Phase 1 Desk Study, Site Reconnaissance & Phase II Site Investigation Report

at Worthing Road Allotments, Littlehampton, BH17 6JP

for Persimmon Homes (Thames Valley) Ltd

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ARUN DISTRICT COUNCIL LU/263/20/DOC

TABLE OF CONTENTS

A INTRODUCTION 1

1 Authority 1

2 Objective 1

3 Previous Studies 1

4 Scope of Works 1

4.1 Phase 1 Scope 2
4.2 Intrusive Investigation Scope 2

5 Limitations 3

B PHASE 1 – Desk study 4

6 Environmental Setting 4

6.1 Site Location and Description 4
6.2 Geology 4
6.3 BGS Boreholes 5
6.4 Hydrogeology 5
6.5 Hydrology 6
6.6 Flooding 6
6.7 Designated Environmentally Sensitive Sites 6
6.8 Ground Workings 6
6.9 Mining, Extraction and Natural Cavities 6

7 Site Usage 7

7.1 Current Land Use 7
7.2 Evidence of Onsite Contamination 7
7.3 Neighbouring Land Use 7
7.4 Site History 7
7.5 Unexploded Ordnance (UXO) 9
7.6 Waste Planning and Landfill Records 9

8 Previous Investigations 9

8.1 Idom Merebrook Site Investigation letter report 9

C PRELIMINARY CONCEPTUAL SITE MODEL 11

9 Environmental Risk Assessment 11

9.1 Conceptual Site Model (CSM) 11
9.2 Sources 11
9.3 Receptors 12

ARUN DISTRICT COUNCIL LU/263/20/DOC

9.4 Pathways and Potential Contaminant Linkages 12
9.5 Qualitative Risk Assessment of Contaminant Linkages 12
9.6 Conclusions 13
D PHASE II - Intrusive Investigation 14
10 Investigation Rationale 14
11 Site Work 14
11.1 Date and Weather Conditions 14
11.2 Site Work Methods 14
11.3 Laboratory Analysis 15
12 Ground Conditions 15
E GEO-ENVIRONMENTAL APPRAISAL 17
13 Conceptual Site Model 17
14 Testing Strategy 17
14.1 Soil Sampling 17
15 Assessment Criteria 17
15.1 Human Health Assessment Criteria 17
16 Analytical Test Results – Soils 19
16.2 Asbestos 20
16.3 Herbicides 20
17 Risk Assessment 20
17.1 Human Health 20
17.2 Controlled Waters 21
18 Waste Disposal 21
19 Recommendations for Remediation 22
20 Validation of Remediation 22

APPENDIX A – Limitations

APPENDIX B – Figures

APPENDIX C – Site Photographs

APPENDIX D – Historic Maps and Environmental Database Searches

APPENDIX E – Qualitative Risk Assessment Model

ARUN DISTRICT COUNCIL LU/263/20/DOC

APPENDIX F – Trial Pit Logs

APPENDIX G – Chemical Laboratory Test Results

APPENDIX H – Soil Screening Tables

ARUN DISTRICT COUNCIL LU/263/20/DOC

EXECUTIVE SUMMARY

The site comprises a rectangular shaped grass covered open field which extends to about 0.45 hectares in size, and is situated to the north of Worthing Road (A259), Littlehampton, BN17 6JP It is proposed to redevelop the site as an allotment garden with 12 traditional plots, raised planters, car parking and a shop.

The site has a history of use as allotments. The desk study has identified limited potential sources of contamination associated with the site's former use. However, a previous site investigation did identify surficial soils with raised concentrations of some potential contaminants of concern including lead, and PAHs.

The site is mapped as being underlain by River Terrace Deposits over the Upper Chalk. Ground conditions comprise made ground / reworked ground to around 0.40-0.45 m depth over yellowish brown slightly gravelly CLAY. Groundwater was not encountered.

A geo-environmental risk assessment has been carried out. Contamination testing of the soils and groundwater identified lead at concentrations above soil screening criteria in eight out of thirteen soil samples tested, although these were limited to soil samples collected from ground level to 0.45 m depth. In addition, single exceedances of GAC for copper and benzo(a)pyrene were also recorded. Soil samples collected below 0.45 m did not record concentrations of potential contaminants of concern above screening criteria.

Recommendations are given for the remediation of contamination on the site. As a minimum, an allowance should be made for removal of the top 500 mm of soil and replacement with chemically compliant soils.

As with any redevelopment site, there is always the risk of hitherto undetected contamination, and inspection of the formation levels should be undertaken after removal of the top 500 mm.

ARUN DISTRICT COUNCIL LU/263/20/DOC

Signed :	 Martin Weil BSc MA C.WEM CSci CEnv
Countersigned :	 Richard Brinkworth BEng CEng MICE
Date :	12 October 2020
Revision:	Issue 1

A INTRODUCTION

1 Authority

Leap Environmental Ltd (hereafter referred to as LEAP) has been appointed by Persimmons Homes (Thames Valley) Ltd to provide additional verification testing on existing soils at land off Worthing Road Allotments, Littlehampton. This was as per the instruction to LEAP dated 03rd September 2020.

2 Objective

The work is required to support the discharge of condition 4 of permission LU/334/18/PL for the proposed extension to the existing allotments to include the provision of 12 new traditional plots, wheelchair accessible ground level and raised beds with onsite parking and a shop (comprising a shipping container). Condition 4 comprises four parts relating to contaminated land, with parts 1-3 comprising a preliminary risk assessment, site investigation scheme, and site investigation results with detailed risk assessment, respectively. Part 4 relates to verification of remediation (if required).

A site location plan and proposed development plans are provided as Figure 1 and drawing PHTV/U/16/XS/001 in Appendix B.

3 Previous Studies

The site has been subjected to a previous investigation, as listed below .

- Idiom Merebrook, *'Church Allotments, Littlehampton Site Investigation'* Letter Report dated August 2018

4 Scope of Works

This report describes a two stage process whereby the site is investigated and risks are assessed. The terms geotechnical and geoenvironmental are referred to throughout the report.

Geoenvironmental refers principally to the chemical nature of the ground and the degree of soil, water and/or land gas contamination and the impact that contamination may have on current or future development and also on the wider environment.

The investigation comprises two phases of work.

ARUN DISTRICT COUNCIL LU/263/20/DOC

4.1 Phase 1 Scope

The first part of this report presents the results of a desk study and site reconnaissance. It provides a review of previous site investigation and remediation validation reports, where they have been made available by the Client or where LEAP has been able to locate that information from third party sources. The previous reports referred to are detailed above. The following publicly accessible sources of information[1] have also been reviewed:

- British Geological Society (BGS) 1:50,000 Series Geological Map Sheet 317 & 322 '*Chichester and Bognor*' Solid and Drift ed. 1996
- Envirocheck database report (260998885)
- Unexploded WWII aerial delivered bomb (UXB) regional risk maps produced by Zetica
- Interrogation of Arun District Council Planning records for the site

A site reconnaissance was carried out on 21st August 2020.

The desk study and site reconnaissance have been used to develop an initial conceptual site model, which forms the basis for the site investigation strategy. The initial site conceptual model is used to identify geotechnical and geoenvironmental hazards and the qualitative degree of risk associated with them. In terms of the geoenvironmental assessment the conceptual site model is used to identify potential sources of contamination, potential receptors and pathways by which the two may be connected. These are known as possible contaminant linkages and it is these contaminant linkages that are key to contaminated land risk assessment.

The Phase I investigation is also referred to as a Preliminary Investigation[2].

4.2 Intrusive Investigation Scope

The Phase II work comprises intrusive investigation, onsite monitoring and laboratory analysis. The results of this and previous investigation reports are used to validate and/or update the initial site conceptual model. This phase of site investigation comprised the following tasks:

- 5 No. 0.40 m to 0.70 m hand dug pits; and
- Chemical Laboratory tests including 3 No. LEAP standard soil suite tests.

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[1] The report contains British Geological Survey materials ©UKRI 2020 and public sector information licensed under the Open Government Licence v3.0.

[2] BS 10175:2011+A2:2017 Investigation of Potentially Contaminated Sites – Code of Practice.

ARUN DISTRICT COUNCIL LU/263/20/DOC

The intrusive works were completed by contractors at the instruction of the Client.

Selected samples of soil were scheduled for laboratory testing for a wide range of potential contaminants including metals, non-metals, polycyclic aromatic hydrocarbons and asbestos. The laboratory testing has been carried out by Environmental Laboratory Ltd at its laboratories in East Sussex.

The final stage in the geoenvironmental assessment comprises a quantitative risk assessment and revision of the preliminary Conceptual Site Model. Preliminary recommendations for remediation have been provided, based on various development assumptions which are detailed in the following section and in the text of this report. The risk assessment has been carried out in accordance with UK industry standards and in particular in accordance with CLR11[3] and BS10175:2011+A2:2017.

5 Limitations

This report has been prepared by Leap Environmental Ltd on the basis of information received from a variety of sources which Leap Environmental Ltd believes to be accurate. Nevertheless, Leap Environmental Ltd cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

Leap Environmental Ltd has used all reasonable skill, care and diligence in the design and execution of this report, taking into account the manpower and resources devoted to it in agreement with the Client. Although every reasonable effort has been made to obtain all relevant information, all potential contamination, environmental constraints or liabilities associated with the site may not necessarily have been revealed.

The conclusions reached in this report are necessarily restricted to those which can be determined from the information consulted and may be subject to amendment in the light of additional information becoming available. These conclusions may not be appropriate for alternative schemes.

This report is confidential to the Client, and Leap Environmental Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Leap Environmental Ltd beforehand. Any such party relies upon the report at their own risk.

Full details of the limitations are provided in Appendix A.

[3] Environment Agency, 2004. Model Procedures for the management of land contamination. Contaminated Land Report 11.

ARUN DISTRICT COUNCIL LU/263/20/DOC

B PHASE I – DESK STUDY

6 Environmental Setting

6.1 Site Location and Description

The site is located to the north of Worthing Road (A259), Littlehampton, BN17 6JN as shown in figure 1. The site is approximately 0.45 hectares in size.

The approximate National Grid Reference of the site is 502960, 103470. The site lies at an estimated elevation of 5.8 m Above Ordnance Datum (m AOD).

6.1.1 General Description and Boundaries

The current site layout is shown in Figure 2, Appendix B. A walkover survey was carried out on 21st August 2020 and photographs are included within Appendix C.

The site comprised a large, level grass covered rectangular shaped field, a large storage container ~2.5 m wide by ~12.5 m long was present in the north east corner of the site. Small amounts of litter (plastic bottles and bags) were present along the western boundary and near to the site entrance in the south east of the site.

An access road is present along the full length of the eastern boundary and leads on to existing allotments to the north east of the site. Potholes are present throughout, some partially backfilled with brick rubble. A compacted earth track aligned southeast to north west provides access to allotments to the north and northwest. The northern boundary is formed by existing allotment plots the southern and western boundaries are formed by a chain-linked fence and hedgerows. The Worthing Road (A259) aligned east to west is located ~10 m beyond the southern boundary. The site is located in a predominantly residential setting, although land immediately to the north and east comprise the existing allotment site and land to the west is a public open space recreational ground, with a small play park and asphalt covered basketball court.

6.2 Geology

The geology of the site has been ascertained by reference to the 1:50,000 British Geological Survey sheet 317 & 322, solid and drift edition, the BGS website (www.bgs.ac.uk) and the Envirocheck report. The site is mapped as being underlain by superficial deposits of River Terrace Deposits (sand, silt and clay) over the bedrock of New Pit Chalk Formation mapped across the majority of the site with the bottom quarter mapped as Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (Undifferentiated). For ease of reference the chalk bedrock will be referred to as 'upper chalk' throughout this report.

ARUN DISTRICT COUNCIL LU/263/20/DOC

6.2.1 Drift

These sedimentary deposits are fluvial in origin. They are detrital, ranging from coarse- to fine-grained and form beds and lenses of deposits reflecting the channels, floodplains and levees of a river or estuary (if in a coastal setting).

6.2.2 Solid

Chalk is a very fine grained white limestone. It consists predominantly of the disaggregated skeletal remains of tiny planktonic algae, composed of almost pure calcium carbonate. These sedimentary rocks are shallow-marine in origin. They are biogenic and detrital, generally comprising carbonate material (coccoliths), forming distinctive beds of chalk.

6.3 BGS Boreholes

The online BGS Geoindex (http://www.bgs.ac.uk/geoindex/) has been reviewed for detailed local geological and hydrogeological information. There are no BGS historical boreholes mapped within 250 m of the site boundaries.

6.4 Hydrogeology

Table 1: Hydrogeology

Superficial Deposit	River Terrace Deposits	Secondary A Aquifer
Bedrock	Upper Chalk	Principal Aquifer
Source Protection Zone (SPZ)	None recorded on site	Nearest SPZII ~2.5km to southeast
Licensed Abstractions	14 distinct licences within 1000 m of the site. None within 250 m of the site	

The hydrogeology of the site has been ascertained from the Envirocheck data report. The source of the data is reported to be the Environment Agency groundwater vulnerability mapping.

The Envirocheck report records that the superficial and principal aquifer are of medium vulnerability.

The regional BGS hydrogeological map of the South Downs and Adjacent Parts of the Weald dated 1978 indicates groundwater in the chalk aquifer is at ~ 0 m AOD (i.e. ~6 m bgl).

Based on groundwater monitoring undertaken by LEAP in the vicinity of the site, groundwater within the Chalk Aquifer flows towards the southeast.

ARUN DISTRICT COUNCIL LU/263/20/DOC

6.5 Hydrology

There are no surface water features within the site or adjoining the site boundary.

The Envirocheck report lists the nearest surface water feature as an un-named feature, located 259 m to the east of the site. This is assumed to be a small surface water drainage ditch south of the west bound A259 carriage way.

The Envirocheck report indicates that there are no surface water discharge consents within 250m of the site.

6.6 Flooding

According to the Environment Agency, the site is not located within a flood zone associated with rivers or the sea. The Envirocheck report highlights that the site is in an area at risk of groundwater flooding of property situated below ground level. The western part of the site is highlighted as being at low to medium risk of surface water flooding[4].

6.7 Designated Environmentally Sensitive Sites

A review of designated environmentally sensitive sites presented within the Envirocheck report has been carried out.

The site is located within a Nitrate Vulnerable Zone. This is an area where water draining from the land can impact nitrate levels in surface water or groundwater.

6.8 Ground Workings

Four historical ground workings are reported by the Envirocheck report within 500m of the site. They relate to brickfields mapped at 75 m to northwest; 117 m to south; 241 m to the southwest; and 346 m to southeast. All are no longer recorded as operating.

6.9 Mining, Extraction and Natural Cavities

The Envirocheck report indicates the site is not situated within an area affected by coal mining.

No natural cavities are recorded within 1000 m of the site by the Envirocheck Report.

[4] https://flood-warning-information.service.gov.uk/long-term-flood-risk/map

ARUN DISTRICT COUNCIL LU/263/20/DOC

7 Site Usage

7.1 Current Land Use

The current site layout is shown in Figure 2, Appendix B.

The site is a rectangular shaped open field to the southwest of existing allotment gardens. Currently, the land is un-used.

There are no active contemporary trade directory entries on site reported in the Envirocheck report database search.

7.2 Evidence of Onsite Contamination

A walkover survey was carried out on 21st August 2020

There was no evidence of ground contamination at surface in the grassed field. However, the access road that bounds the site to the east comprised worn black top surfacing and, in some areas, potholes were backfilled with crushed bricks.

A large shipping container was present in the northeast of the site, the inside was not inspected, but it was presumed to hold equipment used for maintaining the existing allotment plots. Some wooden pallets and deck chairs were present on the eastern side of the container.

7.3 Neighbouring Land Use

The following features were identified as possible sources of contamination:

- Filling of potholes in the access road along eastern boundary

The Envirocheck report details no fuel stations within 250m of the subject site.

7.4 Site History

The contaminative and development history of the site has been ascertained with reference to the Ordnance Survey historical maps, contained within the Envirocheck report.

In summary, the land was mapped as open fields from 1876, from 1897 the site is mapped as allotment gardens until present.

7.4.1 Historical Map Evidence

The historical Ordnance Survey maps provided spanned the period from 1876 to present day at scales of 1:10,000, 1:2,500 and 1:1,250. The maps are included in full in Appendix D.

ARUN DISTRICT COUNCIL LU/263/20/DOC

Table 2: Summary of Historical Map Evidence

Year	On site	Surrounding area
1876	Open field	Open fields immediately to the north east, and west A road aligned east to west is mapped to immediate south. Boundaries of a brickyard mapped 80 m west and 120 m north. Residential dwellings ~280 m east, 220 m west, ~260 m southwest.
1897	Mapped as allotment gardens	Northern brickyard no longer present and mapped as orchard with greenhouses. A windmill (water pump) is mapped in the orchards. Allotment garden mapped ~50 m southwest. A school is mapped ~200 m southwest. A brickwork is mapped ~250 m southwest.
1912	No significant change	Orchard to the north is labelled as nursery and allotment gardens. Allotment ~50 m southwest is mapped as a brickfield.
1935	Footpath mapped in the central part of the site aligned east to west.	Residential developments mapped 60 m west; ~50 m southwest (over the brickfields). A brickfield is mapped ~120 m south.
1958-1969	No significant change	Further residential developments mapped ~ 70 m northwest. A recreation ground mapped adjacent to the west of the site. A poultry farm mapped ~ 180 m east of the site. Further residential development to the south. Allotment gardens mapped to the immediate northeast. Road immediately south of the site named as Worthing Road.
1959-1972	No significant change	No significant change
1970-1980	No significant change	Allotment gardens mapped to immediate north of the site. Poultry farms no longer mapped, as of 1980.
1977-1987	No significant change	No significant change
1994	No significant change	Further residential development ~240 m to the northeast.

ARUN DISTRICT COUNCIL LU/263/20/DOC

7.5 Unexploded Ordnance (UXO)

The risks from unexploded ordnance have been assessed in accordance with CIRIA guidance[5]. A non-UXO specialist preliminary screening assessment has been carried out. The risks have been assessed by considering firstly the likelihood of military activities on, or in the vicinity of the site as determined from the desk study and historical review. Secondly the risk of UXO has been assessed by reference to the unexploded WWII aerial delivered bomb (UXB) regional risk maps produced by Zetica.

The Zetica risk maps indicate a medium risk. Hence the overall risk of UXO is rated as medium.

7.6 Waste Planning and Landfill Records

7.6.1 Recorded Landfill Sites

The Envirocheck report contain details on areas of historic and active landfilling in the vicinity of the site.

The closest historical landfill is at Cornfield Close Caravan Site which ~318 m southwest of the site. It is recorded as receiving inert, commercial and household waste from 1960-1970. There are no other historical landfill records within 500 m of the site.

7.6.2 Waste Management Facilities

There are no licensed waste management facilities recorded within 250m of the site boundaries

7.6.3 Waste Transfer or Treatment Sites

There are no licensed waste transfer or treatment sites recorded within 250m of the site boundaries

8 Previous Investigations

The site has been the subject of 1 No. report undertaken by others, the findings of which are summarised below.

8.1 Idom Merebrook Site Investigation letter report

Idom Merebrook were commissioned to undertake an assessment of topsoil chemical quality at the site in 2018. They excavated 8 hand pits across the site to maximum depth of 0.30 m and collected soil samples for laboratory analysis. Eight soil samples were analysed for

[5] CIRIA C681 2009. Unexploded ordnance (UXO) - A guide for the construction industry

ARUN DISTRICT COUNCIL LU/263/20/DOC

commonly occurring contaminants of concern and the results screened against generic assessment criteria for allotment gardens and for phytotoxicity.

Merebrook reported five soil samples exceeding assessment criteria for lead, several PAHs including benzo(a)pyrene were detected above screening criteria and single exceedances of phytotoxicity assessment criteria for copper and zinc. Trial pit logs were not included within the report and no soil samples below 0.30m were collected for laboratory analysis. Also the laboratory test results reported DDT and its daughter compounds (DDD/DDE) at concentrations marginally above the analytical limits of detection (10 µg/l) in two soil samples tested. These results were not interpreted in the report.

Merebrook recommended that the top 600 mm of 'made ground' soil was removed and replaced with clean imported soils.

ARUN DISTRICT COUNCIL LU/263/20/DOC

C PRELIMINARY CONCEPTUAL SITE MODEL

9 Environmental Risk Assessment

9.1 Conceptual Site Model (CSM)

A risk based approach is used to assess contaminated or potentially contaminated land within the UK. For a potential risk to exist, there must be a contaminant linkage in place, i.e. there must be a source of contamination, a potential receptor, and a pathway linking the two.

In order to quantify the magnitude of the risk, it is necessary to first calculate the potential exposure of the receptor as a result of all the individual active contaminant linkages affecting that receptor. Secondly it is necessary to ascertain "what is an acceptable exposure level for each of the identified receptors and contaminants?". Various numerical models are available to aid in the assessment and these are discussed in more detail in section E below.

The purpose of the Conceptual Site Model, in this instance, is to identify all of the potential contaminant linkages by considering, in turn, the potential sources, receptors and pathways.

9.2 Sources

9.2.1 Onsite Sources

Based on a review of the available site information, the following contaminants of concern are proposed:

Table 3: Onsite sources of contamination

Source	Contaminants of Concern
Near surface soils (GL to 0.30 m)	Lead, PAHs, and phytotoxic concentrations of copper and zinc

The previous investigation indicated that near surface soils were impacted with lead, PAHs and phytotoxic contaminants of concern. Deeper soil samples were not collected to confirm the extent of the land contamination. The historical use of the site as allotments could have resulted in previous land users burning materials on site or addition of hearth ash to supplement the ground. Also the site is next to the A259 and historical traffic emissions may also have impacted near surface soils.

9.2.2 Offsite Sources

The desk study has highlighted the following potential off site sources of contamination:

ARUN DISTRICT COUNCIL LU/263/20/DOC

Table 4: Offsite sources of contamination

Source	Distance from Site (m)	Contaminants of Concern
Access road, worn surface and infilled potholes	0 m to east	PAHs

The access road to the east of the site is not considered significant, risk to the adjacent allotment gardens on the basis that the new allotment gardens will not be in direct contact with the existing surfacing material. Deposition of windblown dusts is not considered to be significant, and a shallow groundwater was not identified.

9.3 Receptors

Potential receptors are those which may be impacted by any of the contaminants of concern identified above, and include the following:-

- Future allotment users
- Construction workers
- Groundwater – Secondary A Aquifer

9.4 Pathways and Potential Contaminant Linkages

The development will include new allotment gardens. The following potential contaminant linkages involving allotment users and soil contaminants will be active i.e. direct ingestion of soil, ingestion of soil attached to plants as well as via plant uptake, inhalation of outdoor vapour and dust. Land gas risk to buildings is not considered active as the 'shop' will consist of a shipping container on hardstanding with an air gap beneath the floor and the hardstand.

Ground workers are at risk as a result from all of the above, except for those involving edible plants.

The site is underlain by a secondary A and principal aquifer of medium vulnerability. Hence there is a potential pathway for leachate from soil contaminants and for mobile liquid contaminants to enter the groundwater. The water table is anticipated to be at ~6.0 m bgl.

9.5 Qualitative Risk Assessment of Contaminant Linkages

Risk levels within the preliminary CSM are determined on a qualitative basis following review of the available desk-based information. The significance of particular contaminant linkages is dependant both upon the severity and likelihood of the risk. These two factors are summarised in the following tables.

ARUN DISTRICT COUNCIL LU/263/20/DOC

The potential contaminant linkages are summarised in the table appended in Appendix E and given a qualitative risk classification in accordance with current guidance.

9.6 Conclusions

The following contaminant linkages are rated as medium-high and are considered further in Section E.

Table 5 Contaminant Linkages QRA Summary

Source	Contaminants of Concern	Comments
Near surface soils	Lead, benzo(a)pyrene, phytotoxic concentrations of copper and zinc	

The previous ground investigation indicated that near surface soils were impacted with lead and PAHs above generic assessment criteria for allotment land use. The previous investigation did not confirm the depths of lead and PAH impacted soils. Low concentrations of DDT/DDD/DDE were also detected in two near surface soil samples.

Limited further investigation is required to confirm that the proposed 600 mm depth of 'made ground' removal is appropriate.

ARUN DISTRICT COUNCIL LU/263/20/DOC

D PHASE II - INTRUSIVE INVESTIGATION

10 Investigation Rationale

A total of 5 additional hand excavated trial holes were excavated across the site. The trial holes were non-targeted to give general coverage, taking into consideration the proposed development and the potential geoenvironmental risks highlighted by the CSM in accordance with BS10175. In particular, the trial holes were extended to ~0.70 m to confirm the ground conditions.

The site investigation locations are shown on Figure 3, Appendix B.

Given the contamination identified previously, it was decided to focus on lead, with limited testing for other heavy metals and speciated PAHs.

11 Site Work

11.1 Date and Weather Conditions

The intrusive investigations were undertaken in a single phase on 23rd September 2020. At the time of the investigations, the weather was variable a mix of sunshine and showers.

11.2 Site Work Methods

11.2.1 Hand Pitting

Hand pits were excavated using hand tools. Spoil was placed on plastic sheeting to prevent cross contamination and was reinstated in reverse order.

11.2.2 Soil Logging and Sampling

Soil samples were recovered from the trial pits for field screening, logging and sampling.

Trial pits were logged in general accordance with the requirements of BS 5930:[6] and BS EN ISO 14688[7]. Borehole logs are presented in Appendix F.

[6] BS5930:2015+A1:2020 Code of Practice for Ground Investigation

[7] BS EN ISO 14688 Parts 1-2 (2018) Geotechnical Investigation and Testing. Identification and classification of soil

ARUN DISTRICT COUNCIL LU/263/20/DOC

Visual and olfactory evidence of contamination was noted if encountered. These observations were used to aid scheduling of samples for chemical laboratory analyses, and are included on the trial pit logs in Appendix F and summarised in Section 12.

Samples were collected with a clean sampling trowel or by hand (using dedicated nitrile gloves for each sampling location). Samples were placed into laboratory supplied sampling containers, specific to the type of analyses required.

All sample containers were sealed and labelled with a unique location identity, depth and date of sampling.

11.2.3 Field Vane Test

In-situ field vane tests were undertaken in cohesive soils in the trial pits in accordance with BS EN ISO 22476-9 (Draft). The results are recorded on the trial pits logs in Appendix F.

11.3 Laboratory Analysis

11.3.1 Chemical Soil Analysis

Selected samples of soil have been subjected to laboratory testing. Sampling techniques and storage have been undertaken as per BS 10175:2011+A2:2017 Code of Practice for Investigation of Potentially Contaminated Sites. The laboratory testing has been carried out by The Environmental Laboratory Ltd at its laboratories in East Sussex. Where available, the tests procedures are UKAS and MCERTS accredited.

The following analyses were completed on selected samples:-

- LEAP standard Soil suite (metals, speciated PAHs, asbestos)

The full laboratory test results are presented in Appendix G.

12 Ground Conditions

The ground conditions are described in detail in the logs attached in Appendix F. In summary the soil conditions were as follows:

Table 6: Summary of soils encountered

Depth From (m)	Depth To (m)	Soil Type	Description
GL	0.15 / 0.40	**TOPSOIL**	Grass over brown slightly sandy gravelly clay TOPSOIL.
0.15	0.43	**MADE GROUND**	MADE GROUND of grey brown clayey GRAVEL. A black peaty, gravelly layer from 0.35 to 0.43. Made ground in TP1, only.

