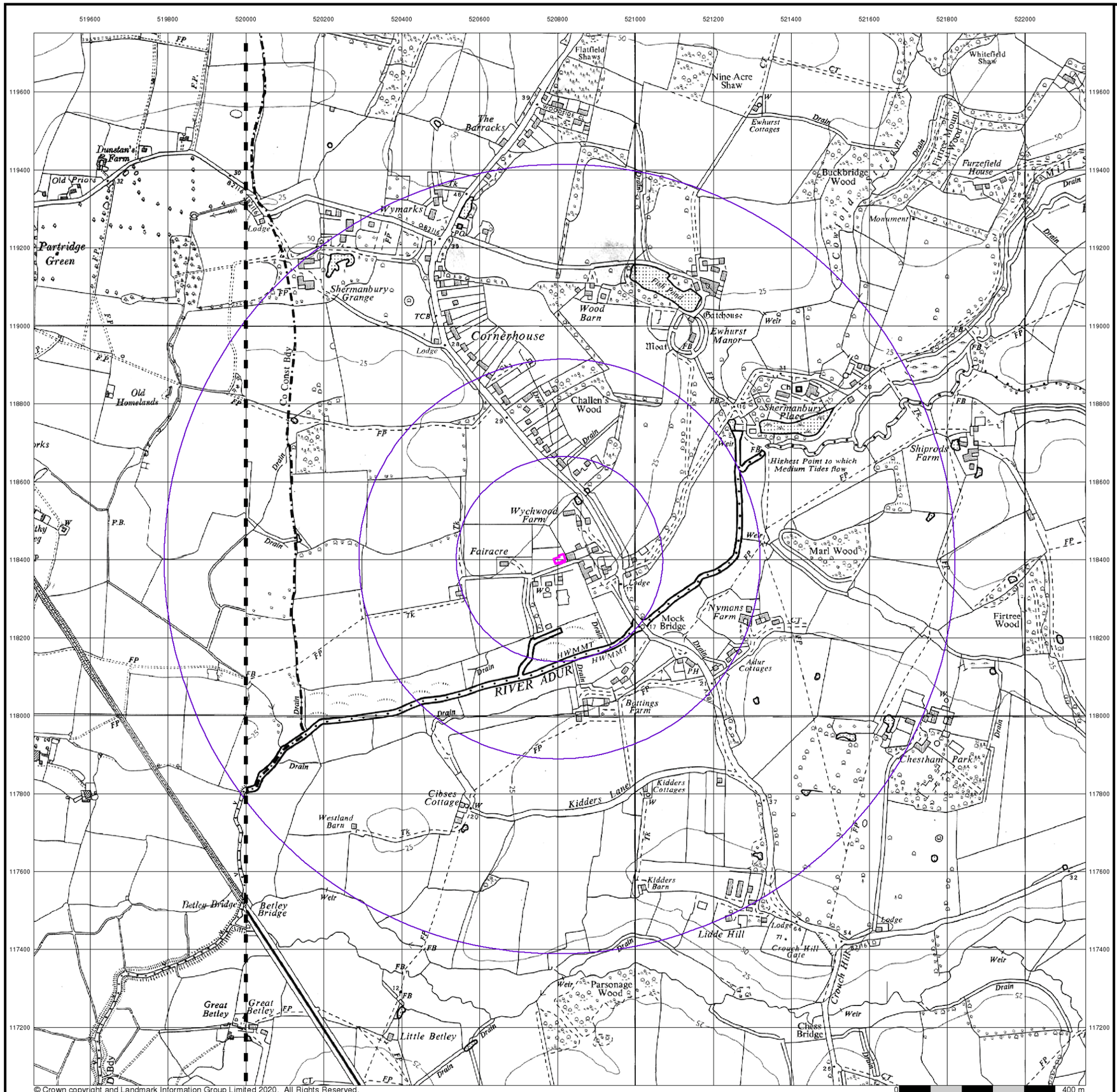

GeoSmart Information
Environmental Thinking

Ordnance Survey Plan

Published 1961 - 1963

Source map scale - 1:10,000

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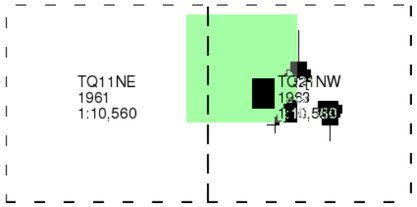
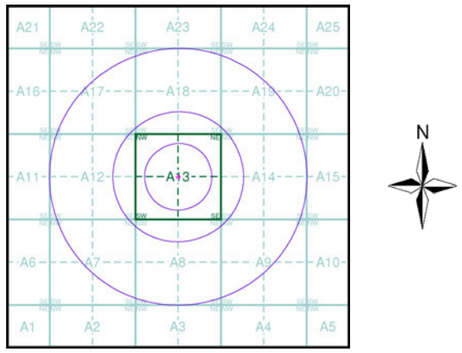
Map Name(s) and Date(s)



Historical Map - Slice A



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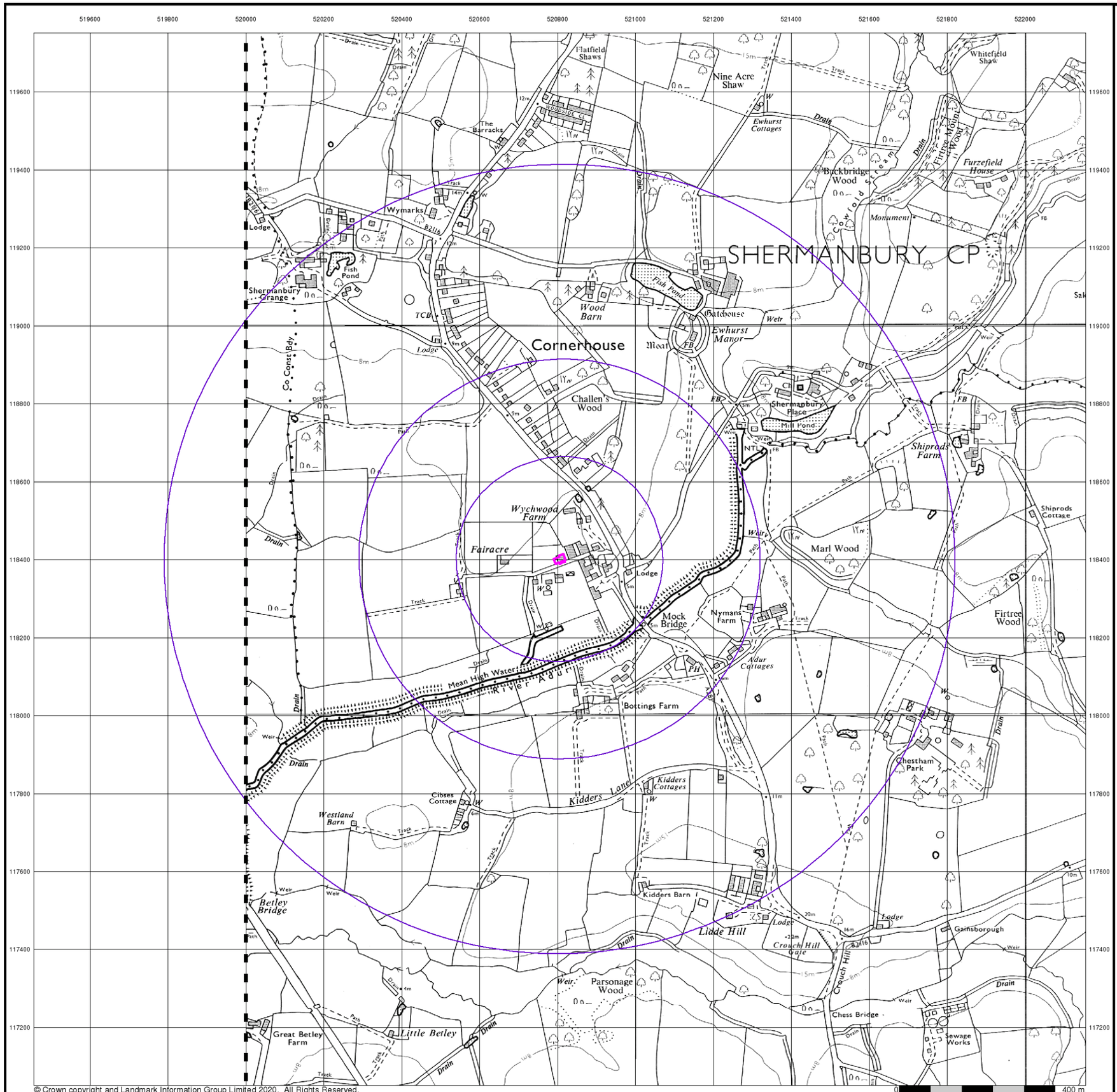

