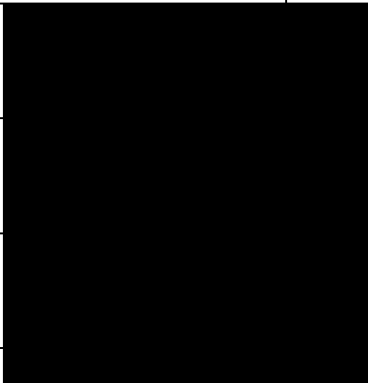


CONTRACT NO. E3043/1**PRELIMINARY RISK ASSESSMENT REPORT**
FOR A SITE LOCATED AT
ASDA FERRING, WORTHING

Prepared by
DTS Raeburn Limited

Client:	ASDA Stores Limited	
Report Issue No.	1	
Report Status:	FINAL	
Date:	September 2017	
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Generic List of Acronyms and Abbreviations

µg/kg	micrograms per kilogram	LAPPC	Local Authority Pollution Prevention and Control
µg/l	micrograms per litre	LNR	Local Nature Reserve
ACEC	aggressive chemical environment for concrete	mb	millibar
ACM	asbestos containing material	MAGIC	Multi Agency Geographical Information for the Countryside
AOD	above Ordnance datum	MCERTS	Monitoring Certification Scheme
bgl	below ground level	mg/kg	milligrams per kilogram
BGS	British Geological Survey	mg/l	milligrams per litre
BH	borehole	NIEA	Northern Ireland Environment Agency
BTEX	benzene, toluene, ethylbenzene and xylene compounds	NGR	National Grid Reference
CBR	California bearing ratio	O ₂	oxygen
CH ₄	methane	OS	Ordnance Survey
CIRIA	Construction Industry Research and Information Association	PAH	polycyclic aromatic hydrocarbons
CLR	Contaminated Land Report	PCB	polychlorinated biphenyls
CO	carbon monoxide	PFS	petrol filling station
CO ₂	carbon dioxide	PID	photo ionisation detector
COMAH	control of major accident hazards	PHE	Public Health England
CPT	cone penetration test	PPE	personal protective equipment
CSM	conceptual site model	PRA	preliminary risk assessment
DEFRA	Department of Environment, Food and Rural Affairs	SAC	Special Area of Conservation
DoE	Department of Environment (now part of DEFRA)	S4UL	Suitable For Use Level
DP	dynamic probe	SEPA	Scottish Environment Protection Agency
DPSH	dynamic probe super heavy	SGV	soil guideline value
DQRA	detailed quantitative risk assessment	SOM	soil organic matter
DS	design sulphate class	SPA	Special Protection Area
DWS	drinking water standard	SPT	standard penetration test
EA	Environment Agency	SPZ	Source Protection Zone
EHO	Environmental Health Officer	SSSI	Site of Special Scientific Interest
EQS	environmental quality standard	SVOCs	semi-volatile organic compounds
FRA	flood risk assessment	TOC	total organic carbon
GAC	generic assessment criteria	TP	trial pit
GPR	ground penetrating radar	TPH	total petroleum hydrocarbons
GPS	global positioning systems	TPO	Tree Preservation Order
GQRA	generic quantitative risk assessment	UKAS	United Kingdom Accreditation Service
GW-TV	groundwater threshold value	UXO	unexploded ordnance
ha	hectare	UST	underground storage tank
H ₂ S	hydrogen sulphide	VOCs	volatile organic compounds
HPA	Health Protection Agency (now PHE)	WAC	Waste Acceptance Criteria
HSE	Health and Safety Executive	WFD	Water Framework Directive
IPPC	Integrated Pollution Prevention and Control	WHO	World Health Organisation
		WS	window sampling borehole

PRELIMINARY RISK ASSESSMENT REPORT FOR A SITE LOCATED AT ASDA FERRING, WORTHING

Executive Summary

Objectives and Scope of Report	To carry out a PRA of the site in accordance with the Walmart Environmental Site Assessment (ESA) procedures and the risk assessment framework presented in CLR11 in order to assess the potential geo-environmental risks associated with the redevelopment of the site into a PFS.
Site Description	The site comprises an overflow car park located in the northern section of an existing ASDA retail development.
Proposed Development	An automated PFS is to be constructed in the western section of the site. Consideration is also being given to additional development in the eastern section, although details of these proposals are not known.
Geology	BGS mapping indicates the site to be underlain by superficial <i>Quaternary</i> Aeolian Deposits (Brickearth), which are in turn underlain by <i>Cretaceous</i> chalk bedrock. Ground investigation undertaken across the entire ASDA site in 2011/2012, prior to the construction of the store reveal the underlying ground conditions to comprise about 0.5m of made ground overlying Aeolian Deposits consisting of soft silty gravelly clay. The underlying chalk bedrock was encountered at depths between 1.9m and 5.5m bgl to the termination depths of the boreholes at about 10m bgl. Groundwater was standing at approximately 2m bgl and an hydraulic down-gradient towards the south/south east was recorded by the previous investigations. The groundwater appears to be under sub-artesian pressure from the underlying chalk.
Hydrology	The closest surface water feature to the site is an unnamed river located at 160m to the south of the site. The river Ferring Rife is present at 350m to the east of the site, flowing towards the south.
Hydrogeology	The underlying superficial Aeolian deposits and chalk bedrock are classified as 'Secondary A' and 'Principal' aquifers respectively. The site does not lie within a Groundwater Source Protection Zone.
Major Ecological Receptors	The South Downs National Park is located at 800m to the north of the site. No other major ecological receptors are located within a 1km radius.
Flood Risk	The site lies within 'Flood zone 1', (the lowest risk classification with respect to flooding from rivers and the sea). A separate map produced on the basis of BGS data identifies that there is a potential for "groundwater flooding to occur at the surface" at the site, however, mapping limitations and local factors may reduce this groundwater flood risk.
Key Historical Developments	The site has been occupied by buildings and car parks relating to commercial plant nurseries and a garden centre from the 1960s until the development of the ASDA store and car park in 2012. The land surrounding the site has historically been occupied by several garden centres/nurseries. Tanks and an electricity substation associated with a nursery were previously located adjacent the site. An engineering/joinery works has been present at about 100m to the north west of the site since the early 1970s and this unit is currently occupied by a self-storage facility.
Mineral Extraction	The proposed development is not considered to be at significant risk of subsidence from mineral extraction.
Previous Investigation Information	Previous investigation works undertaken prior to the construction of the ASDA store identified low concentrations of hydrocarbons, PAH, metals, PCBs, VOCs and SVOCs within soils and groundwater across the wider ASDA site. However visual/olfactory evidence of hydrocarbon contamination was identified below 2m bgl about 20m to the west of the proposed PFS. It was recommended that this material should be removed from site, however it is not known if this work was undertaken.
Ground Contamination Assessment	The contaminant–pathway–receptor linkage could potentially be completed for this site with respect to human health, the development end use, and controlled waters as a result of off-site sources of contamination associated with the historical industrial uses of the surrounding area.
Preliminary Geotechnical Assessment	Previous investigations have indicated that the ground conditions are unsuitable for shallow foundations. Piled foundations bearing in the chalk bedrock or vibro-replacement stone columns are possible foundation solutions for the proposed PFS canopy. A reinforced concrete raft foundation could be considered for the unmanned control room.

	The USTs will require an excavation of approximately 4m deep; dewatering and lateral support of excavations are likely to be required.
Soil Gas	The made ground and Aeolian soils beneath the site are a potential source of soil gas. A monitoring regime is recommended as part of any future site investigation works in order to confirm the low concentrations detected in the site vicinity during the previous investigations.
Risks posed by the construction of the PFS	It is anticipated that the EA will object to storage of petrol/diesel below ground at this site due to the high groundwater table and the Principal aquifer status of the chalk bedrock. It is recommended that consultations are undertaken at an early stage.
Limitations	The limitations of this report are detailed in Section 11.0.

1.0 INTRODUCTION

DTS RAEBURN Limited were commissioned by ASDA Stores Limited to carry out a preliminary risk assessment (PRA) for a site located at ASDA Ferring, Worthing. It is understood that the western section of the site is to be redeveloped into a PFS, and that the eastern section of the site may be developed in the future, although no details are available at this stage.

The principal objective of the PRA was to assess whether the land is potentially contaminated or whether there are other potential geo-environmental liabilities. These could include, but are not limited to, subsidence hazards due to shallow mining, the generation or migration of soil gas to beneath the site and other geotechnical abnormalities.

The PRA has been prepared in accordance with the Walmart Environmental Site Assessment (ESA) procedures, which in turn have been based on the risk assessment framework presented in CLR11 'Model Procedures for the Management of Land Contamination' (DEFRA and EA, 2004).

The environmental aspects of the PRA have been prepared utilising a risk-based approach and incorporating the accepted 'pollutant linkage' approach to contaminated land hazard identification (i.e. contaminant–pathway–receptor linkage). This approach is consistent with methodologies contained in both CLR11 and Part IIA of the Environmental Protection Act 1990. The latter was introduced by Section 57 of the Environment Act 1995, which came into force in England and Wales in April 2000.

The scope of the PRA included a desk study and site reconnaissance, which comprise the minimum information required for sites where contamination is either known or suspected. The PRA has also been designed to fulfil the objectives of a 'preliminary investigation' as defined by BS10175:2011+A1:2013 'Investigation of Potentially Contaminated Sites – Code of Practice'.

The following information has been used to formulate the PRA report:

- ❖ Site walkover survey undertaken on 30th August 2017
- ❖ Historical OS maps supplied by Landmark Information Group Limited
- ❖ BGS Sheet 317/332 of Chichester and Bognor (1:50,000 Solid and Drift Edition)
- ❖ Environmental database information prepared by Landmark Information Group Limited
- ❖ Correspondence with local authorities and other statutory agencies
- ❖ Databases and interactive maps produced by the Environment Agency (EA), British Geological Survey (BGS) and UK Radon
- ❖ Report of a ground investigation undertaken by Arcadis UK Limited prior to the construction of the existing ASDA store: '*Geotechnical and Environmental Assessment Report, Proposed ASDA Superstore, Littlehampton Road, Ferring, West Sussex BN12 6PB*', dated March 2011 (Arcadis report reference: 800120110_01); hereafter referred to as the 'Arcadis March 2011 Report'
- ❖ Report of additional investigation works undertaken by Arcadis UK Limited prior to the construction of the existing store: '*Additional Environmental Assessment Report, Proposed ASDA Superstore, Littlehampton Road, Ferring, West Sussex, BN12 6PB*', dated August 2011 (Arcadis report reference: 80012020_01); hereafter referred to as the 'Arcadis August 2011 Report'
- ❖ Report of further investigation works undertaken by Arcadis UK Limited prior to the construction of the existing store: '*Additional Site Assessment and Outline Remediation Strategy, Proposed ASDA Superstore, Littlehampton Road, Ferring, West Sussex BN12 6PB*', dated February 2012 (Arcadis report reference: 800120302_01); hereafter referred to as the 'Arcadis 2012 Report'

- ✧ Report prepared by RSK Remediation and Development Limited prior to the construction of the existing store: '*Potential suitability of soil stabilisation at ASDA Worthing*', dated January 2012 (RSK Report reference: ID/48048/03); hereafter referred to as the 'RSK Report'

2.0 SITE AND SURROUNDING AREA

2.1 Site Location

The site is located on Littlehampton Road (A259), Ferring, Worthing as shown in Figures 1 and 2. The site is centred on NGR 508740, 103330.

2.2 Site Description

A photographic record taken during the site walkover is presented as Plates 1 to 3, located after the report figures. A plan showing the layout of the site and the immediate surrounding area is included as Figure 3.

The site covers an area of approximately 0.35ha and is occupied by an area of overflow car park and limited soft landscaping (Plates 1-3) associated with the adjacent ASDA retail store. The car park is predominantly surfaced by gravel, although a small area of tarmac surfacing is present in the eastern section.

2.3 Ecology/Invasive & Injurious Plant Species

Detailed ecological and agricultural surveys were outside the scope of this report. However, no Japanese Knotweed or other injurious or invasive weeds were observed within or immediately adjacent to the site at the time of the reconnaissance (August 2017).

2.4 Surrounding Area

The ASDA retail store and main car park are located to the south of the site, with an area of car park also located to the west. Residential development bounds the site to the east with a nursery/firewood supplier being located to the southeast. Beyond Littlehampton Road, which bounds the site to the north, is located a garden centre, joinery workshop and self-storage facility.

2.5 Proposed Development

The proposed development is shown in Figure 4 and comprises an automated PFS within the western section of the site. The PFS will include petrol and diesel underground storage tanks (USTs), six fuel pump islands, a canopy, a jet wash and an unmanned control room.

Consideration is also being given to redeveloping the eastern section of the site, although no details were available at the time of writing.

3.0 GEO-ENVIRONMENTAL SETTING

3.1 Topography

A topographical survey of the site undertaken in December 2014 (post-construction of the existing ASDA store) has been made available by ASDA. This indicates that the site lies between approximately 7.30m Above Ordnance Datum (AOD) and 7.0m AOD. There is a slight downwards slope from south to north.

3.2 Geological Setting

3.2.1 Geological Map Information

The geology of the site has been determined by reference to BGS Sheet 317/332 of Chichester and Bognor (1:50,000 Solid and Drift Editions), from which Figure 5 has been extracted. Reference has also been made to online BGS geological mapping and the Lexicon of Named Rock Units. The referenced information indicates the site to be underlain by Aeolian deposits ('Brickearth') of *Quaternary* age, comprising mainly silts with some gravel. These deposits are indicated to be underlain by bedrock geology of the *Cretaceous* period and comprising chalk of the Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated).

3.2.2 Previous Report Information

The ASDA site was subject to four phases of intrusive investigation prior to its construction in 2012. The exploratory holes undertaken as part of these investigations which were located within or within about 20m of the subject site are detailed in Table 3.1. The relevant exploratory hole logs, together with plans showing their locations, are presented in Enclosures A-D.

Table 3.1 Summary of available exploratory holes

Investigation	Exploratory Holes		Enclosure
	Within site	Within ~20m of site	
Arcadis March 2011	WS12, HP1	BH6, WS7	A
Arcadis August 2011	-	TP101, TP105, TP106	B
Arcadis February 2012	T204, TP205	TP201-TP203, TP06	C
RSK November 2011	TP2	-	D

The general succession of strata encountered in the 14 exploratory holes detailed in Table 3.1 comprises:

- 0.15-0.8m (mean 0.4m) of **made ground**. Generally limited to concrete over hardcore, but with occasional underlying thin layers of clay and/or gravel.
- Soft to firm silty gravelly clays to the termination depth of all but two of the exploratory holes at depths between 0.45m and 5m bgl. These strata are likely to represent **Aeolian deposits**.
- **Chalk** was encountered in two exploratory holes close to the southern and western site boundaries at depths of 2.5m (TP105) and 3.4m (BH6). Exploratory holes across the remainder of the ASDA site encountered chalk at depths of between 1.9m and 5.5m. The chalk was typically matrix dominated (Grade Dm) to the termination depths of the boreholes at about 10m bgl.

The depth to groundwater in the vicinity of the site was about 2m bgl (5m AOD). An apparently continuous groundwater table was identified across the site with a down-gradient towards the southeast. The absence of rapid influxes of groundwater within trial pits excavated through the superficial soils together with the presence of standing groundwater levels above the response zones in borehole installations targeting the chalk bedrock, suggest that the groundwater is under sub-artesian pressure from the underlying chalk.

The ground levels within the current site recorded on the Arcadis March 2011 exploratory hole records and the post-construction topographical survey (see Section 3.1) are broadly similar, showing a maximum reduction in ground level of 0.27m. Any earthworks undertaken as part of the development of the ASDA store are therefore considered unlikely to have significantly affected the site.

3.3 Hydrology

Site sensitivity maps and environmental database information supplied by Landmark Information Group Limited and included in Enclosures E and F respectively indicate that the closest surface water feature to the site is an unnamed inland river located at 160m to the south of the site. The river Ferring Rife is also located at approximately 350m to the east of the site, flowing towards the south.

3.4 Hydrogeology

The maps included in Enclosure E indicate that the underlying chalk bedrock is classified as a 'Principal' aquifer. The superficial Aeolian deposits are classified as a 'Secondary A' aquifer.

The environmental database (Enclosure F) indicates that the nearest water abstraction is located at 245m to the north east of the site, where groundwater is being abstracted for agricultural and domestic purposes, in association with a nursery (garden centre). Another groundwater abstraction borehole is located at 785m to the north of the site, where groundwater is being abstracted for spray irrigation in association with a farm. However, on the basis of the groundwater information contained in the Arcadis reports, both of these abstractions are located up-gradient of the site.

The site is not indicated to lie within a Groundwater Source Protection Zone (SPZ), and no SPZs have been identified within 1km of the site.

3.5 Major Ecological Receptors

The maps in Enclosure E indicate that the South Downs National Park is located at 805m to the north of the site. This designation constitutes a major ecological receptor¹. The National Park is considered to be located at too great a distance to be affected by activities at the site. No other major ecological receptors have been identified within 1km of the site.

3.6 Flood Risk

Reference to flood maps produced by the EA (consulted August 2017) indicate that the site is located within Flood Zone 1, which corresponds to the lowest risk classification with respect to flooding from rivers and the sea. Maps included in Enclosure E indicate that the site is also at very low risk of flooding from surface water (pluvial water).

A separate map produced on the basis of BGS data and included in Enclosure E identifies that there is a potential for "groundwater flooding to occur at the surface". This map is intended to identify areas where there was sufficient evidence to suggest that flooding from groundwater could occur at the surface. The mapping data is produced at a national scale, and this should not automatically be taken to mean that groundwater floods will occur across the whole of the defined risk area. Mapping limitations and local factors may reduce groundwater flood risk to land and property even where it lies within a mapped groundwater flood risk zone.

3.7 Summary

The site is considered sensitive with respect to controlled waters given the classification of the bedrock and superficial geology as 'Principal' and 'Secondary A' aquifers respectively and the presence of surface water features in the proximity of the site. The site is not considered sensitive with respect to licenced groundwater abstractions due to the boreholes being located up-gradient of the site. The site is also not located within a SPZ.

¹ as listed in Table A of Annex 3, DEFRA Circular 01/2006: Environmental Protection Act 1990: Part 2A – Contaminated Land, September 2006.

The site is not considered sensitive with respect to major ecological receptors due to the stated distance and is not considered to be at significant risk from fluvial flooding.

4.0 SITE HISTORY

The site history has been deduced primarily from a review of historical OS maps provided by Landmark Information Group Limited. Where necessary, additional enquires were made in the site locality.

4.1 Historical maps

Table 4.1 summarises the previous uses of the site and surrounding area as identified in maps dated between 1876 and 2017. Copies of the maps referenced in the table are included in Enclosure G. Any identified uses of the site and the surrounding area that are considered potentially contaminative are shown in ***bold italics***. The distances and directions from the site stated in the table below are approximate.

Table 4.1 Review of Historical Maps

On-site	Surrounding area
1876 (1:2,500)	
The site is shown to comprise undeveloped farmland with the exception of a small building on its northern boundary. A track traverses through the north eastern section.	The site is surrounded mostly by farmland. Buildings associated with Hangleton are present at 80m to the north east. A road is shown at 20m to the north of the site, a well at 100m to the west and a <i>railway</i> is present at 200m to the south.
1911 (1:2,500)	
No significant changes are indicated.	Greenhouses and a <i>tank</i> had been constructed 100m to the north east of the site.
1932 (1:2,500)	
No significant changes are indicated.	Orchard tree plantations are shown at 200m to the north and north east of the site. A <i>tank</i> is indicated at 130m to the north of the site.
1943 (1:10,560)	
No significant changes are indicated.	A nursery had been constructed to the southeast of the site at about 50m.
1962 (1:10,560)	
The site had been redeveloped with a small building in the central part and another building encroaching on the south western part of the site. These are considered likely to represent the nursery buildings indicated on the subsequent 1972 map edition.	More development (most likely additional greenhouses) is visible at the nursery located to the southeast of the site at about 50m.
1972 (1:2,500)	
The site forms part of Old Barn Nurseries which extends outside the site to the south and west.	Old Barn Nurseries includes a <i>tank</i> adjacent the southern boundary of the site and a building located at about 15m to the west of the site. Littlehampton Road had been constructed adjacent the site to the north. <i>Engineering works</i> had been constructed at 100m to the north west of the site and several nurseries and associated <i>tanks</i> had been developed at 100m to the north and north east of the site. A pond is identified at 120m to the south west. Significant residential development had taken place at 200m to the east and south east of the site.
1983 (1:2,500)	
The site had been redeveloped into a garden centre (which extends outside the site to the south and	The tank adjacent the southern boundary is no longer indicated, however Two <i>tanks</i> associated with the

On-site	Surrounding area
west). Many of the former structures on site have been demolished and replaced.	garden centre are present at 20m to the west of the site. [Information contained in the Arcadis reports suggests that these tanks contained heating oil].
1993 (1:2,500)	
The structures on site had been demolished and the site is vacant, although still apparently associated with the garden centre to the south	Some of the garden centre buildings to the south had been demolished and reconstructed in a new layout. New buildings had been constructed at 100m to the south east of the site.
1999 Aerial Photography	
No significant changes are indicated.	More buildings had been constructed at 100m to the south of the site.
2006 (1:10,000)	
No significant changes are indicated.	Some of the buildings located at 100m to the south east of the site had been demolished .
2017 (1:10,000)	
The site had been developed into the present day overflow car park associated with the ASDA store.	The existing supermarket had been constructed at 150m to the south of the site. The pond located at 120m to the south west of the site had been infilled and the land redeveloped.

4.2 Additional Information

ASDA records indicate that the construction of the existing supermarket was completed in November 2012.

The Arcadis March 2011 report confirms that at the time of the investigation works detailed in that report, the subject site was utilised as car parking associated with the garden centre to the south. The report also indicates that an electricity sub-station was located at the north eastern corner of the former garden centre building, adjacent the site to the south.

The Arcadis March 2011 report also makes reference to the infilling of several drains and a pond located beneath the southern section of the wider ASDA retail site (about 100m south of the subject site).

4.3 Summary

The site has been occupied by buildings and car parks relating to commercial plant nurseries and a garden centre from the 1960s until the development of the ASDA store and car park in 2012. No significant changes have taken place at the site since then.

With the exception of an engineering works constructed in the early 1970s at about 100m to the north of the site and a railway about 200m to the south of the site, the surrounding land has been dominated by farmland and plant nurseries. Heating oil tanks have historically been located adjacent the site to the south and at a distance of 20m to the west. An electricity substation has also formerly been located adjacent the site to the south.

The possibility of ground contamination having been caused at the site as a result of the previous uses of the site and surrounding area is discussed further in Section 8.0 (Initial Conceptual Site Model).

5.0 MINERAL EXTRACTION

The environmental database (Enclosure F) and historical maps consulted indicate that the absence of mineral extraction within 500m of the site.

Coal Authority mapping data shows that the site is not located in a Coal Mining Reporting Area.

On the basis of the above information, ground subsidence due to mineral extraction is considered unlikely to affect the proposed development. However, the risk of future settlement of the existing made ground and Aeolian Deposits beneath the site will need to be given due consideration in the design of the proposed new structures. This issue is discussed further in Section 9.2.

6.0 ENVIRONMENTAL DATABASE INFORMATION

Enclosure F contains a database of environmental information supplied by Landmark Information Group Limited. The main points of note within this database are tabulated below. All distances stated are approximate and positional accuracy may be to within 100m in some cases.

Table 6.1 Summary of Environmental Database Information

	No. of incidents		Details of notable database entries	
	0-250m	251-500m	Distance & Direction from site	Additional Information
Discharge Consents	3	14	On-site 115 & 125m NE 315m N 335-485m All directions	Sewage discharge into land revoked 2012 and 2013 Sewage and trade combined discharges via a culvert to river Ferring Rife, now revoked. Process water from a nursery discharge into land, revoked 2005 Relate to discharge of sewage or surface water All of the above discharges are considered unlikely to affect the site.
Pollution Incidents to Controlled Waters	1	0	60m NW	Diesel fuel, 1999, Category 3 – Minor incident. Unlikely to have affected the site due to the age and ‘minor’ classification of the incident.
Local Authority Pollution and Prevention Controls (LAPPC)	0	0	-	-
Potentially Infilled Land (non-water)	0	1	390m NE	Unknown filled ground (pit, quarry, etc.) (1976)
Potentially Infilled Land (water)	0	2	270m E 320m E	Unknown filled pond/marsh/ stream 1943 Unknown filled pond/marsh/ stream 1943
PFS sites	0	0	-	-

	No. of incidents		Details of notable database entries	
	0-250m	251-500m	Distance & Direction from site	Additional Information
Potentially contaminative land uses (active)	2	2	110m NW 205m NE 275m NE 425m N	Joinery manufacture Garage services Concrete and mortar ready mixed Commercial vehicle dealers
Potentially contaminative land uses (inactive)	3	-	72m NW 87m NW 112m NW	Marine engineering works Electronic equipment manufacture and Garage services

The possibility of ground contamination having been caused at the site as a result of industrial activities located within its vicinity is discussed further in Section 8.0 below.

The database in Enclosure F also includes details of the risk posed by geological conditions at the site. These risks are summarised in Table 6.2.

Table 6.2 Geological Conditions

Hazard	Risk On-site
Shrinking or swelling clay	Low
Collapsible ground	Low
Compressible ground	No risk
Ground dissolution	Very low
Landslide ground stability	Very low
Running sand ground stability	Low

The reported 'no risk' classification with respect to compressible ground is based on 1:50,000 scale geological mapping rather than site specific data, and is apparently contradicted by the presence of soft clay soils encountered beneath the site by previous investigations (Section 3.2.2).

7.0 PREVIOUS INVESTIGATION INFORMATION

Arcadis undertook three phases of intrusive investigation across the wider ASDA site prior to construction of the store in 2012. These investigations included some exploratory holes and laboratory testing of samples recovered from within or adjacent the current site boundary. The pertinent findings are discussed below:

Human Health

- Visual evidence of hydrocarbon contamination was identified in the area of a former heating oil tank to the west of the site in the depth range 2.3-3.7m bgl (TP101, Arcadis August 2011 and TP206, Arcadis 2012). However, concentrations of hydrocarbons in these soils, and other soils across the ASDA site were present at levels which Arcadis did not consider to pose a risk to human health.
- Concentrations of PAH, metals, VOCs and SVOCs across the ASDA site were also present below concentrations at which Arcadis considered them to pose a risk to human health.

- Concentrations of PCBs were below test detection limits in five soil samples recovered from trial pits targeting the former electricity sub-station to the south of the site (TP201-TP205, Arcadis 2012).
- No asbestos fragments or fibres were detected within or adjacent the current site, however loose fibres were detected beneath the western section of the ASDA site.

Controlled Waters

- Arcadis determined that the low levels of hydrocarbons and PAH detected in soil samples across the ASDA site posed a potential risk to controlled waters. However, analysis of groundwater samples recovered from borehole installations in the vicinity of the impacted soils did not identify any TPH or PAH compounds at concentrations of concern.
- The Arcadis 2012 report concluded that hydrocarbon impacted soils at depths between 2m and 3.7m bgl about 20m to the west of the current site (the area of TP101, TP206 and TP207) should be removed from site to provide 'environmental betterment' and remove the 'theoretical risk' to the underlying chalk aquifer. No evidence of this remediation validation has been provided to DTS and it is not known if this recommendation was implemented.

The Arcadis August 2011 report indicates that a Groundwater Resources Risk Assessment for the site is being undertaken separately, however this document has not been made available to DTS.

Soil Gas

Enclosure B contains the results of the gas and groundwater monitoring undertaken by Arcadis between February and July 2011. The monitored boreholes included WS7 and BH6 which are located within 20m of the current site. The report recommended gas protective measures corresponding to a CS-2 classification (as defined by CIRIA C665) for the ASDA store due to elevated concentrations of methane and carbon dioxide. However, these elevated concentrations were generally associated with the areas of infilled ground in the southern section of the site. Significantly lower concentrations (falling into CS-1) were identified in the vicinity of the current site.

Soil Stabilisation

The RSK 2012 report concluded that soil stabilisation was not a viable option beneath the ASDA store footprint, but that treatment of the shallow clay soils beneath the car park areas would result in an increased CBR value. It is not known if these works were undertaken.

8.0 INITIAL CONCEPTUAL SITE MODEL (CSM)

A qualitative risk assessment of the site was undertaken utilising the information obtained in the preceding desk study section of the report in order to facilitate the development of an initial CSM. This was based on a risk-based approach and incorporated the accepted contaminant–pathway–receptor linkage approach ('pollutant linkage') outlined in Part IIa of the Environmental Protection Act 1990. This approach also follows the risk assessment framework included in CLR11 (DEFRA and EA, 2004) in which three essential elements to any risk are considered:

- ✧ A **contaminant** – a substance that is in, on or under the land and has the potential to cause harm or to cause pollution of controlled waters;
- ✧ A **receptor** – in simple terms, something that may be adversely affected by a contaminant
- ✧ A **pathway** – a route or means by which a receptor can be exposed to, or affected by, a contaminant.

A risk is created only where the above three elements are linked together, and must first be established for a contaminated land hazard to exist and before any other secondary considerations are given to the effects and the need/requirement for remediation.

Table 8.1 below summarises the potential contaminants, receptors and pathways identified. Contaminants arising from the current and historical uses of both the site and surrounding area have been considered. For the purpose of this assessment the contaminants have been separated according to whether they are likely to have originated from on-site or off-site sources.