ARUN DISTRICT COUNCIL LU/263/20/DOC

0.15 / 0.20	0.30/0.45	**CLAY**	REWORKED GROUND stiff pale brown to grey brown slightly gravelly CLAY with sub angular to sub rounded flint, sub rounded chalk gravel and rare brick fragments.
0.30/0.45	0.50/0.70	**CLAY**	Stiff pale yellow to orange-brown slightly gravelly CLAY. Gravels are fine to medium sub-angular to sub-rounded flints.

No significant signs of land contamination were noted in any of the exploratory hole positions, with the exception of TP1, where a very gravelly clay layer was noted to 0.35 m over a black peaty gravelly layer. All other positions were described as topsoil over re-worked soils, over natural ground.

12.1.1 Groundwater

Groundwater was not encountered in any location.

12.1.2 Visual and Olfactory Evidence of Contamination

Visual and olfactory evidence of contamination noted during the investigation works is summarised in the following table.

Table 7: Summary of Visual and Olfactory Evidence

Hole ID	Depth (m)	Olfactory Evidence	Visual Evidence	PID Readings (VOC in ppm)
TP 1	0.35-0.43	None	Black peaty layer	n/a

ARUN DISTRICT COUNCIL LU/263/20/DOC

E GEO-ENVIRONMENTAL APPRAISAL

13 Conceptual Site Model

The preliminary conceptual site model has identified a number of potential contaminant linkages.

On-site sources of contamination likely to impact the site include lead and PAH contamination in surficial soils.

These sources are considered to pose a moderate to human receptors and a low / moderate risk to controlled waters.

No significant off site sources were noted.

14 Testing Strategy

14.1 Soil Sampling

Trial hole locations were spread evenly across the site to provide even, non-targeted coverage.

15 Assessment Criteria

15.1 Human Health Assessment Criteria

The generic quantitative risk assessment (GQRA) for human health compares the analytical results from the current investigation to Generic Assessment Criteria (GAC). These were selected using the following rationale and assumptions.

Defra and the EA have published a limited number of Soil Guideline Values (SGVs)[8] that represent minimal chronic risk to human health. CL:AIRE has published a limited number of Category Four Screening Levels (C4SLs)[9] which represent a low but still strongly precautionary level of chronic risk to human health. Both the SGVs and C4SLs have both

[8] Environment Agency Science Report SC050021 series.

[9] CL:AIRE Final Project Report. SP1010 – Development of Category 4 Screening Levels for assessment of land affected by contamination. CL:AIRE, December 2013

ARUN DISTRICT COUNCIL LU/263/20/DOC

been derived for a Soil Organic Matter (SOM) content of 6%, which is not always representative of the low SOM that are encountered within Made Ground on brownfield sites.

LQM responded to the demand for a more comprehensive set of screening values for a wider range of SOM and produced Suitable for Use Levels (S4ULs)[10] which are a hybrid of SGVs and C4SLs. The S4ULs have been endorsed by the Chartered Institute of Environmental Health (CIEH).

LEAP uses C4SLs where they are available as generic assessment criteria to quantitatively assess the potential chronic risks to human health . Where C4SLs are not available, the S4ULs are used. It is noted that S4ULs are not equivalent to C4SLs in all their exposure assumptions but are generally more conservative in their assumptions. For benzene and benzo(a)pyrene), LEAP has calculated equivalent C4SLs for 1% and 2.5% SOM. This does not affect the inorganic contaminants.

In accordance with current Public Health England (PHE) guidance[11], the assessment of PAHs has been carried out using a surrogate marker approach, whereby the assessment of risk from benzo(a)pyrene also captures potential risks from other carcinogenic PAHs that may be present. The alternative S4ULs for PAHs using the Toxic Equivalent Factor (TEF) approach have not been used because this approach is likely to under predict the true carcinogenicity of PAHs and is not advocated by PHE. The threshold PAHs have been assessed similarly, by using naphthalene as a marker compound due to its high volatility relative to other PAHs.

Theoretical soil saturations have not been considered in the evaluation of organic compounds and as such, some of the S4ULs for the less sensitive exposure scenarios are lower than their more sensitive equivalents.

Sets of GACs have been generated for SOMs of 1%, 2.5% and 6%. In this case, TOC in the near surface soil samples (GL to 0.45 m) that were analysed ranged from 3.3 to 7.9%. Using the conversion of SOM = TOC x 1.72, this equates to a SOM range of 5.6 to 12%. A value of 6% SOM was considered to be appropriate for the made ground / reworked soil.

For some contaminants of concern, direct contact will be the dominant pathway for exposure. In order to support with development options, human exposure to all unsaturated soils, irrespective of depth, was assumed possible for the purpose of this assessment. This will maximise the information available to the design team on the suitability of all unsaturated material and can support with their materials management options.

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[10] The LQM/CIEH S4ULs for Human Health Risk Assessment, Nathaniel P et al, 2015. Copyright Land Quality Management Ltd, reproduced with permission: Publication Number S4UL3509

[11] HPA Contaminated Land Information Sheet. Risk Assessment Approaches for Polycyclic Aromatic Hydrocarbons (PAHs). Public Health England, 2017.

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Potential risks to human health from soil gases are assessed in Section 33.3.

16 Analytical Test Results – Soils

For the purpose of the assessment both the earlier Idom Merebrook laboratory test results and this later round of testing have been included in the assessment.

The soil samples have been subdivided into two populations representing made ground / re-worked soils and natural soils

16.1.1 Reworked and made ground soils (GL to 0.45 m)

In total, thirteen exploratory holes were excavated across the site during both phases of site investigation and selected samples were scheduled for laboratory analysis.

The test results have been screened against published generic assessment criteria (GAC) for allotment land use and the results presented in Appendix H. A summary of the potential contaminants at concentrations (PCoC) above GAC are summarised in the table below:

Table 8: Summary of Made Ground/Reworks soil test results (GL to 0.45m)

Determinant	Arithmetic Mean (mg/kg)	Number of samples	Tier 1 Generic Assessment Criteria Allotment land use (mg/kg)	Samples which exceed GAC (including outliers)
Benzo(a)pyrene	2.5	9	5.7	TP1 0.35 8.8 mg/kg
Copper	104	9	520	MTP8 0.2-0.3 560 mg/kg
Lead	107	13	80	MTP1 0.2-0.3 100 mg/kg MTP4 0.1-0.2 150 mg/kg MPT5 0.2-0.3 92 mg/kg MTP6 0.0-0.1 230 mg/kg MTP8 0.2-0.3 120 mg/kg TP1 0.35 171 mg/kg TP3 0.30 138 mg/kg TP4 0.45 91.1 mg/kg

ARUN DISTRICT COUNCIL LU/263/20/DOC

Lead was the most prevalent potential contaminant of contaminant of concern identified at concentrations above GAC with eight out of thirteen samples at concentrations above 80mg/kg. Lead and benzo(a)pyrene were also recorded at elevated concentrations, but only in single locations.

16.1.2 Natural Soils (below 0.45 m)

Three soil samples were collected from depths between 0.60 and 0.65 m bgl. The laboratory analysis did not detect potential contaminants of concern at concentrations above the adopted GAC.

16.2 Asbestos

Across both phases of investigation eight soil samples tested were screened for the presence of asbestos containing materials and/or loose asbestos fibres. Asbestos was not detected in any of the soil samples tested.

16.3 Herbicides

Only DDT and its daughter compounds DDE and DDT were detected at concentrations above LOD by Merebrook. There are no UK published GAC for these compounds. In the absence of a UK based screening criteria the lowest concentration of published international standards[12] have been adopted as a conservative assessment, namely the Dutch intervention value of 1.7 mg/kg (for a residential land use). The reported concentrations were appreciably lower than the adopted screening values, by at least an order of magnitude, (DDT reported at between 54 and 98 µg/kg).

17 Risk Assessment

17.1 Human Health

The works carried out to date have indicated that the near surface soils from ground level to ~0.45 m depth are impacted by lead concentrations that may pose a risk to allotment users. Discrete soil samples also recorded elevated concentrations of benzo(a)pyrene and copper at concentrations that may pose a risk to human health in surficial soils, but test results suggest more localised land contamination for these PCoC. Soils below 0.45 m depth were not found to pose a risk to future land users.

---

[12] MFE New Zealand Soil Guidance Values 2016; Western Australia Health Investigation Levels 2010; Dutch Intervention Values 2009; TRRP 2019 PCL Tables Residential Soils 0.5 acres; and Canada (CAREX Canada) Government of British Columbia's Contaminated Sites Regulation 2017;[12]

ARUN DISTRICT COUNCIL LU/263/20/DOC

The shallow contaminated ground is considered to pose an unacceptable risk if it is to be retained in the near surface allotment areas where direct human contact and ingestion of soil and home grown vegetables is feasible.

Some remediation to mitigate risks to human health from lead, copper and benzo(a)pyrene in made ground / reworked soils will be required in order to provide a site that is suitable for the proposed end-use.

At this stage, allowance should be made for removal of existing made ground and reworked soils to 500 mm depth; inspection of the formation level; and importation of suitable clean cover.

17.2 Controlled Waters

17.2.1 Groundwater

Specific laboratory testing has not been carried out as part of this investigation to enable a detailed quantitative risk assessment in respect of groundwater The measured levels of potential contaminants within the made ground / reworked soils are generally low, with only copper, lead and benzo(a)pyrene contamination recorded at levels considered to pose a risk to human health in soils up to 0.45 m deep.

Laboratory testing of soils at 0.60-0.65 m did not record PCoC at concentrations posing a risk to human health and in natural soils concentrations of arsenic, cadmium, copper, mercury, nickel, lead and benzo(a)pyrene were less than normal background concentrations for UK soils.

Following made ground / reworked soil removal there will no longer be a potential soil source that poses a risk to controlled waters.

18 Waste Disposal

It is anticipated that the proposed development will generate waste soils and materials will need to be removed from site as part of the construction process.

Where soils are to be disposed off-site, it is the duty of the waste producer, to ensure that all waste is disposed of appropriately and that any that is sent to landfill is sent to an appropriately licensed one. All waste sent to landfill must be classified and must be pre-treated. There are various forms of pre-treatment that are acceptable. In this case it could include "reduction in volume", which could be achieved by segregating the Made Ground and re-using part of it on site.

ARUN DISTRICT COUNCIL LU/263/20/DOC

Where made ground soil is to be re-used on site then it is recommended that this is carried out under the CL:AIRE Definition of Waste Industry Code of Practice (DoWCoP) for re-use of soils[13].

It is strongly advised that detailed discussions be held with remediation/groundworks contractors and that receiving landfill sites are identified in advance of commencing any waste removal.

19 Recommendations for Remediation

As set out in S17.1 it is recommended that made ground / reworked soils are removed from across the proposed new allotment area to 500 mm below existing ground levels. This will meet the objective of providing a site that is suitable for the proposed end-use and will not cause harm from land contamination for the proposed end-users. After soil removal the ground should be inspected by a competent environmental consultant with limited testing of the formation level as necessary. Results of the further testing should be screened against generic assessment criteria for allotment use. If verification tests fail screening criteria further soil removal may be required.

Provided that no additional PCoC are at concentrations above GAC then the site levels will be raised by 500 mm with chemically compliant fill material.

20 Validation of Remediation

The remedial works will be validated by the inspections and further testing as necessary, prior to the importation of the chemically suitable fill material. At this stage we understand that the developer proposes to import 100 mm thickness of manure to cover the base of the allotment plots prior to raising levels by a further 400 mm of topsoil.

Chemical test certificates will be required prior to placement of the fill material. Following the placement, it is recommended that five hand pits are excavated across the allotment plots to confirm the thickness of the fill material and collection of additional soil samples for *insitu* verification at a rate of 1:450 m^3 material. Long term monitoring is not proposed.

A verification report shall be prepared in accordance with government guidance[14].

---

[13] The Definition of Waste: Development Industry Code of Practice. Version 2 2011. CL:AIRE

[14] https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm/lcrm-stage-3-remediation-and-verification#RS-report

ARUN DISTRICT COUNCIL LU/263/20/DOC

APPENDIX A – Limitations

Limitations

LIMITATIONS

This report is confidential to the Client, and Leap Environmental Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Leap Environmental Ltd beforehand. Any such party relies upon the report at their own risk. Unless explicitly agreed otherwise in writing, this report has been prepared under LEAP's standard terms and conditions, as included in the quotation for this works.

This report has been prepared by Leap Environmental Ltd on the basis of information received from a variety of sources which Leap Environmental Ltd believes to be accurate. Nevertheless, Leap Environmental Ltd cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

Leap Environmental Ltd has used all reasonable skill, care and diligence in the design and execution of this report, taking into account the manpower and resources devoted to it in agreement with the Client. Although every reasonable effort has been made to obtain all relevant information, all potential contamination, environmental constraints or liabilities associated with the site may not necessarily have been revealed. LEAP cannot be held responsible for any disclosures or changes in regulation that are provided post production of this report, and will not automatically update the report.

The conclusions reached in this report are necessarily restricted to those which can be determined from the information consulted, and may be subject to amendment in the light of additional information becoming available. These conclusions may not be appropriate for alternative schemes.

The extent of the exploratory holes, laboratory testing and monitoring undertaken may have been restricted due to a number of factors including accessibility, the presence of buried or overhead services, current development and site usage, timescales or clients specification. The exploratory holes only assess a small proportion of the site area with respect to the site as a whole, and as such may only provide an overall assessment of ground conditions on site. The presence of hotspots of undisclosed contamination or exceptional and unforeseen ground conditions cannot be discounted.

Eurocode 7 gives guidance on the type of sampling, sample quality, number and spacing of intrusive investigations, and number of laboratory tests required. It is intended that the Geotechnical Information section of this report will fulfil the general requirements of the Ground Investigation Report as set out in section 6 of Eurocode7[15], although this is subject to the restrictions imposed on the investigation as listed above. For geotechnical design, Eurocode 7 requires the Geotechnical Design Report to address both the geotechnical and

[15] BS EN 1997 Eurocode 7- Geotechnical Design - Part 1: General Rules (2004) and Part 2: Ground Investigation and Testing (2007)

ARUN DISTRICT COUNCIL LU/263/20/DOC

structural aspects of the geotechnical design for both the limit and serviceability states. The Geotechnical Appraisal section of this report will not meet the requirements of a Geotechnical Design Report (GDR), and should therefore be used for preliminary guidance only.

The presence of asbestos may be noted during the site walkover survey, intrusive investigations and/or from the results of contamination testing. However, this report does not constitute an asbestos survey. On this basis, the presence of asbestos on site cannot be discounted and a full asbestos survey should be undertaken.

ARUN DISTRICT COUNCIL LU/263/20/DOC

APPENDIX B – Figures

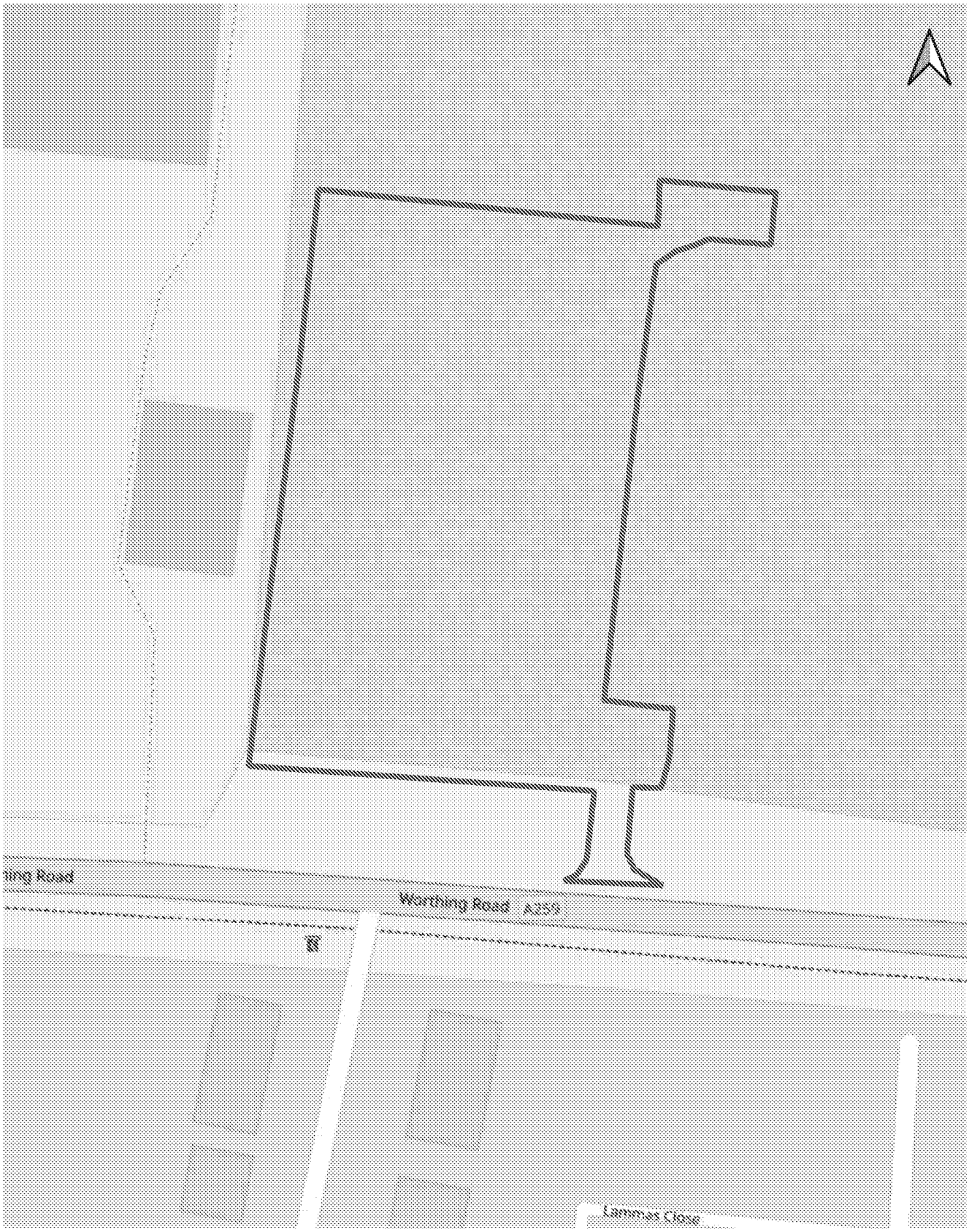
Figures



Basemap: © OpenStreetMapcontributors

leap environmental	Client:	Persimmon Homes (Thames Valley) Ltd	Title:	Site Location	Project ID:	LP2350
	Project:	Worthing Road Allotments	Date:	11/10/20	Figure No.	01

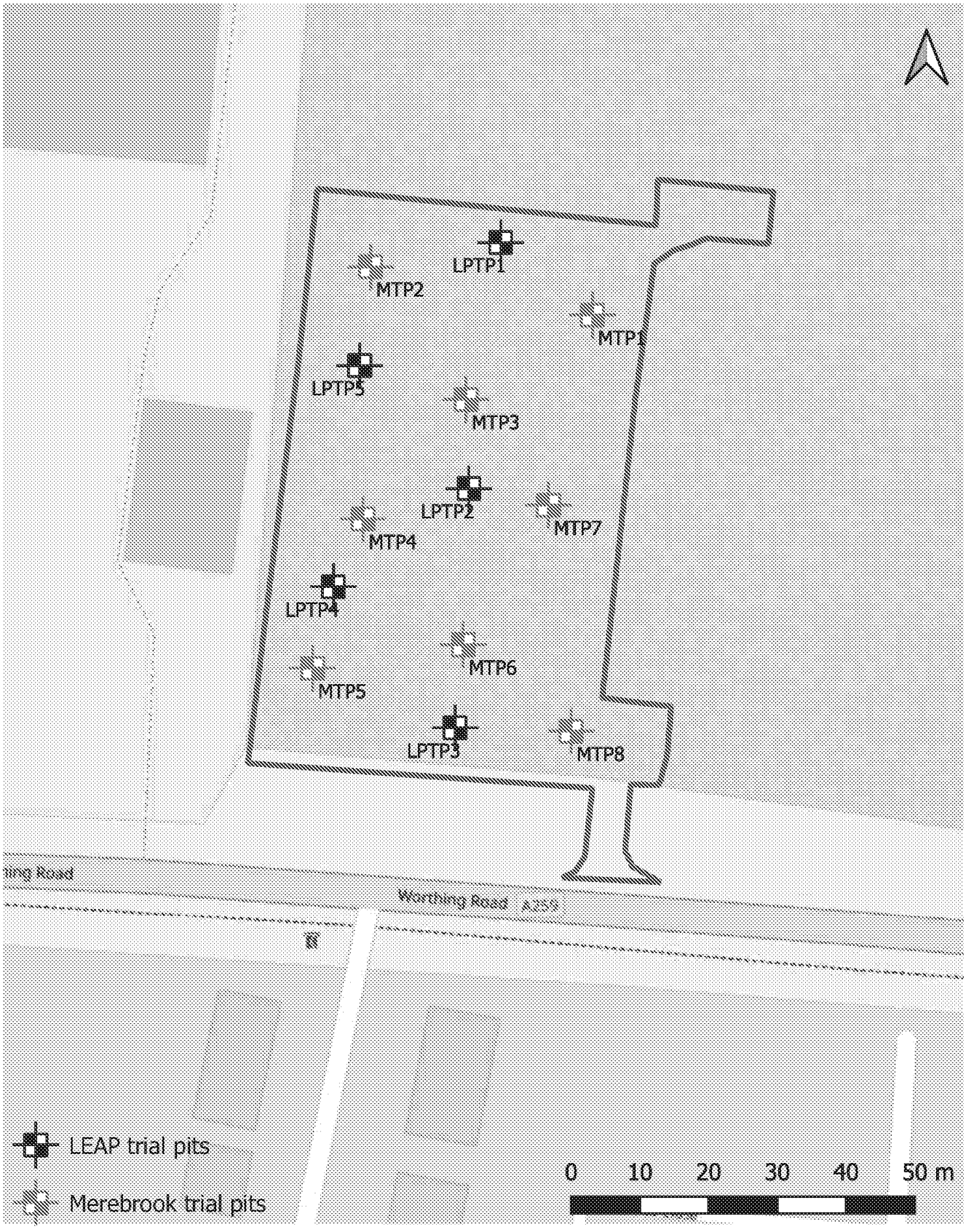
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Basemap: © OpenStreetMapcontributors

leap environmental	Client:	Persimmon Homes (Thames Valley) Ltd	Title:	Site Layout	Project ID:	LP2350
	Project:	Worthing Road Allotments	Date:	11/10/20	Figure No.	02

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Basemap: © OpenStreetMapcontributors

leap environmental	Client:	Persimmon Homes (Thames Valley) Ltd	Title:	Exploratory hole locations	Project ID:	LP2350
	Project:	Worthing Road Allotments	Date:	11/10/20	Figure No.	03

ARUN DISTRICT COUNCIL LU/263/20/DOC

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Recreation Ground

GRASS

Concrete Edge

Clearance of existing vegetation to be undertaken before the construction of beds

TP6

Hand Dug Trial Hole 1

Grass

Stop

Hand Dug Trial Hole 2

Existing scalpings refreshed to suit levels following construction

Timber Edge

Parking

Rest and potting area

Concrete Edge

TP4

Hand Dug Trial Hole 3

FOLIAGE

Grass

New feed from existing water located on site.

Existing scalpings refreshed to suit levels following construction

Concrete Edge

New entrance

FOLIAGE

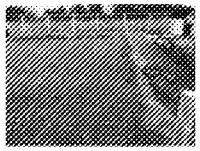
4.3m

4.0m

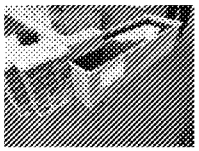
Assumed location of water on site to connect new feed.

ALLOTMENT GARDENS

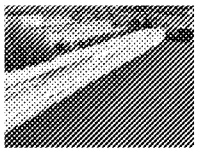
GARDENS



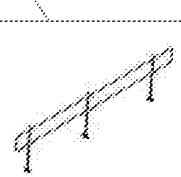
Ground level bed: 10m x 12m ground level allotment rod plots with grass edge borders.



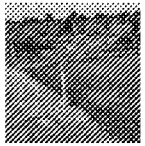
Water trough to be supplied by a new feed from existing water located on site.



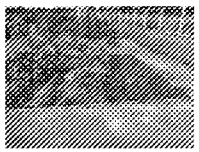
Type 3 raised bed: 1m x 2m raised allotment beds, 615mm high sleeper retaining walls fixed together with Timberlok sleeper screws



Kee klamp handrail to be fixed across centre of each bed to provide stability for gardener. Foundations may need to be provided to provide strong fixing to the ground.

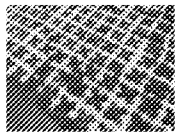


Plots to be marked with posts indicating the plot number.



Type 1 ground level bed: 5m x 6m ground level allotment beds. Includes 450mm topsoil to BS3882:2007 spread over 50mm depth of well rotted manure. To include wooden edge border.





BodPave 40 is a recycled black plastic porous paving grid that provides ground reinforcement, grass protection or gravel retention that can potentially be used where traffic causes grass wear, rutting or displaced gravel.

Alternatively Grasscrete grass can be used to create a surface with the natural grass combined with the strength of concrete.

Planning application boundary

Type 1 ground level bed: 5m x 6m ground level allotment beds. Includes 450mm topsoil to BS3882:2007 spread over 50mm depth of well rotted manure with wooden border edge.

Type 2 ground level bed: 5m x 1.2m ground level allotment beds with wooden border edge. Includes 450mm topsoil to BS3882:2007 spread over 50mm depth of well rotted manure. Handrail to be fixed across centre of each bed to provide stability for gardener.

Type 3 raised bed: 1m x 2m raised allotment beds. 615mm high sleeper retaining walls fixed together with Timberlok sleeper screws. Includes topsoil to BS3882:2007. Base of raised beds will be over existing soil to allow for drainage.

Type 4 ground level bed: 2m x 1.5m ground level allotment beds. Includes 450mm topsoil to BS3882:2007 spread over 50mm depth of well rotted manure.

Hard standing area tarmac surface

Scalpings

Water trough

4no. 10m x 25m Rod plots with grass edge borders.

Hard surfaced car parking spaces. Using BodPave or Grasscrete grass.

6no. 10m x 12m Rod plots with grass edge border.

2no. 10m x 6m Rod plots with grass edge border.