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GeoSmart Information

Environmental Thinking

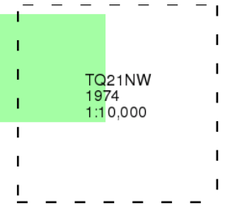
Ordnance Survey Plan

Published 1974

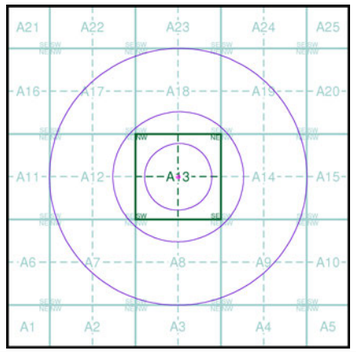
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

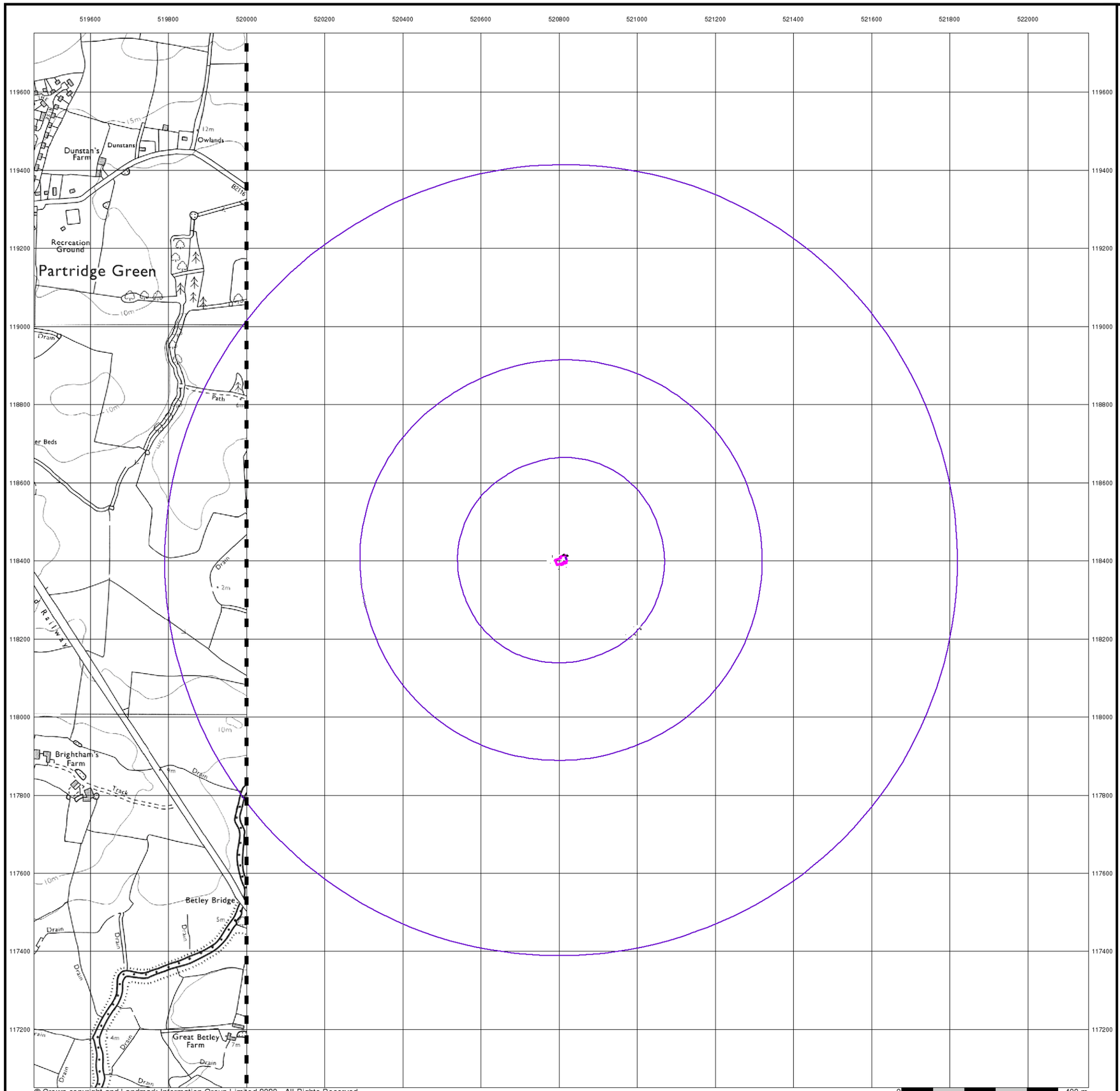
Order Number:	255066459_1_1
Customer Ref:	66163.531
National Grid Reference:	520810, 118400
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	1000

Site Details

Building North of Wychwood Lane, Shermanbury, RH13 8HD

Landmark INFORMATION GROUP

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



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GeoSmart Information
Environmental Thinking

Ordnance Survey Plan

Published 1982

Source map scale - 1:10,000

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

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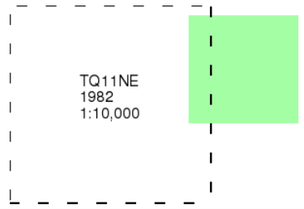
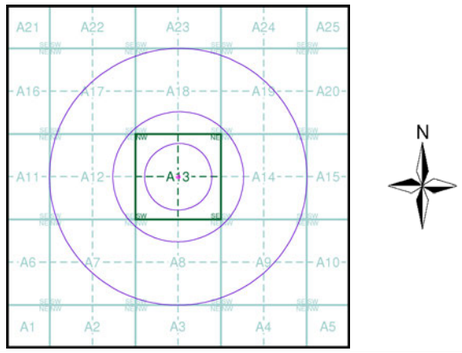