Table 8.1 Initial CSM

Potential Sources (<i>associated contaminants</i>)
On-site sources: • Previous use of the site as a nursery/garden centre car park (unlikely) • Demolition of former buildings on site (<i>heavy metals, asbestos</i>). Previous targeted and non-targeted soil and groundwater analysis identified low levels of the contaminants listed above within and adjacent the current site. • Current use of the site as an overflow car park (constructed 2012) (unlikely)
Off-site sources: • Former electricity sub-station (<i>PCBs</i>). However, previous targeted investigations did not find any elevated levels of contamination. • Former heating oil tanks to west and south of the site (<i>petroleum hydrocarbons, PAH, phenol, acidity/alkalinity (low/high soil pH)</i>). Low levels of hydrocarbon impacted soils identified 20m west of the site at depth of 2m -3.7m bgl as part of previous investigations. It is not known whether the impacted soils have been removed in accordance with recommendations given by the Arcadis 2012 report. • Demolition of former buildings (<i>heavy metals, asbestos</i>). Asbestos containing materials were identified by previous investigations beneath the western section of the ASDA site. • Infilled drains and ponds about 100m south of the site, as reported by the Arcadis March 2011 report (depending on the infill material could include: <i>metals/metalloids, phenol, petroleum hydrocarbons, PAH, acidity/alkalinity (low/high soil pH)</i>, soil gas). Previous targeted investigations did not find any elevated levels of contamination within soil or groundwater but elevated concentrations of soil gas were detected. • Existing railway located at 200m to the south of the site (<i>metals/metalloids, phenol, petroleum hydrocarbons, PAH compounds, acidity/alkalinity (low/high soil pH)</i>) • Impacts from current and historical adjacent light industrial activities which include engineering works/joinery located at 110m to the north west of the site (<i>metals/metalloids, phenol, petroleum hydrocarbons, PAH, acidity/alkalinity (low/high soil pH)</i>) However, the primary responsibility for ground contamination occurring at the site from these sources would lie with the respective site owners/occupiers.
Potential Receptors
• Humans: Construction workers, future site users, off-site residents • Development end use: Buildings, hardstandings, services, utilities and limited landscaped areas • Controlled waters: • Groundwater – ‘Principal’ and ‘Secondary A’ aquifer status of the chalk bedrock geology and superficial deposits respectively • Surface water – unnamed river located at 160m south of the site, Ferring Rife river located at 350m to the east of the site
Potential Pathways
• Humans: Ingestion, skin contact, inhalation of dust and indoor and outdoor air • Development end use: Contact • Controlled waters: • Groundwater: leachate migration into pore water from soil contamination, dilution and dispersion through soils into groundwater • Surface water: surface run-off, hydrological flow within groundwater

The CSM summarises the identified potential sources of ground contamination, potential exposure/migratory pathways and potential receptors, and indicates that it is possible for the accepted contaminated land hazard identification convention (contaminant – pathway - receptor linkage) to be completed for this site with respect to human receptors, the development end use and controlled waters as a result of off-site sources of contamination only. The identified on-site sources have previously been investigated and no evidence of contamination identified.

A risk prioritisation is included in Section 9.0 below.

9.0 PRELIMINARY RISK ASSESSMENT

9.1 Ground Contamination Risk Prioritisation

Tables 9.1 and 9.2 illustrate a risk prioritisation of the ‘pollutant linkages’ that may be present at the site as a result of potential contaminants arising from on-site sources and off-site sources respectively.

The significance of the ‘pollutant linkages’ has been assessed as low, moderate or high based upon the following definitions:

- Low: No significant linkage exists and / or the potential for future impact is considered to be minimal.
- Moderate: The linkage exists, but there are insufficient field or laboratory data to confirm the link.
- High: The linkage exists and the availability of data indicates remedial action may be required to address potential liability issues.

The assessment relates the relevance of these linkages to the site under consideration and assumes a redevelopment of the existing overflow car park as illustrated in Figure 4.

Table 9.1 Ground Contamination Assessment with Respect to On-site Sources

On-site Sources	Potential Contaminants	Pathway	Receptor	Risk
Demolition of former buildings	<i>metals</i> <i>asbestos</i>	Dermal Contact	Humans: construction workers future site users off-site residents	Low
		Ingestion		Low
		Inhalation		Low
		Contact	Development end use	Low
		Migration, dilution and dispersion through soils	Controlled waters: ‘Principal’ and ‘Secondary A’ aquifer status of the chalk bedrock and superficial deposits, respectively	Low
		Surface run-off, hydrological flow within groundwater	Unnamed river at 160m to the south, Ferring Rife river at 350m to the east of the site	Low

The risk to future construction workers, site occupiers and off-site residents is considered low on the basis of the contamination test results obtained during previous phases of investigation undertaken

by Arcadis. The risk to the development end use and controlled water receptors from ground contamination at the site is also considered low on the basis of the available information.

Table 9.2 Ground Contamination Assessment with Respect to Off-site Sources

Off-site Sources	Potential Contaminants	Pathway	Receptor	Risk
Former heating oil tanks to west and south of the site and related soil contamination	<i>hydrocarbons, PAH compounds</i>	Inhalation Ingestion Dermal contact	Humans: construction workers site end users off-site residents	Low Low Low to moderate
Demolition of former buildings	<i>metals/metalloids, asbestos</i>	Contact	Development end use	Low
Infilled drains and ponds about 100m south of the site	Could include: <i>hydrocarbons, PAH compounds, metals/metalloids, phenol, acidity/alkalinity (low/high soil pH), asbestos soil gas</i>	Migration, dilution and dispersion through soils	Controlled waters: 'Principal' and 'Secondary A' aquifer status of the chalk bedrock and superficial deposits, respectively	Moderate
Existing railway at 200m south of the site	<i>metals/metalloids, phenol, hydrocarbons, PAH compounds, acidity/alkalinity (low/high soil pH)</i>	Surface run-off and hydrological flow within groundwater	Unnamed river at 160m to the south, Ferring Rife river at 350m to the east of the site	Moderate
Current and historical light industrial activities in the area, inclusive of engineering works/joinery at 110m to the north west of the site	<i>metals/metalloids, phenol, hydrocarbons, PAH compounds, acidity/alkalinity (low/high soil pH)</i>			

The assessment in Table 9.2 identifies the possibility of ground contamination occurring at the site and in the surrounding area from off-site activities. The responsibility for ground contamination occurring from off-site sources, if present, would lie with the respective site owners/occupiers. The risk is also classified as moderate with respect to controlled waters. In practice this is likely to mean that any contamination of controlled waters, if present, could not conclusively be attributed to the subject site.

9.2 Preliminary Geotechnical Assessment

The site is to be redeveloped to comprise a PFS in the western section which will include a canopy, USTs, fuel pump islands and an unmanned control room. Consideration is also being given to redevelopment of the eastern section of the site, although no details are available at this stage.

Ground Conditions

Available information indicates the site to be underlain by about 0.5m of made ground over soft to firm silty gravelly clay.

Although chalk was not encountered within the upper 5m beneath the current site, the depth to this stratum was variable across the wider ASDA site and ranged from about 1.9m bgl to 5.5m bgl, indeed a borehole drilled 20m to the west and a trial pit excavated about 20m to the south of the site encountered chalk at 3.4m bgl and 2.5m bgl respectively.

Foundations

The made ground is not considered to be a suitable stratum due to its variable composition and unpredictable behaviour under loading. The made ground is underlain by soft clay, which is also not considered suitable to support foundations.

Consideration should be given to the use of piled foundations (bearing on the chalk bedrock) or vibro-replacement stone columns in order to provide a viable option for the proposed PFS canopy. The use of a reinforced concrete raft foundation could be considered for the construction of the control room and jet wash facility.

A site specific geotechnical investigation is recommended in order to provide quantitative data for foundation design.

Groundwater

A continuous groundwater table was identified across the ASDA site. In the vicinity of the current site this was recorded at about 5m AOD (2m bgl).

Based on this information, excavations bellow 2m, such as those to install underground fuel tanks, are likely to require lateral support and dewatering.

9.3 Soil Gas Hazards

Potential sources of soil gas include infilled ditches and a pond beneath the southern section of the ASDA site, about 100m from the subject site. Elevated concentrations of methane and carbon dioxide were detected in this area during the Arcadis investigations.

A gas monitoring regime is recommended as part of any future investigation at the site in order to confirm the gas regime in the vicinity of the proposed development.

The environmental database (Enclosure F) indicates that the site is located in an intermediate probability radon area, where between 5% and 10% of homes are affected by radon at concentrations at or above the 'Action Level', and that basic radon protection measures are considered necessary for new buildings.

10.0 ENVIRONMENTAL RISKS POSED BY CONSTRUCTION OF PFS

The Arcadis investigations indicate that groundwater is presents at about 2m bgl in the vicinity of the current site (above the proposed base of the USTs), and that the chalk Principal aquifer may also be present at depths less than 4m bgl.

The EA publication 'The Environment Agency's approach to Groundwater Protection' (v1.0, 2017) states that the Agency will object to the storage of hazardous substances (including petrol and diesel) below the groundwater table above Principal aquifers.

On this basis it is advised that the use of USTs at the site is unlikely to be acceptable to the EA and design consultations should therefore be undertaken at a suitably early stage.

11.0 LIMITATIONS AND USE OF THIS REPORT

IMPORTANT: This section should be read before reliance is placed on any of the opinions, advice, recommendations and conclusions contained in this report.

- a) This report has been prepared on behalf of ASDA Stores Ltd ('the Client') pursuant to their appointment of DTS Raeburn Limited in connection with the PRA;
- b) Except for ASDA Stores Ltd, no duty is undertaken or warranty or representation made to any party in respect of the opinions, advice, recommendations or conclusions contained in this report;
- c) All work carried out in preparing this report has used, and is based upon DTS Raeburn's professional knowledge and understanding of the current (August 2017) relevant standards, codes, technology and legislation. Changes in the above may cause the opinion, advice, recommendations or conclusions set out in this report to become inappropriate or incorrect. Following delivery of this report, DTS Raeburn will have no obligation to advise the Clients of any such changes or of their effects. It may therefore be necessary to review the opinions, advice, recommendations and conclusions of this report following future changes to legislation;
- d) Some of the information referenced and included in the PRA has been provided by third parties and whilst DTS Raeburn has no reason to doubt the accuracy, these items have not been verified. DTS Raeburn accepts no responsibility for errors within third party materials referenced and presented in this report;
- e) The content of this report represents the professional opinion of experienced geotechnical and environmental specialists/consultants. DTS Raeburn does not provide associated legal advice and appropriate legal advice should be sought if required;
- f) The lack of evidence of the presence of hazardous materials, voids or obstructive features at the subject property does not guarantee the absence of such materials, rather it indicates only that none was found as a result of the services provided.

DTS RAEBURN LTD

E13043/1 – September 2017

References

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Investigation of Potentially Contaminated Sites - Code of Practice
BS10175: 2011+A1:2013
- ii) Department for Environment, Food and Rural Affairs and the Environment Agency
R&D Publication CLR11: Model procedures for the management of land contamination
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- iii) Environment Agency website:
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<http://www.ukradon.org/information/ukmaps>
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2007 Edition



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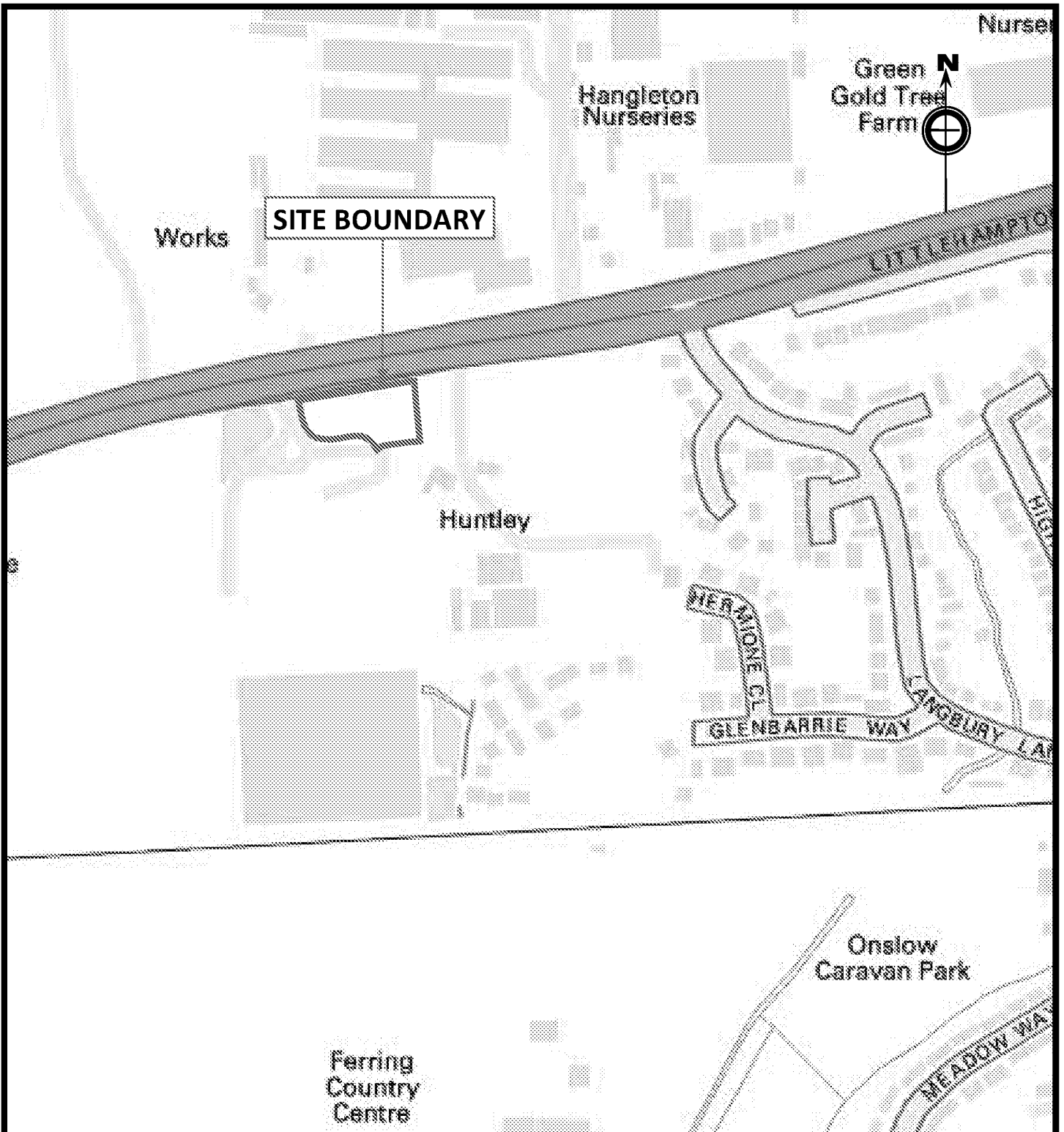
FIGURE 1

Site Location Plan

Scale 1:200,000 @A4

E13043/1: ASDA Ferring

Prepared for: ASDA Stores Limited



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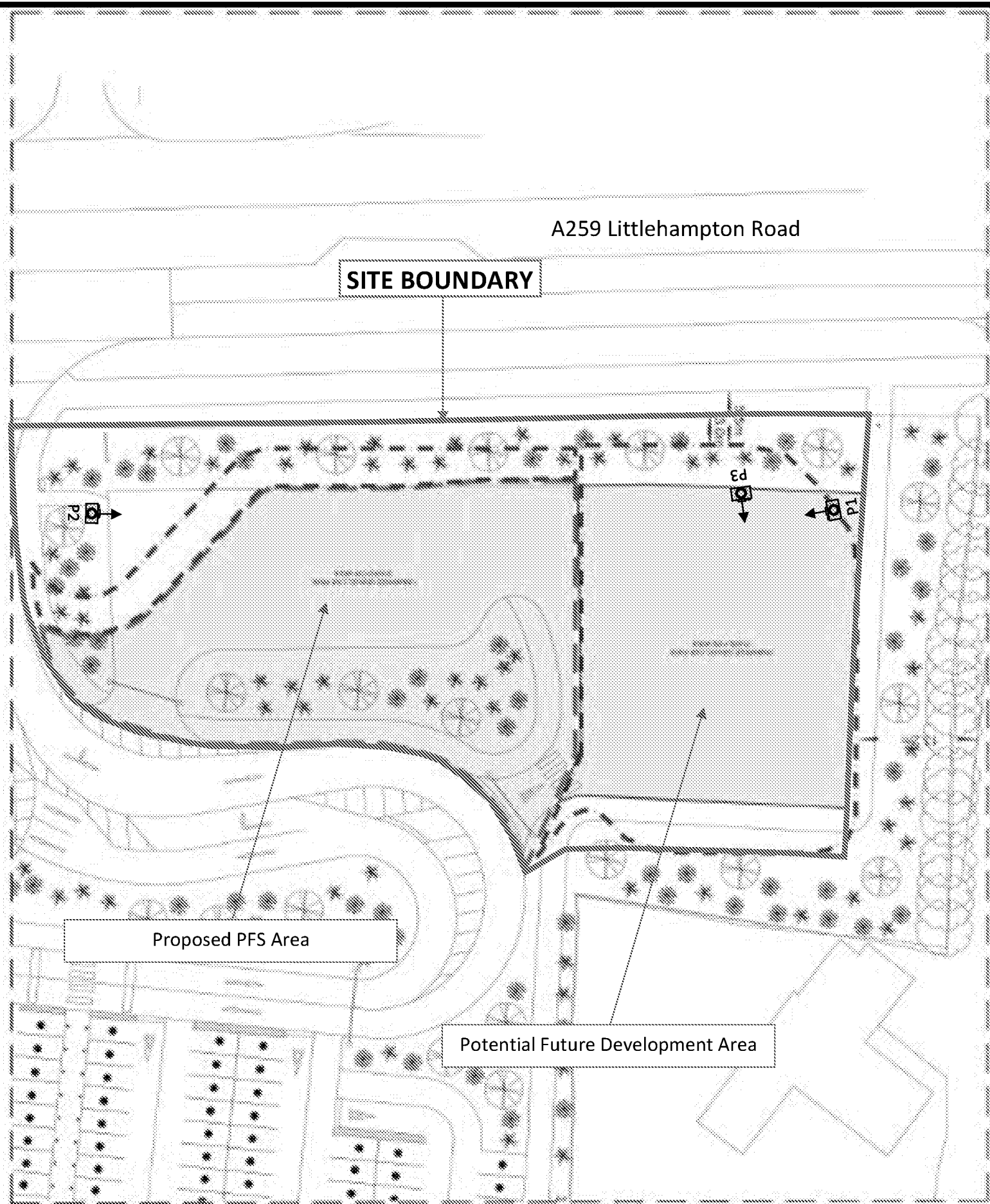
FIGURE 2

Street Map

Scale 1:2,500 @A4

E13043/1: ASDA Ferring

Prepared for: ASDA Stores Limited



Legend

 Plate location

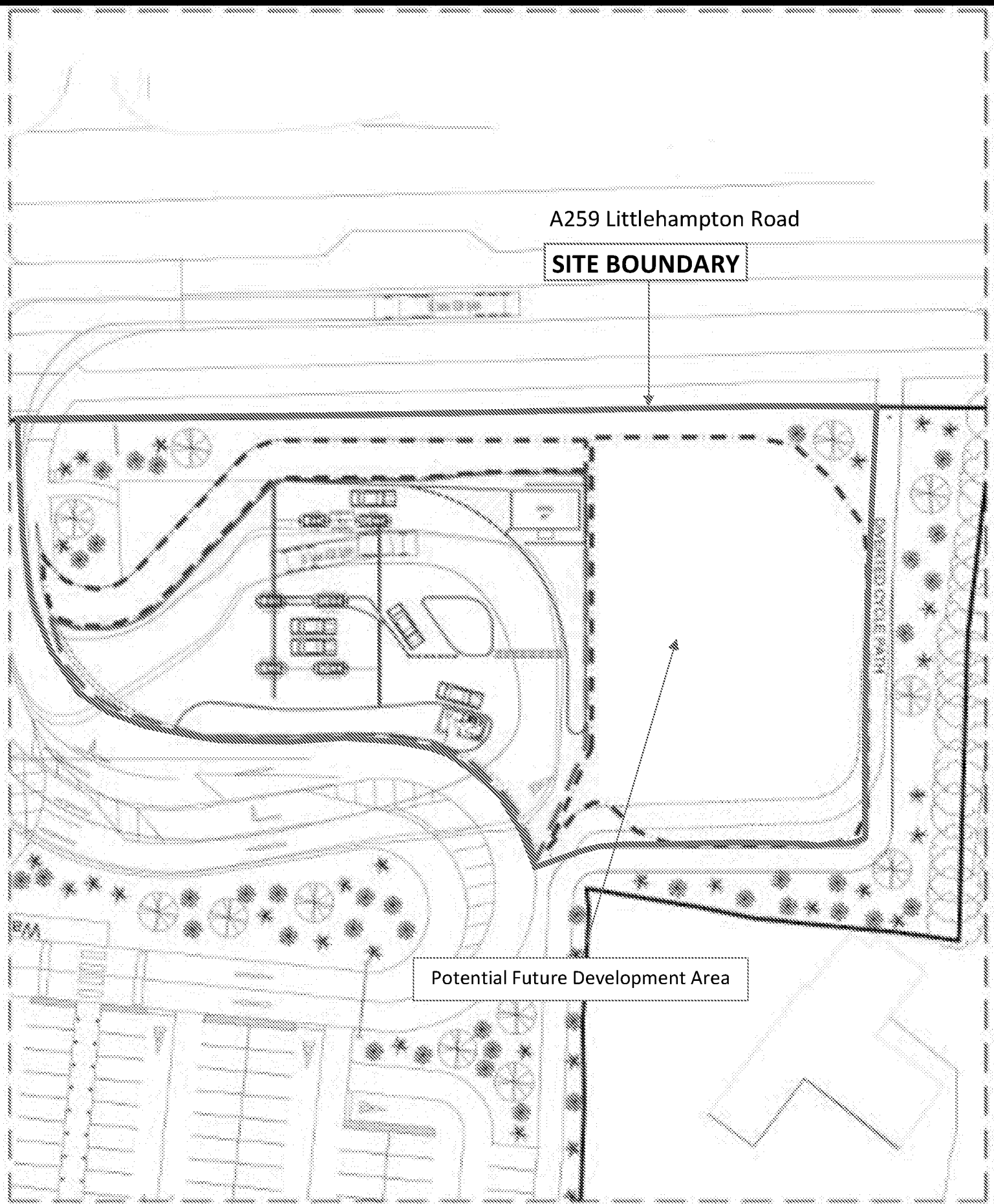
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FIGURE 3

Existing Site Layout Plan
Scale 1:500 @A3

E13043/1: ASDA Ferring
Prepared for: ASDA Stores Limited



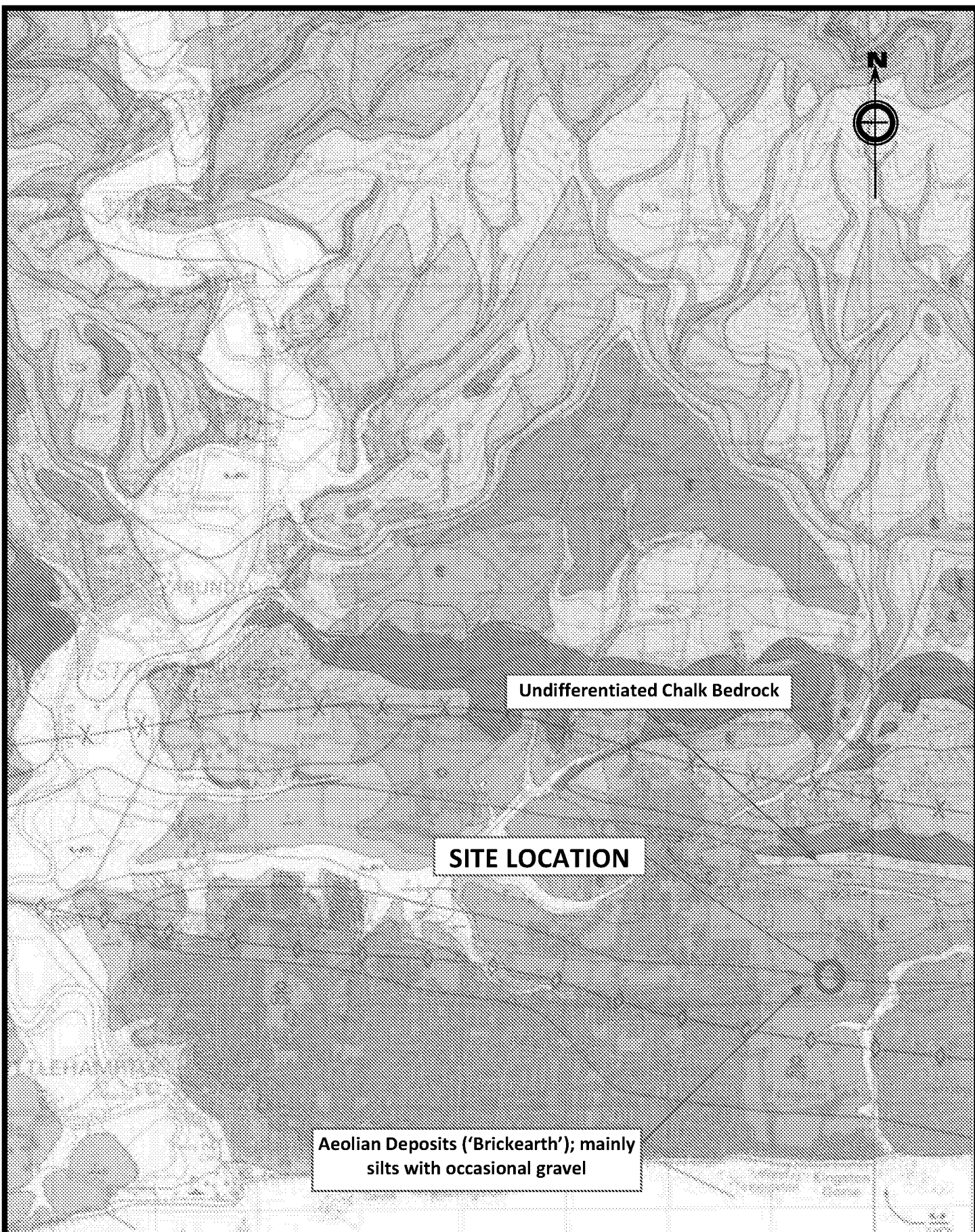
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FIGURE 4

Proposed Development Plan
Scale 1:500 @A3

E13043/1: ASDA Ferring
Prepared for: ASDA Stores Limited



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FIGURE 5

Extract from BGS Sheet 317/332 (Chichester and Bognor)
 Solid and Drift Edition; Scale 1:50,000 @A4

E13043/1: ASDA Ferring
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Plate 1: Overflow car parking looking west



Plate 2: Overflow car parking looking east

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PLATES 1 & 2

Photographic Record

**E13043/1: ASDA Ferring
 Prepared for: ASDA Stores Limited**



Plate 3: Overflow car parking looking southeast

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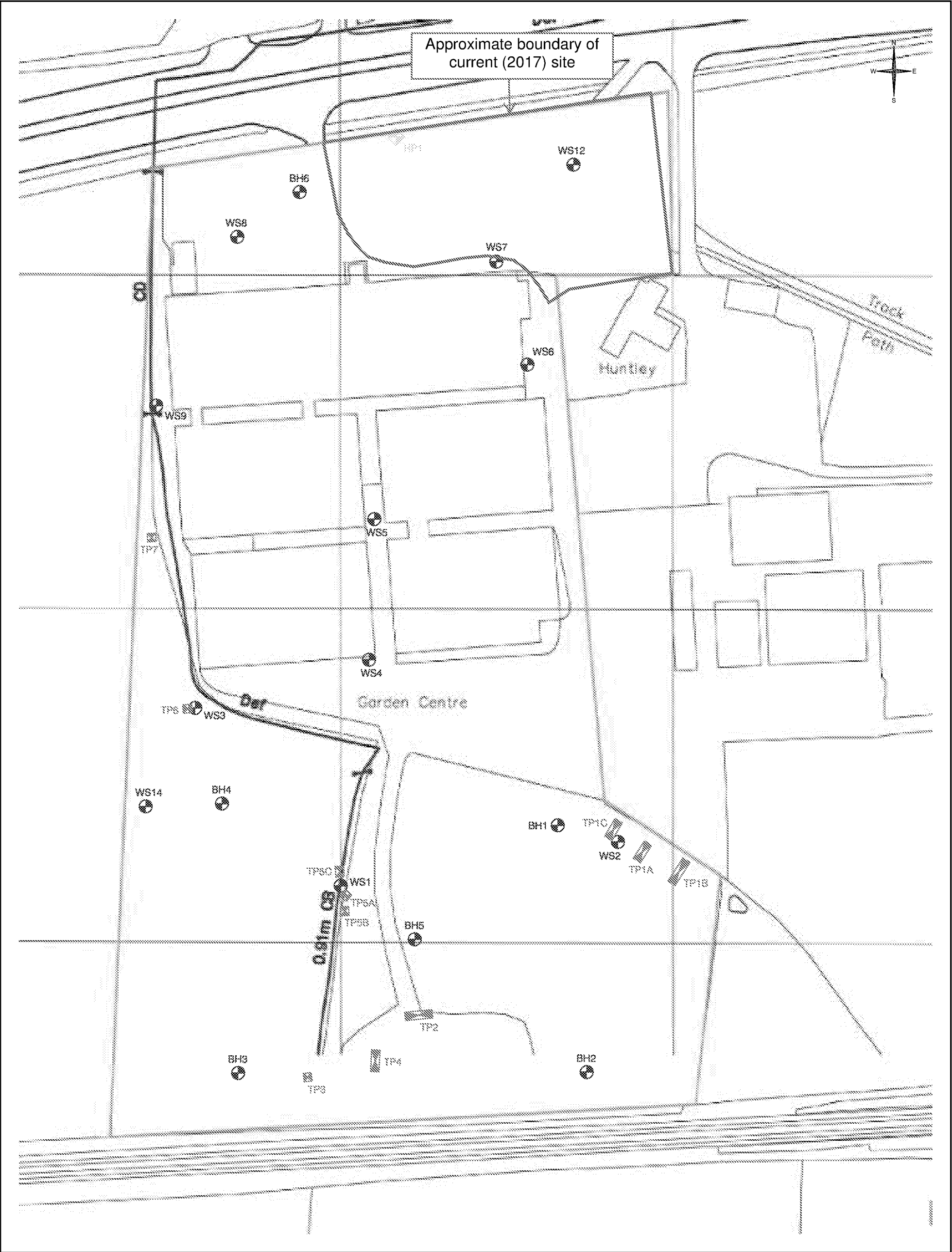
PLATE 3

Photographic Record

E13043/1: ASDA Ferring
 Prepared for: ASDA Stores Limited

ENCLOSURE A

**Extract from March 2011 Arcadis Ground Investigation Report
(5 pages)**



DISCLAIMER	NOTES	KEY	TITLE: SITE LAYOUT, BOREHOLE AND TRIAL PIT LOCATION PLAN		SITE: WORTHING	
NOTE: ALL ENTITIES SHOWN ON THIS DRAWING ARE TO BE REGARDED AS APPROXIMATE AND ARE INDICATIVE ONLY. NO MEASUREMENTS TAKEN FROM THIS DRAWING SHOULD BE USED FOR THE LOCATION OF INTRUSIVE INVESTIGATION WORKS ON SITE. SYMBOLS FOR BOREHOLES, TRIAL PITS AND OTHER SPECIFIC FEATURES ARE REPRESENTATIONS OF LOCATION ONLY AND UNLESS OTHERWISE SPECIFIED, DO NOT REPRESENT THE TRUE SIZE OF THE FEATURE. - CONTACT ARCADIS UK IN CASE OF ANY QUERY	Reproduced from the OS MasterMap by permission of Ordnance Survey® on behalf of The Controller of Her Majesty's Stationery Office. © Crown Copyright. All rights reserved. Licence Number 100021489.	BOREHOLE LOCATION TRIAL PIT LOCATION HAND PIT LOCATION	PROJECT: 80012/01		CLIENT: ASDA STORES LIMITED	FIGURE 2
	REV	DATE	COMMENT	CAD	DATE: 04/03/11	PRINT: A3
					DRAWN BY: BNB	REV: -
					DRG.No.: 800120106-CAD	
					ARCADIS Infrastructure · Water · Environment · Buildings Tel +44 (0) 1638 674767 www.arcadis-uk.com	

Site: ASDA Worthing	Location: Littlehampton Road, Worthing, West Sussex, BN12 6PB	Ground Level (mASD):	Trial pit width (m): 0.30 Trial pit length (m): 0.30 Support Method: Pit Stability: Good	Scale 1:25
Client: ASDA Stores Ltd		Easting: 508717 Northing: 103341		Logged By: L. Barber
Project No: 80012.01	Date: 01/02/2011	Excavation Method: Hand Dug		Checked By:

STRATA RECORD			IN SITU TESTS / SAMPLES							Sheet 1 of 1
Description	Legend	Depth (m)	Level (mASD)	Sample Type	Sample Depth (m)	PID (ppm)	PPT (kPa)	CBR Value	Water	
MADE GROUND: Grass over topsoil.										
MADE GROUND: Flint GRAVEL (Sub-base material).		0.20								
Soft to firm grey brown silty CLAY.		0.40								
End of Trial Pit at 0.45 m		0.45		D	0.50 0.50-1.15			1.75		
										1
										2
										3
										4

Key:

D	Disturbed Sample	PPT	Pocket Penetrometer Test
B	Bulk Sample	PID	Photoionisation Detector
J	Jar Sample		
▽	Water Strike		
■	Standing Water Level		

Groundwater: No groundwater encountered.