Plot markers

Timber edging

Concrete edging

Rev	Date	Description	Drawn	Appd
B	14/11/2019	Topo overlay on site	AMS	RSB
A	03/10/2019	First issue	DAH	RSB

PROVISIONAL DRAWING

Not to be used for construction purposes

Technical & Development Services (Southern) Ltd
Hillcrest House, 54 Queen Street
Horsham, West Sussex, RH13 5AD
Tel 01403 276 555

Client: PERSIMMON HOME SOUTH COAST

Project: NORTH LITTLEHAMPTON

Title: CHURCH LAND ALLOTMENTS LAYOUT

Scale:	Size:	Drawn:	Reviewed:	Date:
1:250	A1	AMS	RSB	October 2019

Drawing Number: PHTV/U/16/XS/001 Rev: B

U:\ENGINEERING WORKS - PM\Persimmon\PHTV\PHTV_EW.08 - North Littlehampton\TDS Drawings\Dwgs\PHTV-U-16-XS-001.dwg Adam Stephens 14/11/2019 14:36:54

APPENDIX C – Site Photographs

Site Photographs

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Plate 1: Facing southwest



Plate 2: Facing west

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Plate 3: Facing northwest corner

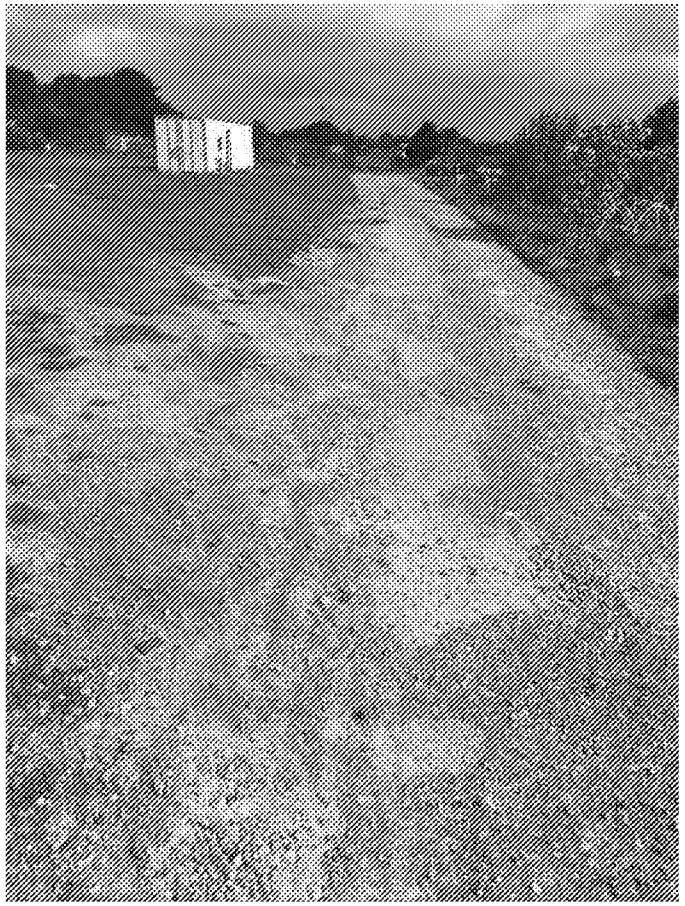


Plate 4: Access track on eastern boundary



Plate 5: Facing northeast corner



Plate 6: Compacted earth track facing southeast



Plate 7: Pothole and brick fill in eastern access track

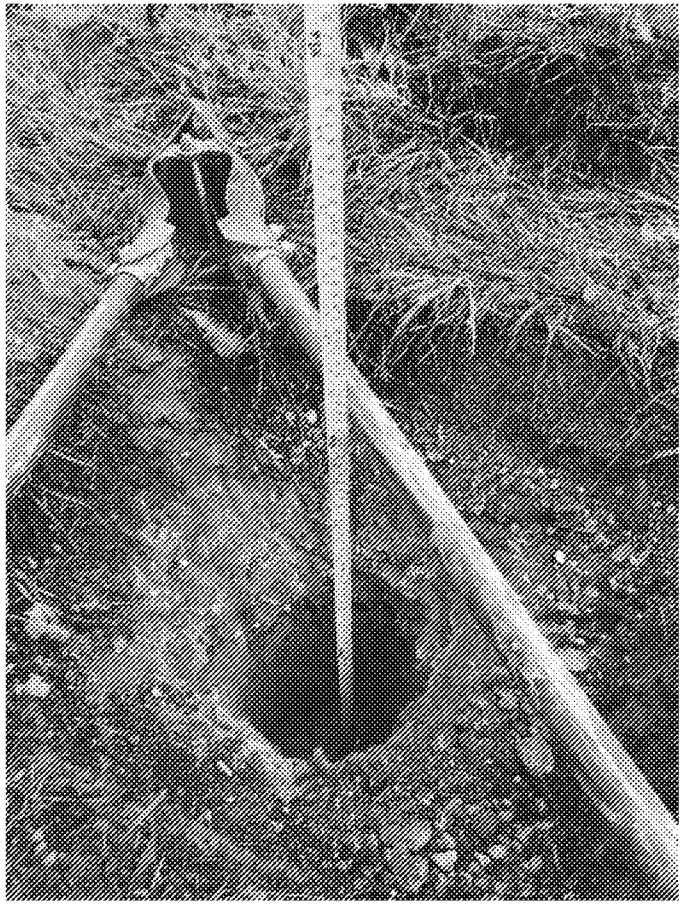


Plate 8: TP1



Plate 9: TP2



Plate 10: TP3



Plate 11: TP4



Plate 12: TP5

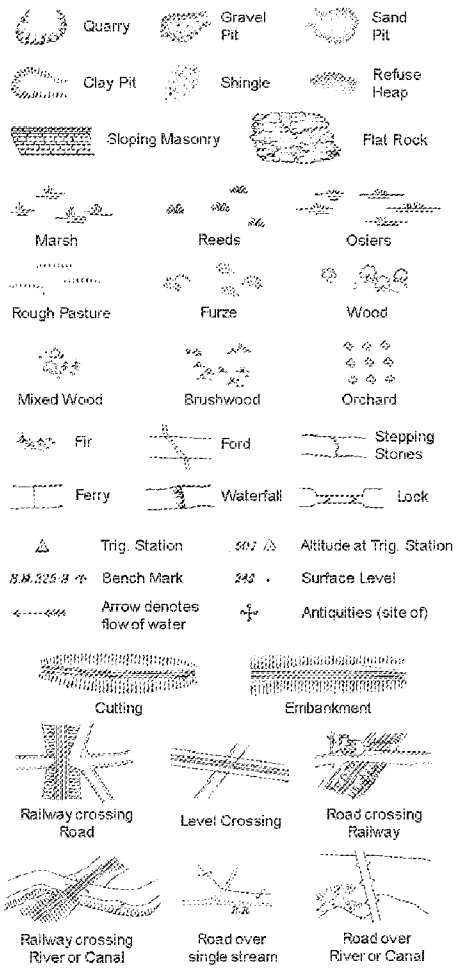
APPENDIX D – Historic Maps and Environmental Database Searches

Historic Maps and Environmental Database Searches

ARUN DISTRICT COUNCIL LU/263/20/DOC

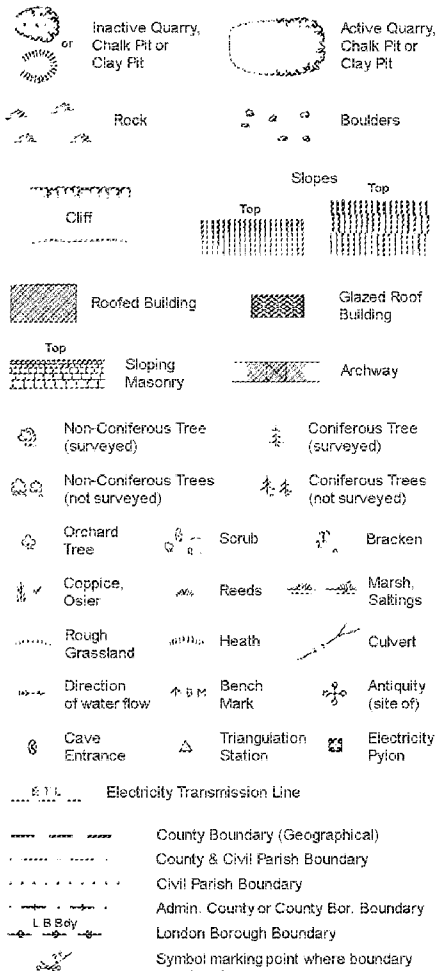
Historical Mapping Legends

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



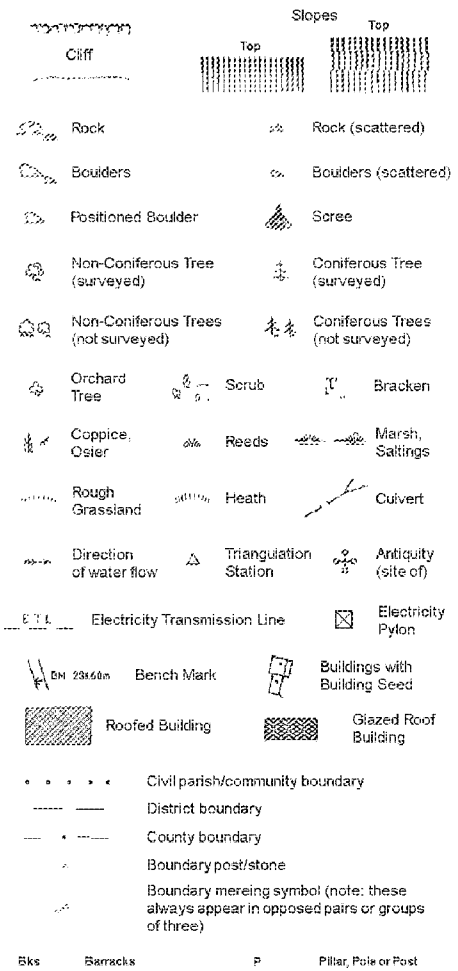
B.S.	Boundary Post or Stone	P.C.	Police Call Box
B.S.	Bridle Road	P	Pump
E.P.	Electricity Pylon	S.P.	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P.	Guide Post or Board	T.C.B.	Telephone Call Box
M.S.	Mile Stone	Tr.	Trough
M.P. M.S.	Mooring Post or Ring	W.	Well

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



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

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



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

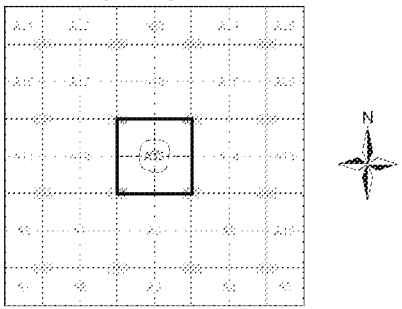
Envirocheck®

LANDMARK INFORMATION GROUP®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:2,500	1876	2
Sussex	1:2,500	1897 - 1898	3
Sussex	1:2,500	1911 - 1912	4
Sussex	1:2,500	1932	5
Ordnance Survey Plan	1:1,250	1958 - 1969	6
Ordnance Survey Plan	1:2,500	1959 - 1972	7
Ordnance Survey Plan	1:1,250	1967 - 1980	8
Ordnance Survey Plan	1:2,500	1972	9
Ordnance Survey Plan	1:1,250	1973	10
Additional SIMs	1:1,250	1977 - 1987	11
Additional SIMs	1:1,250	1987	12
Large-Scale National Grid Data	1:1,250	1994	13

Historical Map - Segment A13



Order Details

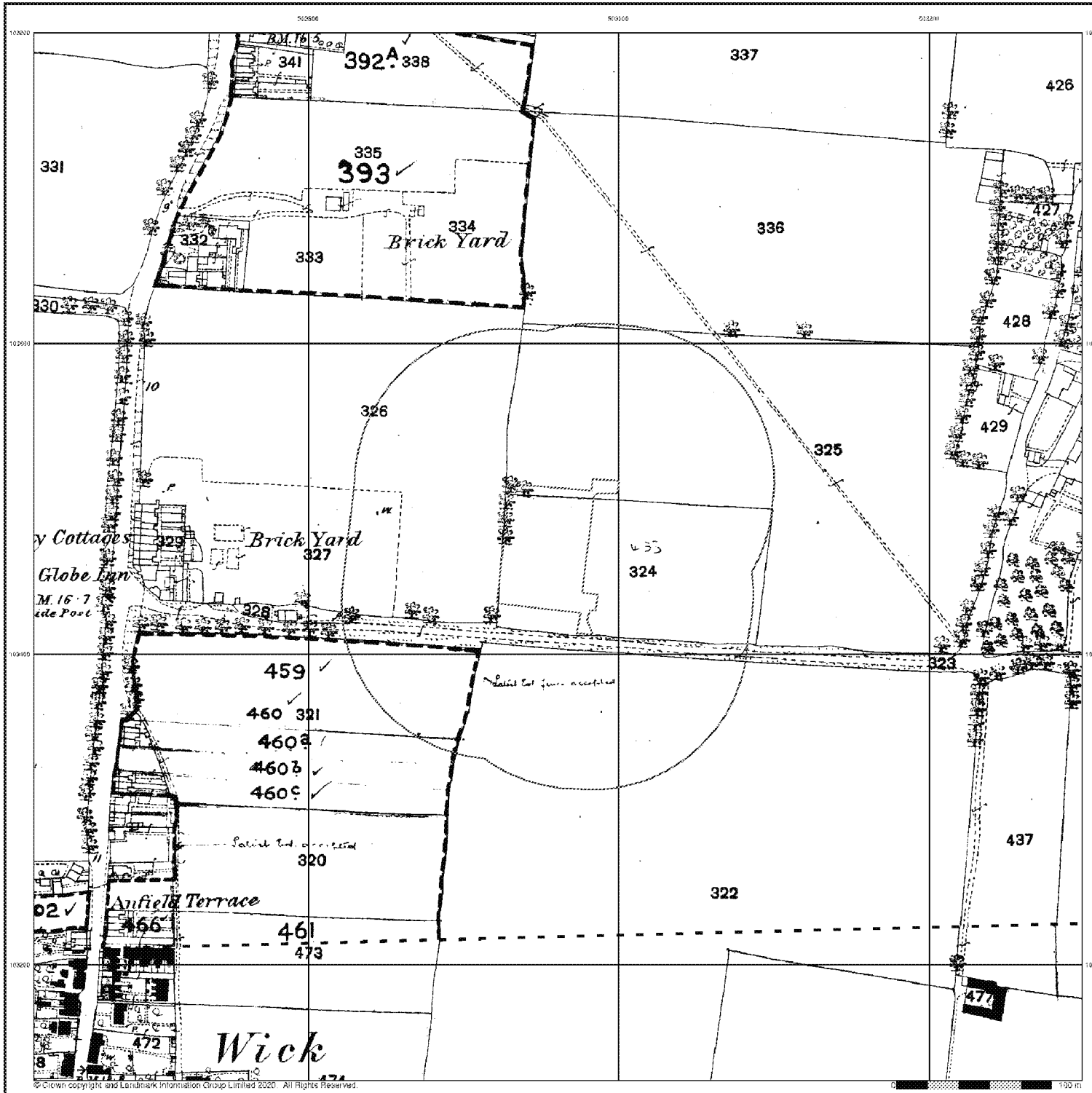
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Customer Ref: LP2350
National Grid Reference: 502960, 103470
Slice: A
Site Area (Ha): 0.46
Search Buffer (m): 100

Site Details

Worthing Road Allotments, LITTLEHAMPTON, BN17 6JN

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

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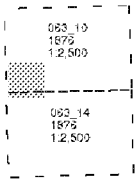
Sussex

Published 1876

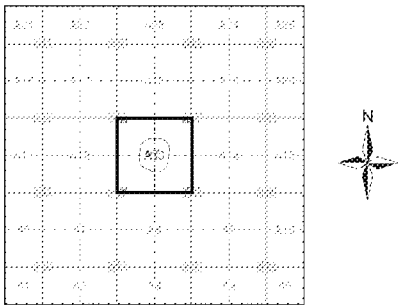
Source map scale - 1:2,500

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 1936, 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



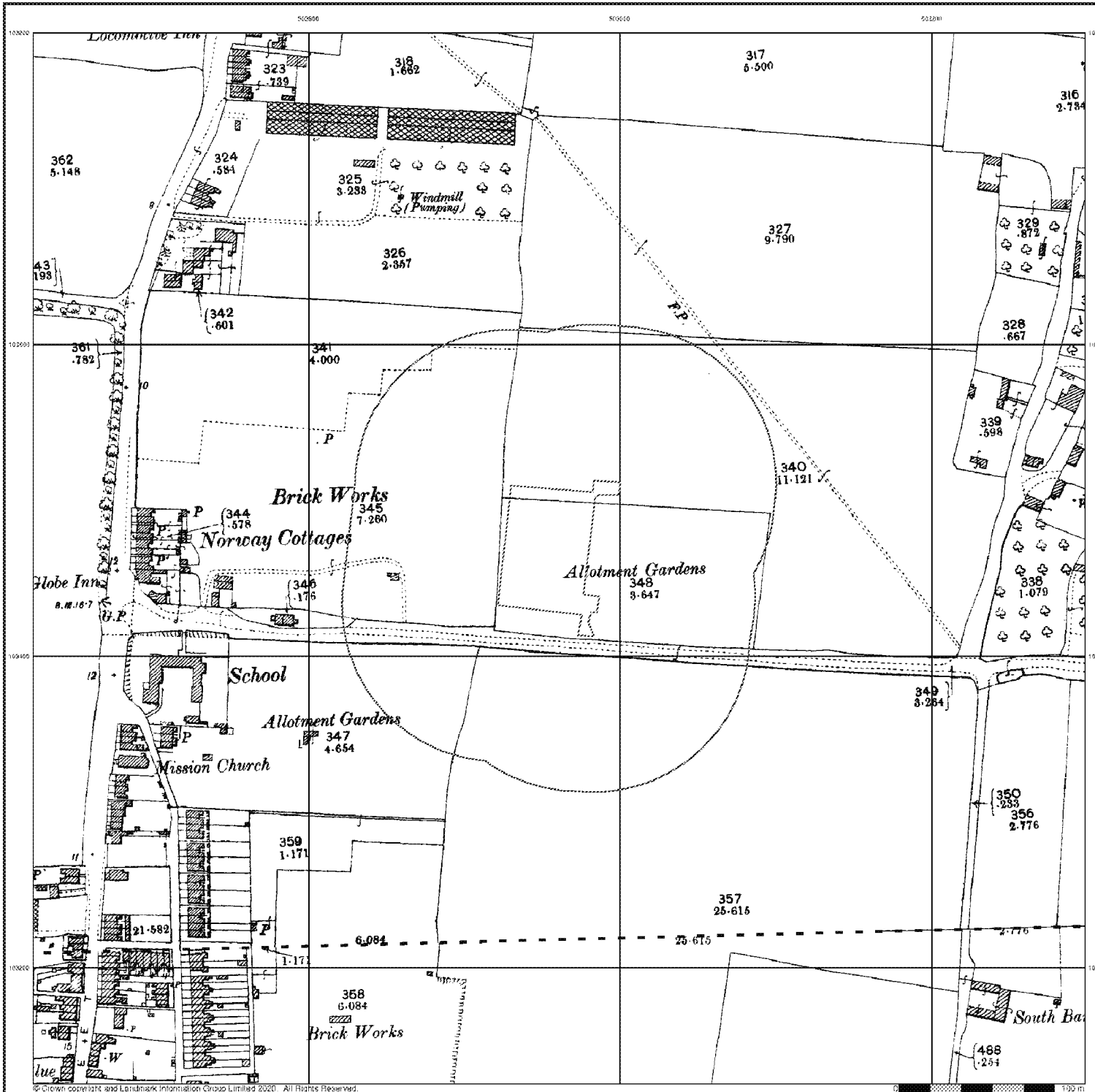
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Customer Ref:	LP2350
National Grid Reference:	502960, 103470
Slice:	A
Site Area (Ha):	0.46
Search Buffer (m):	100

Site Details

Worthing Road Allotments, LITTLEHAMPTON, BN17 6JN

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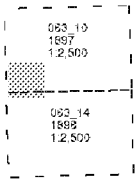
Sussex

Published 1897 - 1898

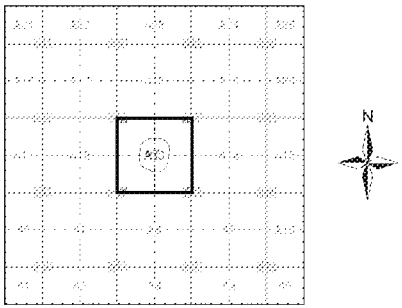
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Map Name(s) and Date(s)



Historical Map - Segment A13



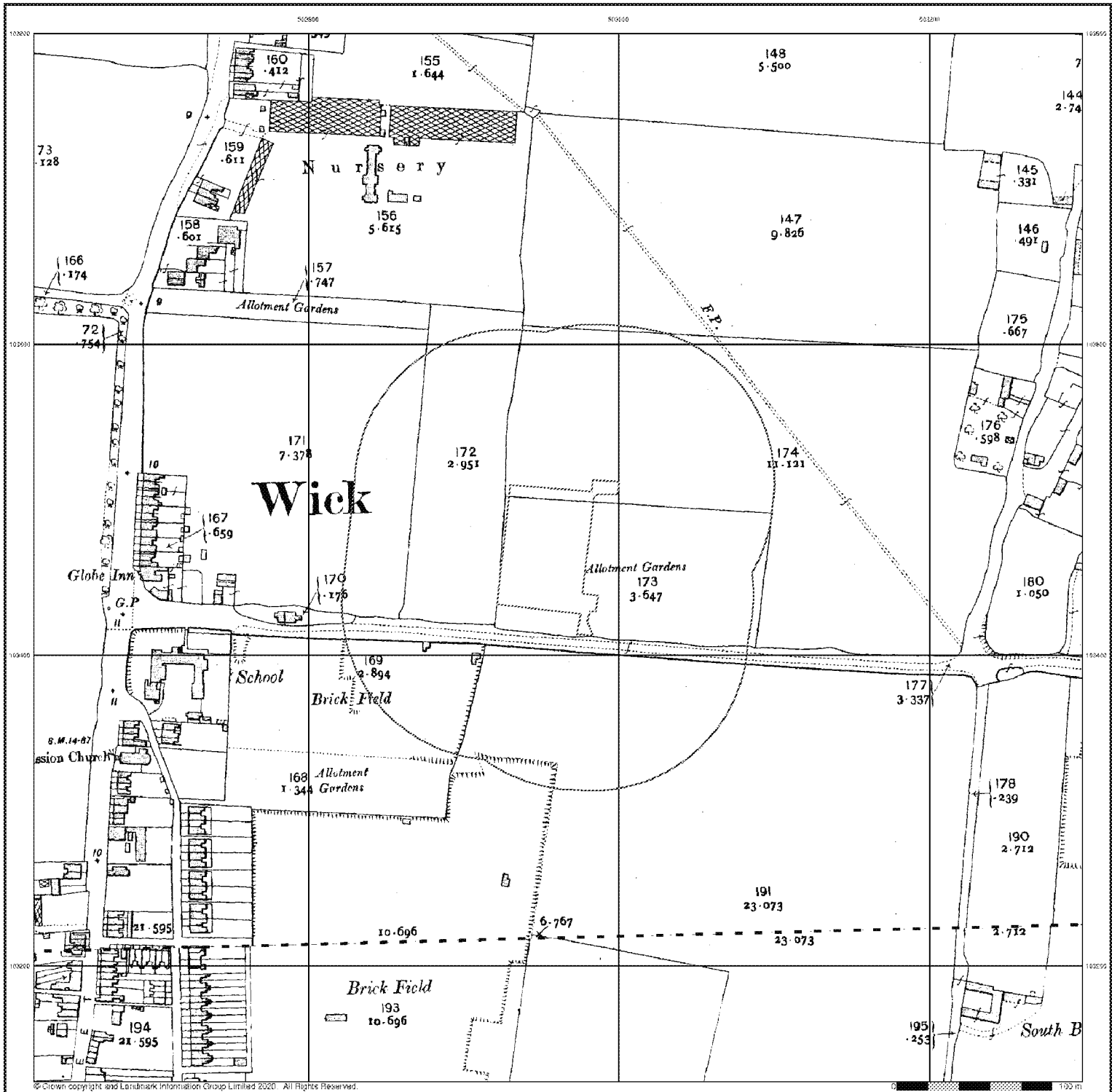
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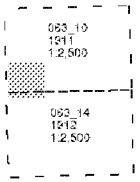
Sussex

Published 1911 - 1912

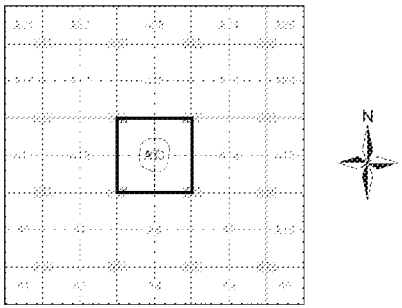
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



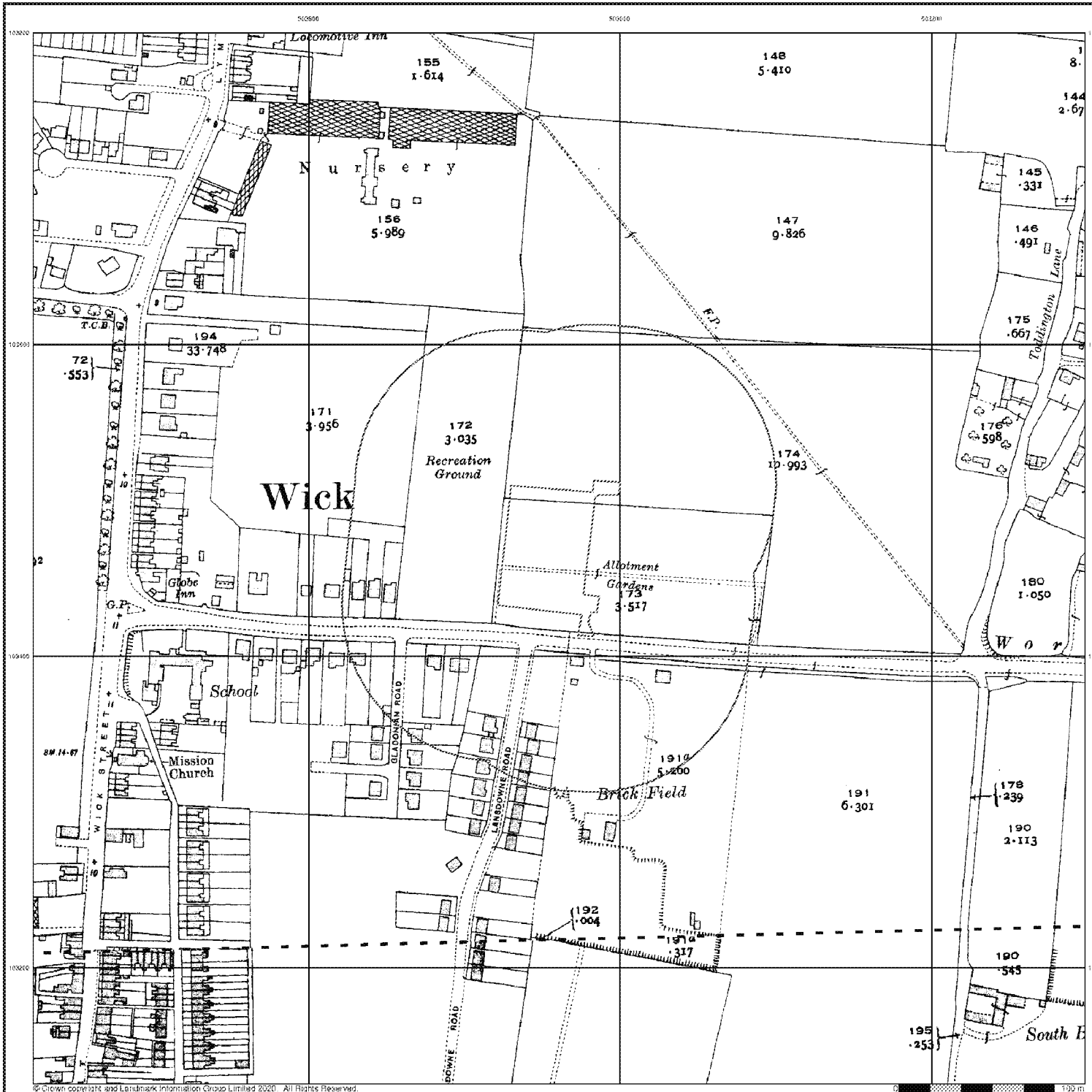
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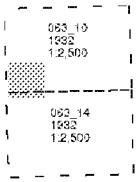
Sussex