Historical Map - Slice A



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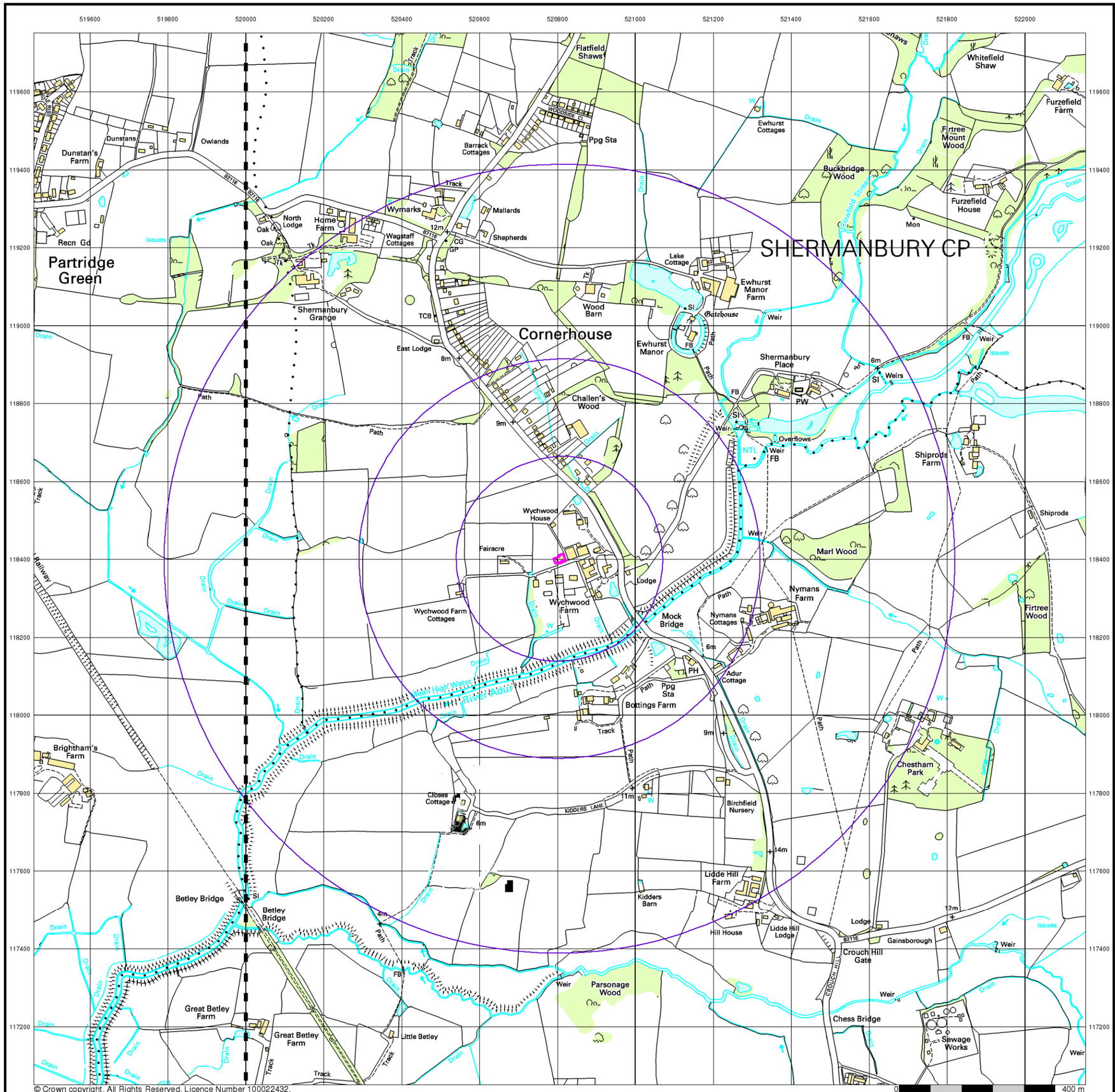
SHERMANBURY CP
Partridge Green
Cornerhouse
Flatfield Shaws
Whitefield Shaw
Furzefield Farm
Dunstans
Dunstan's Farm
Owlands
Barrack Cottages
Ppg Sta
Ewhurst Cottages
Firtree Mount Wood
Buckbridge Wood
Furzefield House
Mon
Wymarks
Mallards
Shepherds
Wagstaff Cottages
Home Farm
North Lodge
Oak
Recn Gd
Lake Cottage
Ewhurst Manor Farm
Gatehouse
Wood Barn
Shermanbury Grange
TCB
East Lodge
Ewhurst Manor
Shermanbury Place
Challen's Wood
PW
Weirs
Overflows
NTL
Shiprods Farm
Shiprods
Wychwood House
Fairacre
Marl Wood
Nymans Farm
Nymans Cottages
Firtree Wood
Wychwood Farm Cottages
Wychwood Farm
Mock Bridge
Adur Cottage
PH
Ppg Sta
Bottings Farm
Mean High Water
River Adur
Brightham's Farm
Chestham Park
Cibses Cottage
KIDDERS LANE
Birchfield Nursery
Lidde Hill Farm
Kidders Barn
Hill House
Lidde Hill Lodge
Gainsborough
Crouch Hill Gate
Betley Bridge
Great Betley Farm
Little Betley
Parsonage Wood
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Drain
Issues
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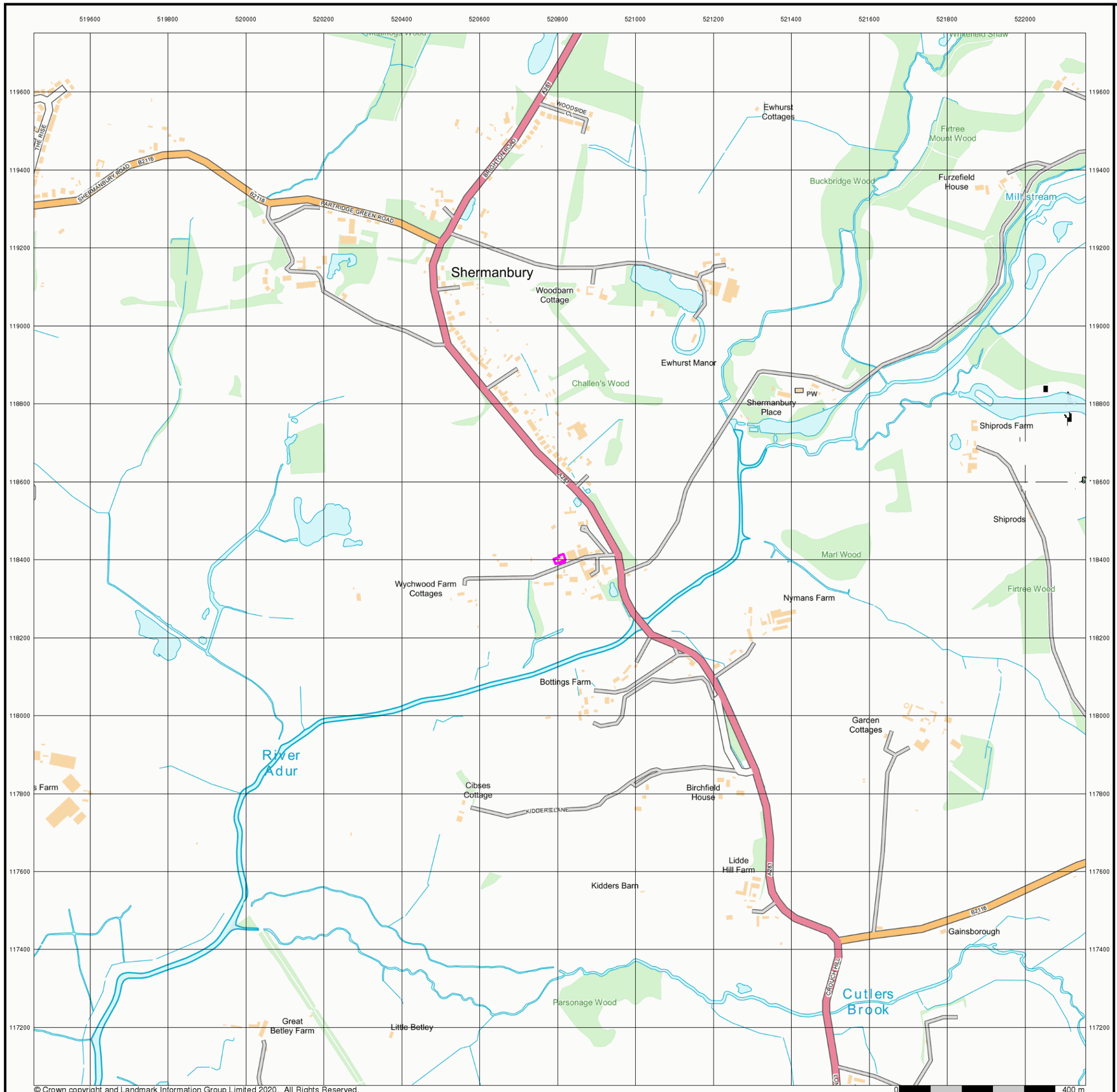
FB
SI
Railway
B2116
Recn Gd
Gatehouse