Remarks: CBR estimated with MEXE probe.

Site: ASDA Worthing	Location: Littlehampton Road, Worthing, West Sussex, BN12 6PB	Ground Level (mASD): 7.27	Hole Diameter (mm): 100	Scale 1:65
Client: ASDA Stores Ltd		Easting: 508747 Northing: 103304	Well Diameter (mm): 50 Filter Material: Gravel	Logged by: E.Jarratt
Project: 80012.01	Date: 07/02/2011	Method: Percussive		Checked by:

STRATA RECORD			IN SITU TESTS / SAMPLES						Sheet 1 of 1	
Description	Legend	Depth (m)	Level (mASD)	Sample Type	Sample Depth (m)	PID (ppm)	PPT (kPa)	SPT N Value	Well Details	Water Level
MADE GROUND: Concrete.		0.30	6.97	D	0.40-0.70					
MADE GROUND (poor recovery): Soft brown very gravelly CLAY. Gravel is fine to coarse subangular to subrounded hardcore fragments.		0.40	6.87	PPT	0.50		114			
		0.70	6.57	D	0.70-0.75		70			
				PPT	0.80					
Firm grey slightly gravelly silty CLAY. Gravel is fine to medium subangular to subrounded mixed lithologies. Frequent wood fragments.		1.40	5.87	U	1.00-1.20		57			1
		1.65	5.62	PPT	1.30					
Soft brown slightly gravelly silty CLAY. Gravel is fine fragments of mixed lithologies and flints.				D	1.80-2.00		145			2
				PPT	1.80					
				D	2.10-2.30		65			
				PPT	2.20					
Firm light brown very gravelly CLAY. Gravel is fine to coarse subangular to angular fragments of flint.				D	2.50-2.70					
				PPT	2.80		64			
Soft brown mottled grey slightly gravelly silty CLAY. Gravel is fine to medium subangular to subrounded fragments of flint and chalk clasts.		3.00	4.27							3
End of Borehole at 3.00 m										4
										5
										6
										7
										8
										9
										10
										11
										12

Key:

D	Disturbed Sample	PPT	Pocket Penetrometer Test
B	Bulk Sample	PID	Photoionisation Detector
U	Undisturbed Sample	SPT	Standard Penetration Test (Uncorrected)
J	Jar Sample		
▽	Water Strike		
■	Standing Water Level		

Remarks: No groundwater strike during drilling on 07/02/2011.

Site:
ASDA Worthing

Location:
Littlehampton Road, Worthing,
West Sussex, BN12 6PB

Ground Level (mASD): 7.37

Hole Diameter (mm): 100

Scale
1:65

Client:
ASDA Stores Ltd

Easting: 508770

Well Diameter (mm):

Logged by:
E.Jarratt

Northing: 103333

Filter Material:

Project: 80012.01

Date: 08/02/2011

Method: Percussive

Checked by:

STRATA RECORD

IN SITU TESTS / SAMPLES

Sheet 1 of 1

Description	Legend	Depth (m)	Level (mASD)	Sample Type	Sample Depth (m)	PID (ppm)	PPT (kPa)	SPT N Value	Well Details	Water Level
MADE GROUND: Concrete. Plastic membrane at 0.1m bgl.		0.10	7.27	D	0.10-0.25					
		0.25	7.12							
MADE GROUND: Medium to coarse subangular to angular hardcore gravel.				PPT	0.50		204			
				D	0.60-0.80		190			
				PPT	0.80					
Stiff dark brown and black slightly gravelly silty CLAY. Becoming more gravelly with depth. Occasional thin bands of brown silt. Gravel is fine to coarse subangular to angular flint fragments and chalk clasts.		0.95	6.42	D	0.90-1.00			N=17 (2,2/3,3,5,6)		1
				D	0.95-2.30					
				SPT	1.00-1.45					
Medium dense grey mottled brown slightly silty gravelly very clayey SAND. Sand is coarse. Gravel is fine to medium fragments of flints and chalk clasts.		2.30	5.07	SPT	2.00-2.45			N=13 (3,3/3,3,3,4)		2
				D	2.10-2.30					
				PPT	2.60		74			
				D	2.60-4.00					
				PPT	2.95		120			
				SPT	3.00-3.45			N=20 (2,3/5,4,5,6)		3
				PPT	3.40		99			
Soft to firm brown mottled grey slightly gravelly silty CLAY. Becoming brown and more gravelly with depth. Gravel is fine to medium subangular to subrounded fragments of chalk clasts and flints. Slightly wet at 4.95m bgl.				PPT	3.80		162			
				SPT	4.00-4.45			N=19 (3,3/4,4,5,6)		4
				D	4.00-5.00					
End of Borehole at 5.00 m		5.00	2.37	SPT	5.00-5.45			N=23 (6,5/5,5,6,7)		5
										6
										7
										8
										9
				D	9.00					10
										11
										12

Key:

D	Disturbed Sample	PPT	Pocket Penetrometer Test
B	Bulk Sample	PID	Photoionisation Detector
U	Undisturbed Sample	SPT	Standard Penetration Test (Uncorrected)
J	Jar Sample		
▽	Water Strike		
▬	Standing Water Level		

Remarks: Groundwater strike encountered at 4.95m bgl during drilling on 08/02/2011.

Site:
ASDA Worthing

Location:
Littlehampton Road, Worthing,
West Sussex, BN12 6PB

Ground Level (mASD): 7.26

Hole Diameter (mm): 200

Scale
1:65

Client:
ASDA Stores Ltd

Easting: 508688

Well Diameter (mm): 50

Logged by:
C.Ellison

Northing: 103325

Filter Material: Gravel

Project: 80012.01

Date: 10/02/2011

Method: Cable percussion

Checked by:

STRATA RECORD

IN SITU TESTS / SAMPLES

Sheet 1 of 1

Description	Legend	Depth (m)	Level (mASD)	Sample Type	Sample Depth (m)	PID (ppm)	PPT (kPa)	SPT N Value	Well Details	Water Level
MADE GROUND: CONCRETE		0.12	7.14	J	0.20-0.25					
MADE GROUND: Flint GRAVEL (sub-base material).		0.20	7.06	B	0.20-0.50					
				U	0.50-0.95					
Soft becoming firm dark brown/cream gravelly CLAY. Gravel is fine to coarse subangular to subrounded flint and chalk fragments.				PPT	1.00-1.05		67			1
				D	1.00-1.10					
				J	1.90-2.00					2
				SPT	2.00-2.45			N=6 (1,1/1,1,2 ,2)		
				SPT	3.00-3.45			N=10 (2,2/2,2,2 ,4)		3
Flint GRAVEL		3.10	4.16							
Recovered as cream/white cobbles of moderately strong matrix dominated CHALK (Grade Dm).		3.40	3.86							
				SPT	4.00-4.45			N=60 (6,10/14,1 4,15,17)		4
				SPT	5.00-5.45			N=47 (6,7/7,10, 12,18)		5
				SPT	6.00-6.45			N=52 (7,10/11,1 2,14,15)		6
End of Borehole at 6.45 m		6.45	0.81							7
										8
										9
										10
										11
										12

Key:

D	Disturbed Sample	PPT	Pocket Penetrometer Test
B	Bulk Sample	PID	Photoionisation Detector
U	Undisturbed Sample	SPT	Standard Penetration Test (Uncorrected)
J	Jar Sample		
	Water Strike		
	Standing Water Level		

Remarks: Groundwater strike encountered at 3.00m bgl during drilling on 10/02/2011.

ENCLOSURE B

**Extract from August 2011 Arcadis Ground Investigation Report
(5 pages)**



Infrastructure Water Environment Heritage

2 Craven Court, Newmarket, Suffolk CB8 7FA

Trial Pit
Number
TP101

Site: ASDA Worthing	Location: Littlehampton Road, Ferring, West Sussex BN12 6PB	Ground Level (mASD):	Trial pit width (m): - Trial pit length (m):- Support Method: Pit Stability:	Scale 1:25
Client: ASDA Stores Ltd.		Easting: Northing:		Logged By: Mark Wilson
Project No: 80012/02	Date: 19/07/2011	Excavation Method: Wheeled mechanical excavator		Checked By:

STRATA RECORD

IN SITU TESTS / SAMPLES

Sheet 1 of 1

Description	Legend	Depth (m bgl)	Level (mASD)	Sample Type	Sample Depth (m)	PID (ppm)	PPT (kPa)	Water Level
MADE GROUND: Concrete		0.18		J	0.20-0.30			
MADE GROUND: Brown to orange soft clayey, fine to coarse grained sandy GRAVEL. Gravel is fine to coarse, sub-angular to sub-rounded of flint, concrete, red brick and porcelain.		0.34		J	0.30-0.45			
MADE GROUND: Dark brown to grey firm to coarse grained sandy gravelly soft to firm CLAY. Gravel is firm to coarse, sub-angular to sub-rounded fragments of concrete, brick, chalk flint and metal nails.		0.49						
Soft brown slightly sandy CLAY. Sand is fine grained.								1
Soft grey to cream sandy gravelly CLAY. Sand is fine to medium grained. Gravel is fine to medium, sub-angular to sub-rounded fragments of chalk and flint. Traces of brown rootlets.		1.50						2
Black to grey soft gravelly CLAY. Gravel is fine to coarse grained, sub-angular to sub-rounded fragments of chalk and flint. Black substance has a strong odour.		2.30		J	2.30-2.40			
Grey soft gravelly CLAY. Gravel is fine to coarse grained, sub-angular to sub-rounded fragments of chalk and flint.		2.50		J	2.60-2.80			
End of Trial Pit at 3.00 m		3.00						3
								4

Key:

D	Disturbed Sample	PPT	Pocket Penetrometer Test
B	Bulk Sample	PID	Photoionisation Detector
J	Jar Sample		
	Water Strike		
	Standing Water Level		

Groundwater: No groundwater encountered.

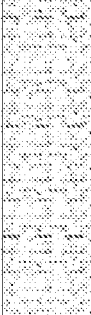
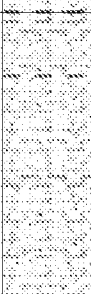
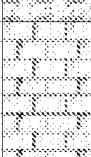
Remarks:

Site: ASDA Worthing	Location: Littlehampton Road, Ferring, West Sussex BN12 6PB	Ground Level (mASD):	Trial pit width (m): - Trial pit length (m):- Support Method: Pit Stability:	Scale 1:25
Client: ASDA Stores Ltd.		Easting: Northing:		Logged By: Mark Wilson
Project No: 80012/02	Date: 21/07/2011	Excavation Method: Wheeled mechanical excavator		Checked By:

STRATA RECORD

IN SITU TESTS / SAMPLES

Sheet 1 of 1

Description	Legend	Depth (m bgl)	Level (mASD)	Sample Type	Sample Depth (m)	PID (ppm)	PPT (kPa)	Water Level
MADE GROUND: Concrete		0.05		J	0.05-0.15			
MADE GROUND: Yellow to brown loose gravelly SAND. Sand is coarse grained. Gravel is fine to coarse grained, sub-angular to sub-rounded fragments of brick, concrete, metal rebar and occasional glass.		0.15		D	0.20-0.40			
Brown, soft to firm, very slightly gravelly CLAY. Gravel is fine to coarse, sub-angular to sub-rounded fragments of chalk and flint.								1
Brown to creamy white soft very gravelly CLAY. Gravel is medium to coarse grained, sub-angular to sub-rounded fragments and cobbles of chalk and flint.		1.50		J	1.60-1.80			2
Structureless CHALK. Recovered as cream to white clayey CHALK gravels. Gravels are fine to coarse grained, sub-rounded to sub-angular clasts of moderate strength, medium density chalk and flint fragments and cobbles in a firm to stiff clayey matrix. (Clasts 30%, matrix 70%. Grade Dm.)		2.50		D	2.70-2.90			
End of Trial Pit at 3.00 m		3.00						 3
								4

Key:

D	Disturbed Sample	PPT	Pocket Penetrometer Test
B	Bulk Sample	PID	Photoionisation Detector
J	Jar Sample		
	Water Strike		
	Standing Water Level		

Groundwater: Groundwater encountered at 3.0m bgl.

Remarks:



Infrastructure Water Environment Heritage

2 Craven Court, Newmarket, Suffolk CB8 7FA

Trial Pit
Number
TP106

Site: ASDA Worthing

Location:

Littlehampton Road, Ferring,
West Sussex BN12 6PB

Ground Level (mASD): Trial pit width (m): -

Trial pit length (m):-

Support Method:

Pit Stability:

Scale
1:25

Client:
ASDA Stores Ltd.

Easting:

Northing:

Logged By:

Mark Wilson

Project No: 80012/02

Date: 21/07/2011

Excavation Method: Wheeled mechanical excavator

Checked By:

STRATA RECORD

IN SITU TESTS / SAMPLES

Sheet 1 of 1

Description	Legend	Depth (m bgl)	Level (mASD)	Sample Type	Sample Depth (m)	PID (ppm)	PPT (kPa)	Water Level
MADE GROUND: Concrete								
Dark brown, firm to stiff slightly gravelly CLAY. Gravel is medium to coarse grained, angular to sub-angular fragments of flint and occasional chalk.		0.25		J	0.30-0.50			
Brown soft CLAY with very occasional fragments of fine to coarse grained, sub-angular to angular flint and chalk.		0.85		D	0.80-1.00			1
Mottled grey to brown, soft to firm gravelly CLAY. Gravel is fine to coarse grained, sub-angular to sub-rounded fragments and cobbles of chalk and flint. Becomes very gravelly with depth.		1.95		J	2.10-2.30			2
End of Trial Pit at 3.00 m		3.00						3
								4

Key:

D Disturbed Sample PPT Pocket Penetrometer Test
B Bulk Sample PID Photoionisation Detector
J Jar Sample
 Water Strike
 Standing Water Level

Groundwater: Groundwater encountered at 3.0m bgl.

Remarks:

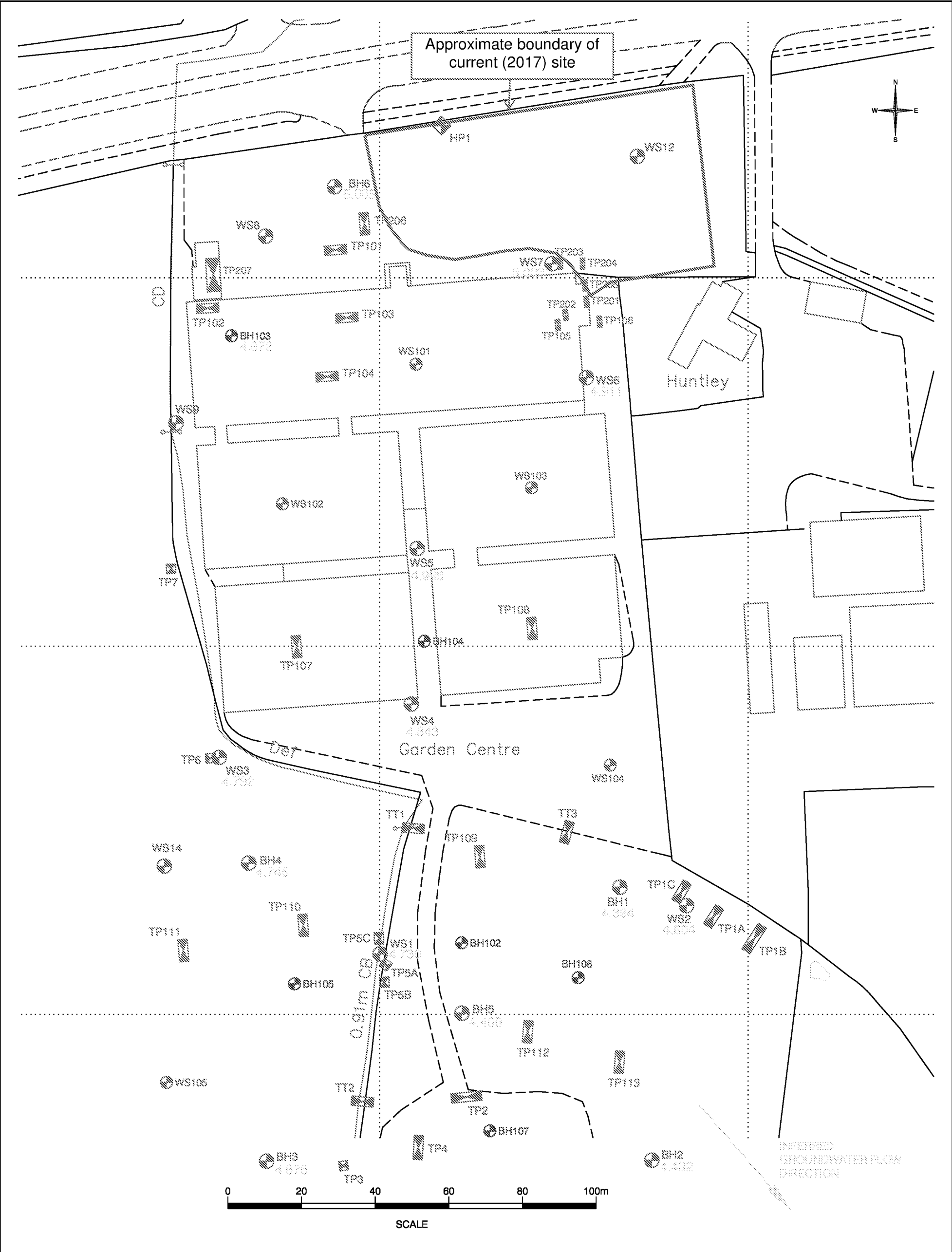
Table 1
Results of Ground Gas Monitoring

80012020_01 / August 2011

Borehole	Date	Depth to Water (m bgl)	Atmos. Pressure (mb)	Methane		Carbon Dioxide		Oxygen		Flow Rate (l/hr)	Gas Screening Values* (l/hr)		Remarks	
				Peak (%v/v)	Steady (%v/v)	Peak (%v/v)	Steady (%v/v)	Minimum (%v/v)	Steady (%v/v)		Methane	Carbon Dioxide		
WS1	16th-18th February 2011	0.9	1009	<0.1	<0.1	0.1	0.0	20.5	20.6	0.0	<0.01	<0.01		
WS2		0.82	1008	<0.1	<0.1	0.6	0.2	18.1	20.6	-0.01	<0.01	<0.01		
WS3		0.5	1009	0.5	0.1	0.8	0.2	19.1	20.2	-0.2	<0.01	<0.01	Carbon Monoxide detected (max 6ppm)	
WS4		0.63	1009	0.2	0.2	0.2	0.2	19.3	20.1	0.00	<0.01	<0.01	Carbon Monoxide detected (max 13ppm)	
WS5		0.47	1018	0.0	0.0	0.1	0.0	20.8	20.8	0.0	<0.01	<0.01		
WS6		1.5	1017	0.0	0.0	0.0	0.0	20.9	20.9	0.0	<0.01	<0.01		
WS7		2.19	1018	0.5	0.5	1.1	0.4	18.1	19.2	-0.1	<0.01	<0.01	Carbon Monoxide detected (max 19ppm)	
WS8		2	1017	0.0	0.0	1.3	0.4	19.2	20.3	-0.8	<0.01	<0.01		
BH1		0.920	Not recorded - Groundwater Sampling											
BH2		0.750												
BH3		1.070												
BH4		0.480												
BH5	nr													
BH6	nr													
Borehole	Date	Depth to Water (m bgl)	Atmos. Pressure (mb)	Methane		Carbon Dioxide		Oxygen		Flow Rate (l/hr)	Gas Screening Values* (l/hr)		Remarks	
				Peak (%v/v)	Steady (%v/v)	Peak (%v/v)	Steady (%v/v)	Minimum (%v/v)	Steady (%v/v)		Methane	Carbon Dioxide		
WS1	2nd March 2011	0.962	1037	<0.1	<0.1	0.9	0.1	19.8	20.6	<0.1	<0.01	<0.01	Carbon Monoxide detected (max 2ppm)	
WS2		0.992	1037	0.2	0.2	0.1	0.0	20.7	20.8	<0.1	<0.01	<0.01	Carbon Monoxide detected (max 1ppm)	
WS3		0.534	1037	10.6	1.4	3.2	0.4	18.3	20.5	<0.1	<0.01	<0.01		
WS4		0.722	1036	0.1	0.1	0.4	0.1	20.1	20.8	0.1	<0.01	<0.01	Carbon Monoxide detected (max 3ppm)	
WS5		0.773	1037	<0.1	<0.1	0.2	0.1	19.5	20.6	<0.1	<0.01	<0.01	Carbon Monoxide detected (max 1ppm)	
WS6		1.589	1037	0.1	<0.1	6.2	4.7	14.0	15.0	0.1	<0.01	<0.01	Carbon Monoxide detected (max 4ppm)	
WS7		1.92	1036	<0.1	<0.1	0.5	0.1	20.7	21.2	<0.1	<0.01	<0.01		
WS8		2.39	1037	<0.1	<0.1	2.0	0.3	19.0	21.3	<0.1	<0.01	<0.01	Carbon Monoxide detected (max 1ppm)	
BH1		1.185	Not recorded.											
BH2		0.769												
BH3		1.186												
BH4		0.328												
BH5	1.183													
BH6	1.915													
Borehole	Date	Depth to Water (m bgl)	Atmos. Pressure (mb)	Methane		Carbon Dioxide		Oxygen		Flow Rate (l/hr)	Gas Screening Values* (l/hr)		Remarks	
				Peak (%v/v)	Steady (%v/v)	Peak (%v/v)	Steady (%v/v)	Minimum (%v/v)	Steady (%v/v)		Methane	Carbon Dioxide		
WS1	9th March 2011	1.113	1020	0.2	0.2	1.9	1.6	20.0	19.6	0.1	<0.01	<0.01		
WS2		1.116	1019	0.1	0.1	0.5	0.1	20.8	20.8	0.1	<0.01	<0.01		
WS3		0.627	1020	26.4	4.0	5.3	1.0	16.0	19.5	0.1	<0.01	<0.01		
WS4		0.849	1020	0.2	0.2	1.0	1.0	20.5	20.4	<0.1	<0.01	<0.01		
WS5		0.912	1020	0.3	0.3	0.3	0.1	20.6	20.6	0.1	<0.01	<0.01		
WS6		1.77	1020	0.3	0.3	6.0	1.6	18.1	18.1	<0.1	<0.01	<0.01		
WS7		2.109	1019	0.1	0.1	0.8	0.1	21.0	21.0	<0.1	<0.01	<0.01		
WS8		2.2	1019	0.2	0.2	1.9	0.3	19.6	20.3	0.1	<0.01	<0.01		
BH1		1.313	1019	0.1	0.1	0.0	0.0	20.8	20.8	0.1	<0.01	<0.01		
BH2		1.018	1019	0.1	0.1	0.0	0.0	18.7	21.0	0.1	<0.01	<0.01		
BH3		1.329	1020	0.1	0.1	0.1	0.1	20.4	20.4	0.1	<0.01	<0.01		
BH4		0.428	1020	2.9	0.2	1.1	1.1	16.9	16.9	<0.1	<0.01	<0.01		
BH5		1.292	1020	0.2	0.2	0.5	0.4	20.7	20.8	0.3	<0.01	<0.01		
BH6		2.102	1019	0.2	0.2	0.3	0.2	20.8	20.7	<0.1	<0.01	<0.01		
Borehole	Date	Depth to Water (m bgl)	Atmos. Pressure (mb)	Methane		Carbon Dioxide		Oxygen		Flow Rate (l/hr)	Gas Screening Values* (l/hr)		Remarks	
				Peak (%v/v)	Steady (%v/v)	Peak (%v/v)	Steady (%v/v)	Minimum (%v/v)	Steady (%v/v)		Methane	Carbon Dioxide		
WS1	17th March 2011	1.249	nr	<0.1	-	4.3	-	17.5	-	<0.1	<0.01	<0.01		
WS2		1.244	nr	<0.1	-	1.7	-	19.7	-	<0.1	<0.01	<0.01		
WS3		0.736	1018	12.7	-	4.0	-	18.3	-	<0.1	<0.01	<0.01		
WS4		0.968	1018	<0.1	-	1.0	-	20.2	-	<0.1	<0.01	<0.01	Carbon Monoxide detected (max 3ppm)	
WS5		1.054	1018	<0.1	-	0.4	-	20.5	-	<0.1	<0.01	<0.01	Carbon Monoxide detected (max 1ppm)	
WS6		1.941	nr	nr	-	nr	-	nr	-	nr	-	-		
WS7		2.270	1018	0.1	-	1.3	-	20.3	-	<0.1	<0.01	<0.01		
WS8		2.378	1018	<0.1	-	2.1	-	20.0	-	<0.1	<0.01	<0.01	Carbon Monoxide detected (max 1ppm)	
BH1		1.450	nr	nr	-	nr	-	nr	-	nr	-	-		
BH2		1.172	nr	nr	-	nr	-	nr	-	nr	-	-		
BH3		1.478	nr	nr	-	nr	-	nr	-	nr	-	-		
BH4		0.568	1018	0.1	-	1.2	-	18.7	-	-7.4	<0.01	<0.01	Carbon Monoxide detected (max 9ppm)	
BH5		1.486	nr	<0.1	-	3.1	-	18.4	-	<0.1	<0.01	<0.01		
BH6		2.255	1018	0.1	-	1.1	-	16.6	-	<0.1	<0.01	<0.01	Carbon Monoxide detected (max 11ppm)	
Borehole	Date	Depth to Water (m bgl)	Atmos. Pressure (mb)	Methane		Carbon Dioxide		Oxygen		Flow Rate (l/hr)	Gas Screening Values* (l/hr)		Remarks	
				Peak (%v/v)	Steady (%v/v)	Peak (%v/v)	Steady (%v/v)	Minimum (%v/v)	Steady (%v/v)		Methane	Carbon Dioxide		
WS1	8th April 2011	1.546	1026	<0.1	<0.1	0.1	<0.1	20.8	20.8	<0.1	<0.01	<0.01		
WS2		1.447	1027	<0.1	<0.1	2.7	2.7	17.3	17.3	<0.1	<0.01	<0.01		
WS3		0.92	1028	30.1	0.5	13.3	7.1	0.2	12.5	-0.3	<0.01	<0.01		
WS4		1.209	1029	<0.1	<0.1	1.8	1.8	18.8	18.8	-0.1	<0.01	<0.01		
WS5		1.254	1029	<0.1	<0.1	1.3	1.3	16.9	16.9	-4.5	<0.01	<0.01		
WS6		2.157	1029	<0.1	<0.1	9.3	9.3	9.5	9.5	<0.1	<0.01	<0.01		
WS7		2.489	1029	<0.1	<0.1	2.1	0.4	18.1	20.0	-0.1	<0.01	<0.01		
WS8		2.596	1032	0.2	<0.1	6.8	6.4	14.3	20.0	<0.1	<0.01	<0.01		
BH1		1.525	1027	<0.1	<0.1	<0.1	<0.1	20.8	20.8	-0.1	<0.01	<0.01		
BH2		1.294	1027	0.1	0.1	1.8	1.3	14.1	14.2	-1.4	<0.01	<0.01		
BH3		1.451	1027	<0.1	<0.1	<0.1	<0.1	19.9	19.9	-12.0	<0.01	<0.01		
BH4		0.770	1026	<0.1	<0.1	0.6	0.5	19.1	19.4	-0.2	<0.01	<0.01		
BH5		1.381	1026	0.1	<0.1	4.3	3.8	11.1	12.0	<0.1	<0.01	<0.01		
BH6		2.519	1030	<0.1	<0.1	1.3	1.0	17.4	18.2	-0.2	<0.01	<0.01		
Borehole	Date	Depth to Water (m bgl)	Atmos. Pressure (mb)	Methane		Carbon Dioxide		Oxygen		Flow Rate (l/hr)	Gas Screening Values* (l/hr)		Remarks	
				Peak (%v/v)	Steady (%v/v)	Peak (%v/v)	Steady (%v/v)	Minimum (%v/v)	Steady (%v/v)		Methane	Carbon Dioxide		
BH1	28th July 2011	-	1022	0.1	<1	<0.1	<0.1	19.9	20	0.3	<0.01	<0.01		
BH2		2.262	1025	2.1	1.9	4.2	2.8	14.4	16.5	0.3	<0.01	<0.01		
WS4		2.1	1022	0.1	0.1	1.2	0.6	19.3	19.9	0.3	<0.01	<0.01		
WS5		2.088	1023	0	0	3	3	11.9	11.9	0.3	<0.01	<0.01		
WS6		Dry	1023	0.2	0.1	0.1	0.1	19.6	19.6	0.3	<0.01	<0.01		
WS7		2.503	1023	<0.1	<0.1	0.5	0.3	18.6	19.1	0.3	<0.01	<0.01		
WS8		Dry	1025	0.1	0.2	13.8	13.8	0.3	0.3	0.3	<0.01	<0.01		
WS101		2.664	1029	0.2	0.2	0.2	<0.1	19.8	19.8	0.3	<0.01	<0.01		
WS102		1.838	1023	0	0	0.4	0.3	19.8	19.9	0.3	<0.01	<0.01		
WS103		2.855	1023	0.1	0	0.5	0.3	19.5	19.7	0.3	<0.01	<0.01		
WS104		2.06	1023	3.6	3	0.3	0.2	12.5	13.7	0.3	<0.01	<0.01		
WS105		2.706	1026	0.3	0.2	<0.1	16.6	5.8	5.8	0.3	<0.01	<0.01		
WS106		2.439	1025	0.2	0.2	1.1	0.3	16.4	19.9	0.3	<0.01	<0.01		
Site Staff			Instrument				Notes							
Chris Ellison, Mike Ferguson, Anna Szpak			GA2000				* Gas Screening Values are calculated by multiplying the maximum borehole flow rate (l/hr) by the gas concentration (%) (CIRIA C665).							