Published 1932

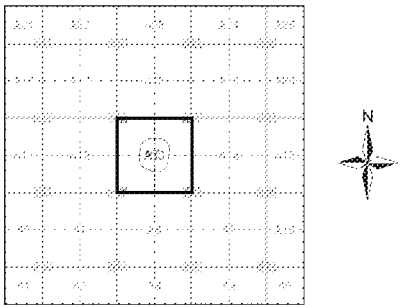
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



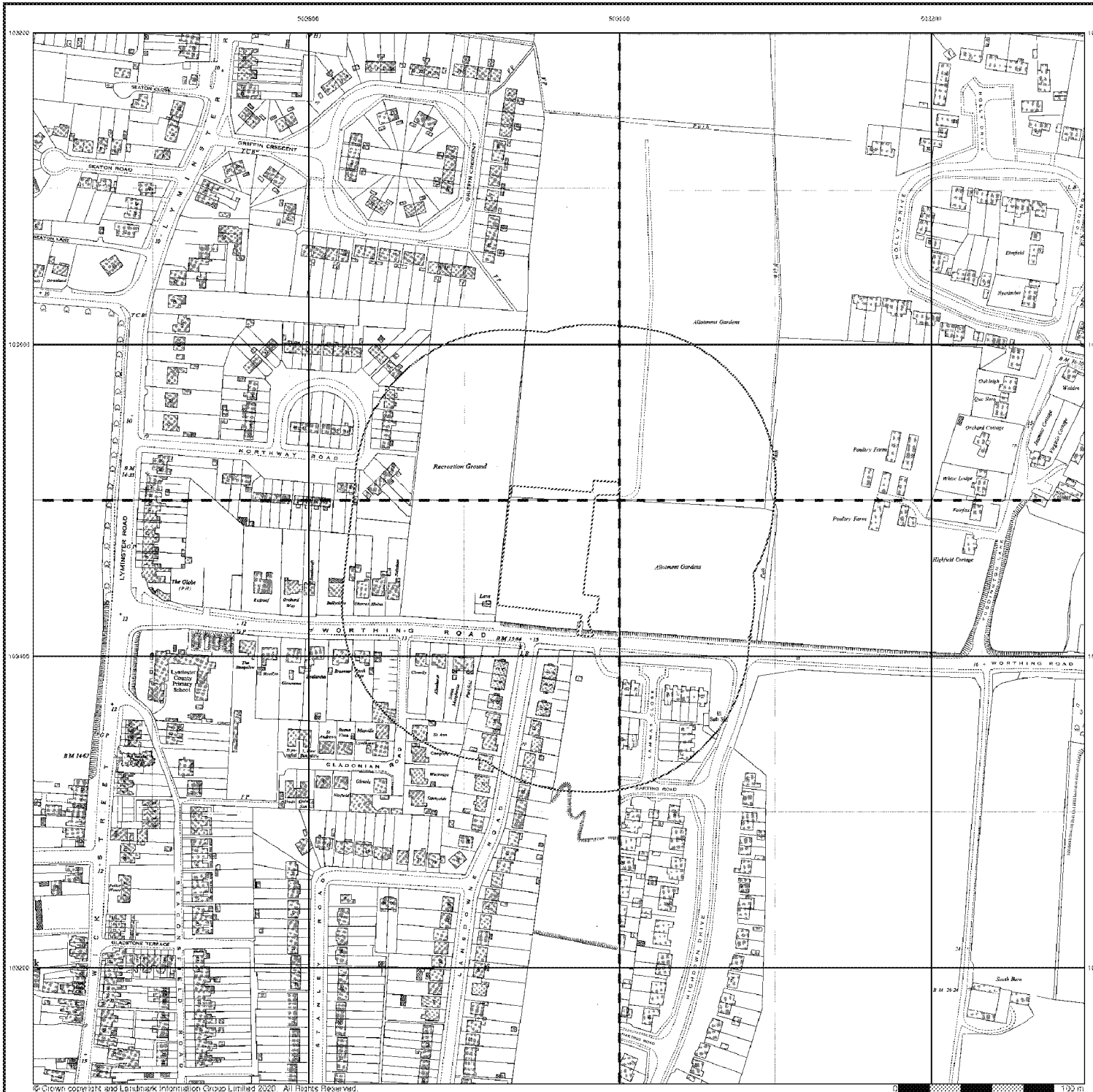
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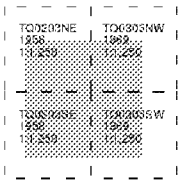
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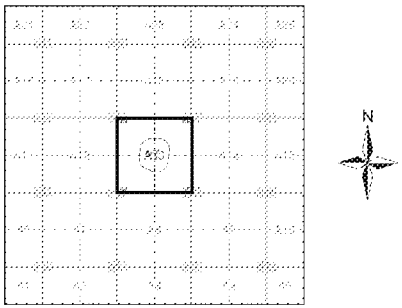
Ordnance Survey Plan
Published 1958 - 1969
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

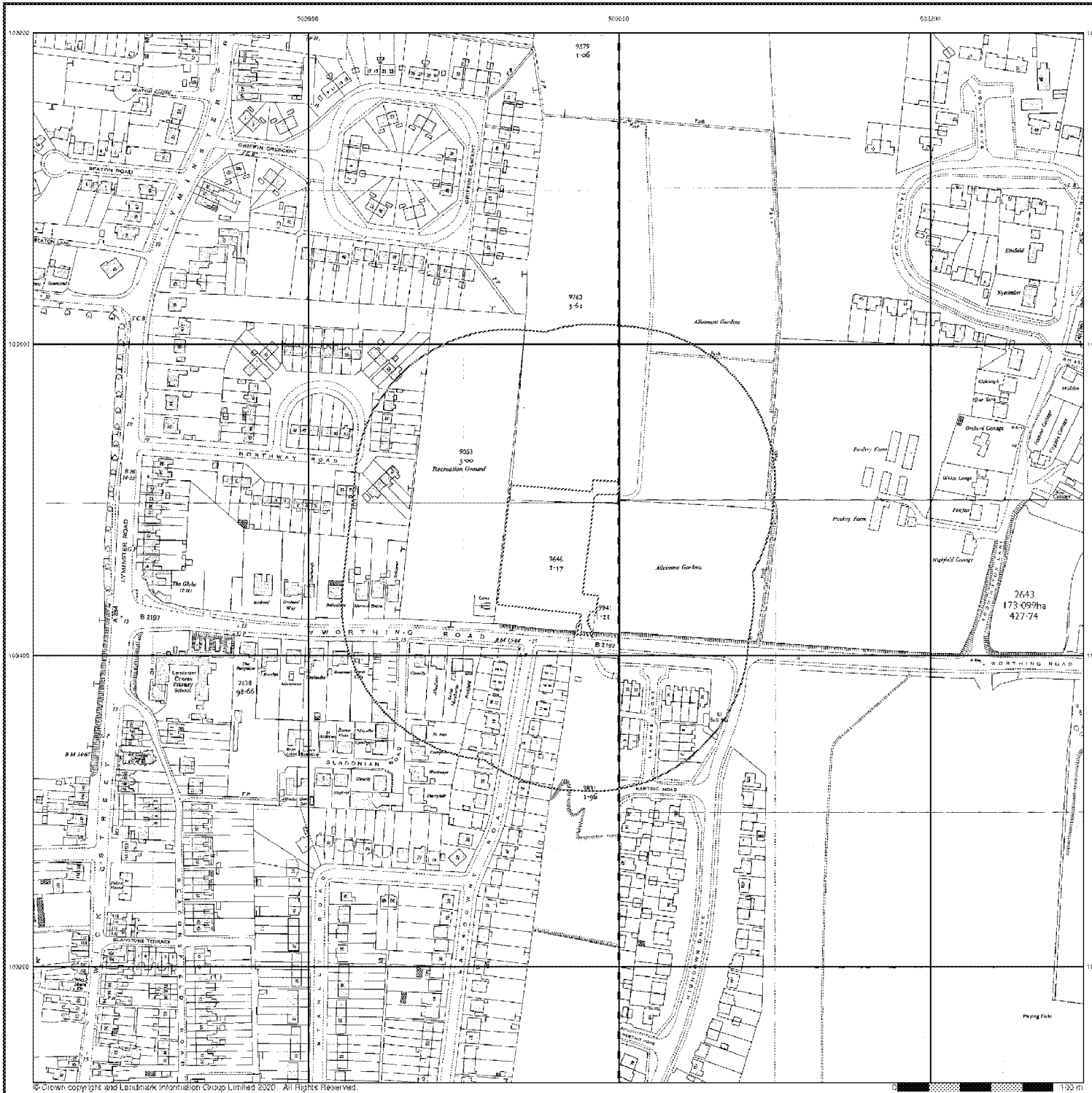
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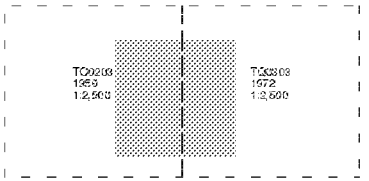
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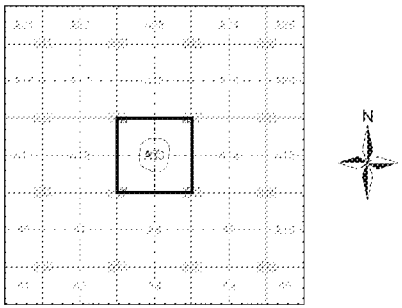
Ordnance Survey Plan
Published 1959 - 1972
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



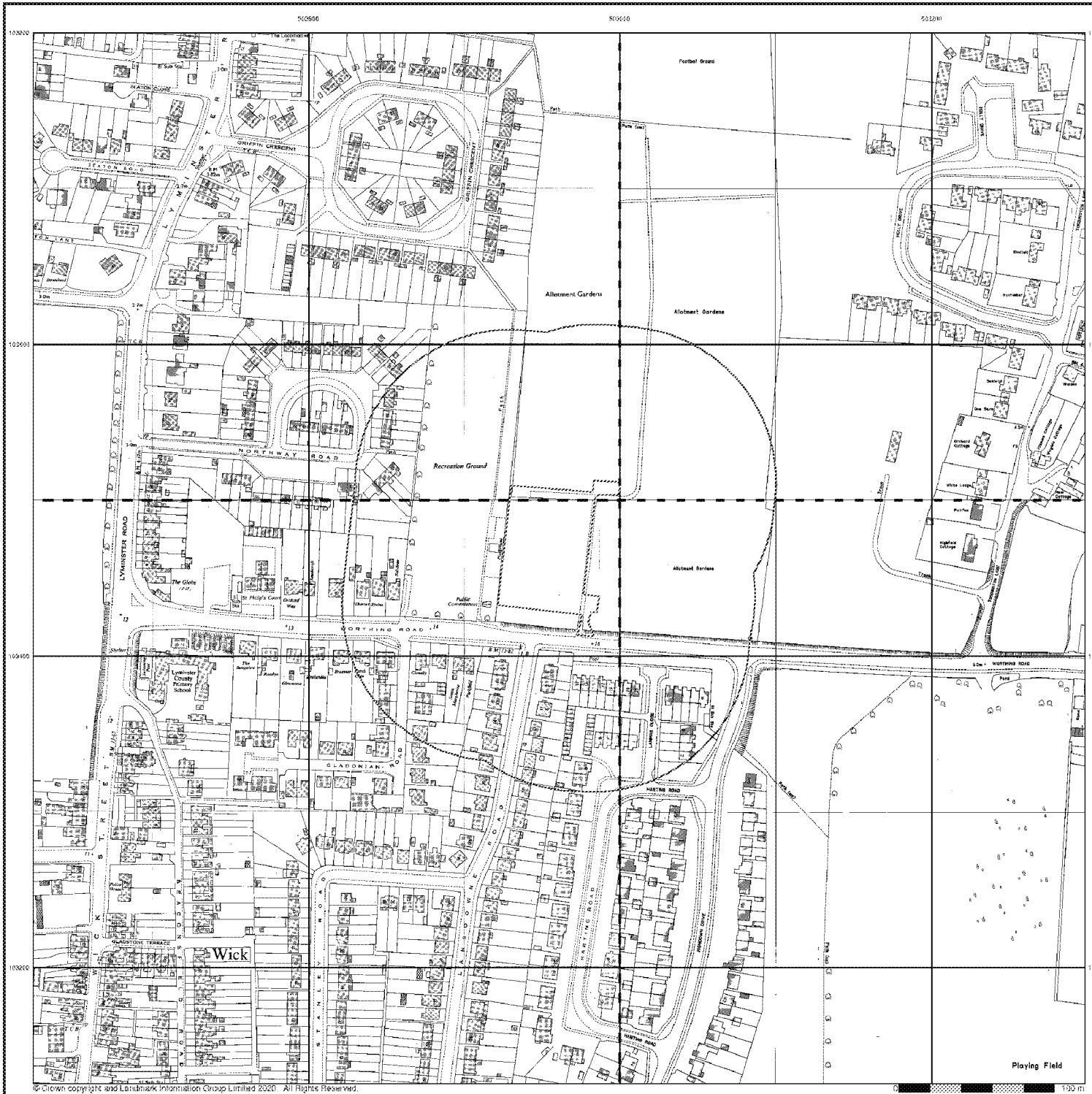
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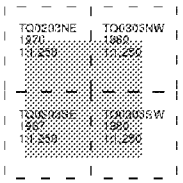
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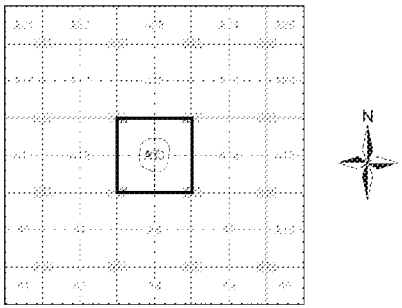
Ordnance Survey Plan
Published 1967 - 1980
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



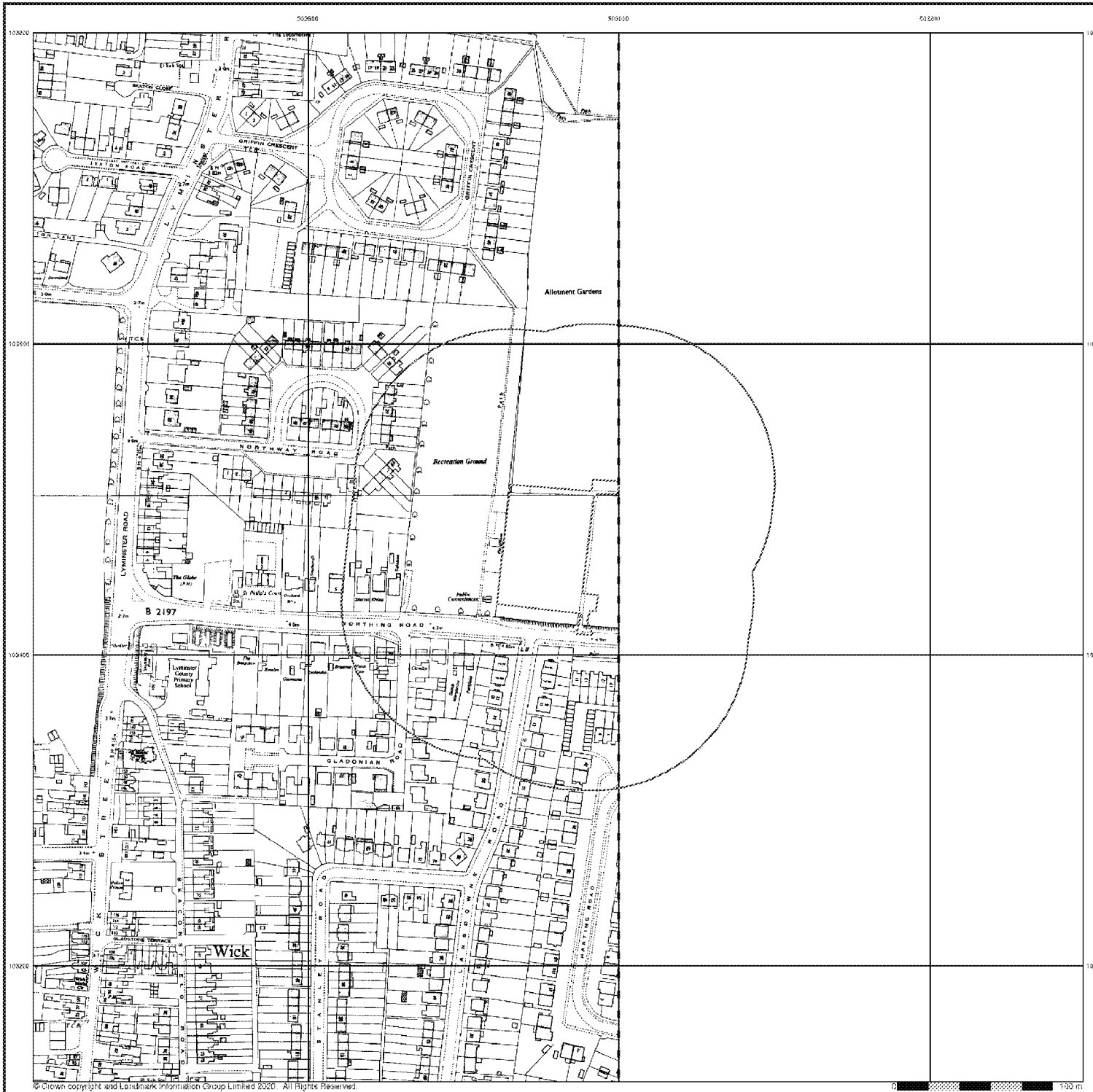
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Site Details

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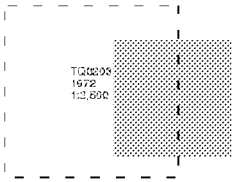
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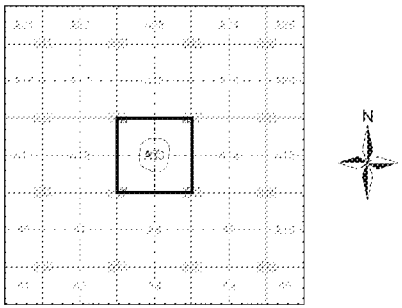
Ordnance Survey Plan
Published 1972
Source map scale - 1:2,500

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Historical Map - Segment A13



Order Details

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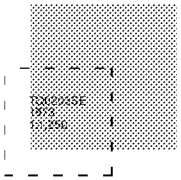
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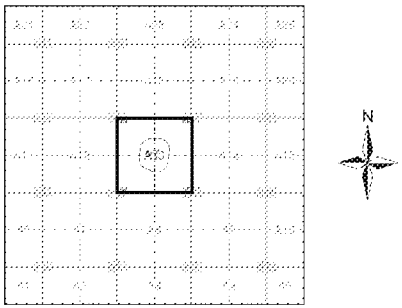
Ordnance Survey Plan
Published 1973
Source map scale - 1:1,250

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Additional SIMs

Published 1977 - 1987

Source map scale - 1:1,250

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)

TQ0203NE 1986 1:1,250	TQ0303NW 1978 1:1,250
TQ0203SE 1987 1:1,250	TQ0303SW 1977 1:1,250

Historical Map - Segment A13

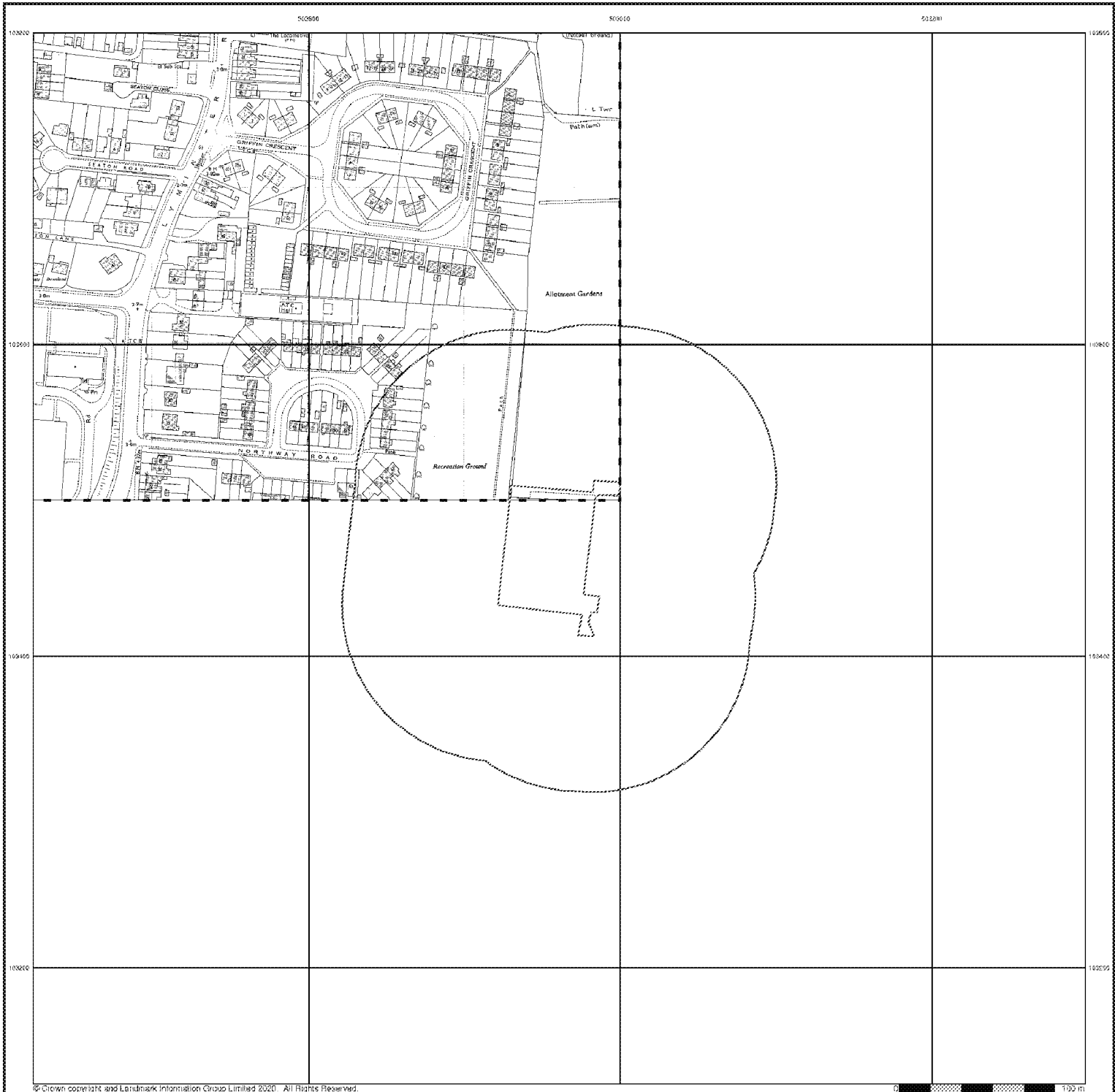
Order Details

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Slice: A
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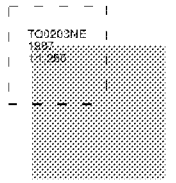
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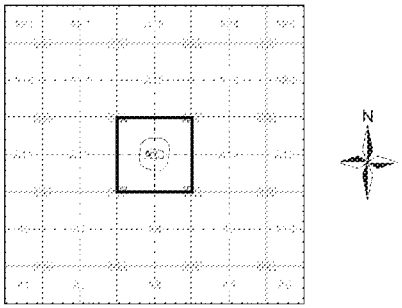
Additional SIMs
Published 1987
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



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Order Number:	260998885_1_1
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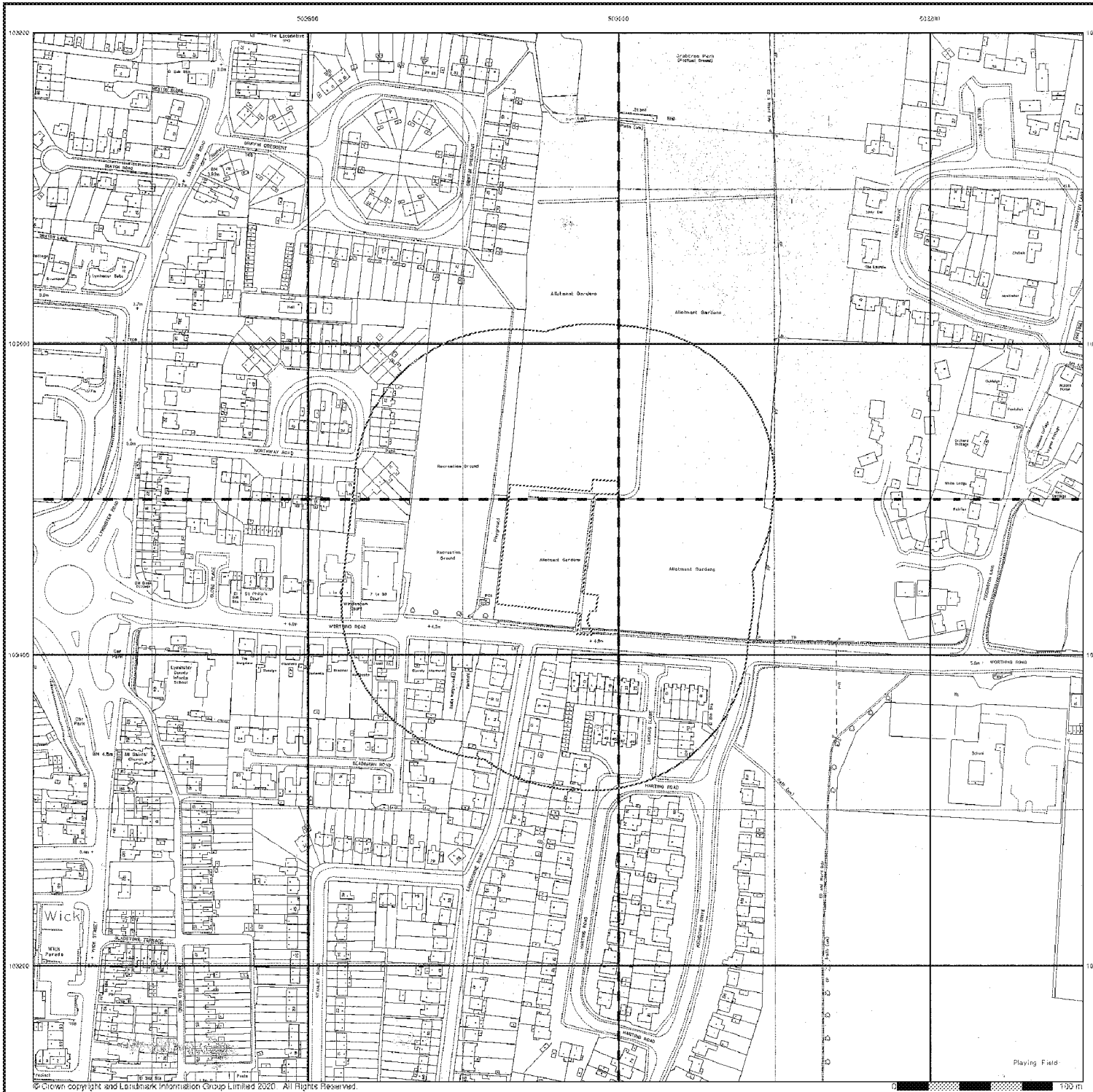
Site Details

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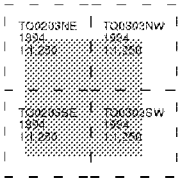
Large-Scale National Grid Data