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GeoSmart Information
Environmental Thinking

Street View

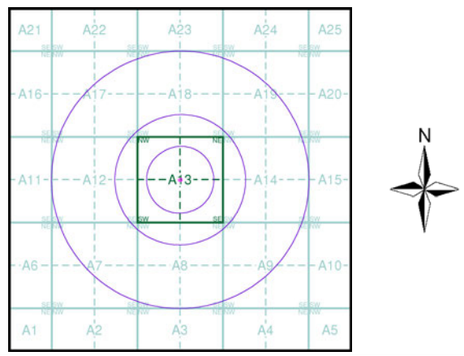
Published 2020

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

Street View Map - Slice A



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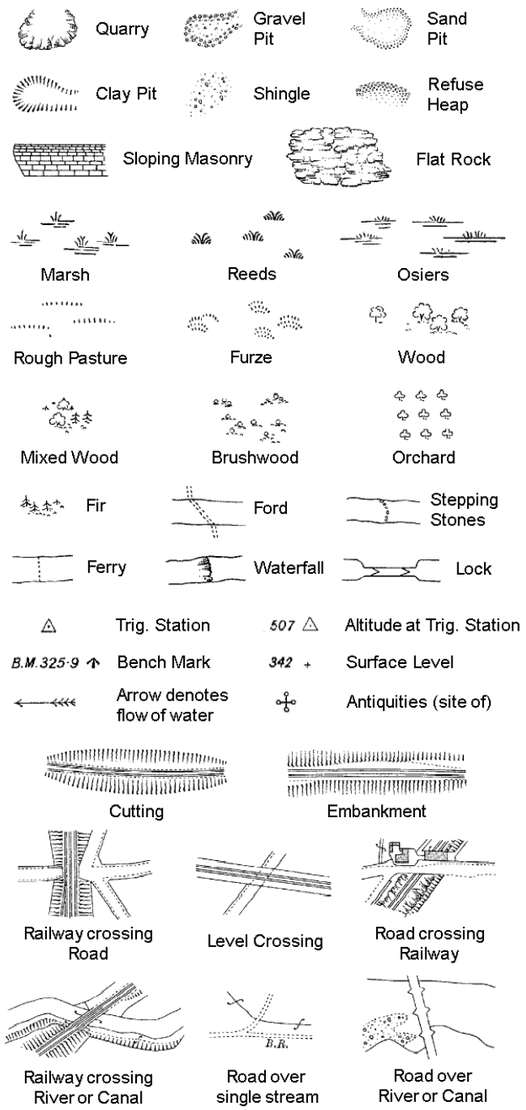
Historical Mapping Legends

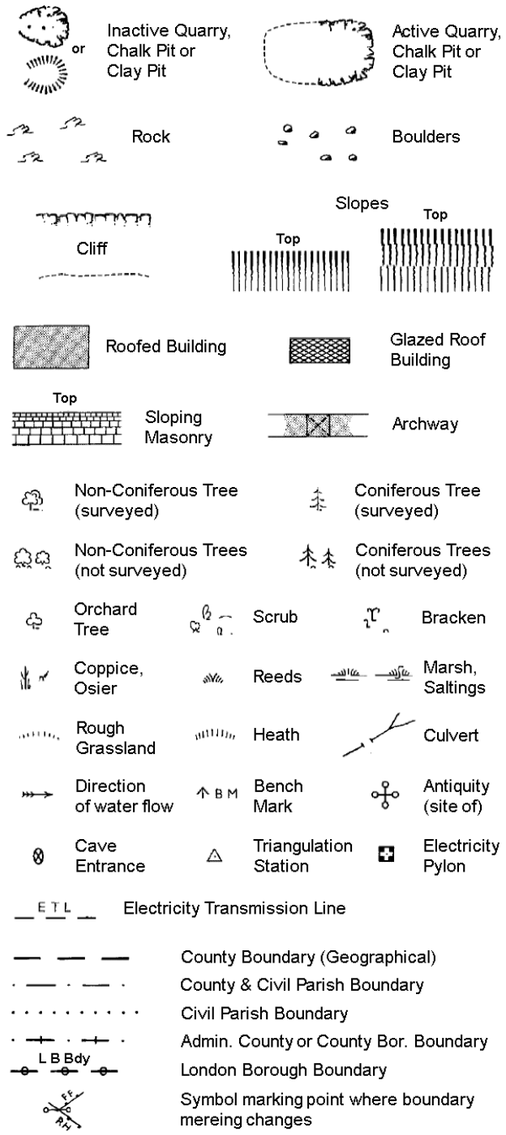
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

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

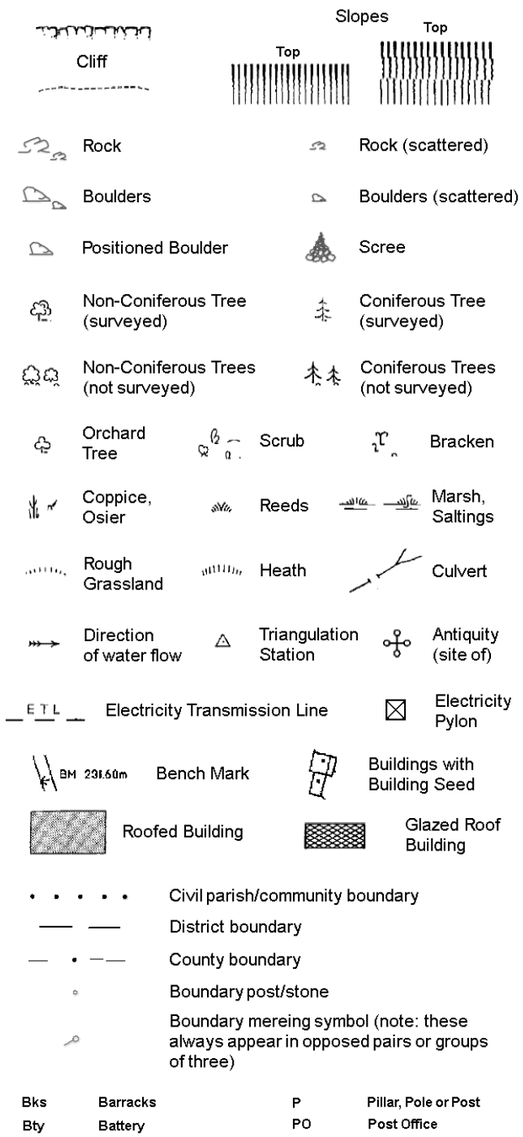
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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