ENCLOSURE C

**Extract from 2012 Arcadis Ground Investigation Report
(7 pages)**



DISCLAIMER		NOTES		KEY		TITLE: SITE LAYOUT AND TRIAL PIT LOCATION PLAN		SITE: WORTHING	
NOTE: ALL ENTITIES SHOWN ON THIS DRAWING ARE TO BE REGARDED AS APPROXIMATE AND ARE INDICATIVE ONLY. NO MEASUREMENTS TAKEN FROM THIS DRAWING SHOULD BE USED FOR THE LOCATION OF INTRUSIVE INVESTIGATION WORKS ON SITE. SYMBOLS FOR BOREHOLES, TRIAL PITS AND OTHER SPECIFIC FEATURES ARE REPRESENTATIONS OF LOCATION ONLY AND UNLESS OTHERWISE SPECIFIED, DO NOT REPRESENT THE TRUE SIZE OF THE FEATURE. - CONTACT ARCADIS UK IN CASE OF ANY QUERY		Reproduced from the OS MasterMap by permission of Ordnance Survey® on behalf of The Controller of Her Majesty's Stationery Office. © Crown Copyright. All rights reserved. Licence Number 100021489.			BOREHOLE LOCATION	PROJECT: 80012.03		CLIENT: ASDA STORES LTD	FIGURE 2
					WINDOW SAMPLE LOCATION	DATE: 05/01/12		PRINT: A3	 ARCADIS Infrastructure · Water · Environment · Buildings Tel +44 (0) 1638 674767 www.arcadis-uk.com
					TRIAL PIT LOCATION	DRAWN BY: BNB		REV: -	
					TRIAL TRENCH LOCATION	DRG.No.: 800120304-CAD			
					GROUNDWATER ELEVATION				
		REV	DATE	COMMENT	CAD				



1000

Site: Asda Worthing	Location: Worthing	Ground Level (mASD):	Trial pit width (m): - Trial pit length (m):- Support Method: Pit Stability: Stable	Scale 1:25
Client: Asda		Easting: Northing:		Logged By: EJ
Project No: 80012/03		Date: 15/12/2011		Excavation Method: JCB 3CX

IN SITU TESTS / SAMPLES

[illegible]

Groundwater: Dry
Remarks: Dry



Trial pit width (m): -
Trial pit length (m):-
Support Method:
Pit Stability: Stable

Easting:

Northing:

Excavation Method: JCB 3CX

Checked By:
DC

IN SITU TESTS / SAMPLES

Sheet 1 of 1

Key:

D	Disturbed Sample	PPT	Pocket Penetrometer Test
B	Bulk Sample	PID	Photoionisation Detector
J	Jar Sample		
	Water Strike		
	Standing Water Level		

Remarks: Dry



Downloaded from <http://ajphaphysiol.physiology.org/> at University of California, San Diego on June 11, 2015

Checked By:
DC

Excavation Method: JCB 3CX

Sheet 1 of 1

4

Remarks: Dry



ARUN DISTRICT COUNCIL FG/149/18/DOC



Infrastructure Water Environment Air Quality

8.2 Green Court, Newmarket, Suffolk CB8 7FA

Trial Pit
Number
TP 206

Site: Asda Worthing

Location:
Worthing

Ground Level (mASD):

Trial pit width (m): -

Trial pit length (m):-

Support Method:

Pit Stability: Stable

Scale
1:25Client:
Asda

Easting:

Northing:

Logged By:
EJ

Project No: 80012/03

Date: 15/12/2011

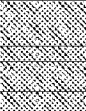
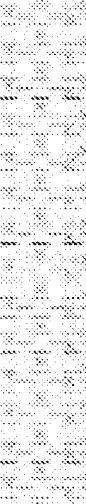
Excavation Method: JCB 3CX

Checked By:
DC

STRATA RECORD

IN SITU TESTS / SAMPLES

Sheet 1 of 1

Description		Legend	Depth (m bgl)	Level (mASD)	Sample Type	Sample Depth (m)	PID (ppm)	PPT (kPa)	Water Level	
MADE GROUND: Concrete			0.15							
MADE GROUND: Hardcore			0.20							
MADE GROUND: Concrete			0.30							
MADE GROUND: Brown slightly clayey GRAVEL. Gravel fine to coarse sub angular to sub rounded fragments of red brick, concrete and mixed lithologies			0.50	D		0.50	1.5			
Soft to firm brown mottled black silty CLAY			0.60							
Soft very silty orange brown CLAY. Becoming mottled off white/brown and slightly gravelly (sub angular to sub rounded chalk clasts increasing with depth)				D		1.00	1.4		1	
					D		1.50	1.6		
					D		2.00	1.5		2
				2.40	D		2.50	5.8		
Firm grey CLAY. Slightly gravelly fine sub angular to sub rounded flint and chalk.Slight hydrocarbon odour				D		3.00	46.5		3	
				D		3.50	41.4			
				3.70	D		3.70	8.5		
End of Trial Pit at 3.70 m									4	

Key:

D Disturbed Sample PPT Pocket Penetrometer Test
 B Bulk Sample PID Photoionisation Detector
 J Jar Sample
 Water Strike
 Standing Water Level

Groundwater: Dry

Remarks: Dry

ENCLOSURE D

**Extract from 2012 RSK Report
(3 pages)**



Approximate boundary of
current (2017) site

A259

TP1



TP2



TP3



TP4



TP6



TP5



LEGEND

TP Trial Pit Location



The Old School,
Stithouse Lane,
Bedminster,
Bristol.
BS3 4EJH

Tel: +44 (0)117 9471000
Fax: +44 (0)117 9471009
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client

RSK REMEDIATION & DEVELOPMENT

Project Title

ASDA, WORTHING

Drawing Title

EXPLORATORY HOLE LOCATION PLAN

Rev	Drawn	Date	Checked	Date	Approved	Date	Project Number	Drawing File	Drawing Number
00	JH	04.01.12	WA	04.01.12	AC	04.01.12	726252	726252-2-EHLP-R(00)	FIGURE 2
Dimensions			Scale			Original Size			
m			NTS			A4			



KEY TO EXPLORATORY POSITION LOGS - SUMMARY OF GRAPHIC SYMBOLS

MATERIAL GRAPHIC LEGENDS



Concrete



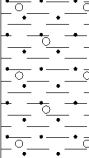
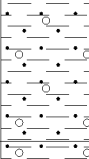
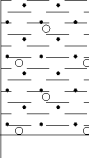
MADE
GROUND



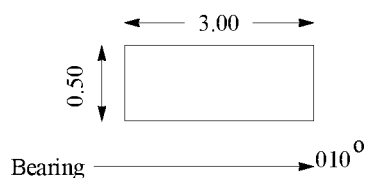
Sandy
gravelly
CLAY



Contract: Asda, Worthing		Client: RSK Remediation & Development		Trial Pit: TP2
Contract Ref: 726252	Date: 11.11.11	Ground Level (): ---	Co-ordinates: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Reinforced CONCRETE. Multiple concrete layers 100mm to 120mm thick with brown silty sandy gravel between.	(0.50)	
							0.50	
0.60	1	ES				MADE GROUND: Soft dark grey with black organic mottles slightly sandy slightly gravelly CLAY. Weak organic odour. Gravel is angular to subrounded fine to coarse brick, flint and quartz.	0.70	
0.60	2	B						
0.80	3	D				Firm friable dark grey slightly sandy slightly gravelly CLAY with occasional black organic inclusions. Organic odour. Gravel is subangular to rounded fine to coarse quartz and flint (probably alluvium).		
							(1.00)	
1.30	4	B					1.70	
1.80-2.20	5	B				Firm to stiff very closely fissured orange brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine to coarse flint. . . . 1.70m to 1.80m bgl: firm grey sandy CLAY band.	(0.50)	
2.00	6	D					2.20	
						Trial pit terminated at 2.20 metre depth.		

Plan (Not to Scale)



General Remarks

1. Sides unstable ground level to 0.20m bgl.
2. Dry.

All dimensions in metres

Scale: **1:25**

Method

Plant

Logged

Checked

Used: **Machine dug**

Used:

JCB-3CX

By:

Wallwood

By:



ENCLOSURE E

**Site Sensitivity Maps supplied by Landmark Information Group
Limited
(13 pages)**

DTS RAE BURN

DESIGNATION AND RISK ASSESSMENT

Superficial Aquifer Designation

General

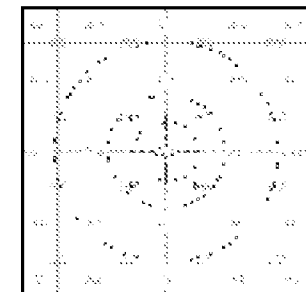
1:10,000 Scale
1:10,000 Scale

Agency and Hydrological

Protected Features

- 1. Protected Features
- 2. Protected Features
- 3. Protected Features
- 4. Protected Features
- 5. Protected Features
- 6. Protected Features
- 7. Protected Features
- 8. Protected Features
- 9. Protected Features
- 10. Protected Features

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 13661880_1_1
Customer Ref: E13043-1 ASDA Ferring
National Grid Reference: 508750, 103330
Slice: A
Site Area (Ha): 0.34
Search Buffer (m): 1000

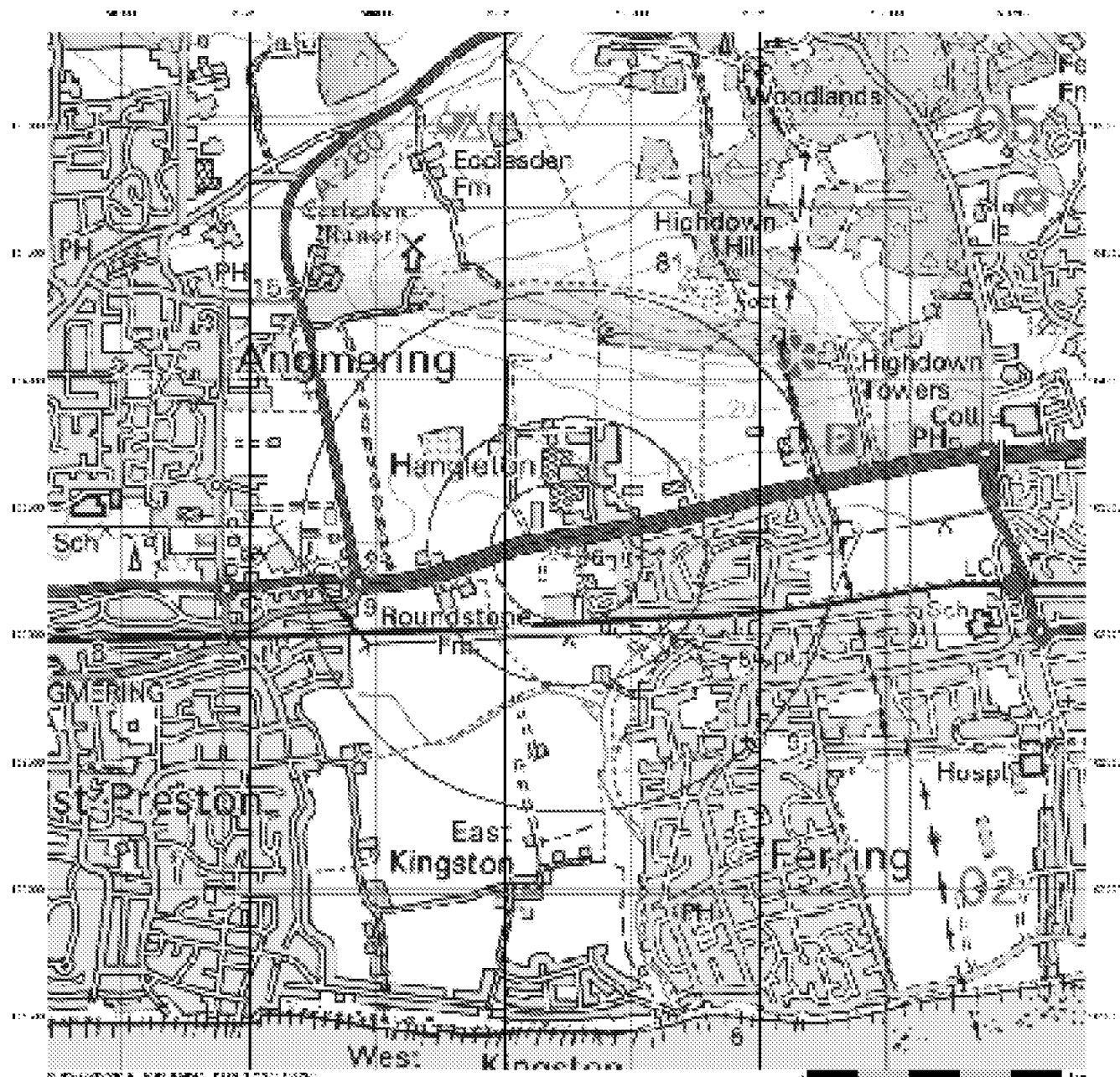
Site Details

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN

Landmark
Information Group

Tel: 01444 544 0052
Fax: 01444 544 0051
Web: www.environment.co.uk

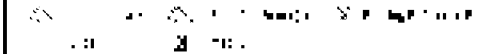




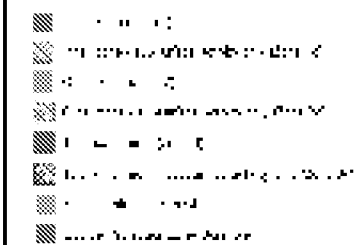
DTS RAEURN

Source Protection Zones

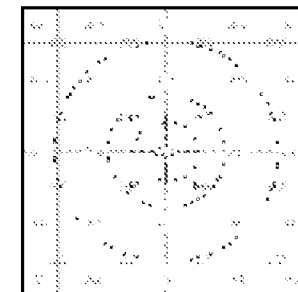
Abstract



အိမ်ထောင်ရေးနှင့် ပတ်သက်သည့် အချက်အလက်များကို အောက်ဖော်ပြပါအတိုင်း ဖော်ပြထားပါသည်။



Site Sensitivity Context Map - Slice A



Order Details

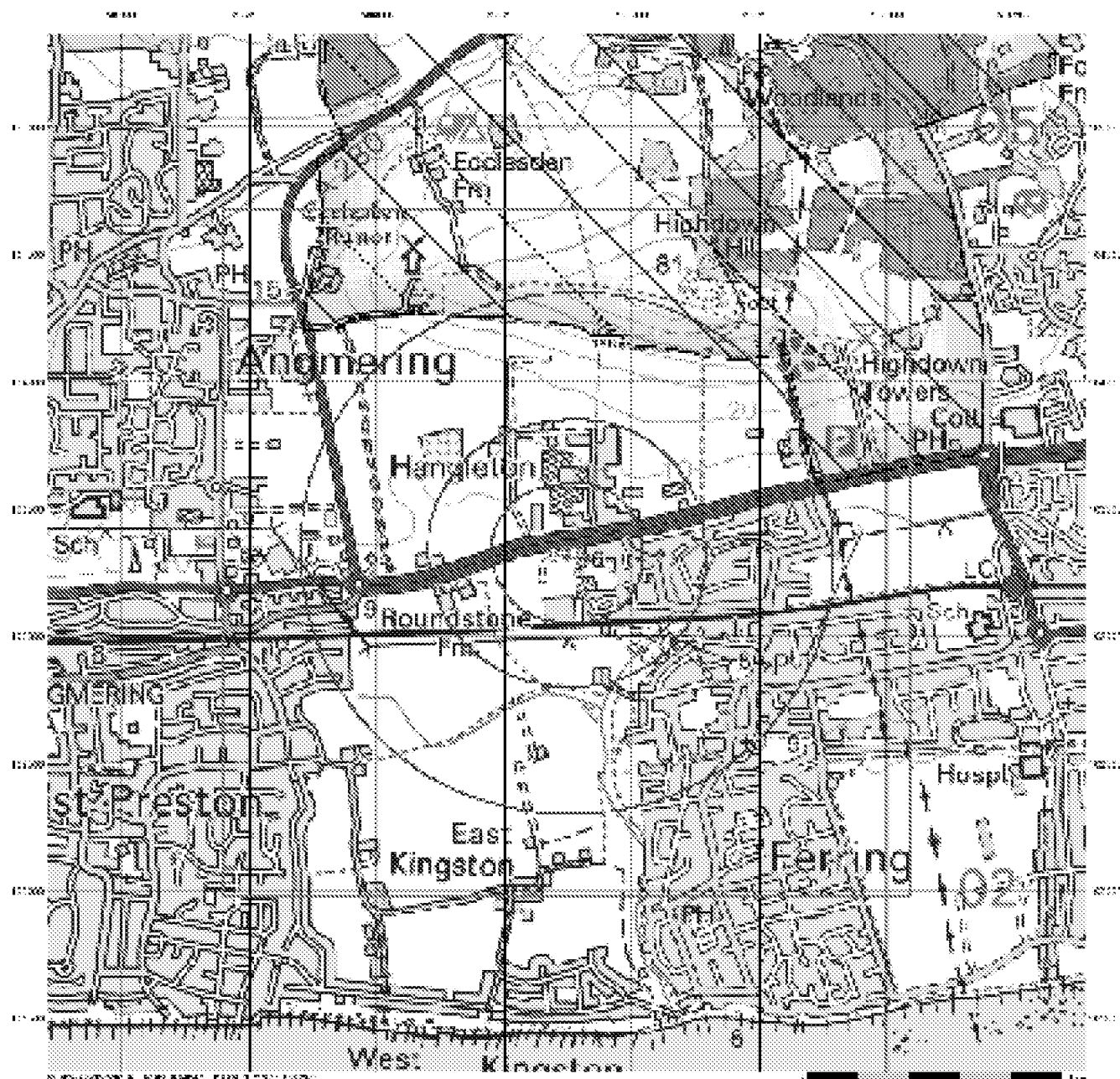
Order Number: 136611880_1_1
Customer Ref: E13043-1 ASDA Ferring
National Grid Reference: 508750, 103330
Slice: A
Site Area (Ha): 0.34
Search Buffer (m): 1000

Site Details

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN

Landmark

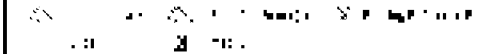
Tel: 0844 544 9952
Fax: 0844 544 9951
Web: www.environet.co.uk



DTS RAE BURN

Sensitive Land Uses

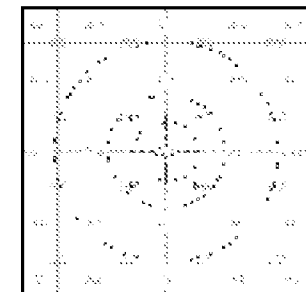
Abstract



ಪ್ರಾಚೀನವಾದ ಲೇಖನವು



Site Sensitivity Context Map - Slice A



Order Details

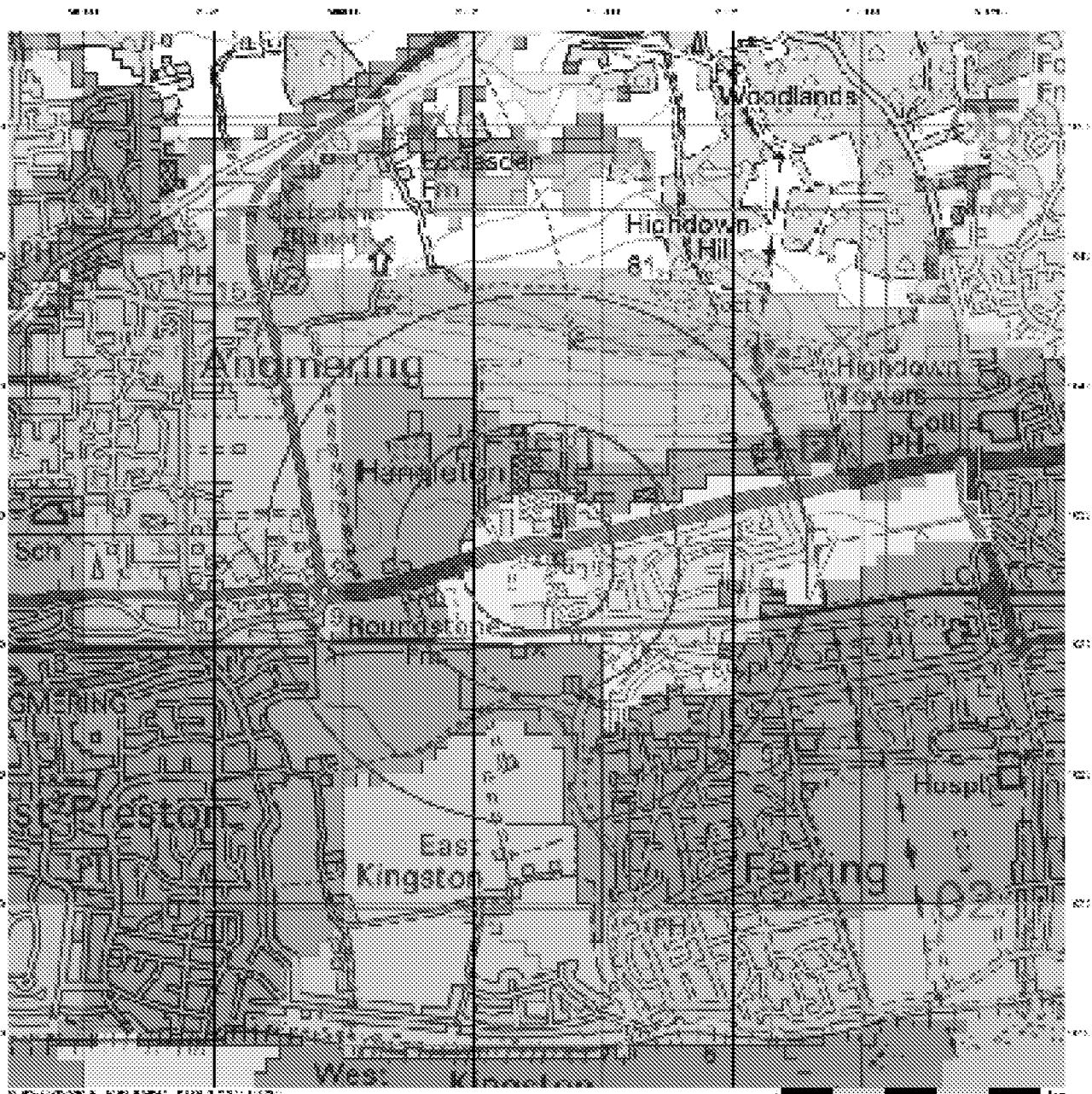
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Customer Ref: E13043-1 ASDA Ferring
National Grid Reference: 508750, 103330
Slice: A
Site Area (Ha): 0.34
Search Buffer (m): 1000

Site Details

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN

Landmark

Tel: 0844 544 9952
Fax: 0844 544 9951
Web: www.environmental.gov.uk



DTS RAEBURN

DEFENDING THE SOUTH COAST

BGS Flood GFS Data

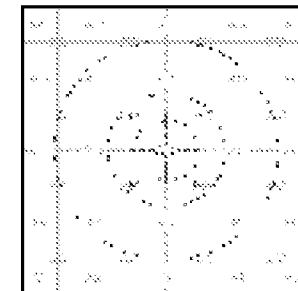
General

- 1:10,000 scale
- 1:25,000 scale
- 1:50,000 scale
- 1:100,000 scale

Agency and Hydrological (Flood)

- 1:10,000 scale
- 1:25,000 scale
- 1:50,000 scale
- 1:100,000 scale

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 13661880_1_1
 Customer Ref: E13043-1 ASDA Ferring
 National Grid Reference: 508750, 103330
 Slice: A
 Site Area (Ha): 0.34
 Search Buffer (m): 1000

Site Details

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN

Landmark
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Tel: 0844 544 0952
 Fax: 0844 544 5951
 Web: www.environment.co.uk

Industrial Land Use Map

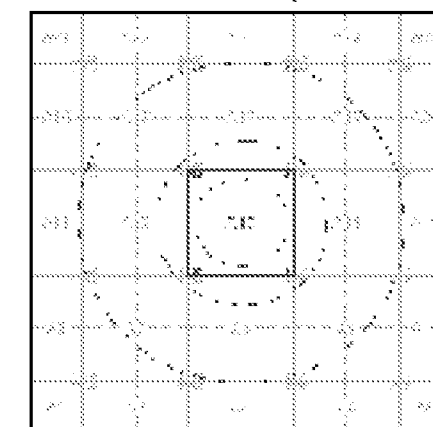
General

- Boundary
- Road
- Railway
- Water
- Field
- Woodland

Industrial Land Use

- Industrial use
- Agricultural use
- Residential use
- Commercial use
- Public use
- Other use

Industrial Land Use Map - Slice A

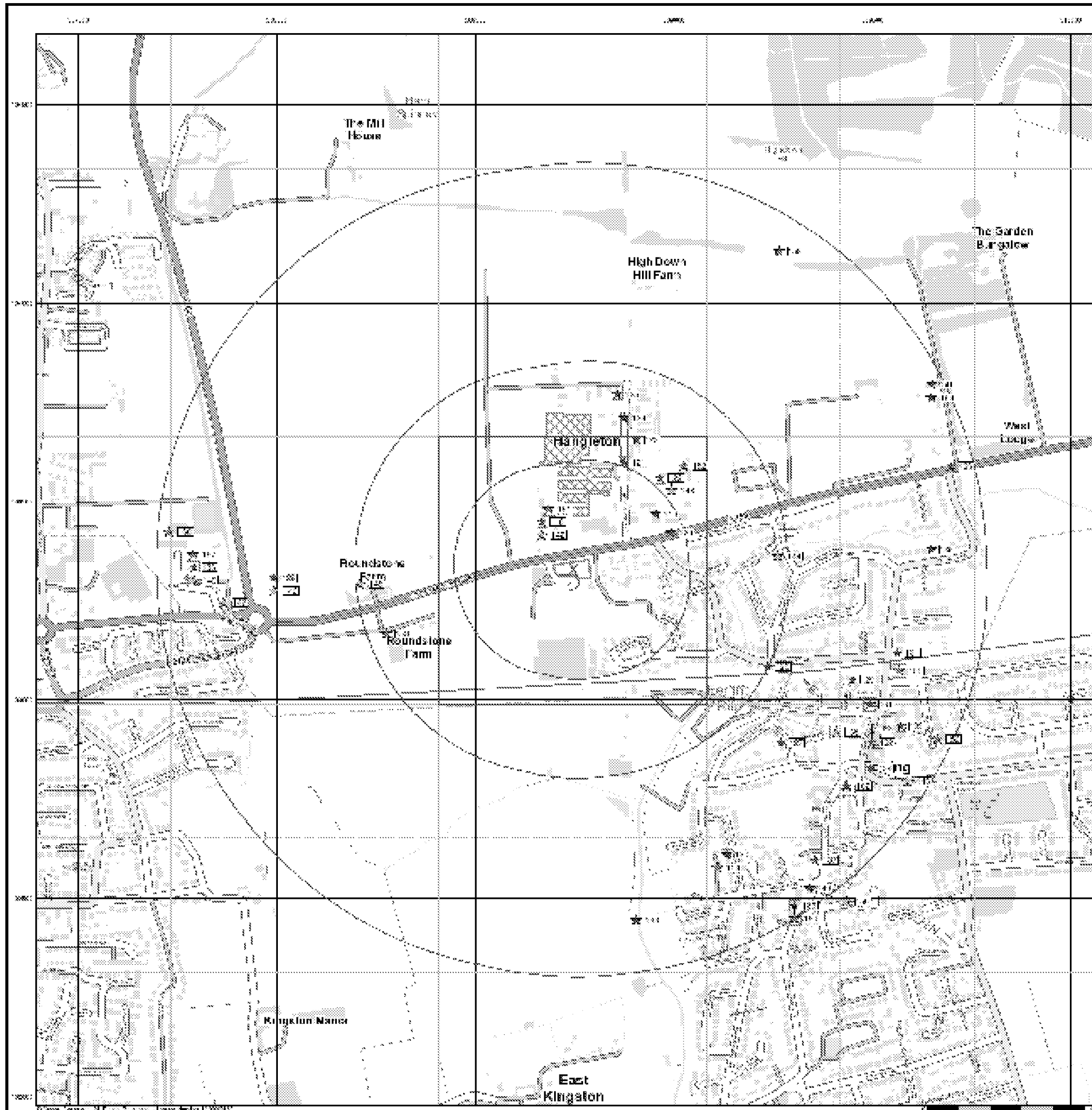


Order Details

Order Number: 136611880_1_1
 Customer Ref: E13043-1 ASDA Ferring
 National Grid Reference: 508750, 103330
 Slice: A
 Site Area (Ha): 0.34
 Search Buffer (m): 1000