Published 1994

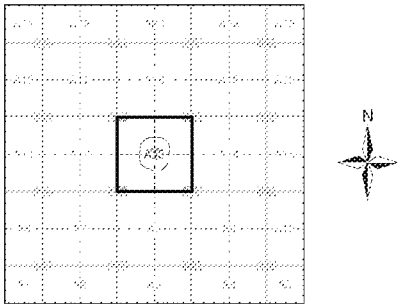
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

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

1:10,000 Raster Mapping

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

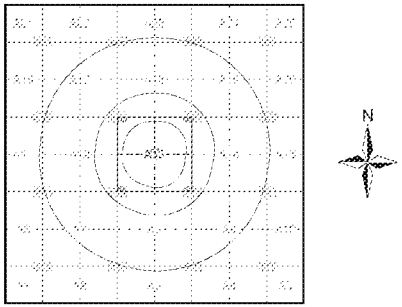
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:10,560	1879	2
Sussex	1:10,560	1899	3
Sussex	1:10,560	1913 - 1914	4
Sussex	1:10,560	1913 - 1914	5
Sussex	1:10,560	1932	6
Sussex	1:10,560	1938	7
Sussex	1:10,560	1952	8
Ordnance Survey Plan	1:10,000	1962	9
Ordnance Survey Plan	1:10,000	1962	10
Ordnance Survey Plan	1:10,000	1977	11
Ordnance Survey Plan	1:10,000	1982	12
Ordnance Survey Plan	1:10,000	1993	13
10K Raster Mapping	1:10,000	2000	14
Street View	Variable		15

Historical Map - Slice A



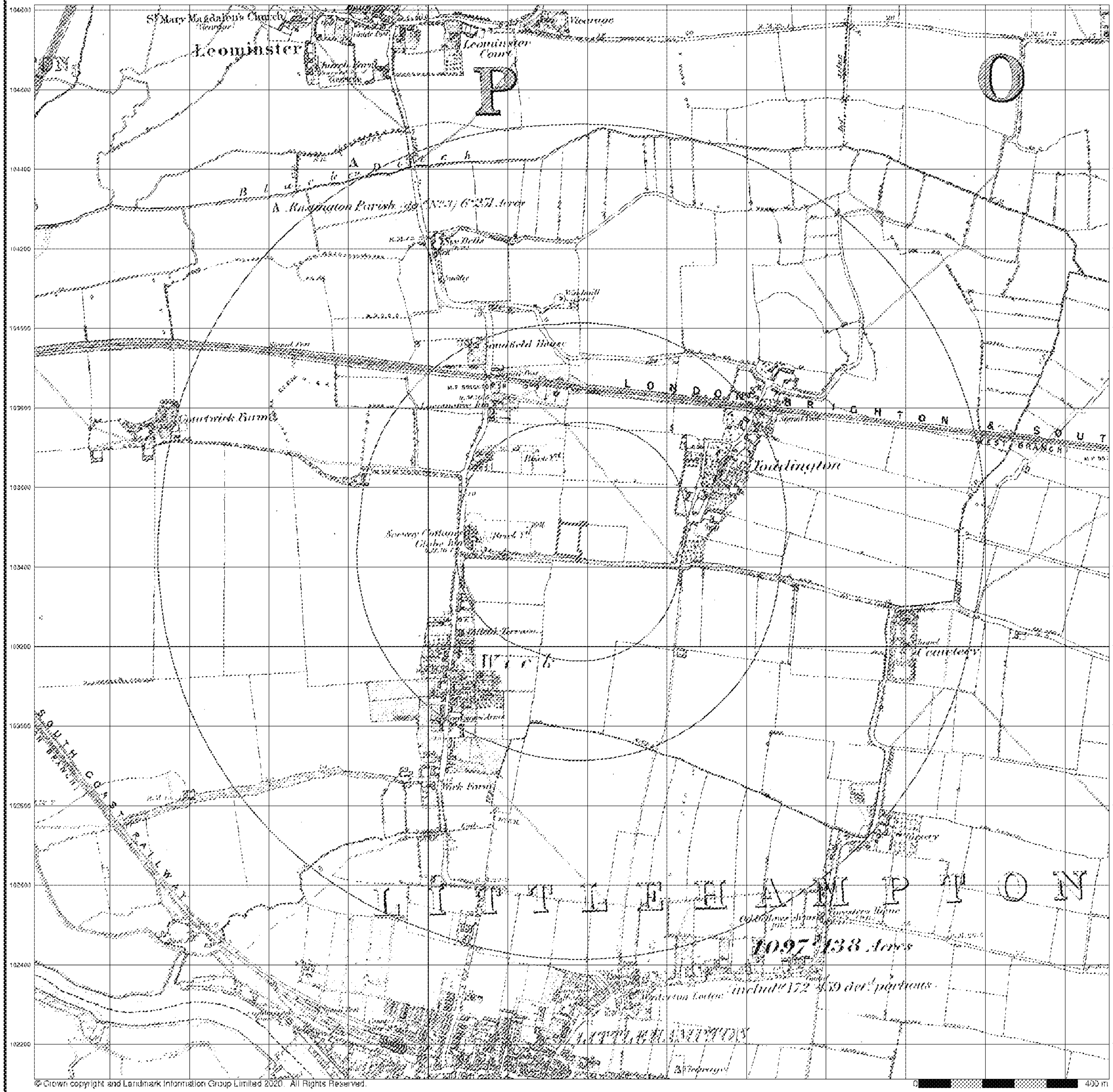
Order Details

Order Number: 260998885_1_1
Customer Ref: LP2350
National Grid Reference: 502960, 103470
Slice: A
Site Area (Ha): 0.46
Search Buffer (m): 1000

Site Details

Worthing Road Allotments, LITTLEHAMPTON, BN17 6JN

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Sussex

Published 1879

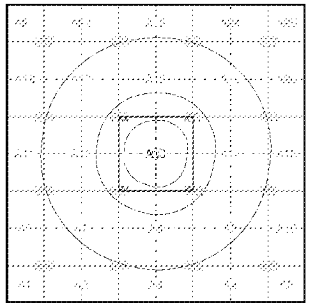
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

08300
1879
1:10,560

Historical Map - Slice A



Order Details

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Search Buffer (m):	1000

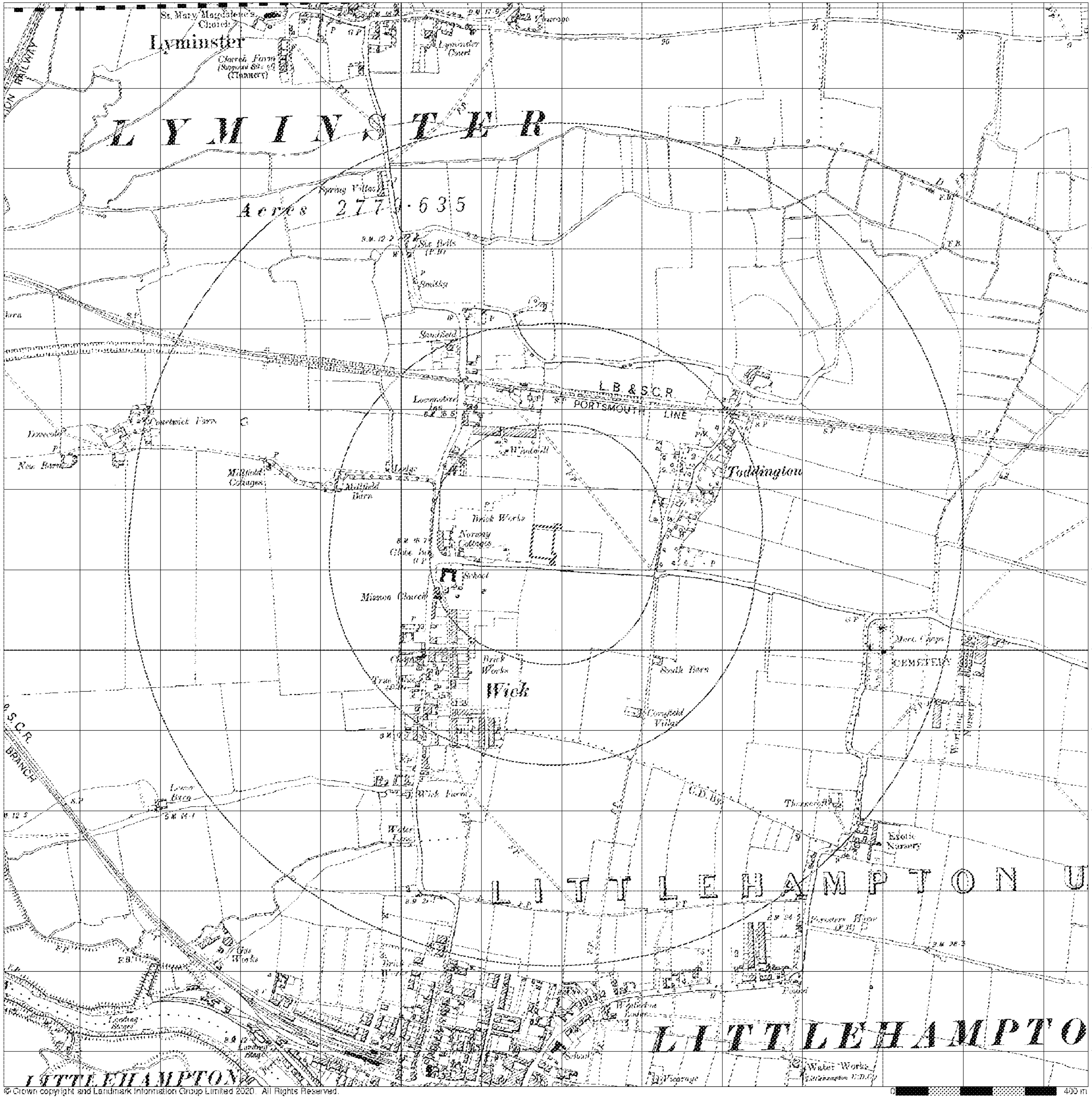
Site Details

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Sussex

Published 1899

Source map scale - 1:10,560

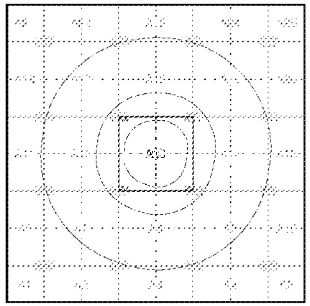
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Map Name(s) and Date(s)

063NW 1899 1:10,560

063SW 1899 1:10,560

Historical Map - Slice A



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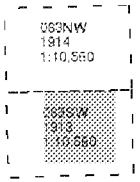
Sussex

Published 1913 - 1914

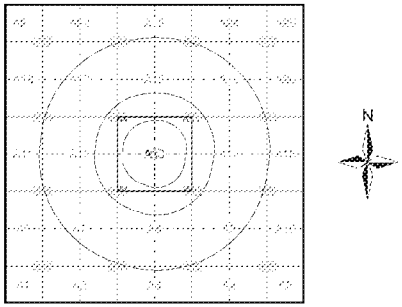
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



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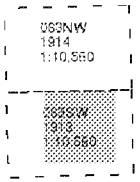
Sussex

Published 1913 - 1914

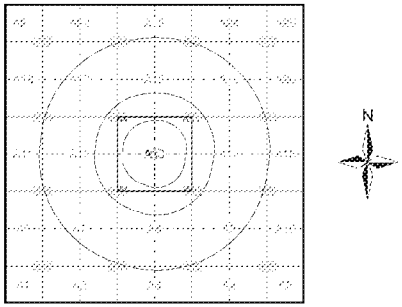
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



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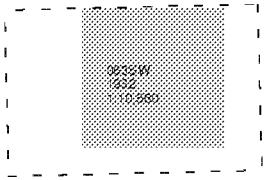
Sussex

Published 1932

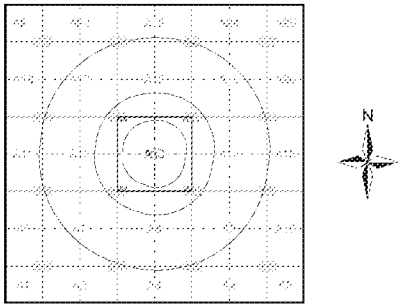
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



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Order Number:	260998885_1_1
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Site Details

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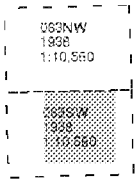
Sussex

Published 1938

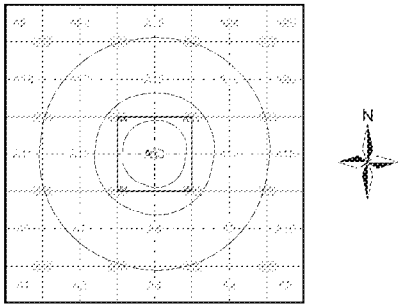
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



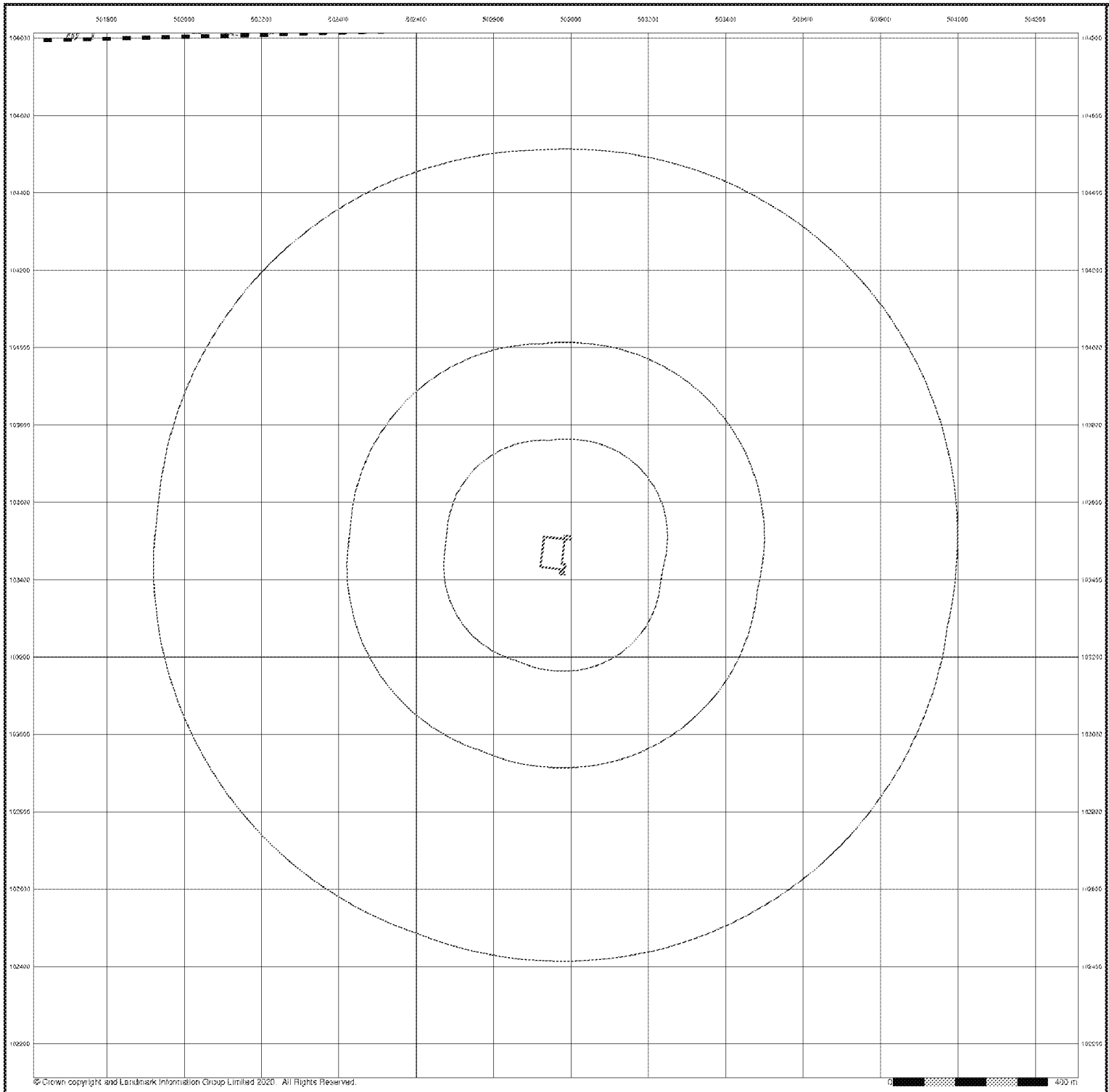
Order Details

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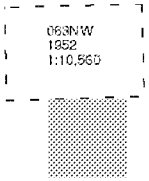
Sussex

Published 1952

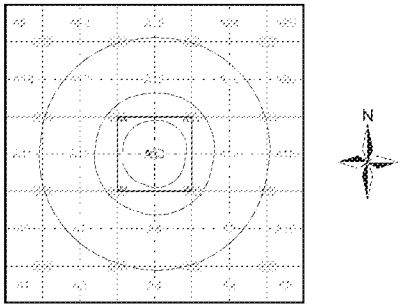
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

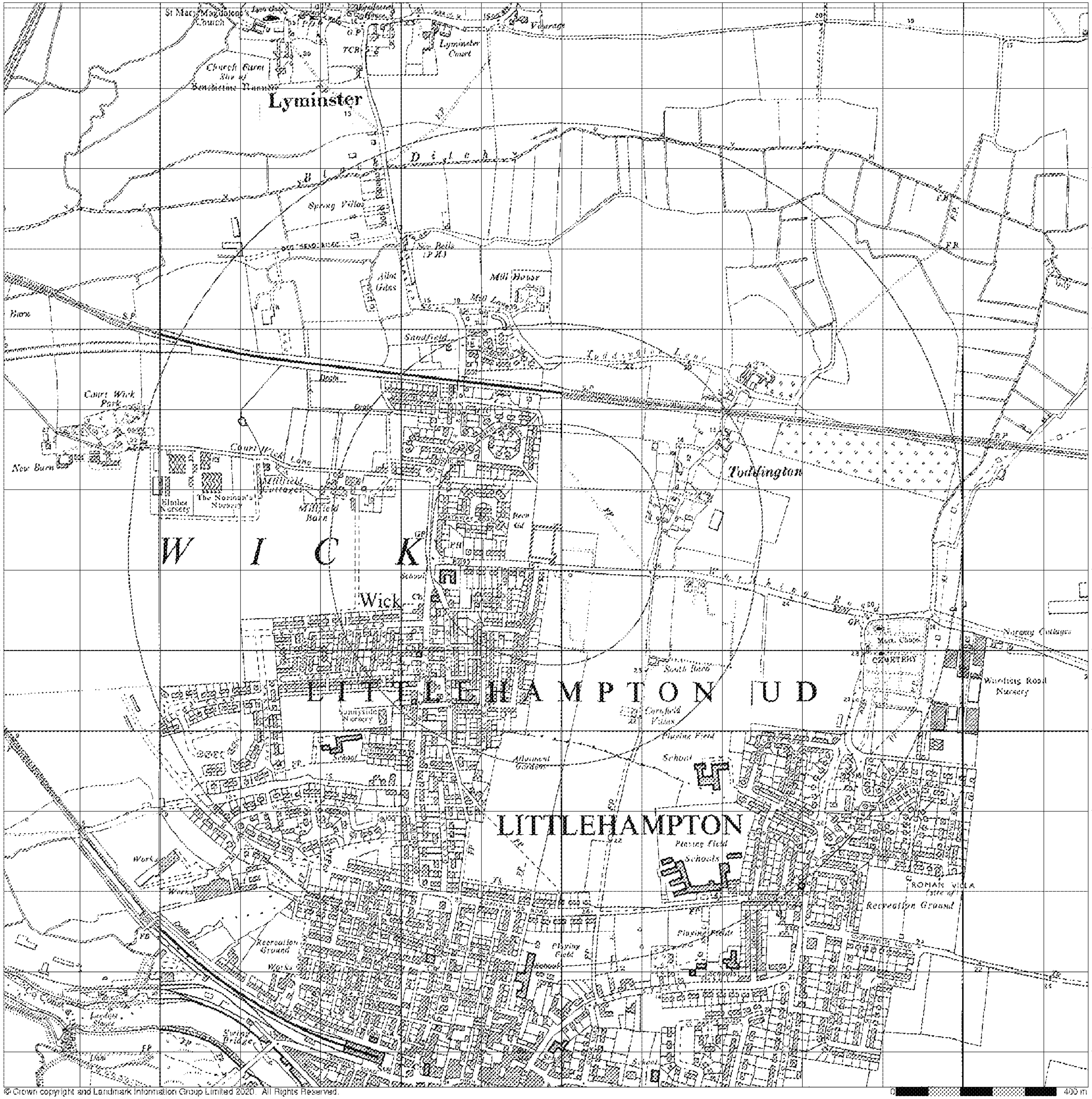
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Ordnance Survey Plan

Published 1962

Source map scale - 1:10,000

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Map Name(s) and Date(s)

TQ00SW
1962
1:10,560

Historical Map - Slice A

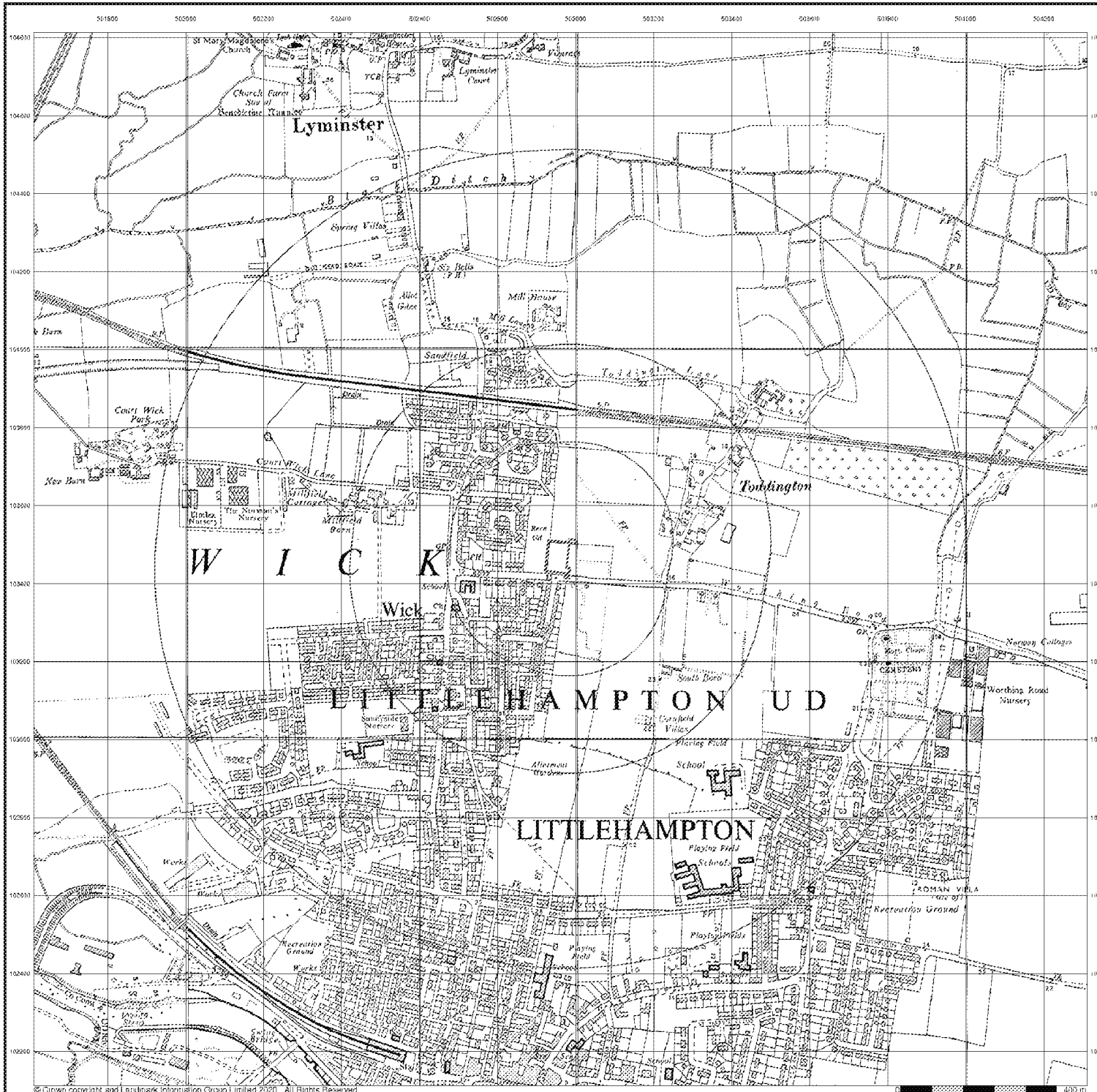
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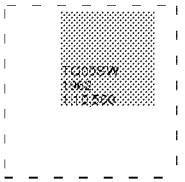
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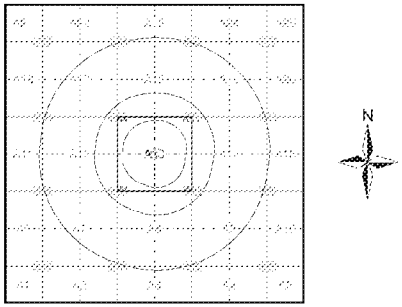
Ordnance Survey Plan
Published 1962
Source map scale - 1:10,000

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Historical Map - Slice A



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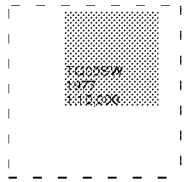
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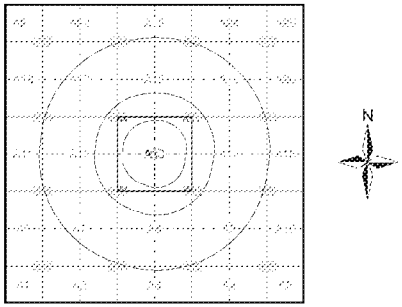
Ordnance Survey Plan
Published 1977
Source map scale - 1:10,000

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Ordnance Survey Plan

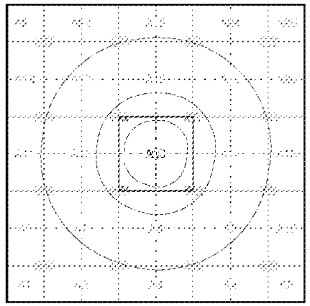
Published 1982

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

Historical Map - Slice A



Order Details

Order Number:	260998885_1_1
Customer Ref:	LP2350
National Grid Reference:	502960, 103470
Slice:	A
Site Area (Ha):	0.46
Search Buffer (m):	1000

Site Details

Worthing Road Allotments, LITTLEHAMPTON, BN17 6JN

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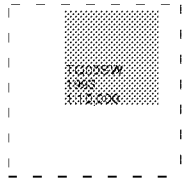
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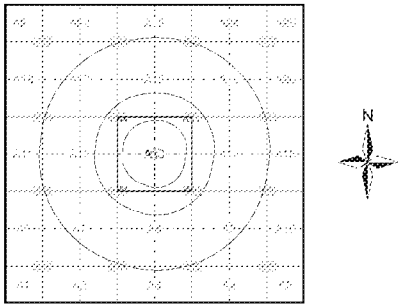
Ordnance Survey Plan
Published 1993
Source map scale - 1:10,000