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

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



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

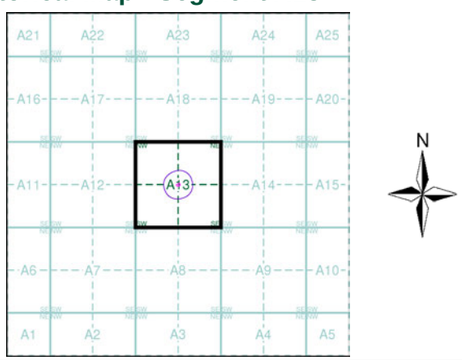
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity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

GeoSmart Information
Environmental Thinking

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:2,500	1874 - 1879	2
Sussex	1:2,500	1897	3
Sussex	1:2,500	1911	4
Sussex	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1956	6
Ordnance Survey Plan	1:2,500	1977	7
Large-Scale National Grid Data	1:2,500	1994	8

Historical Map - Segment A13



Order Details

Order Number: 255066459_1_1
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Site Area (Ha): 0.05
Search Buffer (m): 100

Site Details

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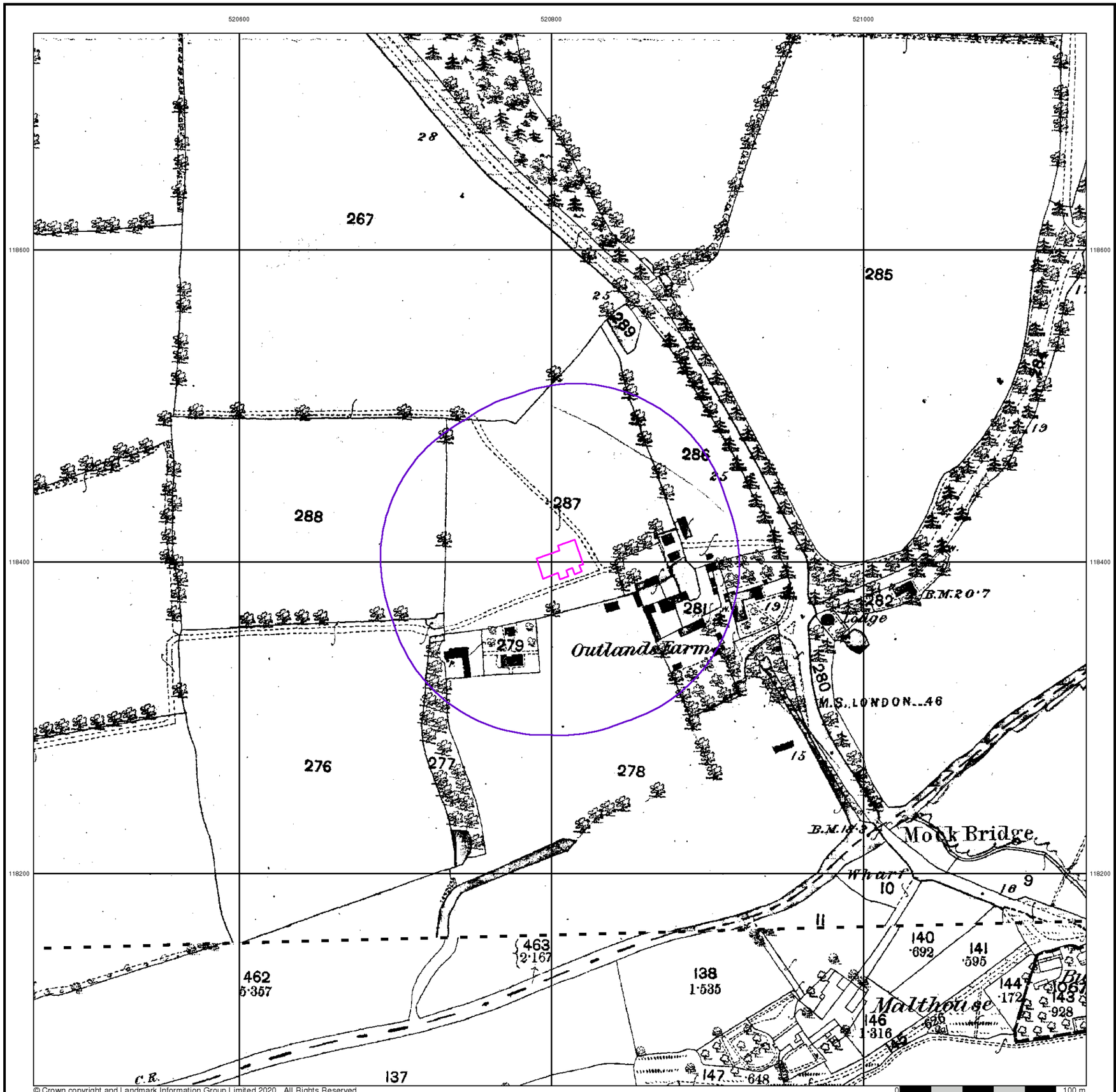

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GeoSmart Information
Environmental Thinking

Sussex

Published 1874 - 1879

Source map scale - 1:2,500

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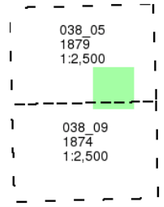
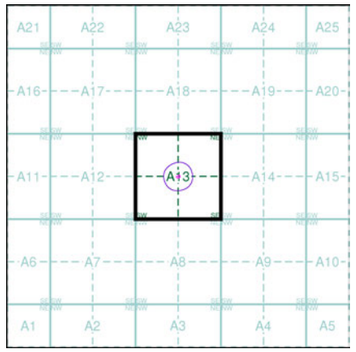


Historical Map - Segment A13



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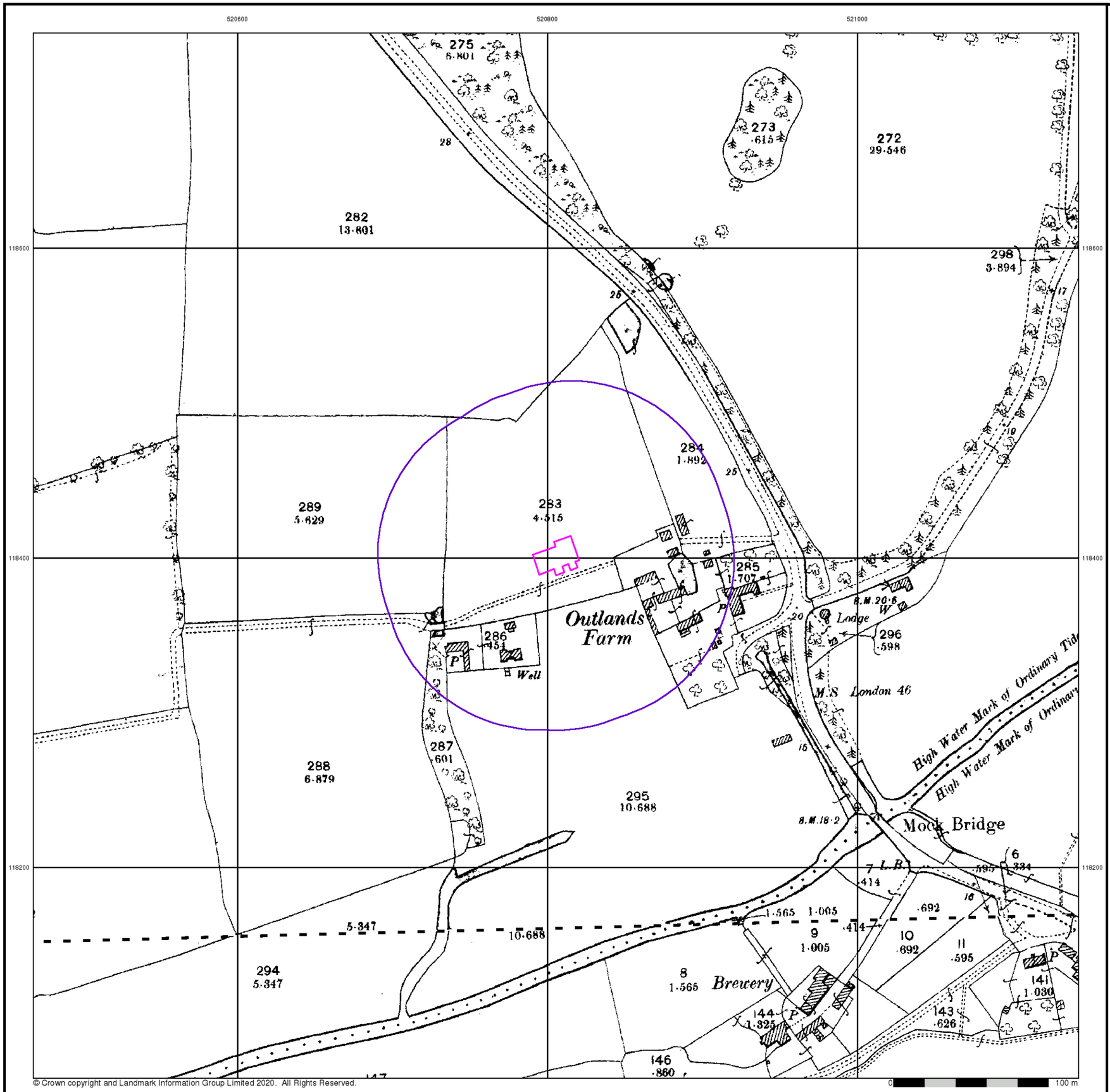