Site Details

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN



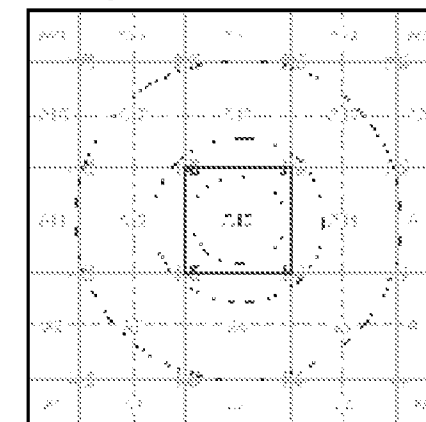
General

- Open Water
- Spoiled Drain
- A. Design Contour Line

Agency and Hydrological (Flood)

- Flood Risk from River or Sea (Actual Flood Level)
- Flood Risk from River or Sea (Design Flood)
- Flood Risk from River or Sea (Design Flood)
- Flood Risk from River or Sea (Design Flood)
- Flood Risk from River or Sea (Design Flood)

Flood Map - Slice A

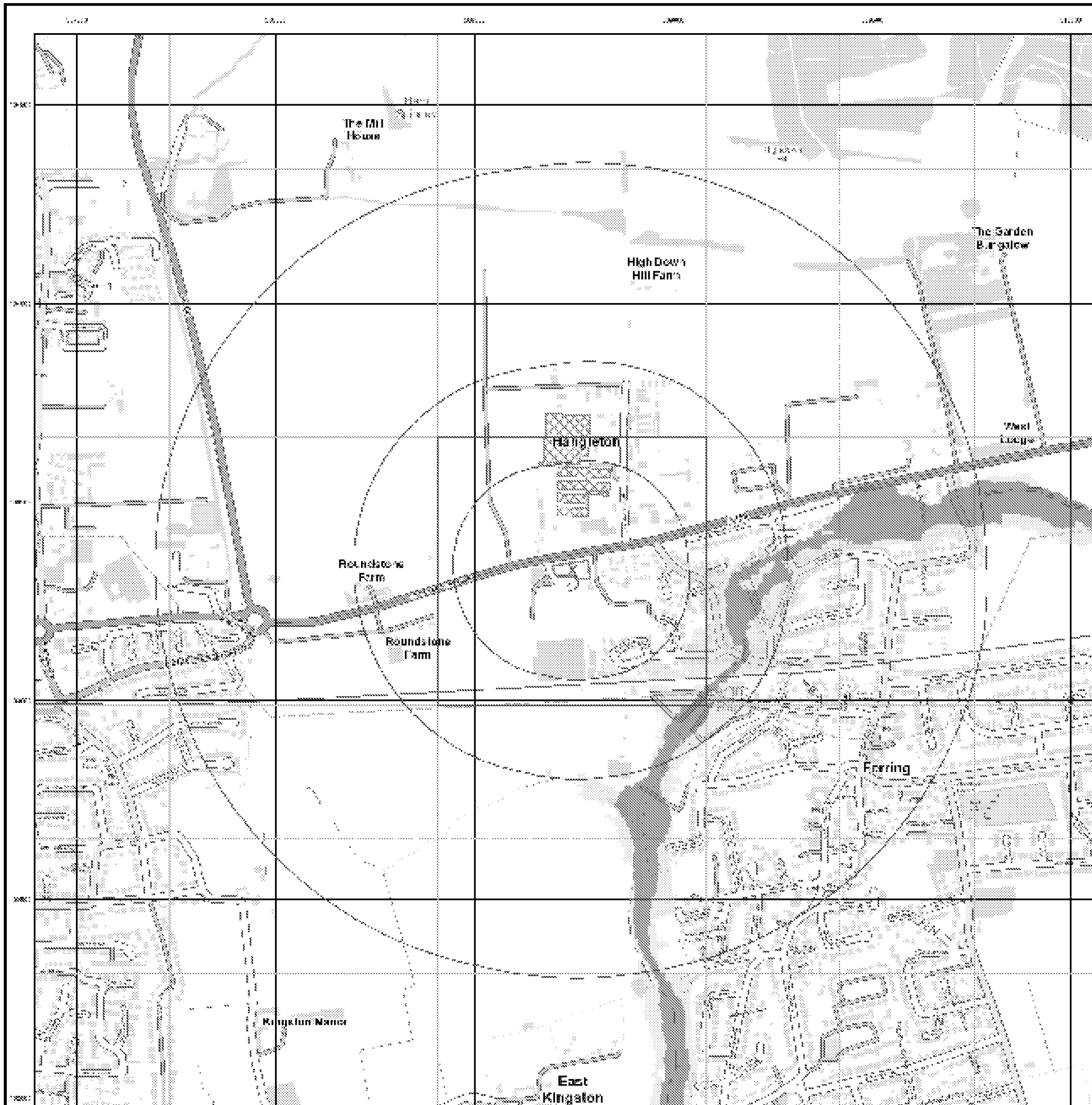


Order Details

Order Number: 136611880_1_1
 Customer Ref: E13043-1 ASDA Ferring
 National Grid Reference: 508750, 103330
 Slice: A
 Site Area (Ha): 0.34
 Search Buffer (m): 1000

Site Details

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN



General

- Open Hole
- Spoked Drilling
- X Drilling
- H - H
- Drilling

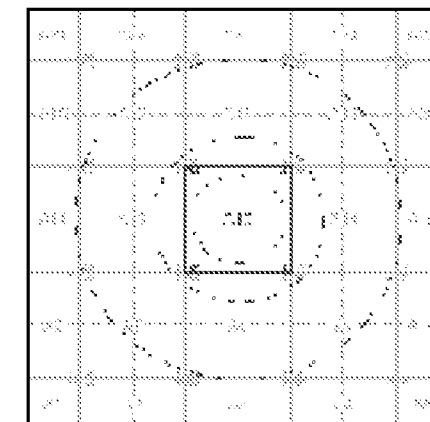
Agency and Hydrological (Boreholes)

- BGS Borehole
- BGS Borehole
- BGS Borehole
- BGS Borehole
- BGS Borehole

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

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

Borehole Map - Slice A

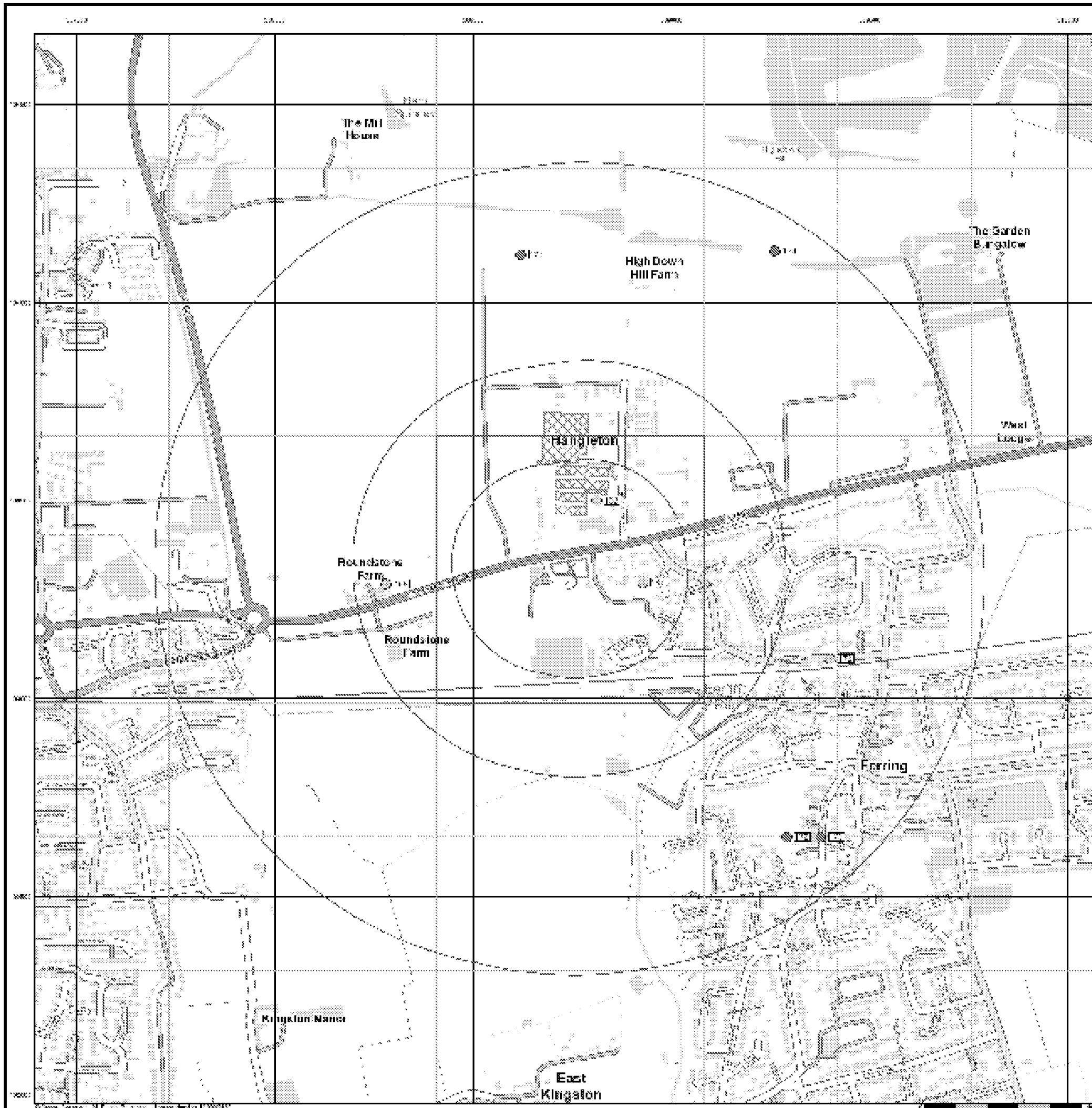


Order Details

Order Number: 136611880_1_1
 Customer Ref: E13043-1 ASDA Ferring
 National Grid Reference: 508750, 103330
 Slice: A
 Site Area (Ha): 0.34
 Search Buffer (m): 1000

Site Details

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN



General

- Proposed Site
- Proposed Boundary
- ✕ Existing Natural Water

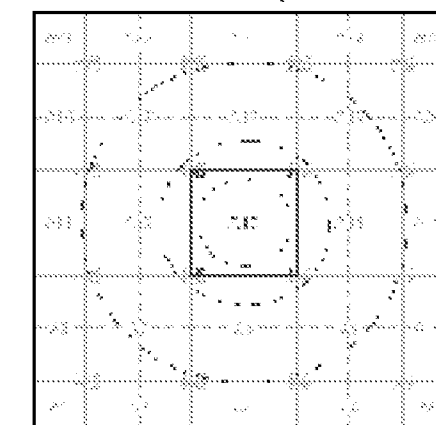
OS Water Network Data

- | | |
|---------------|------------------------|
| — Canal | — Levee |
| — Mainwater | — Other |
| — Floodplain | — Embankment |
| — Sewer | — Transfer |
| — Small Water | — Lock Or Right Of Way |
| — Storm Drain | — Ditch |

Contours (Height in meters)

- | | | | | | | | | | | | | |
|------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Standard Contour | — 10m | — 50m | — 100m | — 200m | — 300m | — 400m | — 500m | — 600m | — 700m | — 800m | — 900m | — 1000m |
| Master Contour | — 10m | — 50m | — 100m | — 200m | — 300m | — 400m | — 500m | — 600m | — 700m | — 800m | — 900m | — 1000m |
| Spot Height | — 10m | — 50m | — 100m | — 200m | — 300m | — 400m | — 500m | — 600m | — 700m | — 800m | — 900m | — 1000m |

OS Water Network Map - Slice A

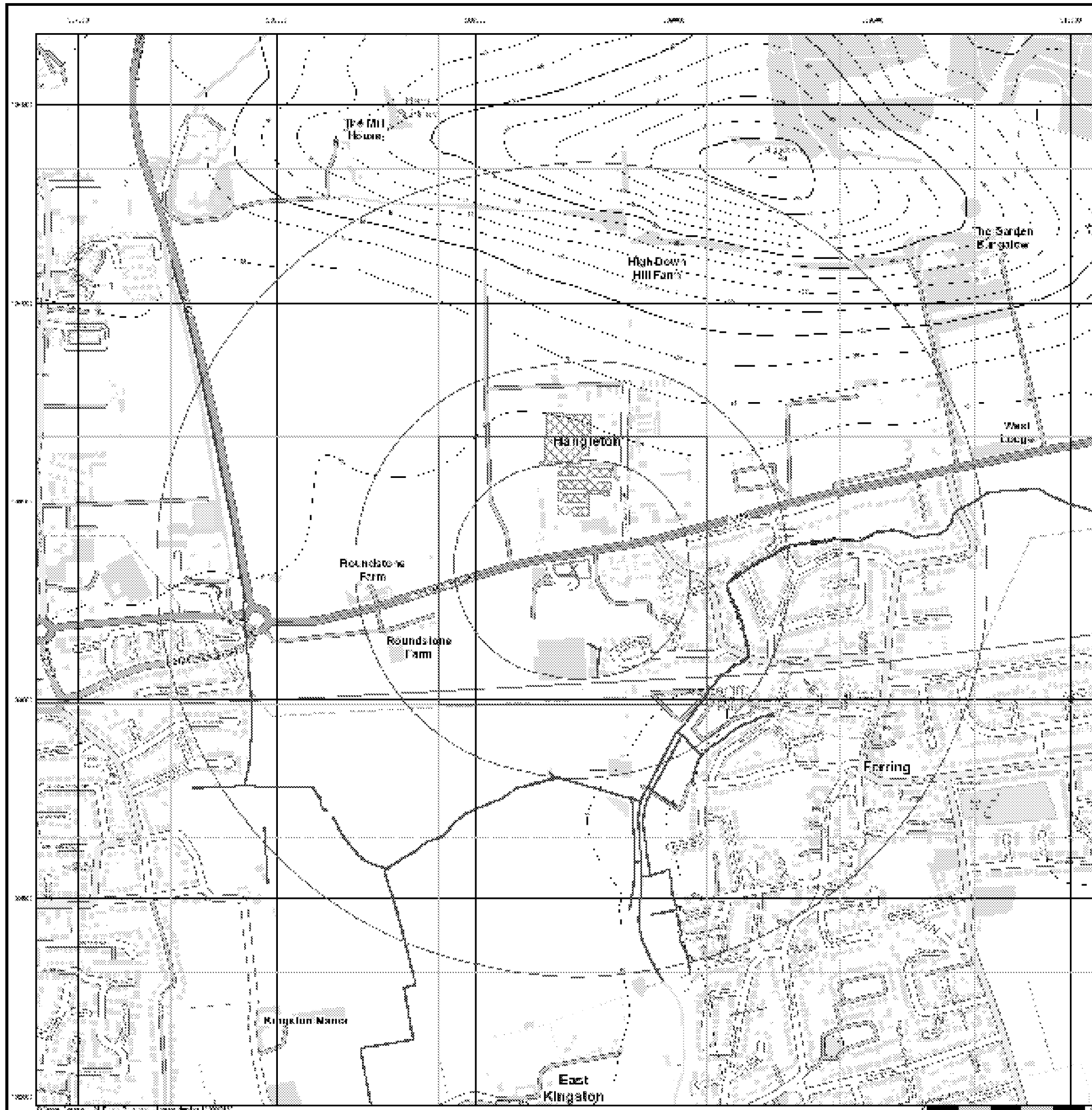


Order Details

Order Number: 136611880_1_1
 Customer Ref: E13043-1 ASDA Ferring
 National Grid Reference: 508750, 103330
 Slice: A
 Site Area (Ha): 0.34
 Search Buffer (m): 1000

Site Details

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN



General

- Open Area
- Spotted Demand
- X Spotted Demand

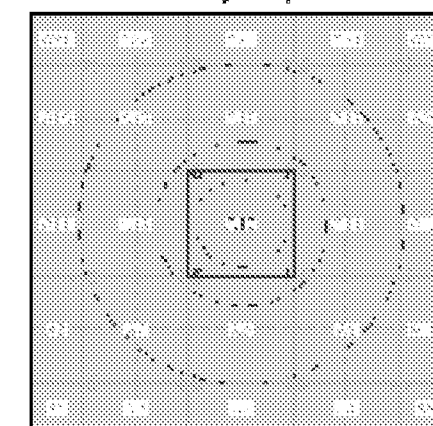
Risk of Flooding from Surface Water

- High Flood Risk
- Medium Flood Risk
- Low Flood Risk

Suitability

- Very Low Suitability
- Low Suitability
- Medium Suitability
- High Suitability
- Very High Suitability

EA/NRW Suitability Map - Slice A

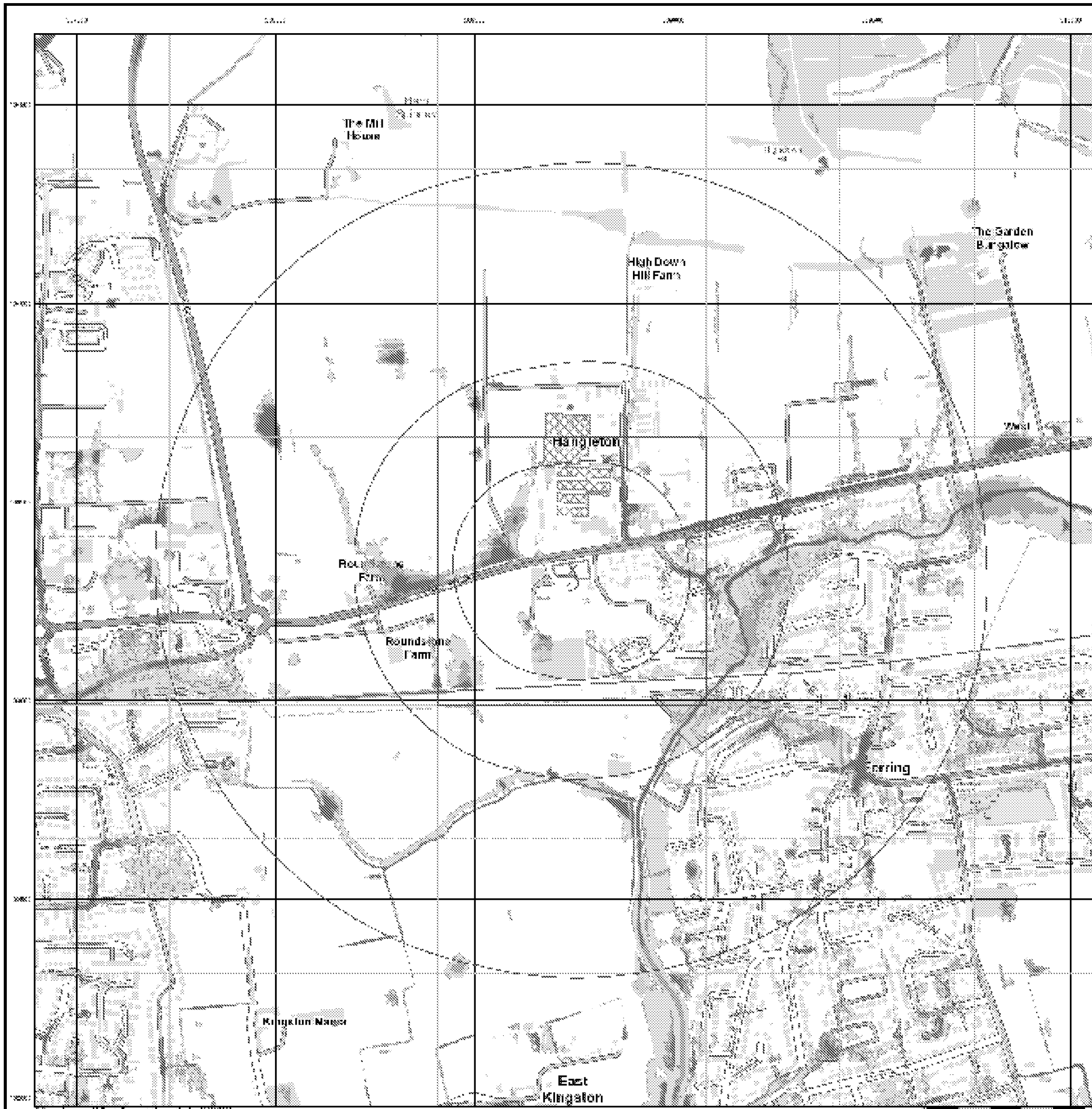


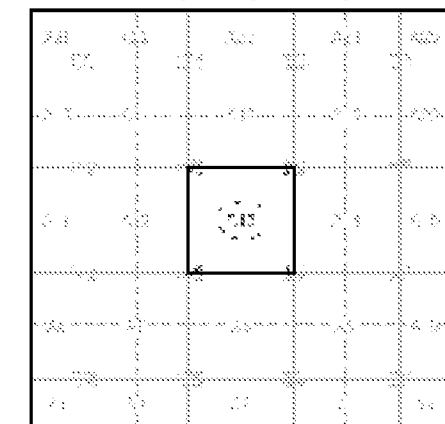
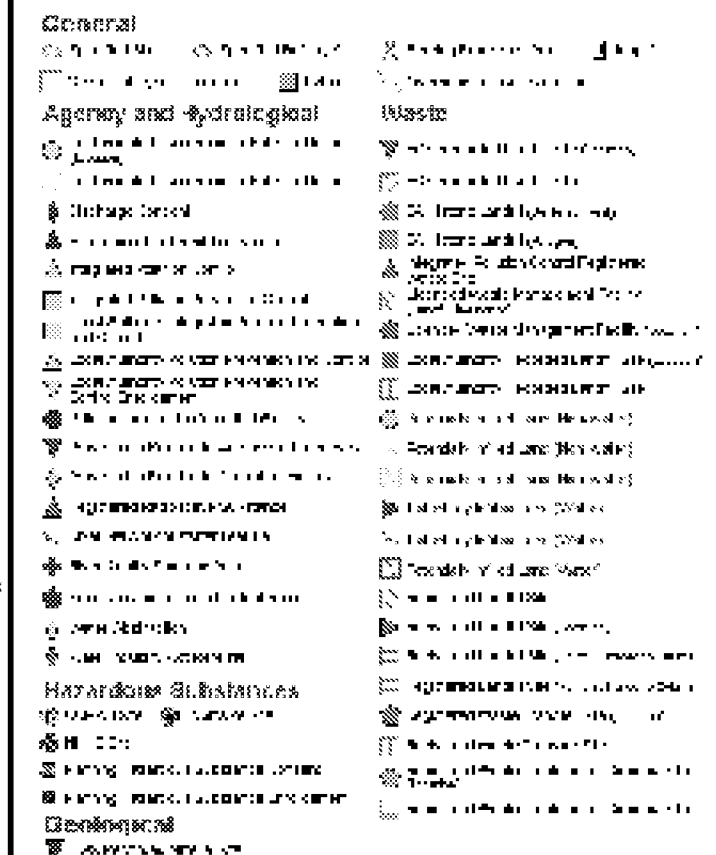
Order Details

Order Number: 136611880_1_1
 Customer Ref: E13043-1 ASDA Ferring
 National Grid Reference: 508750, 103330
 Slice: A
 Site Area (Ha): 0.34
 Search Buffer (m): 1000

Site Details

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN





Order Number:	136611880_1_1
Customer Ref:	E13043-1 ASDA Ferring
National Grid Reference:	508750, 103330
Slice:	A
Site Area (Ha):	0.34
Plot Buffer (m):	100

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN

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

ENCLOSURE F

**Environmental Database Information supplied by Landmark
Information Group Limited
(48 pages)**

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

136611880_1_1

Customer Reference:

E13043-1 ASDA Ferring

National Grid Reference:

508750, 103330

Slice:

A

Site Area (Ha):

0.34

Search Buffer (m):

1000

Site Details:

ASDA Ferring

Littlehampton Road

Ferring

BN12 6PN

Client Details:

Mr S Johnson

DTS Raeburn

Moor Lane

Witton

Birmingham

West Midlands

B6 7HG

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	24
Hazardous Substances	-
Geological	25
Industrial Land Use	28
Sensitive Land Use	35
Data Currency	36
Data Suppliers	41
Useful Contacts	42

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 the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1	2	2	19	15
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 11		1		
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 11		Yes		
Pollution Incidents to Controlled Waters	pg 11		1		9
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 13		1		2 (*9)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 15	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 16	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 16		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 16		5	16	44

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 24	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 24			1	5
Potentially Infilled Land (Water)	pg 24			2	6
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 25	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 25	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 25				4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 26	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 26	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 26	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 26	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 26	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 27	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 27	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 28		6	9	21
Fuel Station Entries					
Points of Interest - Commercial Services	pg 31		2	4	7
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 32		2	2	15
Points of Interest - Public Infrastructure	pg 33				5
Points of Interest - Recreational and Environmental	pg 34				2
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
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	pg 35				1
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
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	A13NE (W)	0	1	508747 103329
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	11	1	508800 103329
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	49	1	508800 103400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	184	1	508600 103500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	302	1	508747 103000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	308	1	508700 103000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	319	1	508900 103650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	347	1	508750 103700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	366	1	508900 103700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	439	1	508400 103000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	452	1	508850 103800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	455	1	508700 103800
1	Discharge Consents Operator: Mr M A R Wiggins Property Type: SPORT, AMUSEMENT+RECREATION/GOLF CLUB/GYM/THEME PK/SPA Location: Country Fayre Market, Littlehampton Road, Ferring, Worthing, West Sussex, Bn12 6pn Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P01993 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: 28th August 2013 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Into Land Status: Revoked under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13SE (S)	0	2	508750 103320
1	Discharge Consents Operator: Mr M A R Wiggins Property Type: SPORT, AMUSEMENT+RECREATION/GOLF CLUB/GYM/THEME PK/SPA Location: Country Fayre Market, Littlehampton Road, Ferring, Worthing, West Sussex, Bn12 6pn Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P01993 Permit Version: 1 Effective Date: 8th November 1988 Issued Date: 8th November 1988 Revocation Date: 20th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13SE (S)	0	2	508750 103320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Wyevale Garden Centres Ltd Property Type: SHOP INCL GARDEN CENTRE/RETAIL TRADE(NOT MOTOR VEHICLE) Location: Wyevale Garden Centre, Ferring Wyevale Garden Centre, A259, Ferring, West Sussex, Bn12 6pg Authority: Environment Agency, Southern Region Catchment Area: Adur Estuary & Freshwater Tributaries Reference: P12182 Permit Version: 2 Effective Date: 19th May 2008 Issued Date: 19th May 2008 Revocation Date: 5th March 2012 Discharge Type: Sewage And Trade Combined - Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Via A Culvert To Ferring Rife Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	114	2	508875 103423
2	Discharge Consents Operator: Wyevale Garden Centres Ltd Property Type: SHOP INCL GARDEN CENTRE/RETAIL TRADE(NOT MOTOR VEHICLE) Location: Wyevale Garden Centre, Ferring Wyevale Garden Centre, A259, Ferring, West Sussex, Bn12 6pg Authority: Environment Agency, Southern Region Catchment Area: Adur Estuary & Freshwater Tributaries Reference: P12182 Permit Version: 1 Effective Date: 10th December 2004 Issued Date: 10th December 2004 Revocation Date: 18th May 2008 Discharge Type: Sewage And Trade Combined - Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Via A Culvert To Ferring Rife Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	126	2	508871 103445
3	Discharge Consents Operator: G C Lisher Property Type: Mixed Farming Location: Cobbins Nursery, Hangleton Lane, Ferring, Worthing West Sussex, Bn12 6pp Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: App/So/6su Permit Version: 1 Effective Date: 1st April 1999 Issued Date: 1st April 1999 Revocation Date: 7th September 2005 Discharge Type: Trade Discharge - Process Water Discharge: Into Land Environment: Receiving Water: Into Land Status: Revoked Groundwater Regulations Authorisation Positional Accuracy: Located by supplier to within 10m	A13NW (N)	314	2	508650 103650
4	Discharge Consents Operator: C.K.Ellis Property Type: Undefined Or Other Location: Hangleton Farm Stables, Hangleton Lane, Ferring West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P02511 Permit Version: 1 Effective Date: 25th August 1989 Issued Date: 25th August 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	334	2	508890 103670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: C.K.Ellis Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Dwelling Hangleton Farm , Hangleton Lane , FERRING WORTHING , West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: N03456 Permit Version: 1 Effective Date: 23rd May 1983 Issued Date: 23rd May 1983 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A18SE (N)	370	2	508880 103710
5	Discharge Consents Operator: West Sussex County Council Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION Location: Littlehampton Road, A.259, At Ferring, Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01652 Permit Version: 1 Effective Date: 9th October 1967 Issued Date: 9th October 1967 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14SW (E)	351	2	509140 103300
5	Discharge Consents Operator: The Occupier Property Type: CONSTRUCTION OF BUILDINGS Location: Residential Development, Brookside Nursery, Langbury Lane Ferring, Worthing West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01497 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: 1st April 1991 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	352	2	509140 103280
5	Discharge Consents Operator: Executors Of The Late E.G. Parker Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Brookside Nursery, Langbury Lane, Ferring, Worthing West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01568 Permit Version: 1 Effective Date: 22nd February 1967 Issued Date: 22nd February 1967 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14SW (E)	352	2	509140 103280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: West Sussex County Council Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION Location: Littlehampton Road, A.259, At Ferring, Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01652 Permit Version: 1 Effective Date: 9th October 1967 Issued Date: 9th October 1967 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 10m	A14NW (E)	361	2	509140 103420
7	Discharge Consents Operator: Messrs Glover & Carter Property Type: Undefined Or Other Location: Land At Rifleside, Highdown Way, Ferring Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: S02835 Permit Version: 1 Effective Date: 26th May 1960 Issued Date: 26th May 1960 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NW (E)	391	2	509180 103330
7	Discharge Consents Operator: F.W. Booth (Contractors) Ltd. Property Type: Undefined Or Other Location: Bungalows Adj. Stanbrooke, Ferring, , Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01185 Permit Version: 1 Effective Date: 17th May 1960 Issued Date: 17th May 1960 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14NW (E)	433	2	509220 103350
8	Discharge Consents Operator: Mr M A R Wiggins Property Type: Undefined Or Other Location: Country Fayre, Littlehampton Road, Ferring, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P01479 Permit Version: 1 Effective Date: 18th March 1988 Issued Date: 18th March 1988 Revocation Date: 28th August 2013 Discharge Type: Non Water Company (Private) Sewage Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Revoked under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A12SE (W)	414	2	508300 103220