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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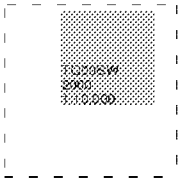
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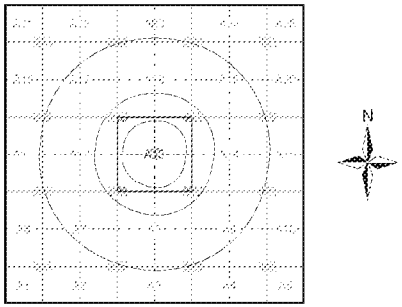
10k Raster Mapping
Published 2000
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Street View

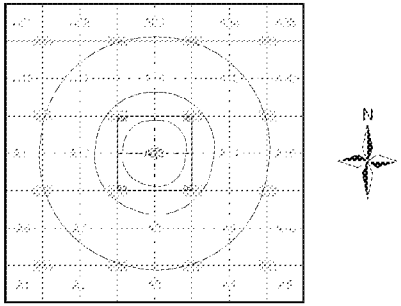
Published 2020

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

Street View Map - Slice A



Order Details

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Site Details

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General

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

Agency and Hydrological

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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

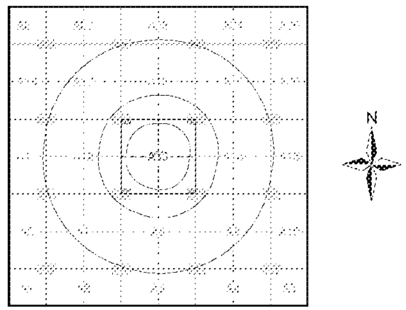
Waste

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

Hazardous Substances

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

Site Sensitivity Map - Slice A



Order Details

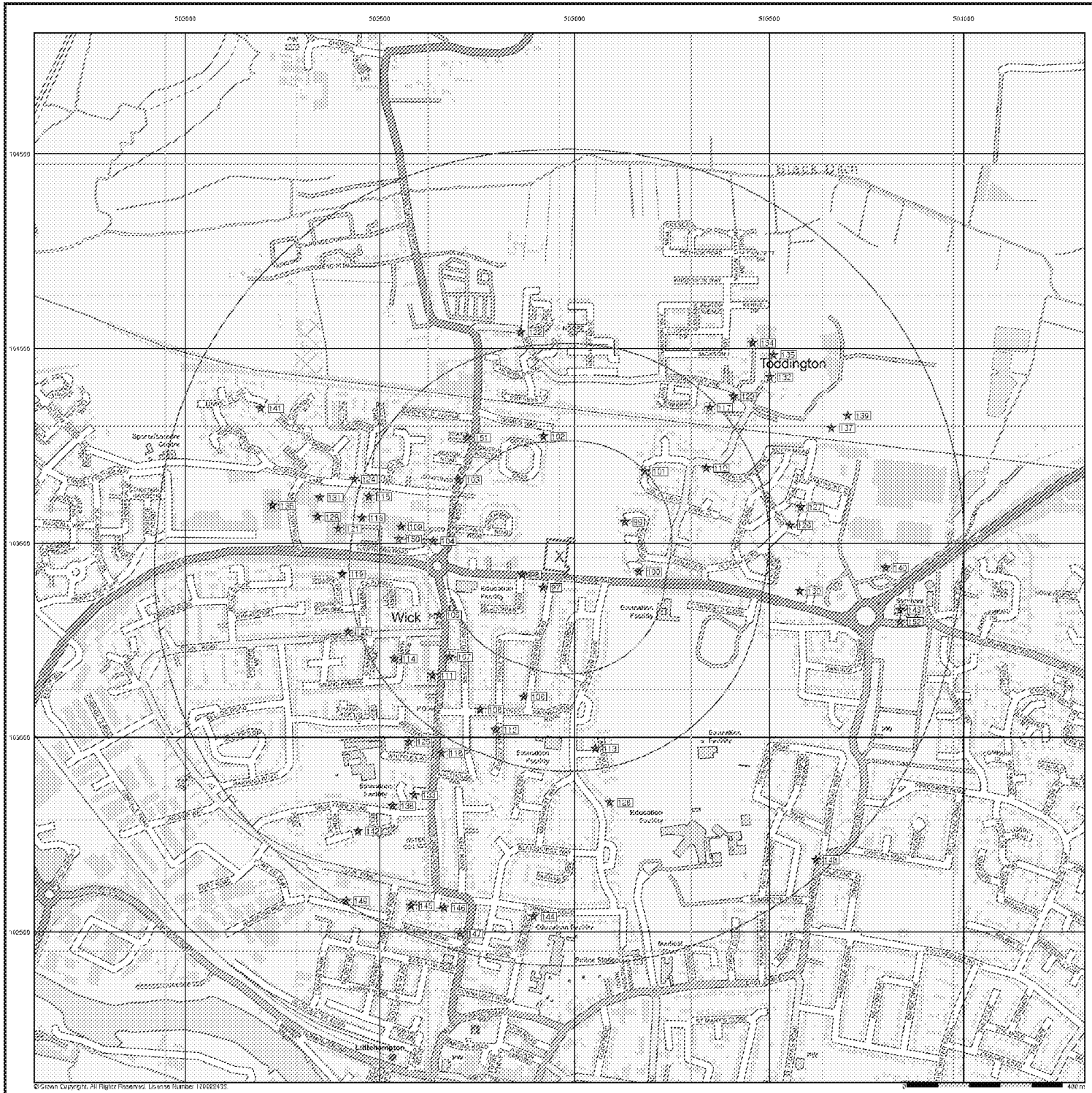
Order Number:	260998885_1_1
Customer Ref:	LP2350
National Grid Reference:	502960, 103470
Slice:	A
Site Area (Ha):	0.46
Search Buffer (m):	1000

Site Details

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Industrial Land Use Map

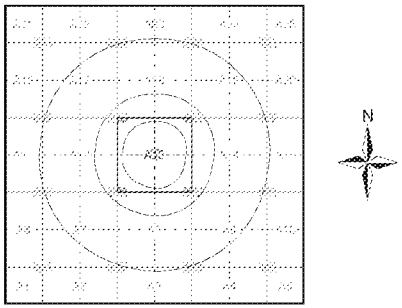
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

Order Number:	260998885_1_1
Customer Ref:	LP2350
National Grid Reference:	502960, 103470
Slice:	A
Site Area (Ha):	0.46
Search Buffer (m):	1000

Site Details

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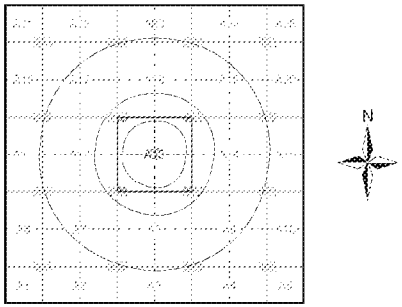
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

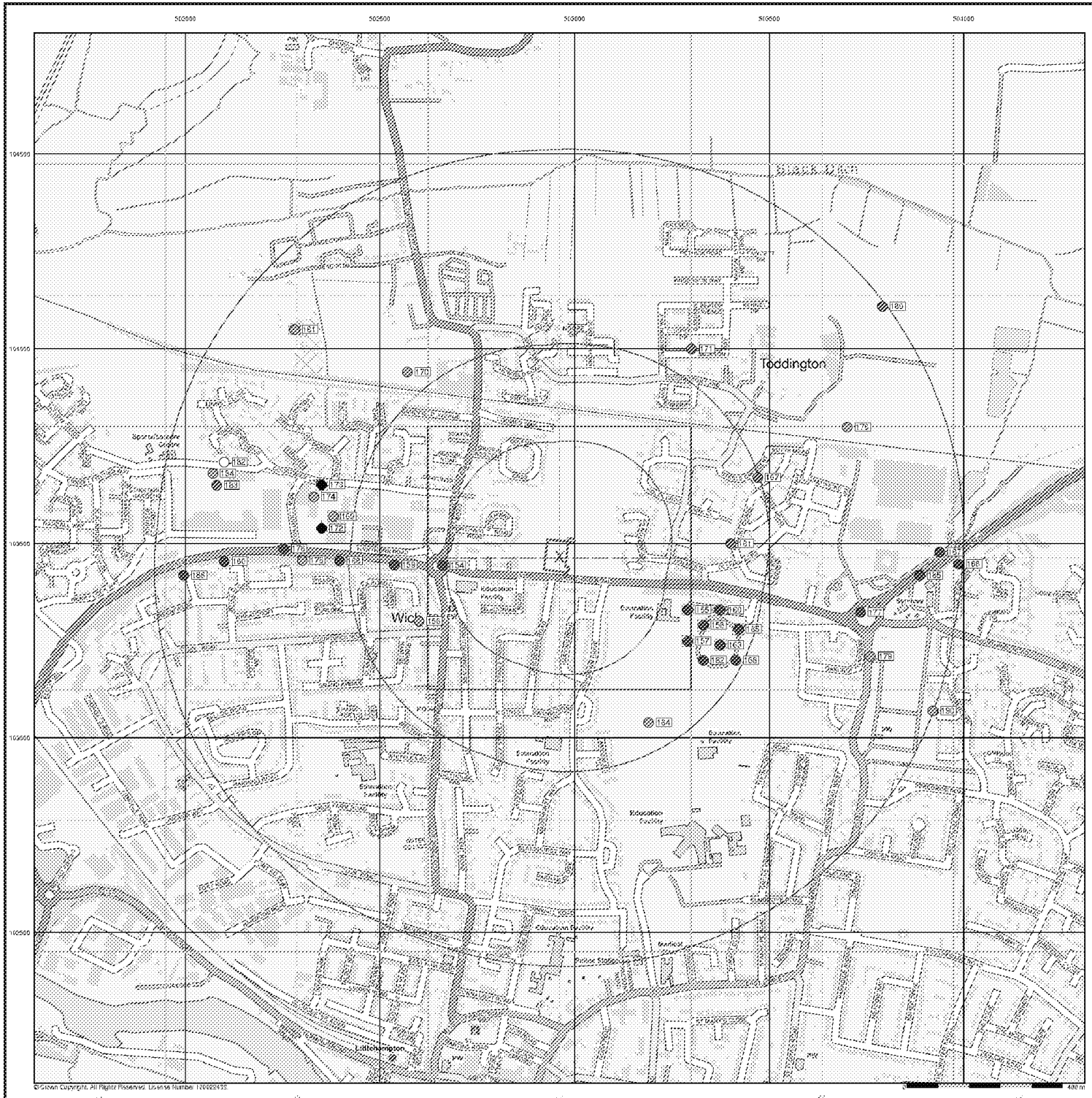
Order Number:	260998885_1_1
Customer Ref:	LP2350
National Grid Reference:	502960, 103470
Slice:	A
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Site Details

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General

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

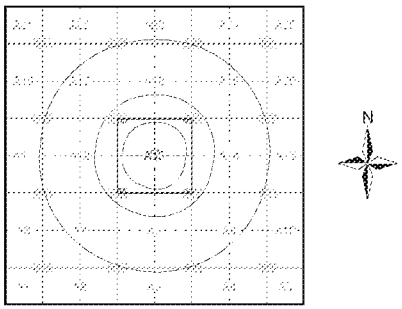
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

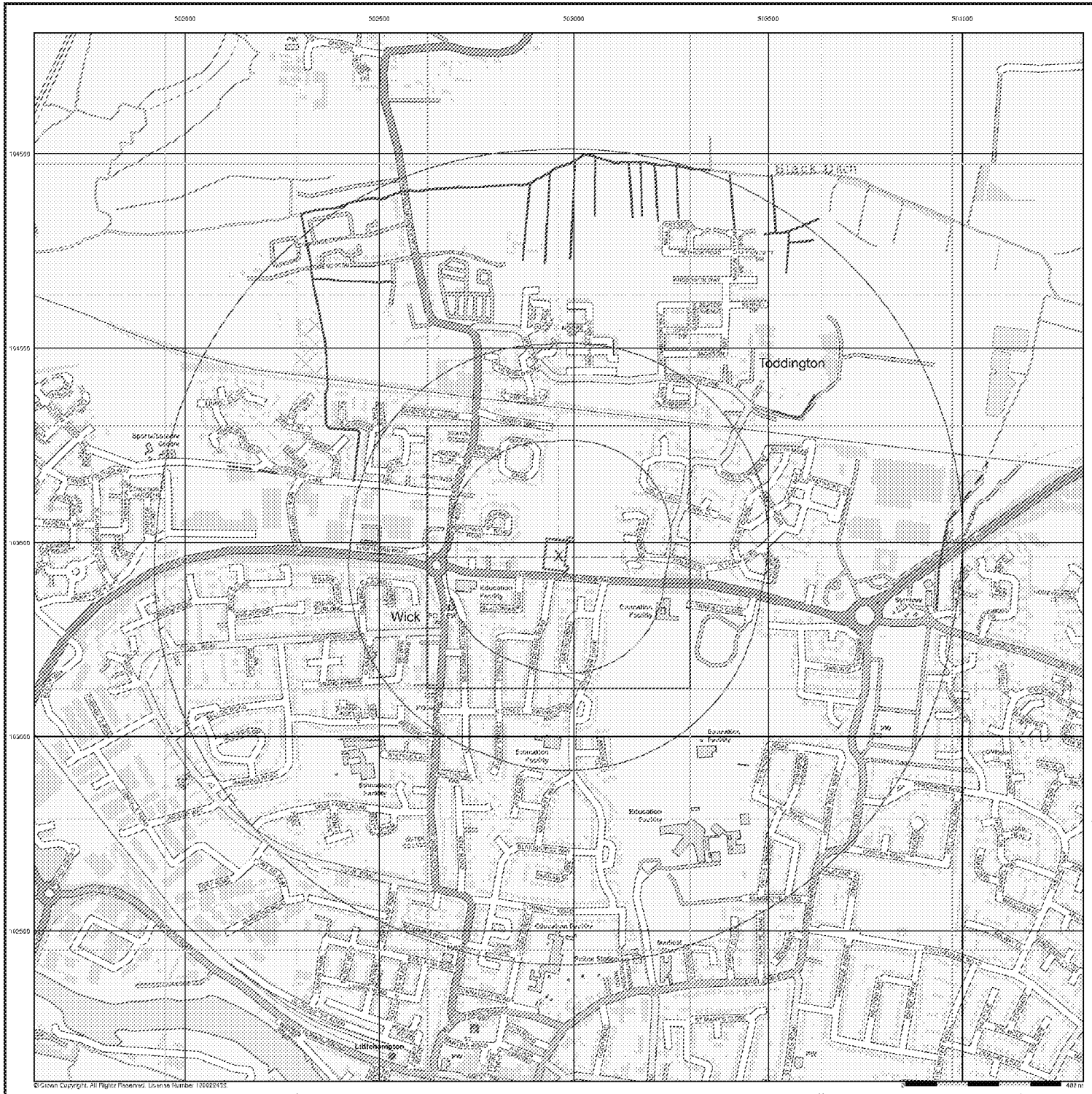
Order Number:	260998885_1_1
Customer Ref:	LP2350
National Grid Reference:	502960, 103470
Slice:	A
Site Area (Ha):	0.46
Search Buffer (m):	1000

Site Details

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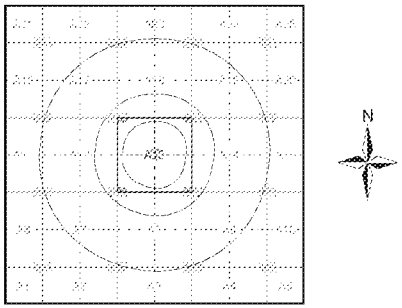
General

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

OS Water Network Data

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

OS Water Network Map - Slice A



Order Details

Order Number:	260998885_1_1
Customer Ref:	LP2350
National Grid Reference:	502960, 103470
Slice:	A
Site Area (Ha):	0.46
Search Buffer (m):	1000

Site Details

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Groundwater Vulnerability

General

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

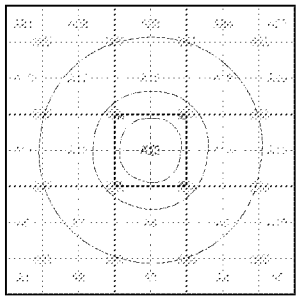
Agency and Hydrological

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

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	260998885_1_1
Customer Ref:	LP2350
National Grid Reference:	502960, 103470
Slice:	A
Site Area (Ha):	0.46
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Site Details

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Bedrock Aquifer Designation

General

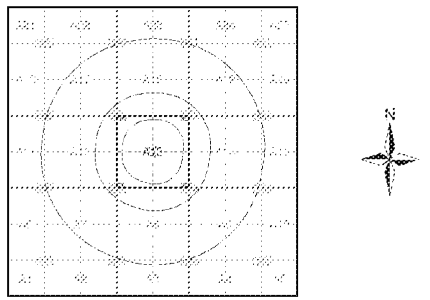
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	260998885_1_1
Customer Ref:	LP2350
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Site Details

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Superficial Aquifer Designation

General

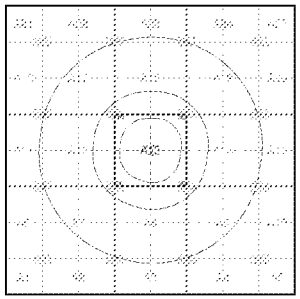
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

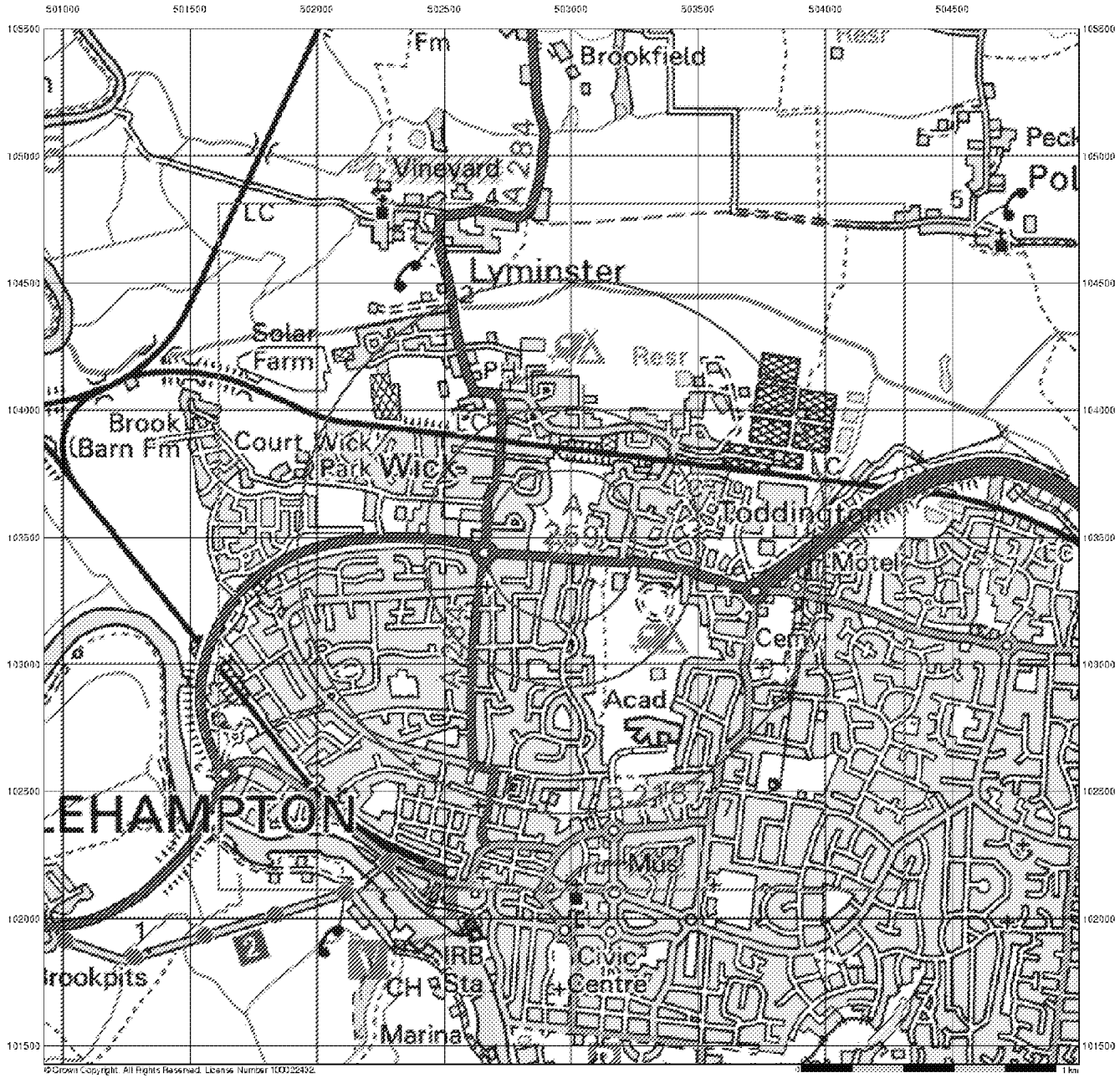
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Source Protection Zones

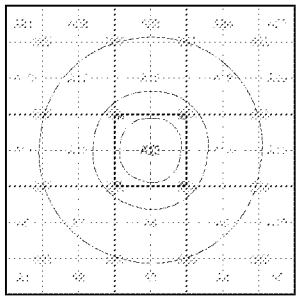
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



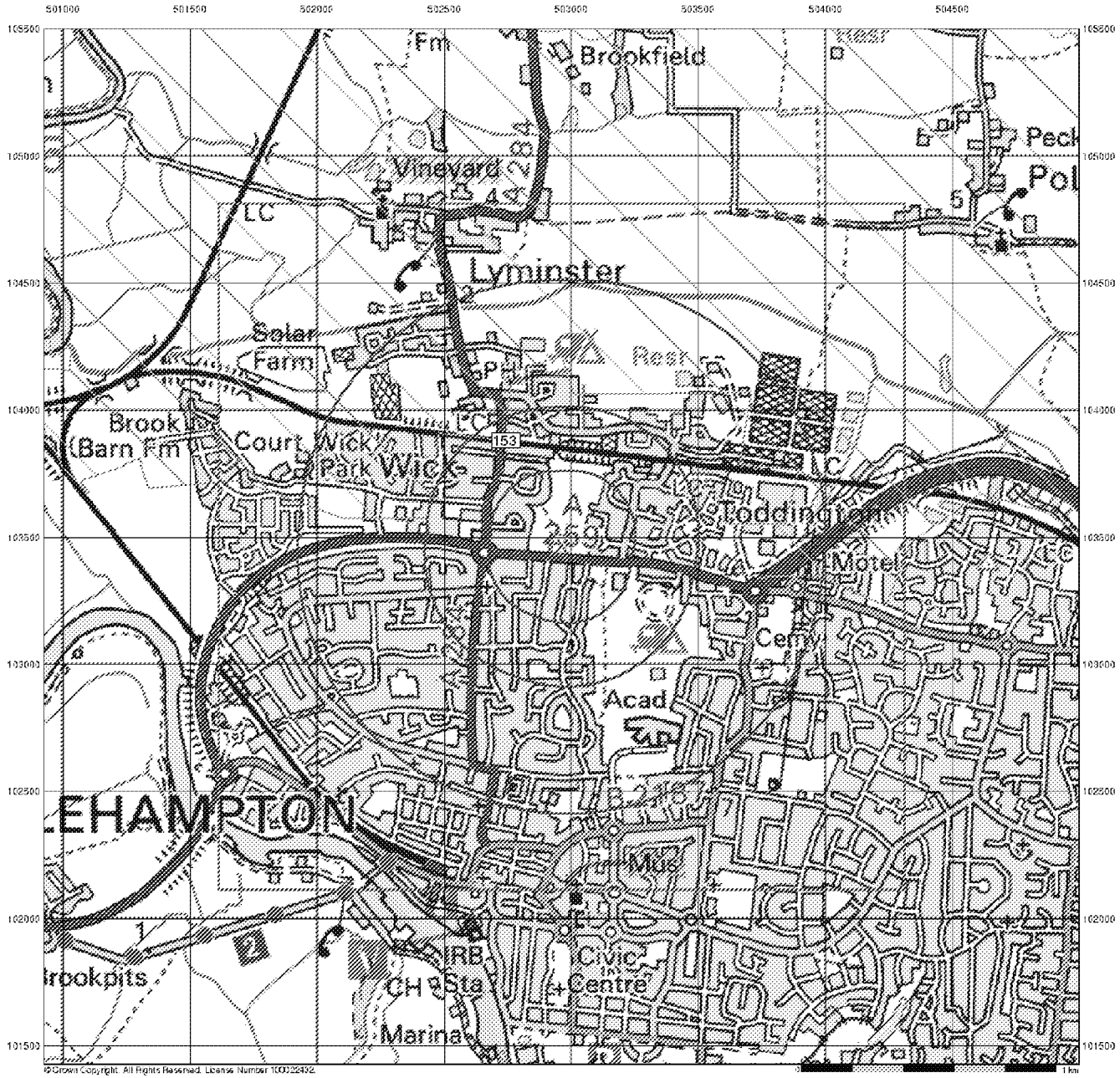
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Sensitive Land Uses

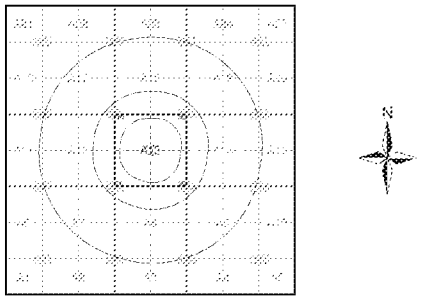
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

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BGS Flood GFS Data

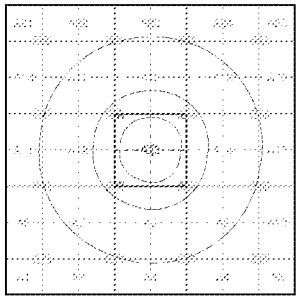
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
260998885_1_1

Customer Reference:
LP2350

National Grid Reference:
502960, 103470

Slice:
A

Site Area (Ha):
0.46

Search Buffer (m):
1000

Site Details:

Worthing Road Allotments
LITTLEHAMPTON
BN17 6JN

Client Details:

Mrs H Smith
Leap Environmental Ltd
The Atrium Business Centre
Curtis Road
Dorking
Surrey
RH4 1XA

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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	23
Hazardous Substances	-
Geological	26
Industrial Land Use	28
Sensitive Land Use	37
Data Currency	38
Data Suppliers	43
Useful Contacts	44

Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes		Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			7	13
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 6			1	1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 6			Yes	
Pollution Incidents to Controlled Waters	pg 6			1	3
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 7				1
River Quality	pg 7				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 7			5	17 (*13)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 16	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 16	2	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 16	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				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 17				49

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 23			1	1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 23				1
Licensed Waste Management Facilities (Locations)	pg 23			1	1
Local Authority Landfill Coverage	pg 24	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 24			1	
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 24			1	3
Registered Waste Treatment or Disposal Sites	pg 25				1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 26	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 26		3	1	
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 26		Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 26	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 27	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 27	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 27	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 28		5	27	58
Fuel Station Entries	pg 36			2	1
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 37			1	
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (W)	0	1	502962 103467
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	0	1	502950 103467
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	313	1	503300 103600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (NW)	409	1	502600 103750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (NW)	425	1	502550 103700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	429	1	502600 103150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	432	1	503400 103300
1	**Discharge Consents** Operator: Store Property Investments Ltd. Property Type: MAKING OF BASIC PHARMACEUTICAL PRODUCTS + PREPS Location: The Body Shop, S. Of Courtwick Ln And, West Of Lyminster Road, Littlehampton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P00319 Permit Version: 1 Effective Date: 20th January 1986 Issued Date: 20th January 1986 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Land/Soakaway Receiving Water: Into Land **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A12NE (W)	333	2	502610 103600
2	**Discharge Consents** Operator: Store Property Investments Ltd Property Type: Undefined Or Other Location: Land North Of Hawthorn Rd And, South Of Courtwick Lane, Littlehampton, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P01069 Permit Version: 1 Effective Date: 24th July 1987 Issued Date: 24th July 1987 Revocation Date: 31st March 1995 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A12NE (W)	427	2	502500 103500
3	**Discharge Consents** Operator: Hargreaves Properties (Portslade) Property Type: Undefined Or Other Location: Land North Of Court Wick Lane, Littlehampton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01569 Permit Version: 1 Effective Date: 30th March 1967 Issued Date: 30th March 1967 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Controlled Sea Receiving Water: Controlled Sea **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	433	2	502570 103750