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GeoSmart Information
Environmental Thinking

Sussex

Published 1897

Source map scale - 1:2,500

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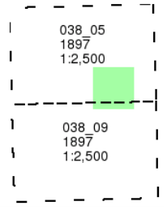
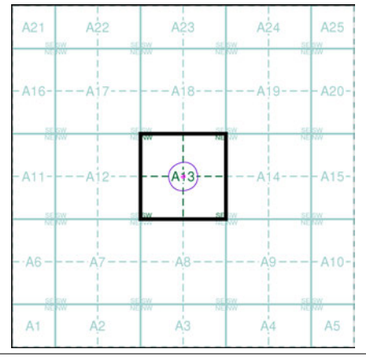


Historical Map - Segment A13



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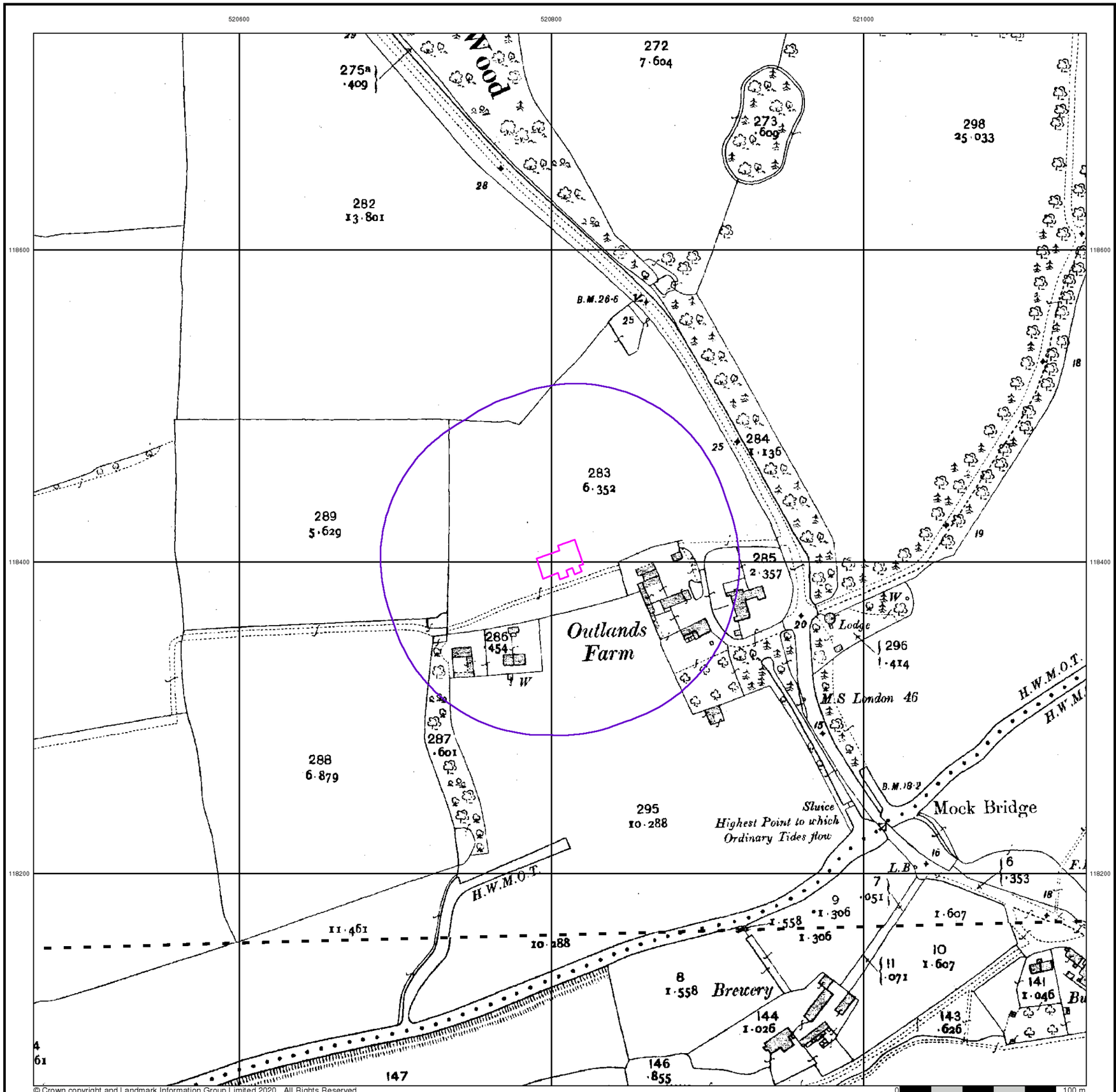

GeoSmart Information
Environmental Thinking

Sussex

Published 1911

Source map scale - 1:2,500

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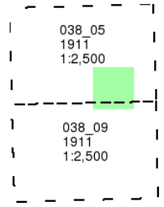
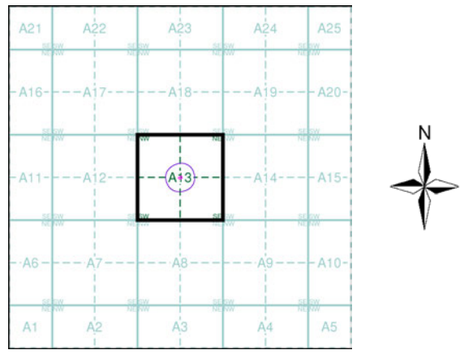