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Southern Water Services Ltd Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Onslow Drive Pumping Station, Ferring, Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: A00859 Permit Version: 1 Effective Date: 23rd July 2001 Issued Date: 23rd July 2001 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	416	2	509070 103000
10	Discharge Consents Operator: Southern Water Services Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Onslow Drive Ferring Wps, Ferring Onslow Caravan Park, Onslow Drive, Ferring, Worthing, West Sussex, Bn12 5rx Authority: Environment Agency, Southern Region Catchment Area: Adur Estuary & Freshwater Tributaries Reference: A01404 Permit Version: 1 Effective Date: 17th October 2006 Issued Date: 17th October 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Ferring Rife Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	417	2	509060 102990
11	Discharge Consents Operator: E. Jenkins & Sons (Ferring) Ltd. Property Type: Undefined Or Other Location: Road Off Langbury Lane, Ferring, WORTHING , West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01180 Permit Version: 1 Effective Date: 24th March 1961 Issued Date: 24th March 1961 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	428	2	509170 103110
11	Discharge Consents Operator: Messrs Eric J Sparks & Son Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Plot 16 Langbury Lane, Ferring Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S02559 Permit Version: 1 Effective Date: 31st October 1966 Issued Date: 31st October 1966 Revocation Date: 28th February 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	429	2	509160 103090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Discharge Consents Operator: F.W. Booth (Contractors) Ltd. Property Type: Undefined Or Other Location: Bungalows Adj. Stanbrooke, Ferring, , Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01185 Permit Version: 1 Effective Date: 17th May 1960 Issued Date: 17th May 1960 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14NW (E)	461	2	509240 103430
12	Discharge Consents Operator: F.W. Booth (Contractors) Ltd. Property Type: Undefined Or Other Location: Bungalows Adj. Stanbrooke, Ferring, , Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01185 Permit Version: 1 Effective Date: 17th May 1960 Issued Date: 17th May 1960 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14NW (E)	463	2	509240 103440
12	Discharge Consents Operator: F.W. Booth (Contractors) Ltd. Property Type: Undefined Or Other Location: Bungalows Adj. Stanbrooke, Ferring, , Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01185 Permit Version: 1 Effective Date: 17th May 1960 Issued Date: 17th May 1960 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14NW (E)	469	2	509250 103410
12	Discharge Consents Operator: F.W. Booth (Contractors) Ltd. Property Type: Undefined Or Other Location: Bungalows Adj. Stanbrooke, Ferring, , Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01185 Permit Version: 1 Effective Date: 17th May 1960 Issued Date: 17th May 1960 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14NW (E)	470	2	509250 103420

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: West Sussex County Council Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION Location: Littlehampton Road, A.259, At Ferring, Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01652 Permit Version: 1 Effective Date: 9th October 1967 Issued Date: 9th October 1967 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14NW (E)	485	2	509270 103380
14	Discharge Consents Operator: Southern Water Services Ltd (S) Property Type: Undefined Or Other Location: 21 Downview Road, Ferring Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S02523 Permit Version: 1 Effective Date: 30th July 1965 Issued Date: 30th July 1965 Revocation Date: 28th February 1997 Discharge Type: Unknown Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A14NW (E)	514	2	509300 103370
14	Discharge Consents Operator: F.W. Booth (Contractors) Ltd. Property Type: Undefined Or Other Location: Bungalows Adj. Stanbrooke, Ferring, , Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01185 Permit Version: 1 Effective Date: 17th May 1960 Issued Date: 17th May 1960 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14NW (E)	537	2	509320 103400
15	Discharge Consents Operator: Ferring Country Centre Limited Property Type: SPORT, AMUSEMENT+RECREATION/GOLF CLUB/GYM/THEME PK/SPA Location: Ferring Country Centre Ltd, Rife Way, Ferring, Sussex Authority: Environment Agency, Southern Region Catchment Area: Adur Estuary & Freshwater Tributaries Reference: P01515 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: 8th March 2016 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Into Land Status: Revoked under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A8NE (S)	519	2	508900 102800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Discharge Consents Operator: Ferring Country Centre Ltd. Property Type: SPORT, AMUSEMENT+RECREATION/GOLF CLUB/GYM/THEME PK/SPA Location: Ferring Country Centre Ltd, Rife Way, Ferring, Sussex Authority: Environment Agency, Southern Region Catchment Area: Adur Estuary & Freshwater Tributaries Reference: P01515 Permit Version: 1 Effective Date: 19th May 1988 Issued Date: 19th May 1988 Revocation Date: 20th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Into Land Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A8NE (S)	519	2	508900 102800
15	Discharge Consents Operator: Ferring Country Centre Limited Property Type: SPORT, AMUSEMENT+RECREATION/GOLF CLUB/GYM/THEME PK/SPA Location: Ferring Country Centre Rife Way, Ferring, ., West Sussex, Bn12 5jz Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: Eprdb3699rc Permit Version: 1 Effective Date: 9th March 2016 Issued Date: 9th March 2016 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Ferring Rife Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NE (S)	558	2	508889 102758
16	Discharge Consents Operator: T.A.R. Hanney Esq. Property Type: Undefined Or Other Location: Inter Village Road At Ferring, Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01058 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: 1st April 1991 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A8NE (S)	544	2	508960 102790
17	Discharge Consents Operator: Mr P.Langmead Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 5 & 6 New Barn Cottages, Ferring, Worthing West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P02549 Permit Version: 1 Effective Date: 18th September 1989 Issued Date: 18th September 1989 Revocation Date: Not Supplied Discharge Type: Non Water Company (Private) Sewage Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A8NE (S)	572	2	508920 102750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Discharge Consents Operator: West Sussex County Council Property Type: Undefined Or Other Location: Onslow Drive, Ferring, Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01197 Permit Version: 1 Effective Date: 8th May 1958 Issued Date: 8th May 1958 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	576	2	509250 102960
19	Discharge Consents Operator: West Sussex County Council Property Type: Undefined Or Other Location: Onslow Drive, Ferring, Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01196 Permit Version: 1 Effective Date: 8th May 1958 Issued Date: 8th May 1958 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	700	2	509380 102930
19	Discharge Consents Operator: West Sussex County Council Property Type: Undefined Or Other Location: Onslow Drive, Ferring, Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01197 Permit Version: 1 Effective Date: 8th May 1958 Issued Date: 8th May 1958 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	717	2	509400 102930
20	Discharge Consents Operator: Michael And Nicholas Milnes Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Commercial Building Junc. Angmering By Pass, Roundstone Farm, Littlehampton Road, Ferring, West Sussex, Bn12 6pw Authority: Environment Agency, Southern Region Catchment Area: Adur Estuary & Freshwater Tributaries Reference: P12462 Permit Version: 1 Effective Date: 12th August 2005 Issued Date: 12th August 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib. Ferring Rife Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12SW (W)	763	2	507937 103270

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	Discharge Consents Operator: Kenneth Wood Esq Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Bungalow North Of 'Torrington', Ferring Lane, Ferring, Worthing, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: S02724 Permit Version: 1 Effective Date: 12th February 1965 Issued Date: 12th February 1965 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NE (E)	872	2	509660 103360
22	Discharge Consents Operator: Premier By Design Ltd Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: New Build, Highdown Nurseries New Build At Highdown Nurseries, Littlehampton Road, Ferring, Worthing, West Sussex, Bn12 6pg Authority: Environment Agency, Southern Region Catchment Area: Adur Estuary & Freshwater Tributaries Reference: P12655 Permit Version: 1 Effective Date: 25th January 2006 Issued Date: 25th January 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwater 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	A14NE (E)	926	2	509678 103598
23	Discharge Consents Operator: A A J Woodeson Esq Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Molehurst, Ferring Lane, Ferring Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: S02629 Permit Version: 1 Effective Date: 12th February 1969 Issued Date: 12th February 1969 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NE (E)	961	2	509740 103460
23	Discharge Consents Operator: Worthing Borough Council Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION Location: A259 Surface Water, Littlehampton Road, Worthing West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01071 Permit Version: 1 Effective Date: 26th February 1964 Issued Date: 26th February 1964 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Controlled Sea Environment: Receiving Water: Controlled Sea Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A15NW (E)	986	2	509760 103500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Local Authority Pollution Prevention and Controls Name: Millbeech Ltd Location: Perfleur Nursery, Hangleton Lane, Ferring, WORTHING, West Sussex, BN12 6PP Authority: Arun District Council, Environmental Health Department Permit Reference: 2924 Dated: 28th May 1998 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	240	3	508926 103547
	Nearest Surface Water Feature	A13SE (S)	160	-	508780 103144
25	Pollution Incidents to Controlled Waters Property Type: Transport, Storage, Communications Location: A259 MACINTYRES YARD Authority: Environment Agency, Southern Region Pollutant: Organic Chemicals : Diesel Fuels Note: Not Supplied Incident Date: 26th March 1999 Incident Reference: 2020 Catchment Area: Arun Receiving Water: Potential River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	60	2	508700 103400
26	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: By Ferring Country Centre, Ferring Rife Authority: Environment Agency, Southern Region Pollutant: Oils - Unknown Note: Oil On Ferring Rife Incident Date: 23rd June 1992 Incident Reference: 429 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	A8NE (S)	524	2	508900 102795
26	Pollution Incidents to Controlled Waters Property Type: Horticultural Location: Ferring Rife, Adj Disabled Riding Stables Authority: Environment Agency, Southern Region Pollutant: Chemicals - Unknown Note: White Liquid Running Into Rife Incident Date: 31st March 1998 Incident Reference: 2490 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	568	2	508900 102750
27	Pollution Incidents to Controlled Waters Property Type: Horticultural Location: Ferring Country Centre, Ferring Rife Authority: Environment Agency, Southern Region Pollutant: Miscellaneous - Foam Note: Detergent/Foam W Rife Incident Date: 21st October 1998 Incident Reference: 2799 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	525	2	508905 102795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Ferring Rife, FERRING Authority: Environment Agency, Southern Region Pollutant: Oils - Diesel (Including Agricultural) Note: Oil - Diesel Incident Date: 29th February 1992 Incident Reference: 305 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	A8NE (S)	532	2	508950 102800
28	Pollution Incidents to Controlled Waters Property Type: Road (Road Traffic Accident) Location: Highdown Hill, FERRING Authority: Environment Agency, Southern Region Pollutant: Oils - Petrol Note: Petrol And Oil Entered Drain Incident Date: 10th February 1998 Incident Reference: 2419 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	A18SE (N)	682	2	509000 104000
29	Pollution Incidents to Controlled Waters Property Type: Road (Road Traffic Accident) Location: Rear Of, 21 Downview Avenue Authority: Environment Agency, Southern Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: Ferring Rife Is Oily And Foamy Incident Date: 4th February 1996 Incident Reference: 1557 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Road Traffic Accident Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	716	2	509500 103400
30	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: Blakes Farm Road Authority: Environment Agency, Southern Region Pollutant: Surcharged Sewage Note: Sewage In Gill Incident Date: 29th April 1998 Incident Reference: 2629 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Sewage - Other Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (SW)	772	2	508000 103000
31	Pollution Incidents to Controlled Waters Property Type: Industrial: Other Location: Ferring Rife At Hangleton Lane, Ferring - Ditch To Authority: Environment Agency, Southern Region Pollutant: Oils - Other Oil Note: Oil From McIntyres Premises; Petrol/Fuelling Stations Incident Date: 9th January 1994 Incident Reference: 836 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	A18NW (N)	786	2	508500 104100
32	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Ferring Rife, Ferring Lane, FERRING, West Sussex Authority: Environment Agency, Southern Region Pollutant: Organic Chemicals : Mixed / Unidentified / Waste Mineral & Synthetic Oils Note: Not Supplied Incident Date: 20th November 1999 Incident Reference: 4190 Catchment Area: Arun Receiving Water: Potential River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A14NE (E)	828	2	509600 103500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Water Abstractions Operator: Mr Fox Esq Licence Number: 10/41/310103 Permit Version: 100 Location: Reynards Nursery Authority: Environment Agency, Southern Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land And Buildings Of Nursery At Hangleton Lane, Ferring Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 1971 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	246	2	508900 103570
34	Water Abstractions Operator: P Langmead Esq Licence Number: 310112 Permit Version: Not Supplied Location: Roundstone Farm, FERRING Authority: Environment Agency, Southern Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 1820 Yearly Rate (m3): 77270 Details: H5 Chalk Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	779	2	508580 104110
34	Water Abstractions Operator: Mr P Langmead Licence Number: 10/41/310112 Permit Version: 100 Location: Roundstone Farm Ferring Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1820 Yearly Rate (m3): 77270 Details: See License Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 8th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	789	2	508580 104120
	Water Abstractions Operator: Roundstone Garden Centre Ltd Licence Number: 10/41/310106 Permit Version: 101 Location: Roundstone Nursery Authority: Environment Agency, Southern Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th May 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (W)	1062	2	507640 103240

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: R I Cahn Esq Licence Number: 10/41/310106 Permit Version: 100 Location: Roundstone Nursery Authority: Environment Agency, Southern Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th January 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11SE (W)	1062	2	507640 103240
	Water Abstractions Operator: Van Heyningen Bros. Ltd Licence Number: 10/41/414002 Permit Version: 100 Location: West End Nurseries Authority: Environment Agency, Southern Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land And Buildings At West End Nurseries, Roundstone Lane, East Preston Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 11th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11NE (W)	1172	2	507540 103530
	Water Abstractions Operator: Fresh Acres Nurseries Ltd Licence Number: 10/41/414018 Permit Version: 100 Location: Fresh Acres Nurseries Authority: Environment Agency, Southern Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th July 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SW (W)	1629	2	507140 103820
	Water Abstractions Operator: S.Salbstein Limited Licence Number: 10/41/310110 Permit Version: 102 Location: Northbrook Farm Goring Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st April 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20NE (NE)	1636	2	510230 104120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: S.Salbstein Limited Licence Number: 10/41/310110 Permit Version: 101 Location: Northbrook Farm Goring Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 19th January 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20NE (NE)	1636	2	510230 104120
	Water Abstractions Operator: J.Salbstein Licence Number: 10/41/310110 Permit Version: 100 Location: Northbrook Farm Goring Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 8th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20NE (NE)	1636	2	510230 104120
	Water Abstractions Operator: L.Bilotti Licence Number: 24/058 Permit Version: Not Supplied Location: Roundstone Lane, ANGMERING Authority: Environment Agency, Southern Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 57 Yearly Rate (m3): 11400 Details: H5 Chalk Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1713	2	507030 103735
	Water Abstractions Operator: A.Natale Licence Number: 24/057 Permit Version: Not Supplied Location: Roundstone Lane, ANGMERING Authority: Environment Agency, Southern Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 57 Yearly Rate (m3): 11400 Details: H5 Chalk Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1714	2	507030 103740
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 45 West Sussex and Surrey Scale: 1:100,000	A13NE (W)	0	2	508747 103329
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13NE (W)	0	1	508747 103329

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (W)	0	1	508747 103329
	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	A13NE (E)	191	2	508980 103329
	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	A13NE (E)	194	2	508980 103350
	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	A13SE (S)	217	2	508835 103095
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 2	A13SE (S)	162	4	508781 103142
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A13SE (S)	175	4	508814 103134
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A13SE (S)	184	4	508813 103125
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A13SE (S)	225	4	508808 103083
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A13SE (S)	246	4	508805 103062
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1512.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ferring Rife Catchment Name: Rother and Arun Primacy: 1	A14SW (E)	345	4	509134 103285

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Ferring Rife Catchment Name: Rother and Arun Primacy: 1	A14SW (SE)	410	4	509103 103042
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ferring Rife Catchment Name: Rother and Arun Primacy: 1	A13SE (SE)	418	4	509074 103001
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ferring Rife Catchment Name: Rother and Arun Primacy: 1	A14SW (SE)	420	4	509137 103072
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A14SW (SE)	440	4	509185 103114
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ferring Rife Catchment Name: Rother and Arun Primacy: 1	A14SW (SE)	441	4	509187 103116
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A14SW (SE)	442	4	509188 103115
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A14SW (SE)	443	4	509182 103102
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 2	A8NE (SE)	445	4	509009 102919
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 159.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ferring Rife Catchment Name: Rother and Arun Primacy: 1	A8NE (SE)	445	4	509009 102919

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 2	A8NE (SE)	458	4	509020 102911
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 2	A8NE (SE)	458	4	509020 102911
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NE (S)	482	4	508790 102822
53	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 12.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NW (S)	491	4	508689 102816
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NW (S)	499	4	508698 102807
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NW (S)	500	4	508707 102805
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 2	A8NW (S)	502	4	508703 102804
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NW (S)	502	4	508703 102804
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 212.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A9NW (SE)	522	4	509093 102882

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 2	A8NE (SE)	523	4	509066 102863
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 2	A8NE (SE)	526	4	509068 102860
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NE (SE)	528	4	509069 102859
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 414.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NW (S)	536	4	508625 102783
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ferring Rife Catchment Name: Rother and Arun Primacy: 1	A8NE (S)	547	4	508934 102779
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NE (S)	547	4	508936 102780
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NE (S)	547	4	508936 102780
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NE (S)	556	4	508945 102773
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 190.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NE (S)	565	4	508941 102763

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NE (S)	565	4	508893 102752
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NE (S)	565	4	508893 102752
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 149.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ferring Rife Catchment Name: Rother and Arun Primacy: 1	A8NE (S)	579	4	508916 102742
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8NE (S)	620	4	508897 102697
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ferring Rife Catchment Name: Rother and Arun Primacy: 1	A8SE (S)	725	4	508917 102593
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8SE (S)	725	4	508917 102593
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8SE (S)	745	4	508937 102577
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8SE (S)	748	4	508937 102574
76	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: Rother and Arun Primacy: 1	A8SE (S)	760	4	508986 102573

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8SE (S)	760	4	508986 102573
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ferring Rife Catchment Name: Rother and Arun Primacy: 1	A8SE (S)	763	4	508919 102555
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8SE (S)	763	4	508922 102556
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8SE (S)	764	4	508941 102558
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 190.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A12SW (W)	783	4	507919 103250
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 257.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A12SW (W)	788	4	507915 103242
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8SE (S)	803	4	508994 102530
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A8SE (S)	807	4	508994 102526
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 692.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A12NW (W)	812	4	507890 103430

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A7NE (SW)	816	4	508092 102777
87	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 53.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A7NE (SW)	829	4	508129 102720
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A7NE (SW)	833	4	508145 102699
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 89.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A7NW (SW)	836	4	507936 102986
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A12SW (W)	842	4	507857 103271
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A7NE (SW)	849	4	508164 102661
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 2	A7SE (SW)	857	4	508275 102574
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 782.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 2	A7SE (SW)	858	4	508275 102572
94	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: Rother and Arun Primacy: 1	A8SE (S)	871	4	509007 102463

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 115.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A7NW (SW)	878	4	507933 102897
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A7NW (SW)	947	4	507921 102784
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A7NW (SW)	948	4	507920 102784
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A7NW (SW)	974	4	507969 102679
99	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: Rother and Arun Primacy: 1	A8SE (S)	986	4	509034 102352

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Arun District Council - Has no landfill data to supply		0	5	508747 103329
	Local Authority Landfill Coverage Name: West Sussex County Council - Has supplied landfill data		0	6	508747 103329
	Local Authority Landfill Coverage Name: Worthing Borough Council - Has no landfill data to supply		965	7	509727 103559
100	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	A18SE (NE)	388	-	508953 103702
101	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	A9SW (SE)	787	-	509092 102580
102	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	A8SE (S)	841	-	509033 102502
103	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	A9SW (SE)	853	-	509098 102511
104	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	A19NW (NE)	899	-	509265 104113
105	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	A9SW (S)	906	-	509107 102459
106	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1943	A13SE (E)	269	-	509058 103304
107	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1943	A14SW (E)	320	-	509109 103290
108	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1943	A8NE (S)	537	-	508933 102789
109	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1943	A14NW (E)	559	-	509341 103410
110	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1943	A9NW (SE)	720	-	509404 102932
111	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1913	A9NE (SE)	822	-	509509 102909
112	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1913	A14SE (E)	823	-	509563 103025
113	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1913	A9SW (SE)	991	-	509360 102497

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A13NE (W)	0	1	508747 103329
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (W)	0	1	508747 103329
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	49	1	508649 103329
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	280	1	508938 103587
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	808	1	507997 103743
114	BGS Recorded Mineral Sites Site Name: Stony Lane Flint Pit Location: , Ferring, Worthing, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 16123 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Terrace Deposits Commodity: Flint Positional Accuracy: Located by supplier to within 10m	A8SE (S)	793	1	509055 102560
115	BGS Recorded Mineral Sites Site Name: Highdown Hill Chalk Pit Location: , Angmering, Littlehampton, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 157626 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Newhaven Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18NE (N)	865	1	508845 104216

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	BGS Recorded Mineral Sites Site Name: Highdown Hill Chalk Pit Location: , Angmering, Littlehampton, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 157627 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Newhaven Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18NE (N)	879	1	508920 104221
117	BGS Recorded Mineral Sites Site Name: Highdown Hill Chalk Pit Location: , Angmering, Littlehampton, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 157628 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Newhaven Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	902	1	509267 104116
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	508747 103329
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	49	1	508649 103329
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	508747 103329
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	508747 103329
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	508747 103329
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	508747 103329
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	49	1	508649 103329
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	508747 103329
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	49	1	508649 103329
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	508727 103329

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	508747 103329
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	508727 103329
	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	A13NE (W)	0	1	508747 103329

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	Contemporary Trade Directory Entries Name: N S Marine Location: Downsview, Littlehampton Road, Ferring, Worthing, BN12 6PW Classification: Marine Engineering Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	72	-	508670 103406
118	Contemporary Trade Directory Entries Name: Electro Systems Location: Coopers Industrial Estate, Littlehampton Road, Ferring, Worthing, West Sussex, BN12 6PW Classification: Electronic Equipment - Manufacturers & Assemblers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	87	-	508662 103420
118	Contemporary Trade Directory Entries Name: Brent Taunton Joinery Ltd Location: Unit 3, Coopers Industrial Estate, Littlehampton Road, Ferring, Worthing, West Sussex, BN12 6PW Classification: Joinery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	112	-	508668 103448
118	Contemporary Trade Directory Entries Name: D & A Motors Location: Coopers Industrial Estate, Littlehampton Road, Ferring, Worthing, West Sussex, BN12 6PW Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	112	-	508668 103448
119	Contemporary Trade Directory Entries Name: Yeomans Peugeot Location: Littlehampton Road, Ferring, WORTHING, West Sussex, BN12 6PB Classification: Car Customisation & Conversion Specialists Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	204	-	508953 103468
120	Contemporary Trade Directory Entries Name: Southern Vehicle Solutions Location: 1B Littlehampton Rd, Ferring, Worthing, West Sussex, BN12 6PW Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NE (E)	218	-	508992 103420
121	Contemporary Trade Directory Entries Name: M Hampshire Location: Hangleton Lane, Ferring, Worthing, West Sussex, BN12 6PP Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NE (NE)	261	-	508874 103598
121	Contemporary Trade Directory Entries Name: The Hack N Tack Shack Location: Hangleton La, Ferring, Worthing, West Sussex, BN12 6PP Classification: Pottery Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NE (NE)	298	-	508895 103630
122	Contemporary Trade Directory Entries Name: Kirby Concrete Location: Hangleton Nursery, Hangleton Lane, Ferring, Worthing, BN12 6PP Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	274	-	508966 103559
122	Contemporary Trade Directory Entries Name: Docu-Shred Location: Hangleton Nursery, Hangleton Lane, Ferring, Worthing, BN12 6PP Classification: Shredding Equipment & Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	274	-	508966 103559
123	Contemporary Trade Directory Entries Name: Ns Marine Ltd Location: The Workshop, Hangleton Lane, Ferring, Worthing, West Sussex, BN12 6PP Classification: Marine Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	325	-	508906 103655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	Contemporary Trade Directory Entries Name: Trade To Trade Location: Hangleton La, Ferring, Worthing, West Sussex, BN12 6PP Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	368	-	508874 103710
125	Contemporary Trade Directory Entries Name: Harpers Location: White Lodge, Hangleton Lane, Ferring, Worthing, BN12 6PP Classification: Commercial Vehicle Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	423	-	508855 103770
125	Contemporary Trade Directory Entries Name: Harpers Location: White Lodge, Hangleton Lane, Ferring, Worthing, West Sussex, BN12 6PP Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	423	-	508856 103770
126	Contemporary Trade Directory Entries Name: House Of Crackers Location: 23, Langbury Lane, Ferring, Worthing, West Sussex, BN12 6PU Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	499	-	509236 103083
127	Contemporary Trade Directory Entries Name: Hardscape Location: 8, St. Maurs Road, Ferring, Worthing, West Sussex, BN12 5LE Classification: Asphalt & Coated Macadam Laying Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	635	-	509270 102892
128	Contemporary Trade Directory Entries Name: Chips Away Location: Roundstone Farm, Littlehampton Road, Ferring, Worthing, West Sussex, BN12 6PW Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	705	-	507993 103307
129	Contemporary Trade Directory Entries Name: All Vehicle Repairs Location: 7, East Onslow Close, Ferring, Worthing, West Sussex, BN12 5RR Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	708	-	509450 103051
130	Contemporary Trade Directory Entries Name: Sussex Polythene Recycling Location: 19, Colindale Road, Ferring, Worthing, West Sussex, BN12 5JF Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	777	-	509133 102610
130	Contemporary Trade Directory Entries Name: Darby Gas Services Location: 17, Colindale Road, Ferring, Worthing, West Sussex, BN12 5JF Classification: Gas Appliances - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	786	-	509134 102601
131	Contemporary Trade Directory Entries Name: United Carpet Cleaning Masters Location: 2b Ferring La, Ferring, Worthing, West Sussex, BN12 6QY Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14SE (E)	796	-	509563 103118
132	Contemporary Trade Directory Entries Name: Smallworth Printers Ltd Location: Baker House, Ferring St, Ferring, Worthing, West Sussex, BN12 5JP Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NE (SE)	798	-	509498 102940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	Contemporary Trade Directory Entries Name: Smallworth Printers Ltd Location: Baker House, Ferring Street, Ferring, Worthing, West Sussex, BN12 5JP Classification: Printers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NE (SE)	823	-	509524 102936
133	Contemporary Trade Directory Entries Name: Baker Press Ltd Location: Ferring Street, Ferring, Worthing, West Sussex, BN12 5JP Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	867	-	509572 102934
134	Contemporary Trade Directory Entries Name: Uk H 2 O Location: 50, Ferring Street, Ferring, Worthing, BN12 5JP Classification: Water Softeners Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	853	-	509495 102827
134	Contemporary Trade Directory Entries Name: Frosts Vauxhall Motors Location: 50, Ferring Street, Ferring, Worthing, West Sussex, BN12 5JP Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	853	-	509495 102827
134	Contemporary Trade Directory Entries Name: Ferring Garage Location: 50, Ferring Street, Ferring, Worthing, West Sussex, BN12 5JP Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	853	-	509495 102827
135	Contemporary Trade Directory Entries Name: Vet Med Lab Location: 31, Ferring Lane, Ferring, Worthing, West Sussex, BN12 6QT Classification: Laboratories Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	862	-	509648 103379
136	Contemporary Trade Directory Entries Name: Car & Commercial Repairs Location: Roundstone by-Pass, Angmering, Littlehampton, West Sussex, BN16 4BD Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	906	-	507791 103334
136	Contemporary Trade Directory Entries Name: Scotts Autocare Location: Roundstone by-Pass, Angmering, Littlehampton, West Sussex, BN16 4BD Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	914	-	507783 103367
137	Contemporary Trade Directory Entries Name: Potato Academy Location: The Old Barn, Ferringham Lane, Ferring, Worthing, West Sussex, BN12 5LL Classification: Greeting Card Publishers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	909	-	509355 102596
138	Contemporary Trade Directory Entries Name: Cannons Antiques Location: Littlehampton Rd, Ferring, Worthing, West Sussex, BN12 6PW Classification: French Polishing Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	942	-	509697 103588
139	Contemporary Trade Directory Entries Name: Creteangle Location: 3, Brook Lane, Ferring, Worthing, West Sussex, BN12 5LP Classification: Plant & Machinery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	956	-	509308 102504
139	Contemporary Trade Directory Entries Name: Benton Weatherstone Ltd Location: 53, Ferringham Lane, Ferring, Worthing, West Sussex, BN12 5NT Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	972	-	509304 102482