ARUN DISTRICT COUNCIL LU/263/20/DOC

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Hargreaves Properties (Portslade) Property Type: Undefined Or Other Location: Land North Of Court Wick Lane, Littlehampton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S01569 Permit Version: 1 Effective Date: 30th March 1967 Issued Date: 30th March 1967 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Controlled Sea Receiving Water: Controlled Sea **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	465	2	502560 103790
4	**Discharge Consents** Operator: Kirin Agribio Trading As Yoder Property Type: Mixed Farming Location: Yoder Toddington, Toddington Lane, Littlehampton, West Sussex, Bn17 7pl Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: App/So/55su Permit Version: 1 Effective Date: 1st April 1999 Issued Date: 1st April 1999 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Process Water Discharge Environment: Into Land Receiving Water: Into Land **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	A18SE (N)	438	2	503090 103940
5	**Discharge Consents** Operator: H.Whitaker Esq. Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Hollyacre, Toddington Lane, Littlehampton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P00690 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Into Land **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	487	2	503350 103850
5	**Discharge Consents** Operator: H.Whitaker Esq. Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Hollyacre, Toddington Lane, LITTLEHAMPTON , West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P00690 Permit Version: 1 Effective Date: 29th October 1986 Issued Date: 29th October 1986 Revocation Date: 20th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Into Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	487	2	503350 103850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Firview Nursery Property Type: Mixed Farming Location: Firview Nursery, Toddington Lane, Littlehampton, West Sussex, Bn17 7qp Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: App/So/74su Permit Version: 1 Effective Date: 1st April 1999 Issued Date: 1st April 1999 Revocation Date: 1st April 1999 Discharge Type: Trade Discharge - Process Water Discharge Environment: Into Land Receiving Water: Into Land **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	A14NW (E)	521	2	503520 103530
7	**Discharge Consents** Operator: Arun Valley Mushrooms Ltd Property Type: Mixed Farming Location: Foxdale Horses, Toddington Lane, Littlehampton, West Sussex, Bn17 6jx Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: App/So/65su Permit Version: 1 Effective Date: 1st April 1999 Issued Date: 1st April 1999 Revocation Date: 21st April 2004 Discharge Type: Trade Discharge - Process Water Discharge Environment: Into Land Receiving Water: Into Land **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	559	2	503510 103740
8	**Discharge Consents** Operator: Store Property Investments Ltd. Property Type: Undefined Or Other Location: Hawthorn Road, Littlehampton, & Between Courtwick Lane &, A259 Littlehampton By-Pass, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P04801 Permit Version: 1 Effective Date: 24th May 1993 Issued Date: 24th May 1993 Revocation Date: 23rd June 1995 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A12SE (W)	623	2	502300 103400
9	**Discharge Consents** Operator: West Sussex County Council Property Type: EDUCATION/NURSERY/SCHOOL/COLLEGE/UNI/TRAINING VENUE Location: Littlehampton Comm. School, Hill Road, Littlehampton, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P04113 Permit Version: 1 Effective Date: 24th February 1992 Issued Date: 24th February 1992 Revocation Date: 31st March 1995 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	662	2	503400 102900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: Littlehampton U.D.C. Property Type: Undefined Or Other Location: Civic Amenity Pound, Isolation Hospital Site, Mill Lane , Littlehampton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S02213 Permit Version: 1 Effective Date: 2nd October 1973 Issued Date: 2nd October 1973 Revocation Date: Not Supplied Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Saline Estuary Receiving Water: Saline Estuary **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A18NW (N)	700	2	502920 104210
11	**Discharge Consents** Operator: Van Heyningen Brothers Ltd. Property Type: Undefined Or Other Location: Land Adjacent To Toddington Lane, Wick, Littlehampton, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: N01509 Permit Version: 1 Effective Date: 1st December 1980 Issued Date: 1st December 1980 Revocation Date: 31st March 1997 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	806	2	503580 104070
12	**Discharge Consents** Operator: Fargro Ltd. Property Type: Undefined Or Other Location: Factory Sewage Treatment Plant, Land Off Toddington Lane, , Littlehampton, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S02215 Permit Version: 1 Effective Date: 2nd October 1973 Issued Date: 2nd October 1973 Revocation Date: Not Supplied Discharge Type: Non Water Company (Private) Sewage Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	821	2	503540 104130
13	**Discharge Consents** Operator: The Normans Nurseries Ltd Property Type: Mixed Farming Location: The Normans Nurseries Tld, Court Wick Lane, Littlehampton, West Sussex, Bn17 7pd Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: App/So/95su Permit Version: 1 Effective Date: 1st April 1999 Issued Date: 1st April 1999 Revocation Date: 28th January 2003 Discharge Type: Trade Discharge - Process Water Discharge Environment: Into Land Receiving Water: Into Land **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A12NW (W)	887	2	502050 103620

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Discharge Consents** Operator: Fargro Ltd. Property Type: Undefined Or Other Location: Land North Of Cold Store, & Packing House, Toddington Lane Wick, Littlehampton West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: N02018 Permit Version: 1 Effective Date: 25th April 1979 Issued Date: 25th April 1979 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	891	2	503540 104220
15	**Discharge Consents** Operator: John Denyer And Partners Property Type: Undefined Or Other Location: Bungalow In Old Mead Lane, Lyminster, Littlehampton Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: S02833 Permit Version: 1 Effective Date: 22nd July 1960 Issued Date: 22nd July 1960 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	903	2	502460 104280
16	**Discharge Consents** Operator: Fargro Ltd. Property Type: Undefined Or Other Location: Factory Sewage Treatment Plant, Land Off Toddington Lane, , Littlehampton, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S02215 Permit Version: 1 Effective Date: 2nd October 1973 Issued Date: 2nd October 1973 Revocation Date: Not Supplied Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	907	2	503590 104200
17	**Discharge Consents** Operator: West Sussex County Council Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION Location: A259 Rustington By-Pass, Western Roundabout, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P01566 Permit Version: 1 Effective Date: 17th May 1988 Issued Date: 17th May 1988 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A14NE (E)	941	2	503940 103500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**Discharge Consents** Operator: Farmers & Growers Industries Ltd Property Type: Undefined Or Other Location: Fargro Limited, Toddington Lane, Wick, LITTLEHAMPTON , West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: N02694 Permit Version: 1 Effective Date: 7th August 1981 Issued Date: 7th August 1981 Revocation Date: 31st March 1997 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	988	2	503620 104280
19	**Local Authority Pollution Prevention and Controls** Name: Morrisons Petrol Station Location: Morrisons, Hawthorn Road, Wick, Littlehampton, Bn17 7lr Authority: Arun District Council, Environmental Health Department Permit Reference: 11915 Dated: 25th January 2013 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	306	3	502623 103510
20	**Local Authority Pollution Prevention and Controls** Name: Shell Eastfield Location: Worthing Road, Rustington, LITTLEHAMPTON, West Sussex, BN17 6LE Authority: Arun District Council, Environmental Health Department Permit Reference: 1941 Dated: 14th September 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A14SE (E)	855	3	503836 103328
	Nearest Surface Water Feature	A13SE (E)	259	-	503241 103387
21	**Pollution Incidents to Controlled Waters** Property Type: Industrial: Other Location: Body Shop Hawthorn Road, WICK Authority: Environment Agency, Southern Region Pollutant: Chemicals - Other Organic Note: Spillage Of 583Kg Hairspray Incident Date: 8th April 1998 Incident Reference: 2505 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Industrial Chemicals Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	377	2	502550 103500
22	**Pollution Incidents to Controlled Waters** Property Type: Construction Location: Courtwick Lane, Wick, LITTLEHAMPTON Authority: Environment Agency, Southern Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Stream Bed White Incident Date: 27th November 1996 Incident Reference: 1959 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Inadequate Construction Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	563	2	502400 103700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	**Pollution Incidents to Controlled Waters** Property Type: Agricultural Location: Tributary Black Ditch, South Of Thornlea Park Estate Authority: Environment Agency, Southern Region Pollutant: Oils - Other Fuel Oil Note: Oil; Horticultural Incident Date: 8th March 1995 Incident Reference: 1239 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	A17NE (NW)	899	2	502300 104150
24	**Pollution Incidents to Controlled Waters** Property Type: Transport, Storage, Communications Location: Black Ditch, LYMINSTER Authority: Environment Agency, Southern Region Pollutant: Organic Chemicals : Mixed / Unidentified / Waste Mineral & Synthetic Oils Note: Not Supplied Incident Date: 26th March 1999 Incident Reference: 2026 Catchment Area: Arun Receiving Water: Potential River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Approximate location provided by supplier	A17NE (NW)	952	2	502400 104300
25	**Registered Radioactive Substances** Name: Horticulture Research International Location: Worthing Road, LITTLEHAMPTON, West Sussex, BN17 6LP Authority: Environment Agency, Southern Region Permit Reference: AH5094 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation either revoked or cancelled** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	599	2	503583 103370
	River Quality Name: Black Ditch GQA Grade: River Quality D Reach: Tidal R. Arun - Clapham Stw Estimated Distance (km): 8.2 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A23SW (N)	979	2	502804 104481
26	**Water Abstractions** Operator: Yoder Toddington Ltd Licence Number: 10/41/414025 Permit Version: 101 Location: Firview Nursery Toddington Lane 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: 17th October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (E)	463	2	503460 103560

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Water Abstractions** Operator: Yoder Toddington Ltd Licence Number: 10/41/414025 Permit Version: 101 Location: Firview Nursery Toddington Lane 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: 17th October 2003 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (E)	463	2	503460 103560
26	**Water Abstractions** Operator: Firview Nursery Licence Number: 10/41/414025 Permit Version: 100 Location: Firview Nursery Toddington Lane 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: 23rd March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NW (E)	463	2	503460 103560
26	**Water Abstractions** Operator: Firview Nursery Licence Number: 10/41/414025 Permit Version: 100 Location: Firview Nursery Toddington Lane 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: 23rd March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (E)	463	2	503460 103560
26	**Water Abstractions** Operator: Firview Nursery Licence Number: 414025A Permit Version: Not Supplied Location: Firview Nursery, Toddington Lane, LITTLEHAMPTON Authority: Environment Agency, Southern Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Pond or Lake Daily Rate (m3): 68 Yearly Rate (m3): 511 Details: Additional Purpose: Spray Irrigation 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	A14NW (E)	467	2	503465 103555

ARUN DISTRICT COUNCIL LU/263/20/DOC

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**Water Abstractions** Operator: Farfield Plants Limited Licence Number: 10/41/411012 Permit Version: 102 Location: Borehole At Sandfield Nurseries 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: 13th November 2006 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	583	2	502560 103960
27	**Water Abstractions** Operator: Sandfield Plant Ltd Licence Number: 10/41/411012 Permit Version: 101 Location: Borehole At Sandfield Nurseries 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: 1st November 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	583	2	502560 103960
28	**Water Abstractions** Operator: Kirin Agribo Toddington Ltd Licence Number: 24/067 Permit Version: 1 Location: Borehole At Point 'A' At Kirin Agribo Toddington Nurseries 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: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SE (N)	606	2	503090 104110
29	**Water Abstractions** Operator: Yoder Toddington Ltd Licence Number: 10/41/414019 Permit Version: 101 Location: Foxdale Nursery Toddington Lane 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: 1st November 2004 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	627	2	503580 103750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**Water Abstractions** Operator: D W P Dales & Co Licence Number: 10/41/414019 Permit Version: 100 Location: Foxdale Nursery Toddington Lane 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	A14NW (NE)	627	2	503580 103750
30	**Water Abstractions** Operator: Yoder Toddington Ltd Licence Number: 10/41/414031 Permit Version: 101 Location: Foxdale Nursery Toddington Lane (A) 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 April Authorised End: 31 March Permit Start Date: 1st November 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NE (E)	788	2	503760 103720
30	**Water Abstractions** Operator: D W P Dales & Co Licence Number: 10/41/414031 Permit Version: 100 Location: Foxdale Nursery Toddington Lane (A) 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 April Authorised End: 31 March Permit Start Date: 1st August 1968 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NE (E)	788	2	503760 103720
31	**Water Abstractions** Operator: G F Molica Esq Licence Number: 24/065 Permit Version: 100 Location: Torri House 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: 1st April 2008 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	796	2	502320 104020

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**Water Abstractions** Operator: A F Molica Esq Licence Number: 24/064 Permit Version: 100 Location: Marina House 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: 1st April 2008 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	822	2	502320 104060
32	**Water Abstractions** Operator: The Norman Nurseries Ltd Licence Number: 411011 Permit Version: Not Supplied Location: Norman Nurseries, Courtwick Lane, LITTLEHAMPTON Authority: Environment Agency, Southern Region Abstraction: Garden Centre, Non Domestic Garden Or Horticulture Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 55 Yearly Rate (m3): 9092 Details: H5 Chalk Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Unknown	A12NW (W)	851	2	502090 103645
32	**Water Abstractions** Operator: Yoder Toddington Ltd Licence Number: 10/41/411004 Permit Version: 101 Location: Normans Nurseries Courtwick Lane Authority: Environment Agency, Southern Region Abstraction: Horticulture and Nurseries: Animal Watering & General Use (Non Agricultural) 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: 31 March Permit Start Date: 6th October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (W)	864	2	502080 103660
32	**Water Abstractions** Operator: The Normans Nurseries Ltd Licence Number: 10/41/411004 Permit Version: 100 Location: Normans Nurseries Courtwick Lane Authority: Environment Agency, Southern Region Abstraction: Horticulture and Nurseries: Animal Watering & General Use (Non Agricultural) 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: 31 March Permit Start Date: 14th July 1993 Permit End Date. Not Supplied Positional Accuracy: Unknown	A12NW (W)	864	2	502080 103660

ARUN DISTRICT COUNCIL LU/263/20/DOC

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**Water Abstractions** Operator: Mr G Molica-Franco Licence Number: 24/062 Permit Version: 103 Location: Sandfield Nursery 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 January Authorised End: 31 December Permit Start Date: 16th June 2009 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	889	2	502240 104070
33	**Water Abstractions** Operator: Farfield Plants Limited Licence Number: 24/062 Permit Version: 102 Location: Sandfield Nursery 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 January Authorised End: 31 December Permit Start Date: 13th November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	889	2	502240 104070
33	**Water Abstractions** Operator: Sandfield Plant Ltd Licence Number: 24/062 Permit Version: 101 Location: Sandfield Nursery 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 January Authorised End: 31 December Permit Start Date: 1st November 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	889	2	502240 104070
34	**Water Abstractions** Operator: Mr K Langmead Licence Number: 10/41/414014 Permit Version: 101 Location: Black Ditch At Manor Farm Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2006 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (N)	981	2	503250 104460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	**Water Abstractions** Operator: Mr K Langmead Licence Number: 10/41/414014 Permit Version: 100 Location: Black Ditch At Manor Farm Authority: Environment Agency, Southern Region Abstraction: General Agriculture. Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 2nd April 1987 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	981	2	503250 104460
	Water Abstractions Operator: J A Longhurst Ltd Licence Number: 414020 Permit Version: Not Supplied Location: Black Ditch , Church Farm, LYMINSTER Authority: Environment Agency, Southern Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 655 Yearly Rate (m3): 9090 Details: Tributary Of Arun 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	A19NW (N)	1002	2	503350 104450
	Water Abstractions Operator: Store Property Investments Licence Number: 414034 Permit Version: Not Supplied Location: Black Ditch, Church Farm, BODYSHOP SITE Authority: Environment Agency, Southern Region Abstraction: Impounding Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Tributary Of Arun Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Unknown	A15NW (E)	1007	2	504000 103630
	Water Abstractions Operator: P Perella Licence Number: 24/059 Permit Version: 100 Location: Glenvilla Lyminster 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: 21st May 1992 Permit End Date. Not Supplied Positional Accuracy: Unknown	A17NW (NW)	1013	2	502180 104190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Ministry Of Agriculture; Fisheries & Food Licence Number: 414028 Permit Version: Not Supplied Location: Former Glasshouse Crops Research Inst, LITTLEHAMPTON Authority: Environment Agency, Southern Region Abstraction: Garden Centre, Non Domestic Garden Or Horticulture Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 136 Yearly Rate (m3): 5682 Details: H5 Chalk; Licence Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date. Not Supplied Positional Accuracy: Unknown	A15SW (E)	1202	2	504180 103280
	Water Abstractions Operator: Ministry Of Agriculture Fisheries & Food Licence Number: 414028 Permit Version: Not Supplied Location: Former , Glasshouse Crops Research Inst, LITTLEHAMPTON Authority: Environment Agency, Southern Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: H5 Chalk; Licence Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Unknown	A15SW (E)	1219	2	504200 103295
	Water Abstractions Operator: A H Bowerman & Son Ltd Licence Number: 10/41/411003 Permit Version: 100 Location: Court Wick Park Littlehampton 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: See Licence Map Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11NE (W)	1236	2	501720 103760
	Water Abstractions Operator: J A Longhurst Licence Number: 10/41/414020 Permit Version: 100 Location: Black Ditch At Church Farm Lyminster Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 655 Yearly Rate (m3): 9090.8 Details: See Licence Map Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2016 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 100m	A16NE (NW)	1393	2	501790 104310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Arc Ltd (Solent Aggregates Ltd) Licence Number: 10/41/411021 Permit Version: 100 Location: River Arun Estuary - Tidal Authority: Environment Agency, Southern Region Abstraction: Construction. General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Tidal 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: 1st April 2016 Permit End Date. Not Supplied Positional Accuracy: Unknown	A1NE (SW)	1497	2	501910 102330
	Water Abstractions Operator: A M Harriott & Son Licence Number: 411102 Permit Version: Not Supplied Location: Watercourse , Broomhurst Farm, LYMINSTER Authority: Environment Agency, Southern Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 458 Yearly Rate (m3): 24999 Details: Tributary Of Arun 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	A23NW (N)	1566	2	502880 105075
	Water Abstractions Operator: Mrs Srv Biddlecombe Licence Number: 24/060 Permit Version: 101 Location: Knucker Hole Fish Farm Authority: Environment Agency, Southern Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow 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: 16th April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1684	2	502250 105050
	Water Abstractions Operator: Mr Ainley-Smith Licence Number: 24/060 Permit Version: 100 Location: Knucker Hole Fish Farm Authority: Environment Agency, Southern Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow 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: 30th June 1992 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1684	2	502250 105050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr J L Baird Licence Number: 10/41/411016 Permit Version: 100 Location: Ryebank Rife And Elmer Rife Authority: Environment Agency, Southern Region Abstraction: General Agriculture. Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 1091 Yearly Rate (m3): 27272 Details: See Licence Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 8th December 2005 Permit End Date. Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NE (SW)	1722	2	501710 102210
	Water Abstractions Operator: James D Baird (Home Farm) Ltd Licence Number: 10/41/411016 Permit Version: 101 Location: Ryebank Rife Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 16th April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NE (SW)	1751	2	501720 102160
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: High	A13NE (W)	0	4	502962 103467
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: High	A13NE (E)	0	4	503000 103467
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Problems Unlikely	A13NE (W)	0	4	502962 103467
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Problems Unlikely	A13NE (E)	0	4	503000 103467
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13NE (W)	0	4	502962 103467
	Superficial Aquifer Designations Aquifer Designation. Secondary Aquifer - A	A13NE (W)	0	4	502962 103467

ARUN DISTRICT COUNCIL LU/263/20/DOC

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 318.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A12NE (W)	519	5	502434 103661
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A19SW (NE)	607	5	503512 103837
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 77.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A19SW (NE)	652	5	503572 103823
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A17SE (NW)	688	5	502366 103903
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 250.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A17SE (NW)	704	5	502366 103930
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NW (N)	709	5	502926 104219
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A12NW (W)	715	5	502236 103678

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 242.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	717	5	502990 104230
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NW (N)	721	5	502869 104228
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 208.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A17NE (NW)	768	5	502535 104168
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A12NW (W)	779	5	502172 103689
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NW (N)	799	5	502931 104310
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 108.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NW (N)	805	5	502877 104313
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A12NW (W)	817	5	502135 103694
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 142.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	833	5	503054 104342
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 133.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	840	5	503151 104337

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 137.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	845	5	503216 104328
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 129.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	849	5	503176 104342
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 124.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	868	5	503270 104336
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A19NW (NE)	875	5	503547 104194
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 137.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A19NW (NE)	898	5	503413 104308
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A17NE (NW)	899	5	502328 104177
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NW (N)	912	5	502887 104421
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 596.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Ditch Catchment Name: Rother and Arun Primacy: 1	A18NW (N)	913	5	502868 104420
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Ditch Catchment Name: Rother and Arun Primacy: 1	A18NW (N)	915	5	502885 104423

ARUN DISTRICT COUNCIL LU/263/20/DOC

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 144.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A17NE (NW)	921	5	502324 104203
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A19NW (NE)	923	5	503492 104292
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NW (N)	931	5	502939 104442
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A19NW (NE)	939	5	503552 104271
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A19NW (NE)	939	5	503552 104271
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Ditch Catchment Name: Rother and Arun Primacy: 1	A18NW (N)	941	5	502938 104453
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 103.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A14SE (E)	942	5	503938 103426
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 123.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A14SE (E)	942	5	503938 103432
68	**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	A19NW (NE)	943	5	503520 104297

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A19NW (NE)	943	5	503520 104297
70	**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	A18NE (N)	960	5	503002 104472
71	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 188.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A14NE (E)	963	5	503961 103553
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A19NW (NE)	965	5	503554 104301
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 59.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Ditch Catchment Name: Rother and Arun Primacy: 1	A23SE (N)	969	5	503002 104482
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	970	5	503142 104471
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 90.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Ditch Catchment Name: Rother and Arun Primacy: 1	A23SE (N)	971	5	503104 104476
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A23SE (N)	974	5	503056 104484
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	975	5	503171 104471

ARUN DISTRICT COUNCIL LU/263/20/DOC

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	977	5	503208 104466
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Ditch Catchment Name: Rother and Arun Primacy: 1	A23SE (N)	977	5	503143 104478
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Ditch Catchment Name: Rother and Arun Primacy: 1	A23SE (N)	982	5	503171 104478
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Ditch Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	984	5	503208 104473
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	985	5	503264 104460
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Black Ditch Catchment Name: Rother and Arun Primacy: 1	A18NE (N)	994	5	503264 104470

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Worthing Road, Littlehampton, Sussex Name: Cornfield Close Caravan Site Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19985 First Input Date: 31st December 1960 Last Input Date: 31st December 1970 Specified Waste Type: Deposited Waste included Inert, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 3800/8118 BGS Ref: Not Supplied Other Ref: WD27/153	A13SE (SE)	318	2	503290 103331
85	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Littlehampton, Sussex Name: Brook Barn Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19997 First Input Date: 31st December 1970 Last Input Date: 31st December 1975 Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 3800/8013 BGS Ref: Not Supplied Other Ref: WD27/248	A17SW (NW)	951	2	502081 103938
86	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Tulley'S Nurseries Licence Number: 19665 Location: Tulley's Nurseries, Toddington Lane, Wick, Littlehampton, West Sussex, BN17 7PW Licence Holder: K C Tulley Nurseries Ltd Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) Max Input Rate: Not Supplied **Licence Status: Expired** Issued: 10th November 1993 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A14NE (E)	961	2	503933 103738
87	**Licensed Waste Management Facilities (Locations)** Licence Number: 19665 Location: Tulley's Nurseries, Toddington Lane, Wick, Littlehampton, West Sussex, BN17 7PW Operator Name: K C Tulley Nurseries Ltd Operator Location: Not Supplied Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction) **Licence Status: Expired** Issued: 10th November 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	494	2	503400 103800
88	**Licensed Waste Management Facilities (Locations)** Licence Number: 19684 Location: Mill Lane, Littlehampton, West Sussex, BN17 7PH Operator Name: Viridor Waste Management Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Household Waste Amenity Sites **Licence Status: Modified** Issued: 1st September 1995 Last Modified: 16th January 2017 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	691	2	502900 104200

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	6	502962 103467
	Local Authority Landfill Coverage Name: West Sussex County Council - Has supplied landfill data		0	7	502962 103467
89	**Local Authority Recorded Landfill Sites** Location: Worthing Road, Land Adjoining Cornfield Close, Littlehampton Reference: JU/310/91 Authority: West Sussex County Council, Environment & Development **Last Reported Status:** **Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Applicable	A14SW (SE)	382	7	503300 103200
90	**Registered Waste Transfer Sites** Licence Holder: The Body Shop International Plc Licence Reference: WSX/L1/0008 Site Location: Watersmead Business Park, Littlehampton, West Sussex Operator Location: As Site Address Authority: Environment Agency - Southern Region, Sussex Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st April 1993 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Cardboard, Newspaper, Books Glass Max.Waste Permitted By Licence Plastic Cont'Rs, Aluminium Cans Plastic Film Textiles Prohibited Waste: Waste Containing Hazardous Mat'Ls	A12NE (W)	427	2	502500 103500
91	**Registered Waste Transfer Sites** Licence Holder: Wyvern Waste Services Ltd Licence Reference: WSX/L1/0150/2 Site Location: Littlehampton C.A.Site, Mill Lane, Littlehampton, West Sussex, Bn17 7ph Operator Location: Chiltern House, 15-17 Silver Street, TAUNTON, Somerset, TA1 3DH Authority: Environment Agency - Southern Region, Sussex Area Site Category: Civic Amenity Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 1st September 1995 Preceded By Licence: 5/BX/90 (5/AJ/90) Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Household Waste Max.Storage In Licence Max.Waste Permitted By Licence Sanitary Towels, Nappies, Bandages Prohibited Waste: Asbestos Clinical Wastes - Except Exposive Waste Motor Vehicles Radioactive Waste W.Excav/Redev. Tips/Gaswks/Chem.Prems Waste From Businesses Waste From Gulley Emptiers Waste From Refuse Coll'N Vehicles Waste From Road Sweepers Waste From Skips Waste From Tankers	A18NW (N)	688	2	502950 104200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Registered Waste Transfer Sites				
91	Licence Holder: West Sussex C.C. Licence Reference: 5/BX/90 (5/AJ/90) Site Location: Littlehampton C/A Site, Mill Lane, Littlehampton, West Sussex Operator Location: County Hall, CHICHESTER, West Sussex, PO19 1RH Authority: Environment Agency - Southern Region, Sussex Area Site Category: Civic Amenity Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: 1st March 1991 Preceded By Licence: . Superseded By Licence: WSX/L1/0150/2 Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Batteries Civic Amenity / Household Waste incl. Fridges/Freezers Paper/Cardboard Waste Scrap Metal Waste Oil	A18NW (N)	688	2	502950 104200
	Registered Waste Transfer Sites				
91	Licence Holder: West Sussex C.C. Licence Reference: . Site Location: Littlehampton C.A.Site, Mill Lane, Littlehampton, West Sussex, Bn17 7ph Operator Location: County Hall, CHICHESTER, West Sussex, PO19 1RH Authority: Environment Agency - Southern Region, Sussex Area Site Category: Civic Amenity Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: Not Supplied Preceded By Licence: Not Given Superseded By Licence: 5/BX/90 (5/AJ/90) Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Non-Toxic Wastes Delivered By Public Prohibited Waste: Waste Produced In Trade Or Business	A18NW (N)	688	2	502950 104200
	Registered Waste Treatment or Disposal Sites				
92	Licence Holder: Mrs D E White Licence Reference: WSX/L1/0024 Site Location: Barn Works, Wick Street, Littlehampton, West Sussex Operator Location: White Lodge, Toddington Lane, Littlehampton, West Sussex Authority: Environment Agency - Southern Region, Sussex Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st March 1994 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Compressed Gas Cylinders Domestic Electrial Appliances Electric/Electronic Components Electric/Electronic Fitt.Fixture/Appl. Empty Used Containers Capacity > 25 L Ferrous Metal Scrap Lead/Acid Batteries Max.Waste Permitted By Licence Motor Vehicles Non-Ferrous Metal Scrap Prohibited Waste: Asbestos Metallic Powders Pcb'S And Analogues Percussive/Explosive/Similar Waste Special Wastes N.O.S. Sub'S Control. Radioactive Subs Act'60 Waste N.O.S. Waste React.Violently W/Water Or Air	A8NW (SW)	505	2	502700 102980