Historical Map - Segment A13



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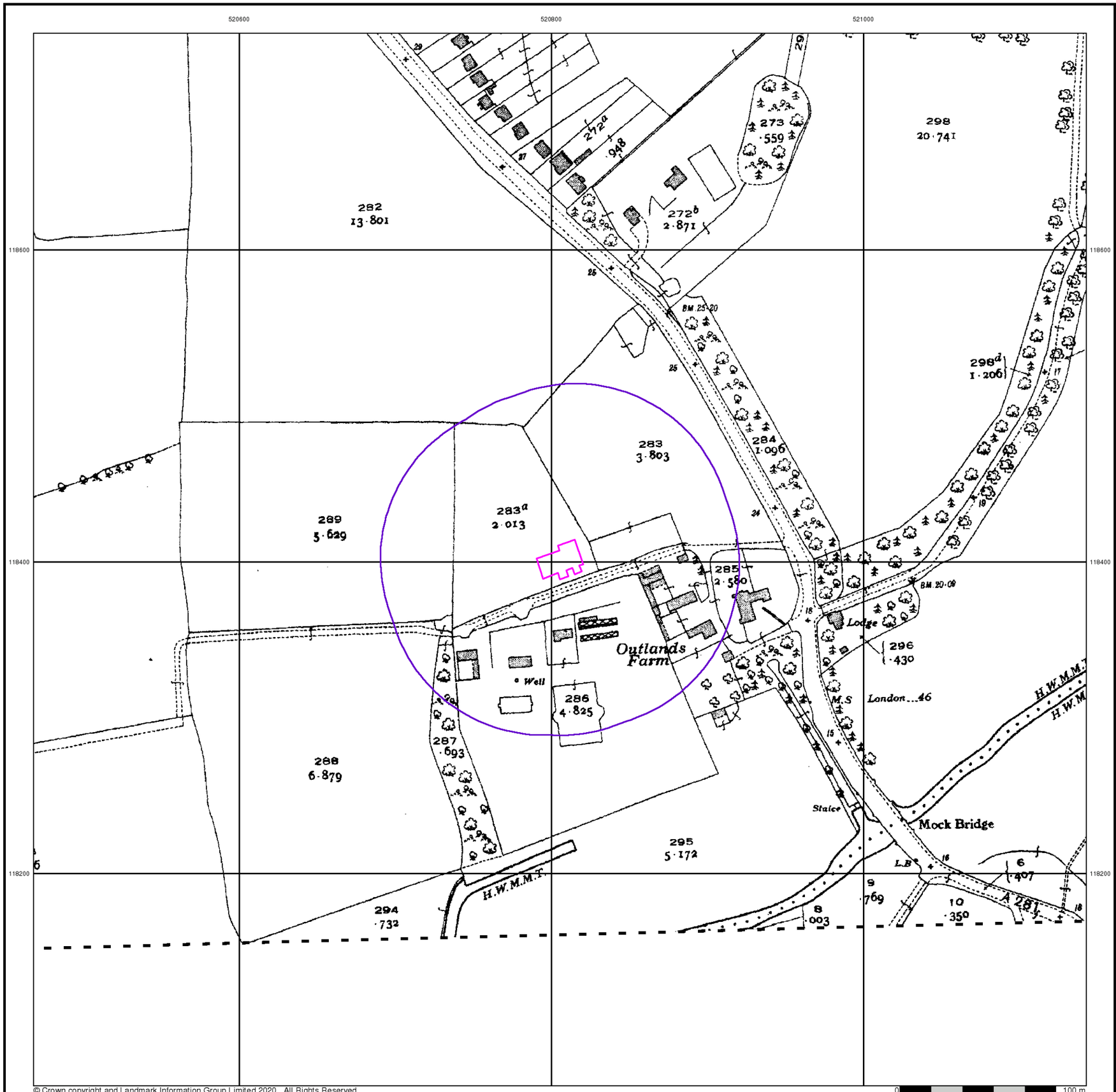

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GeoSmart Information
Environmental Thinking

Sussex

Published 1938

Source map scale - 1:2,500

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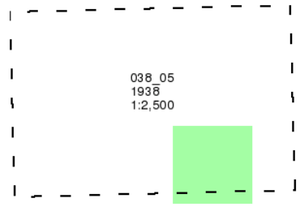
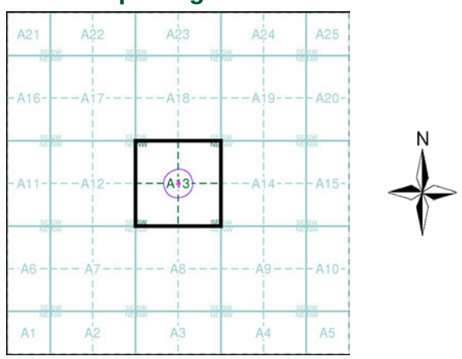


Historical Map - Segment A13



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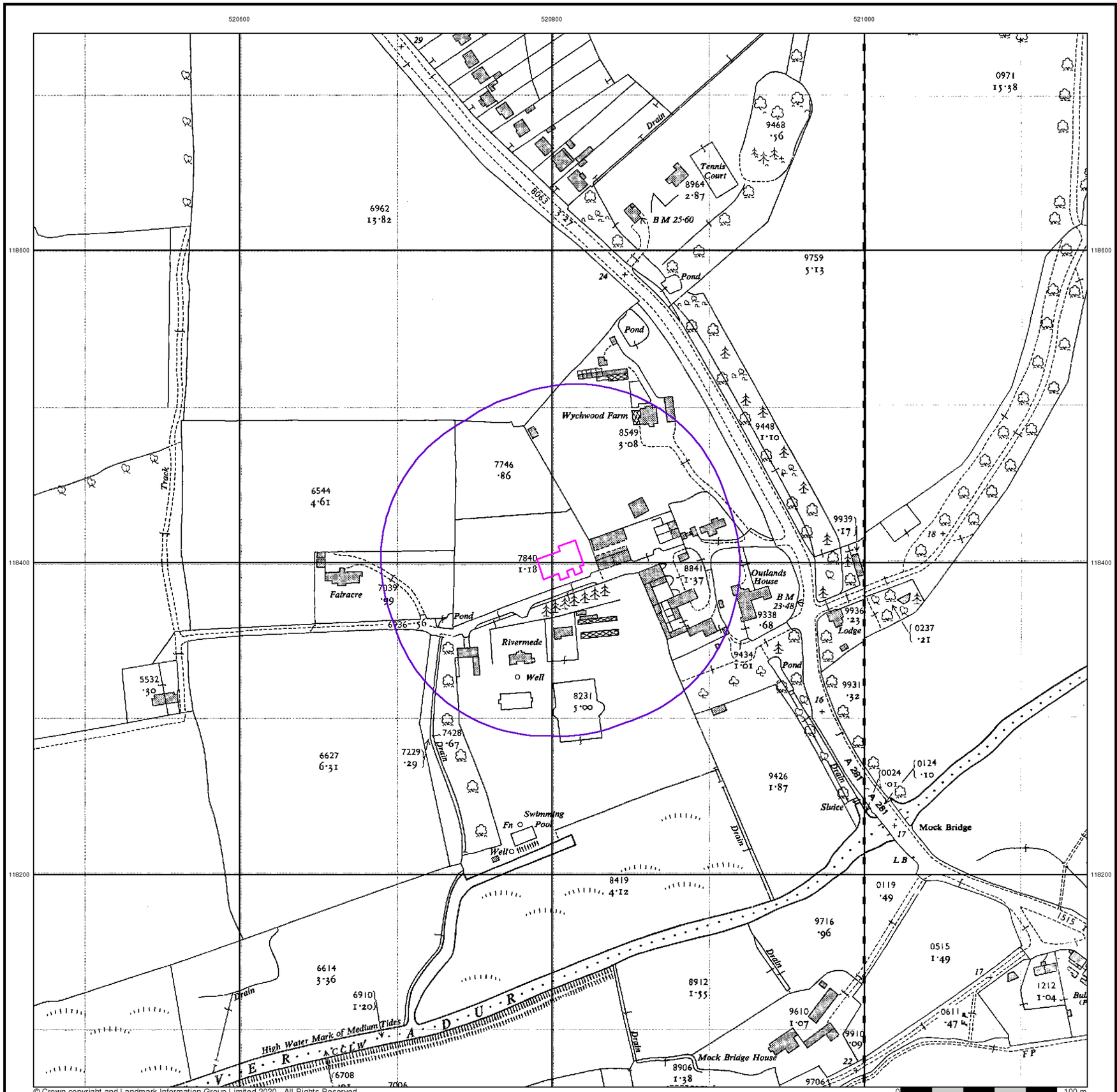