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	Contemporary Trade Directory Entries Name: Gem Uk Garage Ferring Ltd Location: 61, Ferringham Lane, Ferring, Worthing, BN12 5LW Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	956	-	509340 102525
141	Contemporary Trade Directory Entries Name: P H S Waste Management Location: Littlehampton Road, Ferring, Worthing, West Sussex, BN12 6PG Classification: Waste Disposal Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	970	-	509650 103794
142	Points of Interest - Commercial Services Name: D & A Motors Location: Coopers Industrial Estate, Littlehampton Road, Ferring, Worthing, BN12 6PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	112	8	508668 103448
142	Points of Interest - Commercial Services Name: D & A Motors Location: Coopers Industrial Estate, Littlehampton Road, Ferring, Worthing, BN12 6PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	112	8	508668 103448
143	Points of Interest - Commercial Services Name: Docu-shred Location: Hangleton Nursery, Hangleton Lane, Ferring, Worthing, BN12 6PP Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A13NE (NE)	283	8	508993 103545
144	Points of Interest - Commercial Services Name: P A Haulage Ltd Location: 21 Downview Road, Ferring, Worthing, BN12 6QR Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14NW (E)	476	8	509262 103362
145	Points of Interest - Commercial Services Name: A1 Care - 4 - Cars Ltd Location: Roundstone Farm, A259, Littlehampton Rd, Ferring, Worthing, West Sussex, BN12 6PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SE (W)	489	8	508210 103292
145	Points of Interest - Commercial Services Name: Chipsaway Ltd Location: Roundstone Farm, Littlehampton Road, Ferring, Worthing, BN12 6PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SE (W)	490	8	508210 103292
146	Points of Interest - Commercial Services Name: Chips Away Location: Roundstone Farm, Littlehampton Road, Ferring, Worthing, BN12 6PW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	705	8	507993 103307
147	Points of Interest - Commercial Services Name: Safe Screen Windscreen Repairs Location: Sunnyside, Roundstone by-Pass, Angmering, Littlehampton, BN16 4BD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	836	8	507866 103246
148	Points of Interest - Commercial Services Name: Ferring Garage Location: 50 Ferring Street, Ferring, Worthing, BN12 5JP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	853	8	509495 102827
149	Points of Interest - Commercial Services Name: Car & Commercial Repairs Location: Roundstone by-Pass, Angmering, Littlehampton, BN16 4BD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	906	8	507791 103334

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	Points of Interest - Commercial Services Name: Car & Commercial Repairs Location: Roundstone by-Pass, Angmering, Littlehampton, BN16 4BD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	906	8	507791 103334
149	Points of Interest - Commercial Services Name: Scotts Autocare Location: Roundstone by-Pass, Angmering, Littlehampton, BN16 4BD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	914	8	507783 103367
150	Points of Interest - Commercial Services Name: Gem UK Garage Ferring Ltd Location: 61 Ferringham Lane, Ferring, Worthing, BN12 5LW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9SW (SE)	957	8	509340 102524
151	Points of Interest - Manufacturing and Production Name: Works Location: BN12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	118	8	508685 103457
151	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	120	8	508685 103459
152	Points of Interest - Manufacturing and Production Name: Tank Location: BN12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	332	8	509024 103584
153	Points of Interest - Manufacturing and Production Name: Artists in Stone Location: Roundstone Buildings, Littlehampton Road, Ferring, Worthing, BN12 6PN Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A12SE (W)	454	8	508276 103166
154	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	775	8	509109 102601
155	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	813	8	509568 103074
155	Points of Interest - Manufacturing and Production Name: Works Location: BN12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	813	8	509568 103074
156	Points of Interest - Manufacturing and Production Name: Works Location: BN12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	864	8	509568 102932
156	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	867	8	509571 102932

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
157	Points of Interest - Manufacturing and Production Name: Tank Location: BN16 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	894	8	507804 103305
157	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	908	8	507789 103358
157	Points of Interest - Manufacturing and Production Name: Works Location: BN16 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	908	8	507789 103359
158	Points of Interest - Manufacturing and Production Name: Tank Location: BN12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	913	8	509264 104130
159	Points of Interest - Manufacturing and Production Name: Works Location: BN12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	940	8	509288 102510
159	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	941	8	509292 102511
159	Points of Interest - Manufacturing and Production Name: Powell Jones Ltd Location: 53 Ferringham Lane, Ferring, Worthing, BN12 5NU Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A9SW (SE)	972	8	509304 102482
159	Points of Interest - Manufacturing and Production Name: Powell Jones Stone Distributors Ltd Location: 53 Ferringham Lane, Ferring, Worthing, BN12 5NU Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A9SW (SE)	972	8	509303 102481
159	Points of Interest - Manufacturing and Production Name: Works Location: BN12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	974	8	509310 102483
160	Points of Interest - Manufacturing and Production Name: Tank Location: BN16 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11NE (W)	974	8	507727 103423
161	Points of Interest - Public Infrastructure Name: Ferring Police Station (Volunteer Station) Location: 2 Onslow Drive, Ferring, Worthing, BN12 5RP Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A9NE (SE)	772	8	509493 102988
161	Points of Interest - Public Infrastructure Name: Ferring Location: 2, Onslow Drive, Ferring, Worthing, BN12 5RP Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A9NE (SE)	780	8	509502 102989

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	Points of Interest - Public Infrastructure Name: Ferring Police Community Hub Location: Ferring Library, Ferring Street, Worthing, BN12 5HL Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A9NE (SE)	832	8	509436 102783
163	Points of Interest - Public Infrastructure Name: Weir Location: BN12 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	870	8	508904 102445
164	Points of Interest - Public Infrastructure Name: P H S Waste Management Location: Littlehampton Road, Ferring, Worthing, BN12 6PG Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A19SE (NE)	970	8	509649 103793
165	Points of Interest - Recreational and Environmental Name: Playground Location: St Andrew'S Close, BN12 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	725	8	509402 102918
165	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	731	8	509409 102919

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	National Parks Name: South Downs Multiple Area: N Area (m2): 1652679314.3 Source: Natural England Status: Fully Designated - designated as a National Park Designation Date: 2nd November 2009	A18NE (N)	805	9	508889 104151

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

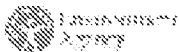
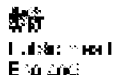
Agency & Hydrological	Version	Update Cycle
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	July 2017	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2017	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2017	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2017	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2017	Quarterly
Flood Defences Environment Agency - Head Office	August 2017	Quarterly
OS Water Network Lines Ordnance Survey	April 2017	6 Weekly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
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	May 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	May 2017 May 2017 May 2017	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	May 2017 May 2017 May 2017	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Arun District Council - Technical Support Unit Horsham District Council - Environmental Health Department West Sussex County Council - Environment & Development Worthing Borough Council - Planning Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Arun District Council - Technical Support Unit Horsham District Council - Environmental Health Department West Sussex County Council - Environment & Development Worthing Borough Council - Planning Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	March 2017	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Bi-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 Arun District Council - Technical Support Unit Worthing Borough Council - Planning Department West Sussex County Council - Environment & Development	August 2015 February 2016 February 2016 October 2006	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Horsham District Council - Planning Department Arun District Council - Technical Support Unit Worthing Borough Council - Planning Department West Sussex County Council - Environment & Development	August 2015 February 2016 February 2016 October 2006	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2017	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	As notified
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	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	June 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2017	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	December 2016	Quarterly
Points of Interest - Education and Health PointX	December 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2016	Quarterly
Points of Interest - Public Infrastructure PointX	December 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2016	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	May 2017	Bi-Annually
Areas of Outstanding Natural Beauty Natural England	August 2017	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	August 2017	Bi-Annually
Marine Nature Reserves Natural England	August 2017	Bi-Annually
National Nature Reserves Natural England	August 2017	Bi-Annually
National Parks Natural England	February 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	June 2017 October 2015	Bi-Annually Annually
Ramsar Sites Natural England	August 2017	Bi-Annually
Sites of Special Scientific Interest Natural England	August 2017	Bi-Annually
Special Areas of Conservation Natural England	August 2017	Bi-Annually
Special Protection Areas Natural England	August 2017	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	
3	Arun District Council - Environmental Health Department Civic Centre, Maltravers Road, Littlehampton, Sussex, BN17 5LF	
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	
5	Arun District Council - Technical Support Unit Civic Centre, Maltravers Road, Littlehampton, Sussex, BN17 5LF	
6	West Sussex County Council - Environment & Development County Hall, Tower hall, Chichester, West Sussex, PO19 1RH	
7	Worthing Borough Council - Planning Department Portland House, Richmond Road, Worthing, West Sussex, BN11 1HA	
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	
10	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	

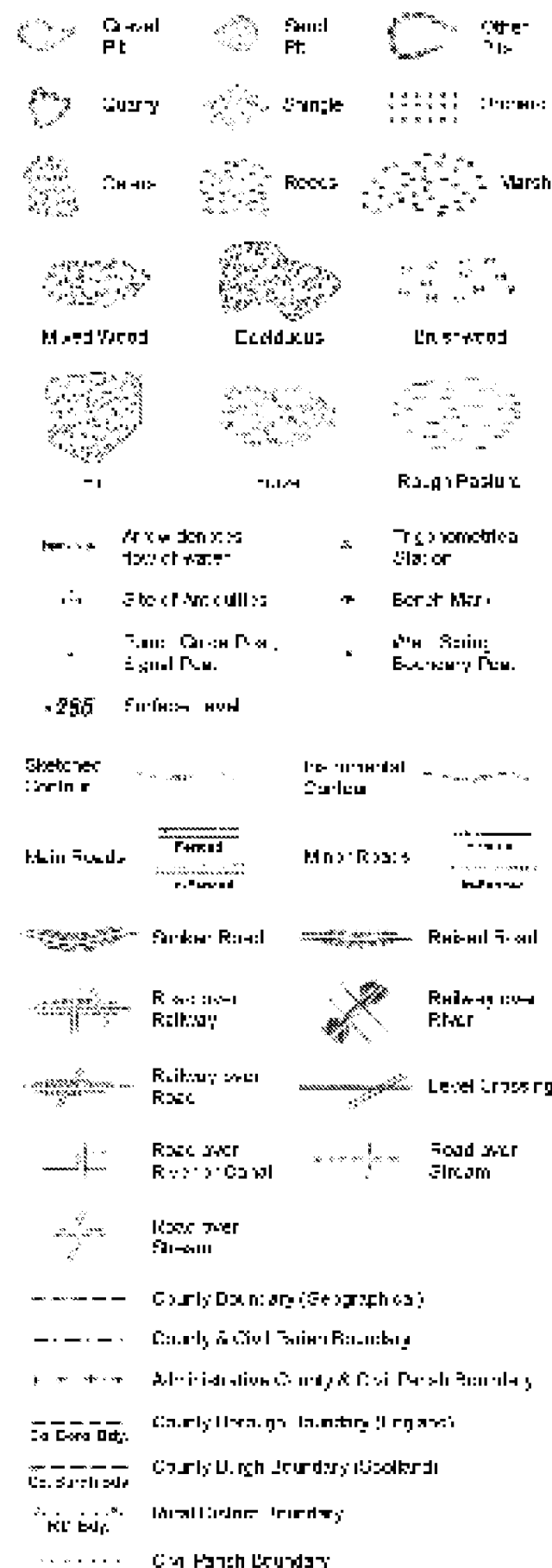
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

ENCLOSURE G

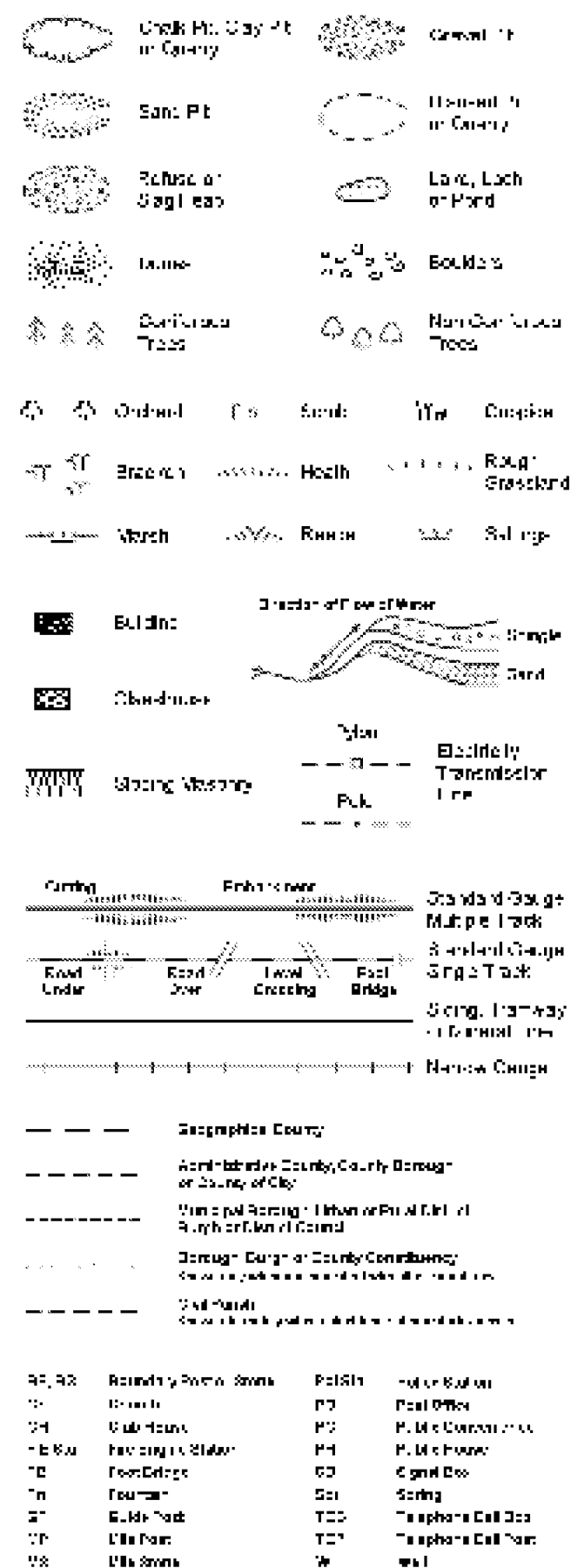
**Selected Historical Map Extracts
(13 pages)**

Historical Mapping Legends

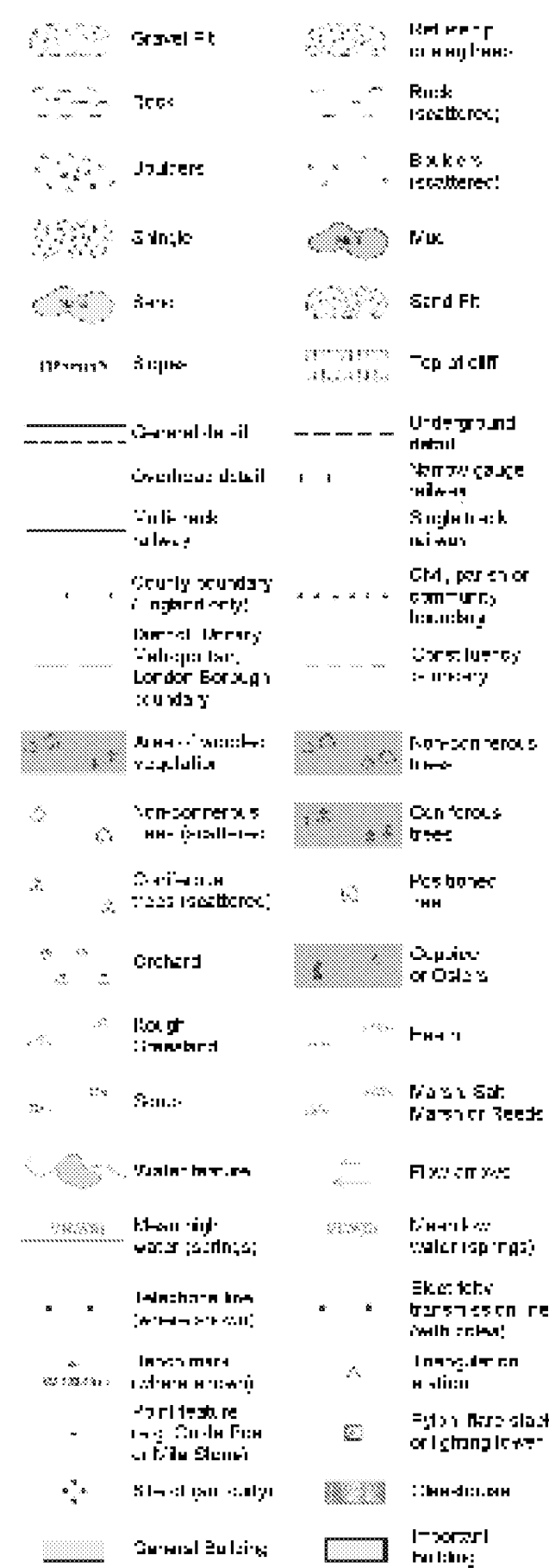
Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



1:10,000 Raster Mapping

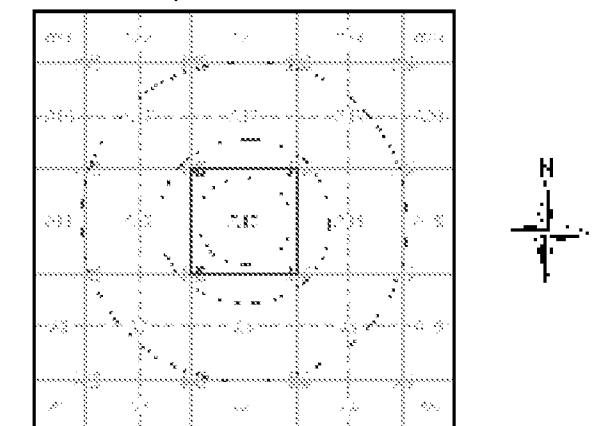


DTS RAE BURN
 GEOTECHNICAL & ENVIRONMENTAL ENGINEERING

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	1913	4
Sussex	1:10,560	1913	5
Sussex	1:10,560	1932 - 1933	6
Sussex	1:10,560	1938 - 1943	7
Historical Aerial Photography	1:10,560	1947	8
Ordnance Survey Plan	1:10,000	1962	9
Ordnance Survey Plan	1:10,000	1969	10
Ordnance Survey Plan	1:10,000	1971 - 1976	11
Ordnance Survey Plan	1:10,000	1979	12
Ordnance Survey Plan	1:10,000	1992	13
10K Raster Mapping	1:10,000	2000	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2017	16

Historical Map - Slice A



Order Details

Order Number: 136611880_1_1
Customer Ref: E13043-1 ASDA Ferring
National Grid Reference: 508750, 103330
Slice: A
Site Area (Ha): 0.34
Search Buffer (m): 1000

Site Details

ASDA Ferring, Littlehampton Road, Ferring, BN12 6PN

Landmark[®]
11" 5/8" 14" 18" 22" 26" 30" 34" 38" 42" 46" 50" 54" 58" 62" 66" 70" 74" 78" 82" 86" 90" 94" 98" 102" 106" 110" 114" 118" 122" 126" 130" 134" 138" 142" 146" 150" 154" 158" 162" 166" 170" 174" 178" 182" 186" 190" 194" 198" 202" 206" 210" 214" 218" 222" 226" 230" 234" 238" 242" 246" 250" 254" 258" 262" 266" 270" 274" 278" 282" 286" 290" 294" 298" 302" 306" 310" 314" 318" 322" 326" 330" 334" 338" 342" 346" 350" 354" 358" 362" 366" 370" 374" 378" 382" 386" 390" 394" 398" 402" 406" 410" 414" 418" 422" 426" 430" 434" 438" 442" 446" 450" 454" 458" 462" 466" 470" 474" 478" 482" 486" 490" 494" 498" 502" 506" 510" 514" 518" 522" 526" 530" 534" 538" 542" 546" 550" 554" 558" 562" 566" 570" 574" 578" 582" 586" 590" 594" 598" 602" 606" 610" 614" 618" 622" 626" 630" 634" 638" 642" 646" 650" 654" 658" 662" 666" 670" 674" 678" 682" 686" 690" 694" 698" 702" 706" 710" 714" 718" 722" 726" 730" 734" 738" 742" 746" 750" 754" 758" 762" 766" 770" 774" 778" 782" 786" 790" 794" 798" 802" 806" 810" 814" 818" 822" 826" 830" 834" 838" 842" 846" 850" 854" 858" 862" 866" 870" 874" 878" 882" 886" 890" 894" 898" 902" 906" 910" 914" 918" 922" 926" 930" 934" 938" 942" 946" 950" 954" 958" 962" 966" 970" 974" 978" 982" 986" 990" 994" 998" 1002" 1006" 1010" 1014" 1018" 1022" 1026" 1030" 1034" 1038" 1042" 1046" 1050" 1054" 1058" 1062" 1066" 1070" 1074" 1078" 1082" 1086" 1090" 1094" 1098" 1102" 1106" 1110" 1114" 1118" 1122" 1126" 1130" 1134" 1138" 1142" 1146" 1150" 1154" 1158" 1162" 1166" 1170" 1174" 1178" 1182" 1186" 1190" 1194" 1198" 1202" 1206" 1210" 1214" 1218" 1222" 1226" 1230" 1234" 1238" 1242" 1246" 1250" 1254" 1258" 1262" 1266" 1270" 1274" 1278" 1282" 1286" 1290" 1294" 1298" 1302" 1306" 1310" 1314" 1318" 1322" 1326" 1330" 1334" 1338" 1342" 1346" 1350" 1354" 1358" 1362" 1366" 1370" 1374" 1378" 1382" 1386" 1390" 1394" 1398" 1402" 1406" 1410" 1414" 1418" 1422" 1426" 1430" 1434" 1438" 1442" 1446" 1450" 1454" 1458" 1462" 1466" 1470" 1474" 1478" 1482" 1486" 1490" 1494" 1498" 1502" 1506" 1510" 1514" 1518" 1522" 1526" 1530" 1534" 1538" 1542" 1546" 1550" 1554" 1558" 1562" 1566" 1570" 1574" 1578" 1582" 1586" 1590" 1594" 1598" 1602" 1606" 1610" 1614" 1618" 1622" 1626" 1630" 1634" 1638" 1642" 1646" 1650" 1654" 1658" 1662" 1666" 1670" 1674" 1678" 1682" 1686" 1690" 1694" 1698" 1702" 1706" 1710" 1714" 1718" 1722" 1726" 1730" 1734" 1738" 1742" 1746" 1750" 1754" 1758" 1762" 1766" 1770" 1774" 1778" 1782" 1786" 1790" 1794" 1798" 1802" 1806" 1810" 1814" 1818" 1822" 1826" 1830" 1834" 1838" 1842" 1846" 1850" 1854" 1858" 1862" 1866" 1870" 1874" 1878" 1882" 1886" 1890" 1894" 1898" 1902" 1906" 1910" 1914" 1918" 1922" 1926" 1930" 1934" 1938" 1942" 1946" 1950" 1954" 1958" 1962" 1966" 1970" 1974" 1978" 1982" 1986" 1990" 1994" 1998" 2002" 2006" 2010" 2014" 2018" 2022" 2026" 2030" 2034" 2038" 2042" 2046" 2050" 2054" 2058" 2062" 2066" 2070" 2074" 2078" 2082" 2086" 2090" 2094" 2098" 2102" 2106" 2110" 2114" 2118" 2122" 2126" 2130" 2134" 2138" 2142" 2146" 2150" 2154" 2158" 2162" 2166" 2170" 2174" 2178" 2182" 2186" 2190" 2194" 2198" 2202" 2206" 2210" 2214" 2218" 2222" 2226" 2230" 2234" 2238" 2242" 2246" 2250" 2254" 2258" 2262" 2266" 2270" 2274" 2278" 2282" 2286" 2290" 2294" 2298" 2302" 2306" 2310" 2314" 2318" 2322" 2326" 2330" 2334" 2338" 2342" 2346" 2350" 2354" 2358" 2362" 2366" 2370" 2374" 2378" 2382" 2386" 2390" 2394" 2398" 2402" 2406" 2410" 2414" 2418" 2422" 2426" 2430" 2434" 2438" 2442" 2446" 2450" 2454" 2458" 2462" 2466" 2470" 2474" 2478" 2482" 2486" 2490" 2494" 2498" 2502" 2506" 2510" 2514" 2518" 2522" 2526" 2530" 2534" 2538" 2542" 2546" 2550" 2554" 2558" 2562" 2566" 2570" 2574" 2578" 2582" 2586" 2590" 2594" 2598" 2602" 2606" 2610" 2614" 2618" 2622" 2626" 2630" 2634" 2638" 2642" 2646" 2650" 2654" 2658" 2662" 2666" 2670" 2674" 2678" 2682" 2686" 2690" 2694" 2698" 2702" 2706" 2710" 2714" 2718" 2722" 2726" 2730" 2734" 2738" 2742" 2746" 2750" 2754" 2758" 2762" 2766" 2770" 2774" 2778" 2782" 2786" 2790" 2794" 2798" 2802" 2806" 2810" 2814" 2818" 2822" 2826" 2830" 2834" 2838" 2842" 2846" 2850" 2854" 2858" 2862" 2866" 2870" 2874" 2878" 2882" 2886" 2890" 2894" 2898" 2902" 2

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

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

[illegible]

	Inactive Quarry, Chalk Pit or Clay Pit		Active Quarry, Chalk Pit or Clay Pit
	Hocks		Duckens
	Cott		Elkpus
			Tee
	Roofed Building		Gazed Roof Building
	Kipping Hedges		Archway
	Non-Continuous trees (un-symmetrical)		Continuous trees (un-symmetrical)
	Non-Continuous trees (symmetrical)		Continuous trees (symmetrical)
	Circular Pond		Semi pond
	Coastal Cove		Ranch
	Rough Grassland		Heath
	Direction of water flow		River Marsh
	Cause Drainage		Transpiration Station
	Flexibility Transmission Line		Anticipate (black)
	County Boundary (Geographical)		Flood Risk
	County & Civil Parish Boundary		
	Civil Parish Boundary		
	Active County & County for Boundary		
	London Borough Boundary		
	Symbol indicating point where boundary meeting changes		
BH	Burial House	P	Public House
BP DS	Boundary Point or Stone	PO	Post Office
CH, S	Capital Town	PC	Public Car Park
CL	Church	PH	Public House
CLN	Cliffing - common	Py	Pond
CP	Cliffing - Church Port	SD, SDr	Signal Box or Bridge
EAP	Electricity Pylon	SB, SB	Signal Box or Light
FB	Foot Bridge	Sp	Spring
GR	Grassland	Th	Tree
H	Habitat	TOP	Town or City
LC	Local Council	TOP	Town or City - Road
MH	Moor	U	Urgh
NH	National Heritage Site	W-H, W	Water Head, Water
NS	Natural Site	W	Wind
NIL	No Information	WP	Wind Pump

Legend		Alphabet	
	Contour		Contour
	Crest		Crest
	Dam		Dam
	Ditch		Ditch
	Drainage		Drainage
	Elevation		Elevation
	Fence		Fence
	Field		Field
	Forest		Forest
	Grassland		Grassland
	Highway		Highway
	Industrial		Industrial
	Lake		Lake
	Marsh		Marsh
	Mountain		Mountain
	Park		Park
	River		River
	Road		Road
	School		School
	Setback		Setback
	Shoreline		Shoreline
	Stream		Stream
	Tributary		Tributary
	Utility		Utility
	Water		Water
	Wetland		Wetland
	Zoning		Zoning

Mapping Type	Scale	Date	Page
Sussex	1:2,500	1876	2
Sussex	1:2,500	1897 - 1898	3
Sussex	1:2,500	1911	4
Sussex	1:2,500	1932	5
Ordnance Survey Plan	1:1,250	1960	6
Additional SIMs	1:1,250	1960 - 1980	7
Ordnance Survey Plan	1:2,500	1961 - 1972	8
Ordnance Survey Plan	1:1,250	1969	9
Ordnance Survey Plan	1:2,500	1970	10
Supply of Unpublished Survey Information	1:2,500	1974	11
Supply of Unpublished Survey Information	1:1,250	1974	12
Ordnance Survey Plan	1:1,250	1979	13
Additional SIMs	1:2,500	1983	14
Additional SIMs	1:1,250	1989	15
Additional SIMs	1:2,500	1993	16
Large-Scale National Grid Data	1:2,500	1994	17
Large-Scale National Grid Data	1:1,250	1994	18
Historical Aerial Photographs	1:2,500	1999	19

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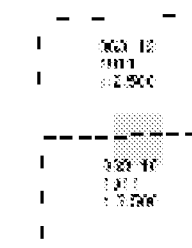
Sussex

Published 1911

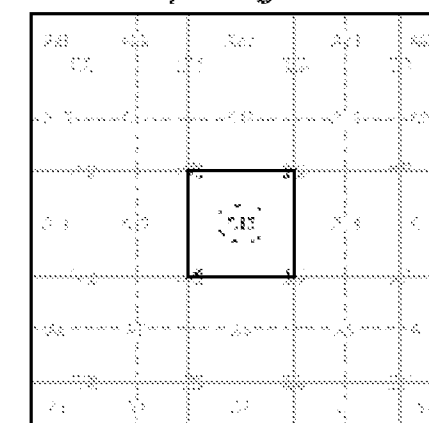
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

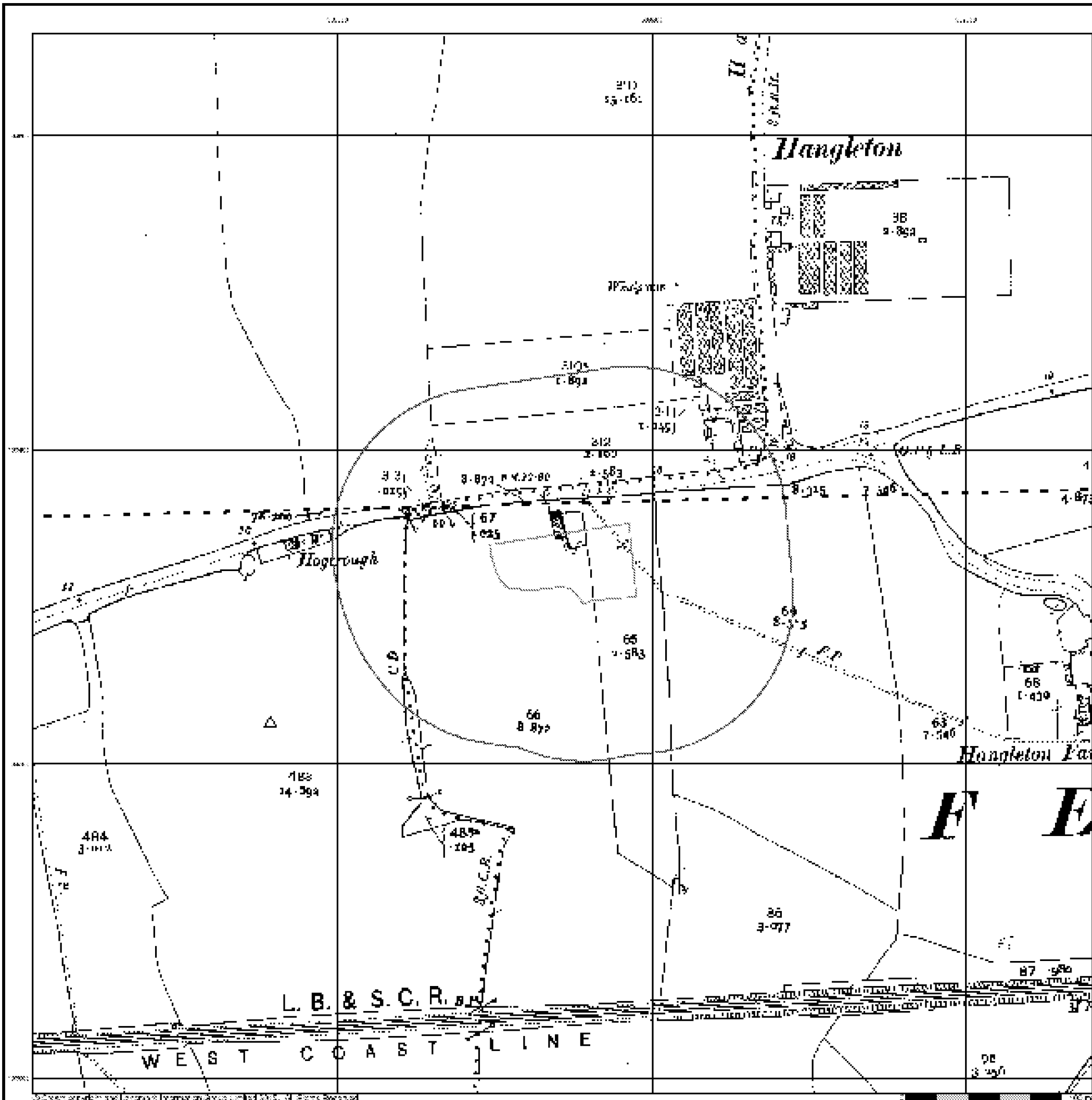


Order Details

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Site Details

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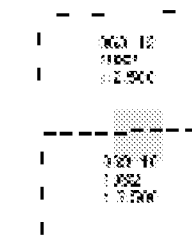
Sussex

Published 1932

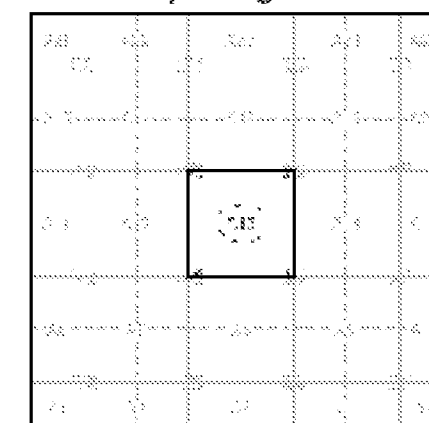
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

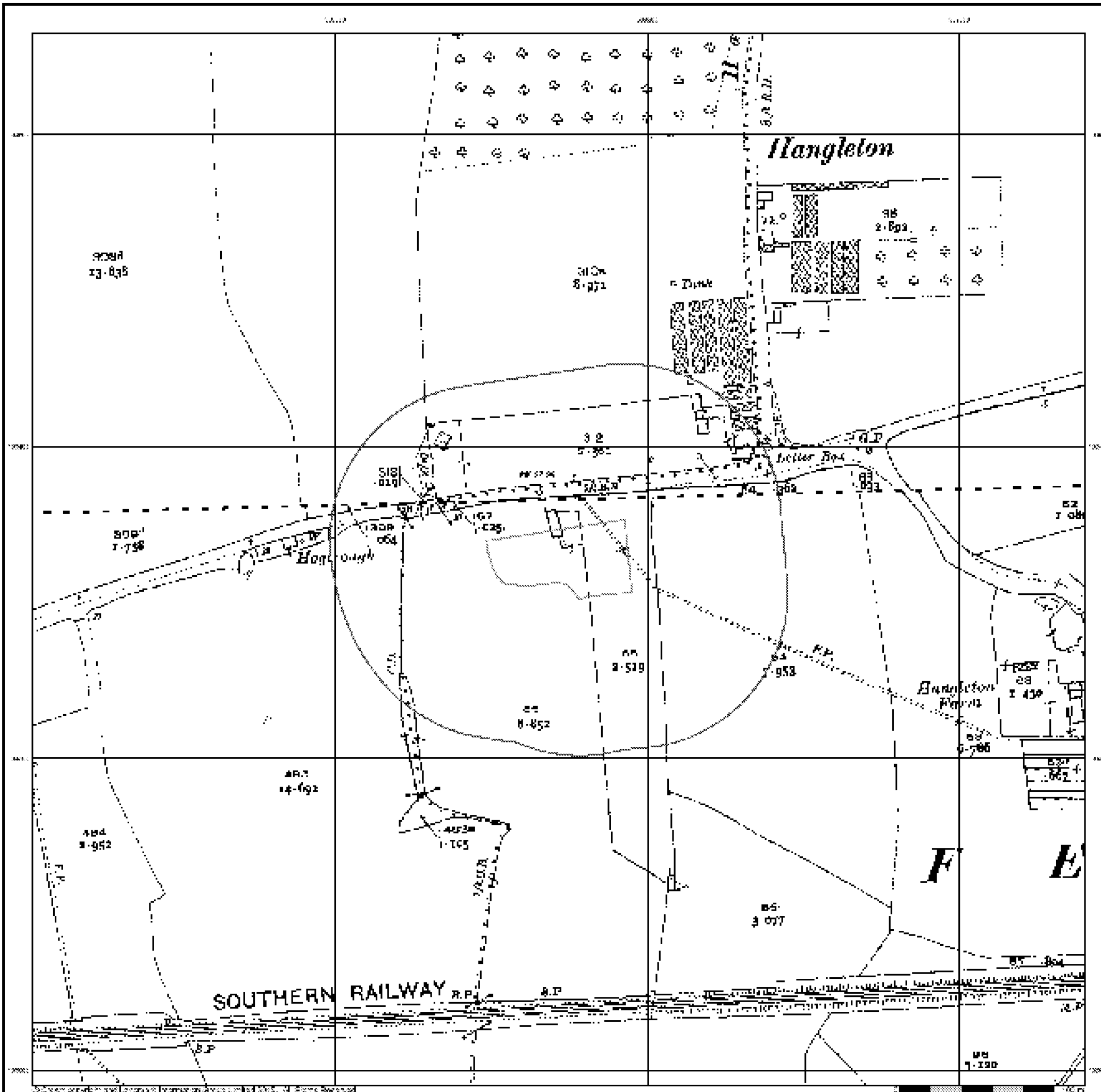


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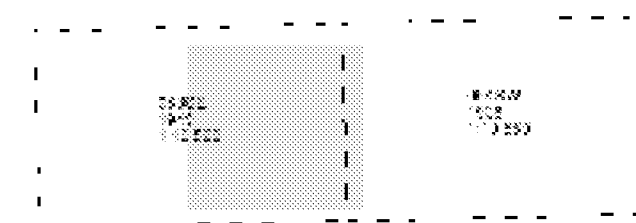
Sussex

Published 1938 - 1943

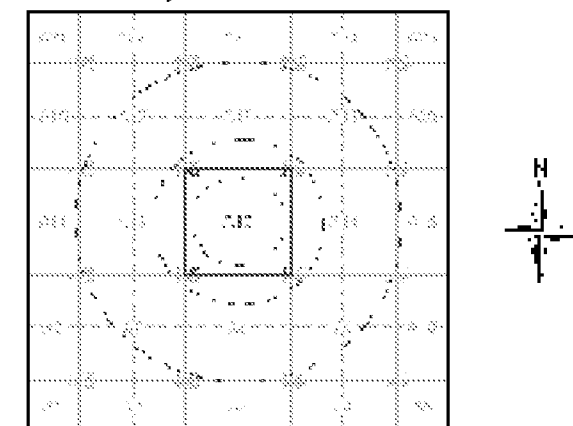
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

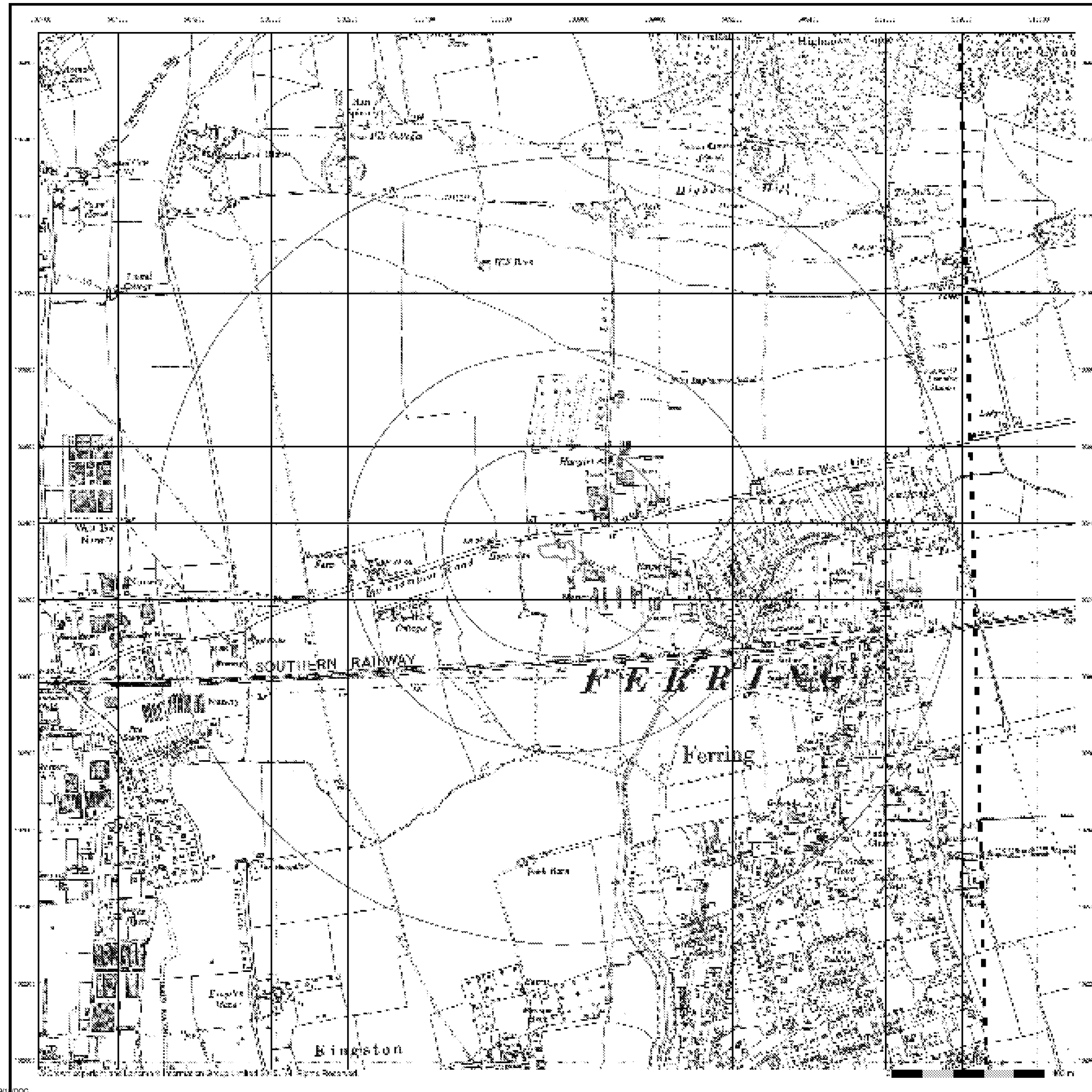


Order Details

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Site Details

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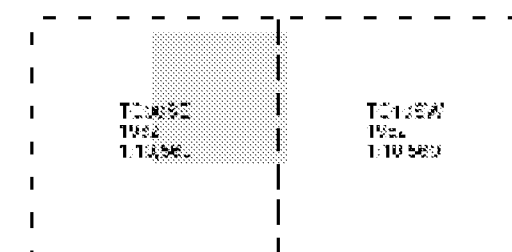
Ordnance Survey Plan

Published 1962

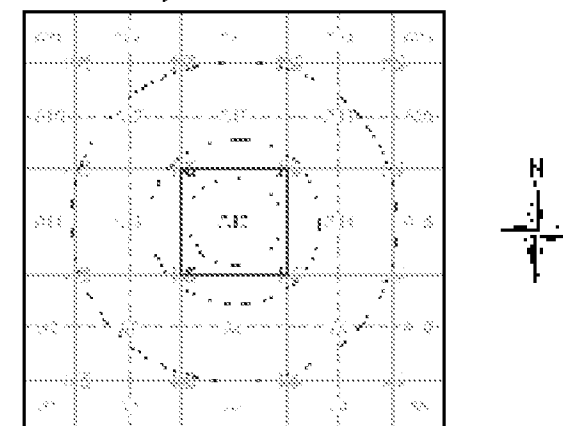
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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Site Details

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Ordnance Survey Plan

Published 1961 - 1972

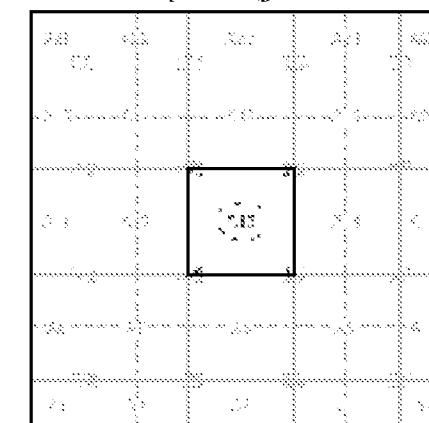
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

103330	103330
1961	1972
1:2500	1:2500

Historical Map - Segment A13

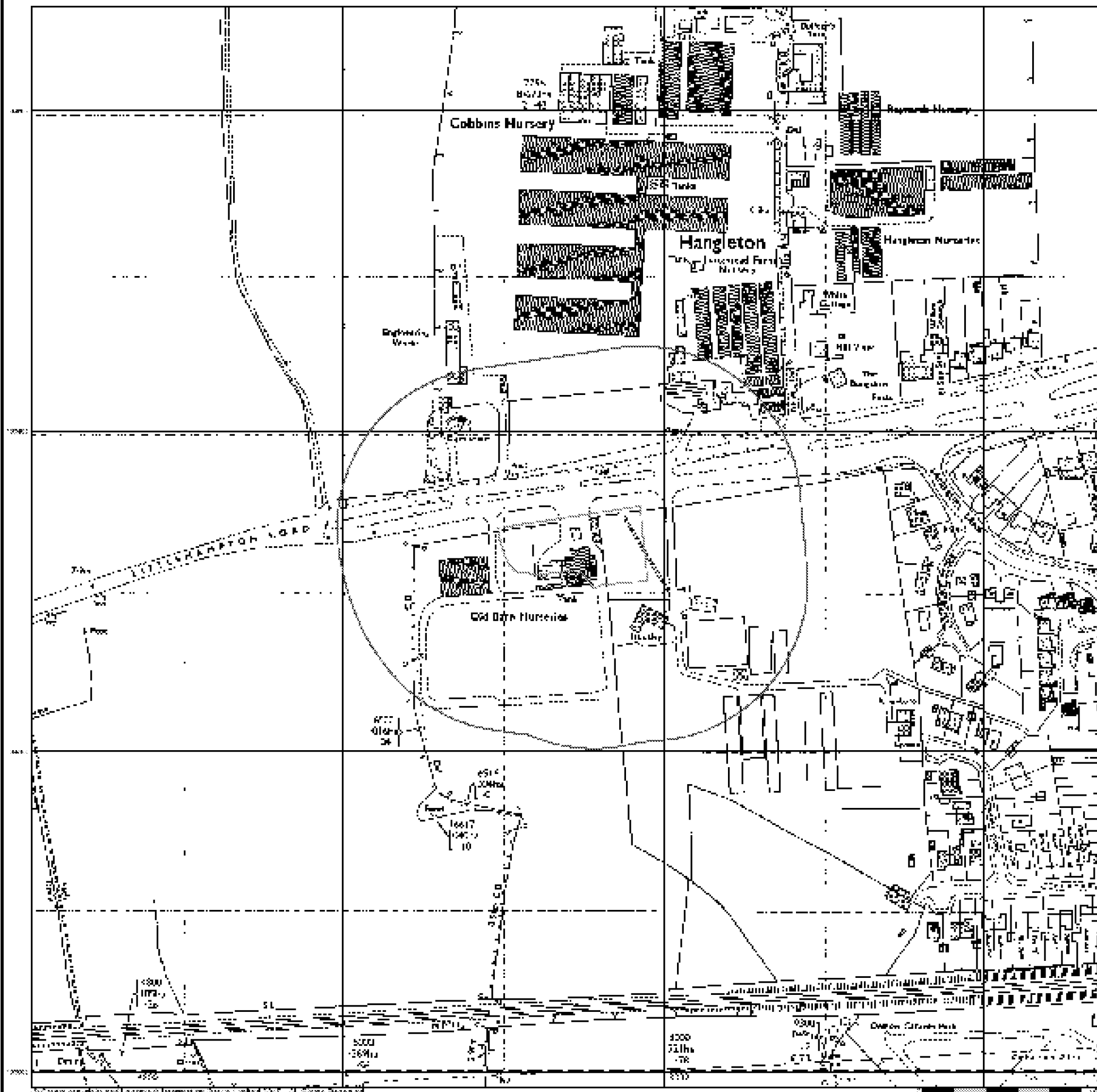


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Site Details

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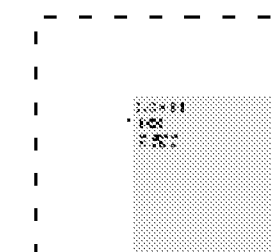
Additional SIMs

Published 1983

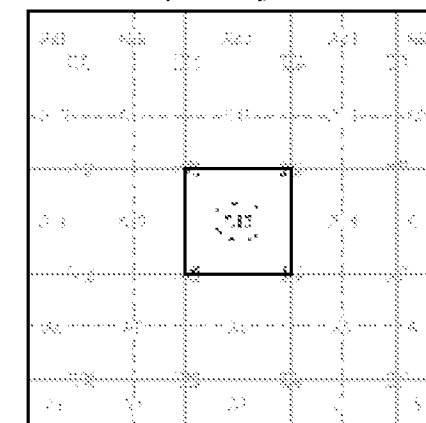
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

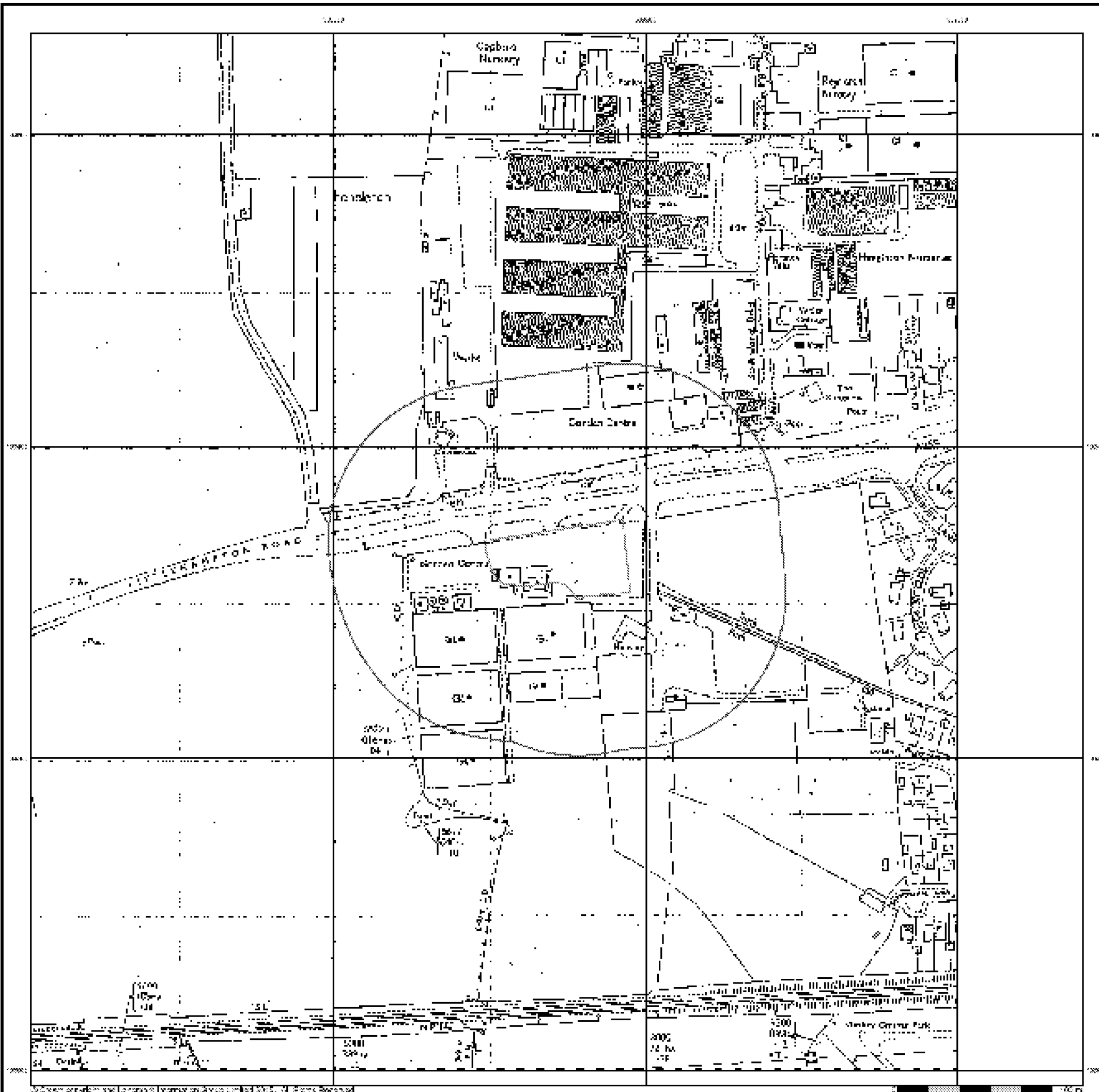


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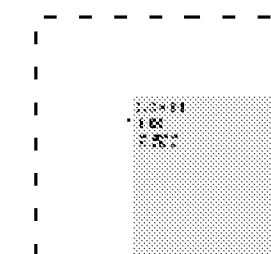
Additional SIMs

Published 1993

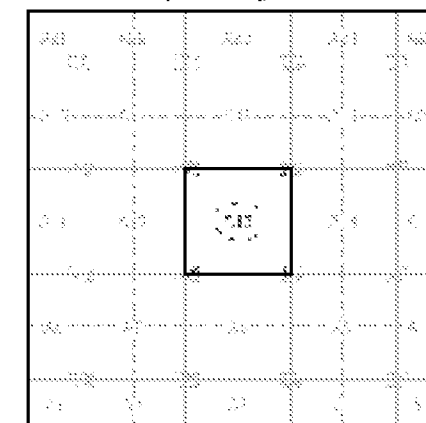
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

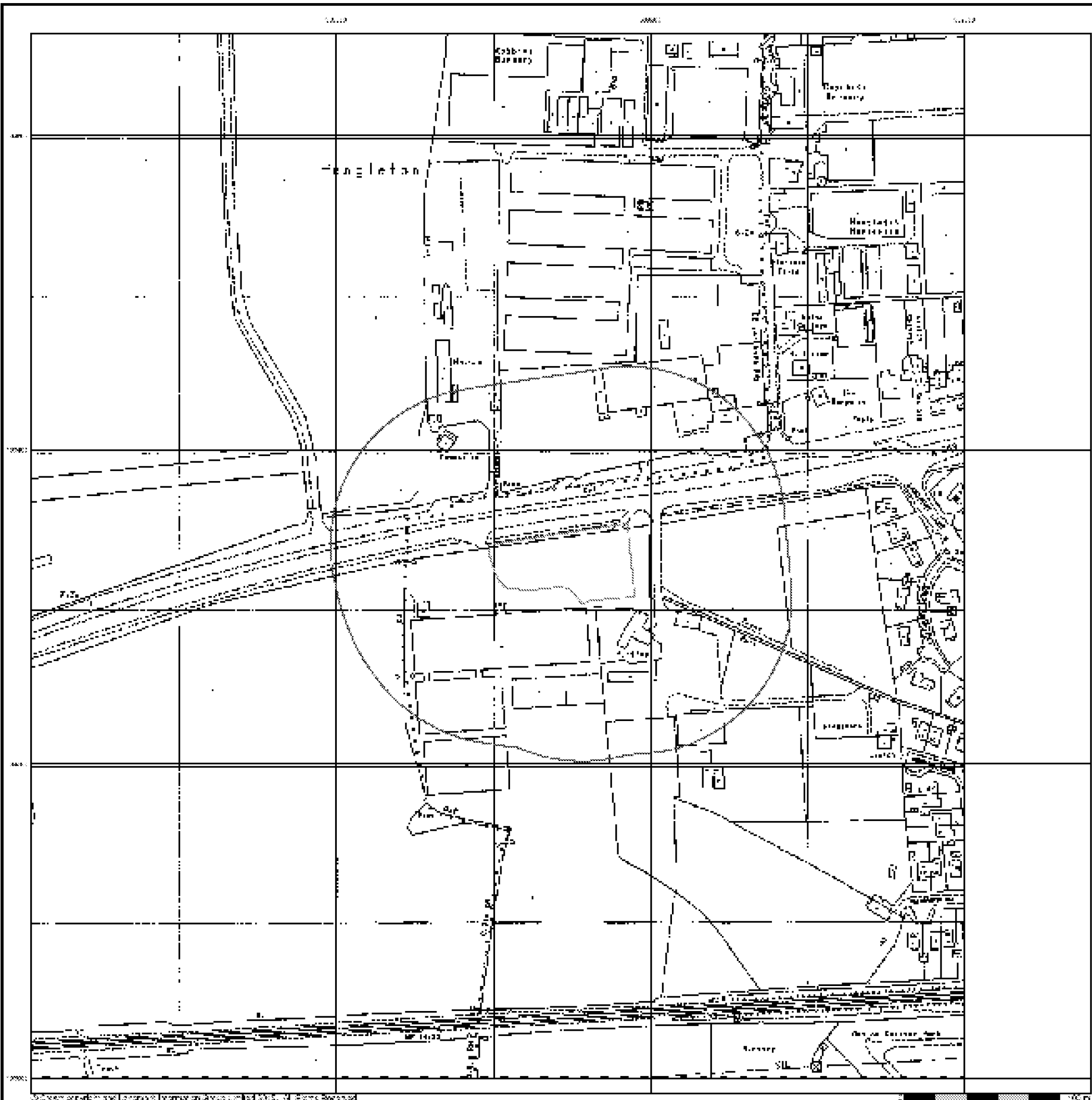


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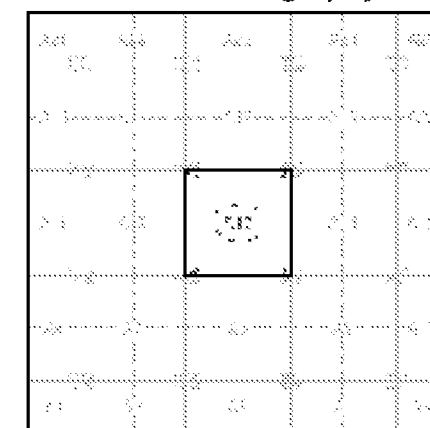


Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



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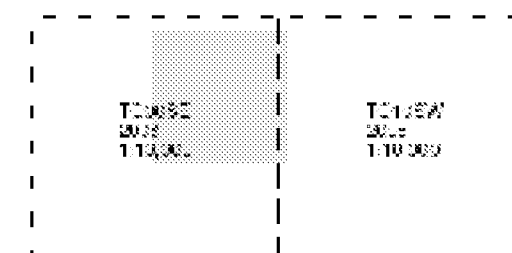
10k Raster Mapping

Published 2006

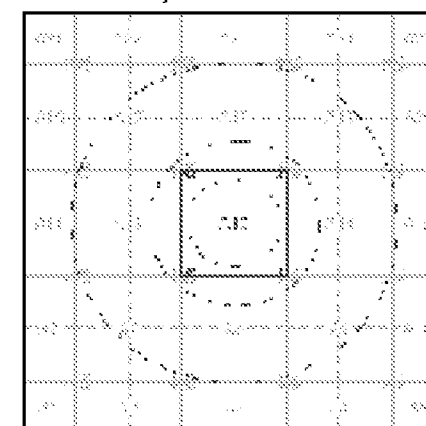
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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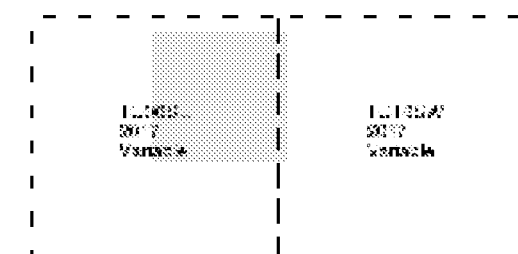
VectorMap Local

Published 2017

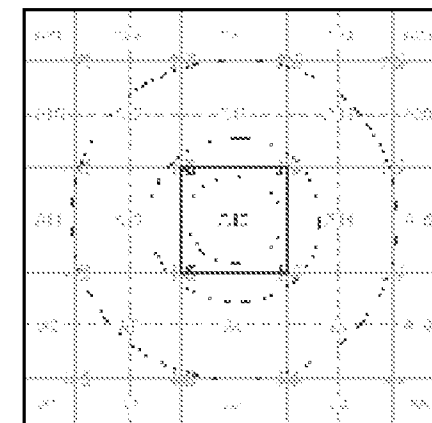
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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