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GeoSmart Information
Environmental Thinking

Ordnance Survey Plan

Published 1956

Source map scale - 1:2,500

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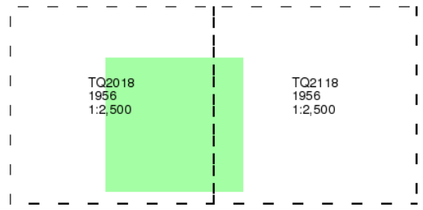
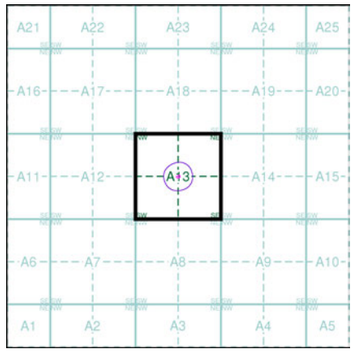


Historical Map - Segment A13



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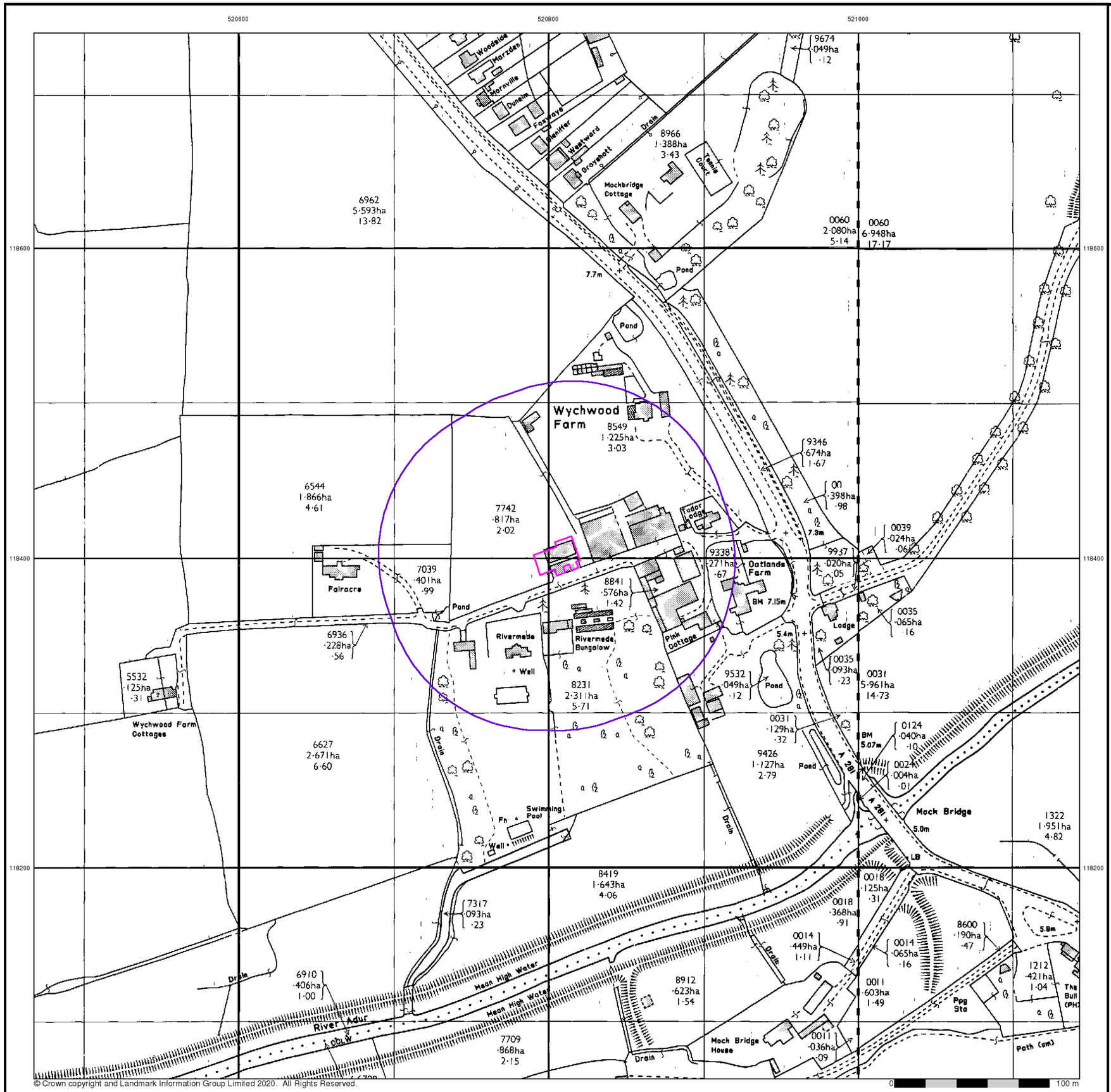

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Environmental Thinking

Ordnance Survey Plan

Published 1977

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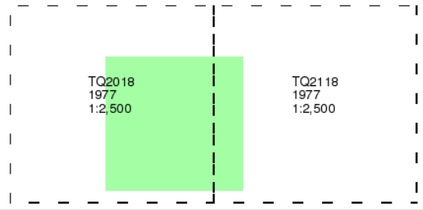
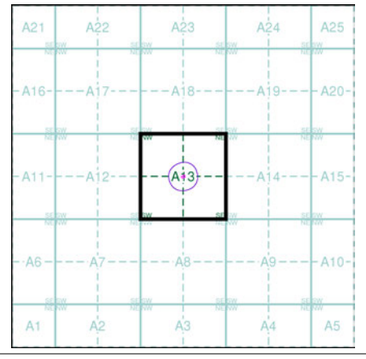


Historical Map - Segment A13



Order Details

Order Number:	255066459_1_1
Customer Ref:	66163.531
National Grid Reference:	520810, 118400
Slice:	A
Site Area (Ha):	0.05
Search Buffer (m):	100

Site Details

Building North of Wychwood Lane, Shermanbury, RH13 8HD

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GeoSmart Information
Environmental Thinking

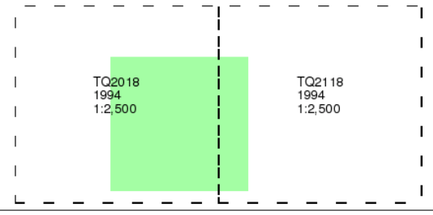
Large-Scale National Grid Data

Published 1994

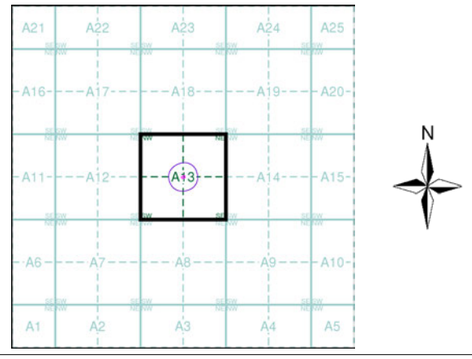
Source map scale - 1:2,500

'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



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