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	502962 103467
93	**BGS Recorded Mineral Sites** Site Name: Wick Brick Works Location: Wick, Littlehampton, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 157620 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Terrace Deposits (Undifferentiated) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	75	1	502856 103521
94	**BGS Recorded Mineral Sites** Site Name: Worthing Road Brickfield Location: Wick, Littlehampton, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 16127 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Terrace Deposits Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SE (S)	117	1	503010 103300
95	**BGS Recorded Mineral Sites** Site Name: Worthing Road Brickfield Location: Wick, Littlehampton, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 16126 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Terrace Deposits Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	241	1	502830 103210
96	**BGS Recorded Mineral Sites** Site Name: Toddington Brickfield Location: Littlehampton, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 16125 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Terrace Deposits Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	346	1	503309 103299
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	100	1	503100 103467
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	502962 103467
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	502962 103467
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	502962 103467
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	58	1	503046 103470

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	175	1	502993 103688
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	502962 103467
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	502962 103467
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	502962 103467
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	502962 103467
	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	502962 103467

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97	**Contemporary Trade Directory Entries** Name: Bluelight Distributions Location: 8, Lansdowne Road, Wick, Littlehampton, West Sussex, BN17 6JQ Classification: Distribution Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	48	-	502919 103385
98	**Contemporary Trade Directory Entries** Name: Frank Clarke Location: Worthing Rd, Wick, Littlehampton, West Sussex, BN17 6JR Classification: Cabinet Makers **Status:** **Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	59	-	502865 103418
99	**Contemporary Trade Directory Entries** Name: Maxicause Ltd Location: 21, Toddington Park, Wick, Littlehampton, BN17 6JZ Classification: Heat Exchangers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	137	-	503130 103554
100	**Contemporary Trade Directory Entries** Name: Chauffer Services Ltd Location: 7, Toddington Park, Wick, Littlehampton, West Sussex, BN17 6JZ Classification: Car Engine Tuning & Diagnostic Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (E)	180	-	503166 103427
101	**Contemporary Trade Directory Entries** Name: Superior Location: Holly Dr, Wick, Littlehampton, West Sussex, BN17 6LB Classification: Window Frame Manufacturers **Status:** **Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	250	-	503180 103684
101	**Contemporary Trade Directory Entries** Name: House Of Tees Location: 23, Holly Drive, Wick, LITTLEHAMPTON, West Sussex, BN17 6LB Classification: T-Shirts **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	276	-	503170 103728
102	**Contemporary Trade Directory Entries** Name: Thermatron Location: 39, Griffin Crescent, Wick, Littlehampton, West Sussex, BN17 7LH Classification: Electronic Equipment - Manufacturers & Assemblers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	265	-	502921 103774
103	**Contemporary Trade Directory Entries** Name: Lyminster Road Motor Co Location: Lyminster Rd, Wick, Littlehampton, West Sussex, BN17 7LF Classification: Car Dealers - Used **Status:** **Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	275	-	502702 103662
104	**Contemporary Trade Directory Entries** Name: Morrisons Petrol Station Location: Hawthorn Road, Wick, Littlehampton, West Sussex, BN17 7LA Classification: Petrol Filling Stations **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A13NW (W)	291	-	502637 103505
105	**Contemporary Trade Directory Entries** Name: Sts Communication Ltd Location: 143, Wick Street, Wick, Littlehampton, West Sussex, BN17 7JY Classification: Telecommunications Equipment & Systems **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	295	-	502651 103316
106	**Contemporary Trade Directory Entries** Name: Austins Location: 68, Lansdowne Road, Wick, Littlehampton, West Sussex, BN17 6JG Classification: Carpet, Curtain & Upholstery Cleaners **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	326	-	502869 103105
107	**Contemporary Trade Directory Entries** Name: R W P Group - Your Marketing Services Partner Location: 108, Wick Street, Wick, Littlehampton, BN17 7JS Classification: Printers **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	331	-	502679 103208

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107	**Contemporary Trade Directory Entries** Name: R W P Location: 108, Wick Street, Wick, Littlehampton, West Sussex, BN17 7JS Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	331	-	502679 103208
108	**Contemporary Trade Directory Entries** Name: Arun Laundry Location: 11, North Street, Wick, Littlehampton, West Sussex, BN17 6JJ Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (SW)	375	-	502772 103090
108	**Contemporary Trade Directory Entries** Name: The Car Surgery Littlehampton Ltd Location: 9, North Street, Wick, Littlehampton, West Sussex, BN17 6JJ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NW (SW)	397	-	502758 103072
109	**Contemporary Trade Directory Entries** Name: Morrisons Petrol Station Location: Hawthorn Road, Wick, Littlehampton, West Sussex, BN17 7LA Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	378	-	502554 103542
110	**Contemporary Trade Directory Entries** Name: Temple Spa Location: Toddington La, Wick, Littlehampton, West Sussex, BN17 6JX Classification: Cosmetic Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A14NW (NE)	384	-	503338 103693
111	**Contemporary Trade Directory Entries** Name: Wick Launuderette Location: 93, Wick Street, Wick, Littlehampton, BN17 7JN Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	395	-	502636 103160
111	**Contemporary Trade Directory Entries** Name: Wick Launuderette Location: 93, Wick Street, Wick, Littlehampton, West Sussex, BN17 7JN Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	396	-	502636 103160
111	**Contemporary Trade Directory Entries** Name: Littlehampton Blinds Location: 5-6 True Blue Precinct, Wick Street, Wick, Littlehampton, BN17 7JN Classification: Blinds, Awnings & Canopies **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	427	-	502612 103139
112	**Contemporary Trade Directory Entries** Name: S G Tank Insulation Location: 6, Sussex Street, Wick, Littlehampton, West Sussex, BN17 6JD Classification: Tank Cleaning & Repairing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	432	-	502797 103020
113	**Contemporary Trade Directory Entries** Name: R S Vehicle Inspections Location: 1, Amberley Close, Wick, Littlehampton, West Sussex, BN17 6HN Classification: Vehicle Inspection Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (S)	447	-	503053 102972
114	**Contemporary Trade Directory Entries** Name: Shanks Printers & Finishers Location: 10, Selwyn Avenue, Wick, Littlehampton, BN17 7NF Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	449	-	502536 103203
115	**Contemporary Trade Directory Entries** Name: Oval Automation Location: Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Electronic Engineers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A12NE (W)	455	-	502491 103627

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115	**Contemporary Trade Directory Entries** Name: Comm Systems Ltd Location: Martello Enterprise Centre, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Telecommunications Equipment & Systems **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	464	-	502474 103593
115	**Contemporary Trade Directory Entries** Name: Equipe Location: Unit 1-2, Martello Enterprise Centre, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Electronic Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	472	-	502471 103619
115	**Contemporary Trade Directory Entries** Name: Roscomac Ltd Location: Roscomac, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7LD Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	472	-	502471 103619
115	**Contemporary Trade Directory Entries** Name: Shoreline Uk Ltd Location: Martello Enterprise Centre, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Refrigeration Equipment Manufacturers & Distributors **Status: Active** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	478	-	502460 103596
115	**Contemporary Trade Directory Entries** Name: Mole Media Display Solutions Location: Unit 15, Martello Enterprise Centre, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Printing Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	484	-	502454 103597
115	**Contemporary Trade Directory Entries** Name: Studio Repro Location: Unit 3, Martello Enterprise Centre, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	502	-	502446 103640
115	**Contemporary Trade Directory Entries** Name: Studio Digital Location: Unit 3, Martello Enterprise Centre, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	502	-	502446 103640
115	**Contemporary Trade Directory Entries** Name: Dragon Performance (Uk) Ltd Location: Unit 3-4,Martello Enterprise Centre,Courtwick La, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Car Engine Tuning & Diagnostic Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	502	-	502446 103640
115	**Contemporary Trade Directory Entries** Name: B R & D Engineering Location: Unit 6/7, Martello Enterprise Centre, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	504	-	502439 103620
115	**Contemporary Trade Directory Entries** Name: Cool Blue Location: Unit 6/7, Martello Enterprise Centre, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Jewellery Manufacturers & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	504	-	502439 103620

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	**Contemporary Trade Directory Entries** Name: Test Chambers Ltd Location: Unit 10,Martello Enterprise Centre,Courtwick La, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Testing, Inspection & Calibration Equipment Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	505	-	502432 103592
116	**Contemporary Trade Directory Entries** Name: Mediwin Ltd Location: Unit 12,13,Martello Enterprise Centre,Courtwick La, Wick, Littlehampton, West Sussex, BN17 7PA Classification: Chemists' & Pharmacists' Suppliers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	479	-	502454 103564
117	**Contemporary Trade Directory Entries** Name: Outback Trailers Location: Hollyacre, Toddington Lane, Wick, Littlehampton, West Sussex, BN17 7PP Classification: Trailers & Towing Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	483	-	503347 103848
117	**Contemporary Trade Directory Entries** Name: Sussex Scaffolding Location: Hollyacre, Toddington Lane, Wick, Littlehampton, BN17 7PP Classification: Scaffolding & Work Platforms **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	494	-	503348 103862
118	**Contemporary Trade Directory Entries** Name: H D White Location: 42, Wick Street, Wick, Littlehampton, West Sussex, BN17 7JH Classification: Scrap Metal Merchants **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A8NW (SW)	514	-	502687 102977
118	**Contemporary Trade Directory Entries** Name: Baker Press Ltd Location: A, 30, Wick Street, Wick, Littlehampton, West Sussex, BN17 7JH Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (SW)	542	-	502659 102960
119	**Contemporary Trade Directory Entries** Name: Autocheck Servicing & Repairs Location: 18, Willow Brook, Wick, Littlehampton, West Sussex, BN17 7NW Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	519	-	502403 103420
120	**Contemporary Trade Directory Entries** Name: Mander Pools Ltd Location: 32, Courtwick Road, Wick, Littlehampton, West Sussex, BN17 7NH Classification: Swimming Pool Contractors, Repairers & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	528	-	502419 103273
121	**Contemporary Trade Directory Entries** Name: Steve Legg Horse Services Location: Unit 9, Minster Court, Courtwick Lane, Wick, Littlehampton, BN17 7RN Classification: Horse Boxes & Transporting **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	537	-	502401 103601
121	**Contemporary Trade Directory Entries** Name: Hi Tek Power Ltd Location: Unit 10, Hawthorn Road, Littlehampton, BN17 7LT Classification: Power Transmission Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	541	-	502388 103524
121	**Contemporary Trade Directory Entries** Name: Wildtrax Electronics Location: Unit 6, Minster Court, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7RN Classification: Electronic Equipment - Manufacturers & Assemblers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	541	-	502393 103565

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	**Contemporary Trade Directory Entries** Name: Wyvern Waste Services Ltd Location: Mill La, Wick, Littlehampton, West Sussex, BN17 7PH Classification: Waste Disposal Services **Status:** **Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A18SW (N)	537	-	502862 104042
123	**Contemporary Trade Directory Entries** Name: P & O Scaffolding Services Ltd Location: Scaffold House, Toddington Lane, Wick, Littlehampton, West Sussex, BN17 7PN Classification: Scaffolding & Work Platforms **Status:** **Active** Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	538	-	503408 103862
124	**Contemporary Trade Directory Entries** Name: Tendercare Ltd Location: Unit 10, Minster Court, Courtwick Lane, Wick, Littlehampton, BN17 7RN Classification: Disability Equipment - Manufacturers & Suppliers **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	538	-	502403 103614
125	**Contemporary Trade Directory Entries** Name: J Ds Location: 14, West Way, Wick, Littlehampton, West Sussex, BN17 7LY Classification: Car Breakdown & Recovery Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	553	-	502560 103015
125	**Contemporary Trade Directory Entries** Name: Scutt & Underwood Location: 9a, Whitelea Road, Wick, Littlehampton, West Sussex, BN17 7JL Classification: Garage Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	563	-	502575 102989
125	**Contemporary Trade Directory Entries** Name: South Coast Minis Location: Whitelea Rd, Wick, Littlehampton, West Sussex, BN17 7JL Classification: Garage Services **Status:** **Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	593	-	502580 102948
126	**Contemporary Trade Directory Entries** Name: Express Transport Location: 45, Olliver Acre, Wick, Littlehampton, West Sussex, BN17 6FD Classification: Road Haulage Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	554	-	503552 103546
127	**Contemporary Trade Directory Entries** Name: Ironing R Us Location: 11, Gratwicke Drive, Wick, Littlehampton, BN17 6GU Classification: Ironing & Home Laundry Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	587	-	503581 103593
127	**Contemporary Trade Directory Entries** Name: Oven Miracle Cleaning Co Location: 11, Gratwicke Drive, Wick, Littlehampton, West Sussex, BN17 6GU Classification: Oven cleaning **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	588	-	503581 103593
128	**Contemporary Trade Directory Entries** Name: R T Spencer Services Location: 64, Highdown Drive, Littlehampton, West Sussex, BN17 6HH Classification: Firefighting Equipment **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A8NE (S)	591	-	503091 102832
129	**Contemporary Trade Directory Entries** Name: Silco Products Location: Unit 4, Minster Court, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7RN Classification: Rubber & Plastic Products - Manufacturers **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	593	-	502341 103579

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	**Contemporary Trade Directory Entries** Name: G L Thermosensors Location: Unit 3, Minster Court, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7RN Classification: Temperature Monitoring Systems Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	593	-	502343 103591
129	**Contemporary Trade Directory Entries** Name: Phoenix Flow Measurement Ltd Location: Unit 1, Minster Court, Courtwick Lane, Wick, Littlehampton, BN17 7RN Classification: Flow Measurement Systems - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	594	-	502346 103616
129	**Contemporary Trade Directory Entries** Name: Phoenix Flow Measurement Ltd Location: Unit 1, Minster Court, Courtwick Lane, Wick, Littlehampton, BN17 7RN Classification: Flow Measurement Systems - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	594	-	502346 103616
129	**Contemporary Trade Directory Entries** Name: Naiad Tools Location: Unit 5, Minster Court, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7RN Classification: Tool Design, Manufacturers & Makers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	594	-	502339 103567
129	**Contemporary Trade Directory Entries** Name: G B L Location: 3 Minster Court, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7RN Classification: Disability Equipment - Manufacturers & Suppliers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	607	-	502330 103598
130	**Contemporary Trade Directory Entries** Name: Stuart Lyons Location: Windross, Worthing Road, Wick, Littlehampton, West Sussex, BN17 6LY Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	593	-	503578 103376
131	**Contemporary Trade Directory Entries** Name: Right Light Ltd Location: Unit 1, Minster Court, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7RN Classification: Sheet Metal Work **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (W)	594	-	502346 103616
132	**Contemporary Trade Directory Entries** Name: R J B Haulage Location: Five Stones, Toddington Lane, Wick, Littlehampton, BN17 7PP Classification: Sand, Gravel & Other Aggregates **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	652	-	503502 103927
132	**Contemporary Trade Directory Entries** Name: P S Autotechnik Ltd Location: Five Stones, Toddington Lane, Wick, Littlehampton, West Sussex, BN17 7PP Classification: Car Customisation & Conversion Specialists **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	652	-	503502 103927
132	**Contemporary Trade Directory Entries** Name: Pro Design Scooter Engineering Location: Unit 4, Five Stone Nurseries, Toddington Lane, Wick, Littlehampton, BN17 7PP Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	652	-	503502 103927
132	**Contemporary Trade Directory Entries** Name: Total Paintworks Location: Five Stones, Toddington Lane, Wick, Littlehampton, West Sussex, BN17 7PP Classification: Car Painters & Sprayers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	652	-	503502 103927

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	**Contemporary Trade Directory Entries** Name: Dairy Crest Location: Wick Farm, Arundel Road, Littlehampton, West Sussex, BN17 7DH Classification: Dairies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	670	-	502589 102852
134	**Contemporary Trade Directory Entries** Name: C S Developments Ltd Location: Unit 2, Toddington Lane, Wick, Littlehampton, West Sussex, BN17 7PP Classification: Concrete Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	679	-	503457 104014
134	**Contemporary Trade Directory Entries** Name: Hennebry Ltd Location: Fivestones, Wick, Littlehampton, West Sussex, BN17 7PP Classification: Car Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	680	-	503457 104014
135	**Contemporary Trade Directory Entries** Name: Bennett Autos Location: Unit G, Five Stone Nurseries, Toddington Lane, Wick, Littlehampton, BN17 7PP Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	696	-	503511 103984
136	**Contemporary Trade Directory Entries** Name: Parker Hannifin Ltd Location: New Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7RZ Classification: Electric Motor Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	712	-	502224 103596
136	**Contemporary Trade Directory Entries** Name: Parker Location: New Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7RZ Classification: Electricity Generating & Distributing Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NW (W)	712	-	502224 103596
137	**Contemporary Trade Directory Entries** Name: Total Packaging Supplies Location: Tulley Nurseries,Toddington La, Wick, Littlehampton, West Sussex, BN17 7PW Classification: Packaging & Wrapping Equipment & Supplies **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NE (NE)	719	-	503660 103796
138	**Contemporary Trade Directory Entries** Name: Hammond Location: 97, Wick Farm Road, Wick, LITTLEHAMPTON, West Sussex, BN17 7HJ Classification: Boilers - Servicing, Replacements & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	722	-	502532 102825
139	**Contemporary Trade Directory Entries** Name: Woodside Country Furniture Location: Tulleys Nursery,Toddington Lane, Wick, Nr Arundel, Littlehampton, West Sussex, BN17 7PW Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	770	-	503701 103828
140	**Contemporary Trade Directory Entries** Name: Cosi Ltd Location: Watersmead Business Park, Littlehampton, West Sussex, BN17 6LS Classification: Toiletries **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	803	-	503799 103437
141	**Contemporary Trade Directory Entries** Name: David Gillard Location: 59, Linnet Close, Wick, Littlehampton, West Sussex, BN17 7GW Classification: Wrought Ironwork **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	811	-	502193 103847

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	**Contemporary Trade Directory Entries** Name: Ortronics Location: 22, Roman Acre, Wick, Littlehampton, West Sussex, BN17 7HN Classification: Electronic Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	826	-	502444 102760
143	**Contemporary Trade Directory Entries** Name: Shell East Field Location: Service Station, Worthing Road, Wick, Littlehampton, West Sussex, BN17 6LE Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	855	-	503836 103328
143	**Contemporary Trade Directory Entries** Name: Shell Service Station Ltd Location: Service Station, Worthing Road, Wick, Littlehampton, West Sussex, BN17 6LE Classification: Petrol Filling Stations - 24 Hour **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	855	-	503836 103328
143	**Contemporary Trade Directory Entries** Name: Shell Select Location: Service Station, Worthing Road, Wick, Littlehampton, BN17 6LE Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (E)	856	-	503836 103328
144	**Contemporary Trade Directory Entries** Name: C L Services Location: 89, Queen Street, Littlehampton, BN17 6EL Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	877	-	502895 102540
145	**Contemporary Trade Directory Entries** Name: S & N Auto Services Location: Rear Of 7 Clun Rd, Littlehampton, West Sussex, BN17 7DX Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to an adjacent address or location	A7SE (S)	894	-	502604 102598
145	**Contemporary Trade Directory Entries** Name: Hatches Garage Location: Merton Drive, Littlehampton, West Sussex, BN17 7DU Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	931	-	502580 102567
146	**Contemporary Trade Directory Entries** Name: P G Autos Location: Merton Dr, Littlehampton, West Sussex, BN17 7DU Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	913	-	502644 102562
147	**Contemporary Trade Directory Entries** Name: Cobra Cars Location: Arundel Road, Littlehampton, BN17 7DE Classification: Mot Testing Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	955	-	502706 102497
147	**Contemporary Trade Directory Entries** Name: Cobra Cars Location: Arundel Road, Littlehampton, West Sussex, BN17 7DE Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (S)	956	-	502706 102497
148	**Contemporary Trade Directory Entries** Name: C M D Recovery Location: 77, Horsham Road, Littlehampton, West Sussex, BN17 6DB Classification: Breakdown and Recovery **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	967	-	503620 102686

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	**Contemporary Trade Directory Entries** Name: Flashings & Fabrications Services Ltd Location: Units 1-2-4 Harwood Centre, Harwood Road, Littlehampton, West Sussex, BN17 7AT Classification: Sheet Metal Work **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	993	-	502413 102580
150	**Fuel Station Entries** Name: Morrisons Littlehampton Location: Worthing Road Lyminster Road, Wick , Littlehampton, West Sussex, BN17 7LR Brand: Morrisons Premises Type: Hypermarket **Status: Open** Positional Accuracy: Manually positioned to the address or location	A12NE (W)	306	-	502623 103510
151	**Fuel Station Entries** Name: Seaton Park Car Sales Location: Lyminster Road , Wick , Littlehampton, West Sussex, BN17 7LF Brand: Obsolete Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	332	-	502725 103770
152	**Fuel Station Entries** Name: Shell Eastfield Location: Rustington Bypass Worthing Road, , Littlehampton, West Sussex, BN17 6LE Brand: SHELL Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A14SE (E)	855	-	503836 103328

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	**Nitrate Vulnerable Zones** Name: Sussex Chalk Description: Groundwater Source: Environment Agency, Head Office	A18SW (NW)	416	4	502743 103881

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Arun District Council - Environmental Health Department	December 2019	Annual Rolling Update
Worthing Borough Council - Environmental Health Department	December 2019	Annual Rolling Update
Horsham District Council - Environmental Health Department	February 2015	Annual Rolling Update
Environment Agency - Head Office	June 2020	Annually
Discharge Consents		
Environment Agency - Southern Region	July 2020	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Southern Region	March 2013	Annual Rolling Update
Integrated Pollution Controls		
Environment Agency - Southern Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - South East Region - Solent & South Downs Area	July 2020	Quarterly
Environment Agency - Southern Region	July 2020	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Arun District Council - Environmental Health Department	December 2014	Variable
Horsham District Council - Environmental Health Department	June 2015	Variable
Worthing Borough Council - Environmental Health Department	March 2013	Variable
Local Authority Pollution Prevention and Controls		
Arun District Council - Environmental Health Department	December 2014	Not Applicable
Horsham District Council - Environmental Health Department	June 2015	Annual Rolling Update
Worthing Borough Council - Environmental Health Department	November 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Arun District Council - Environmental Health Department	December 2014	Variable
Horsham District Council - Environmental Health Department	June 2015	Variable
Worthing Borough Council - Environmental Health Department	November 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	August 2020	
Pollution Incidents to Controlled Waters		
Environment Agency - Southern Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Southern Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters		
Environment Agency - Southern Region	March 2013	Annual Rolling Update
Registered Radioactive Substances		
Environment Agency - Southern Region	June 2016	
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - South East Region - Solent & South Downs Area	July 2020	Quarterly
Environment Agency - Southern Region - Solent and South Downs	July 2020	Quarterly
Environment Agency - Southern Region - Sussex Area	July 2020	Quarterly
Water Abstractions		
Environment Agency - Southern Region	July 2020	Quarterly
Water Industry Act Referrals		
Environment Agency - Southern Region	October 2017	Quarterly
Groundwater Vulnerability Map		
Environment Agency - Head Office	June 2018	As notified

ARUN DISTRICT COUNCIL LU/263/20/DOC

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	September 2020	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	September 2020	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	September 2020	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	September 2020	Quarterly
Flood Defences Environment Agency - Head Office	September 2020	Quarterly
OS Water Network Lines Ordnance Survey	June 2020	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - South East Region - Solent & South Downs Area	July 2020	Quarterly
Environment Agency - Southern Region - Solent and South Downs	July 2020	Quarterly
Environment Agency - Southern Region - Sussex Area	July 2020	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - South East Region - Solent & South Downs Area	July 2020	Quarterly
Environment Agency - Southern Region - Solent and South Downs	July 2020	Quarterly
Environment Agency - Southern Region - Sussex Area	July 2020	Quarterly
Local Authority Landfill Coverage		
Arun District Council - Technical Support Unit	May 2000	Not Applicable
Horsham District Council - Environmental Health Department	May 2000	Not Applicable
West Sussex County Council - Environment & Development	May 2000	Not Applicable
Worthing Borough Council - Planning Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Arun District Council - Technical Support Unit	May 2000	Not Applicable
Horsham District Council - Environmental Health Department	May 2000	Not Applicable
West Sussex County Council - Environment & Development	May 2000	Not Applicable
Worthing Borough Council - Planning Department	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - Southern Region - Solent and South Downs	March 2003	Not Applicable
Environment Agency - Southern Region - Sussex Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Southern Region - Solent and South Downs	March 2003	Not Applicable
Environment Agency - Southern Region - Sussex Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Southern Region - Solent and South Downs	March 2003	Not Applicable
Environment Agency - Southern Region - Sussex Area	March 2003	Not Applicable
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Horsham District Council - Planning Department	August 2015	Variable
Arun District Council - Technical Support Unit	February 2016	Variable
Worthing Borough Council - Planning Department	February 2016	Variable
West Sussex County Council - Environment & Development	October 2006	Annual Rolling Update
Planning Hazardous Substance Consents		
Horsham District Council - Planning Department	August 2015	Variable
Arun District Council - Technical Support Unit	February 2016	Variable
Worthing Borough Council - Planning Department	February 2016	Variable
West Sussex County Council - Environment & Development	October 2006	Annual Rolling Update

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

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

Data Suppliers

A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	[redacted]
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	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	
6	**Arun District Council - Technical Support Unit** Civic Centre, Maltravers Road, Littlehampton, Sussex, BN17 5LF	
7	**West Sussex County Council - Environment & Development** County Hall, Tower hall, Chichester, West Sussex, PO19 1RH	
8	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	
-	**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.

APPENDIX E – Qualitative Risk Assessment Model

Qualitative Risk Assessment Model

ARUN DISTRICT COUNCIL LU/263/20/DOC

Contaminant	Receptor	Pathway[1]	Likelihood of Exposure	Severity of Exposure	Risk Classification	Notes
All contaminants in made ground / reworked soil	Future Allotment Users	Dermal contact, ingestion and inhalation of soil particles	Likely	Medium	Moderate risk	Previous investigation idenified elevated concentrations of lead aand PAHs in soil
		Consumption of contaminated home grown produce	Likely	Medium	Moderate risk	Previous investigation idenified elevated concentrations of lead aand PAHs in soil
	Construction workers	Dermal contact, ingestion and inhalation of soil particles	Likely	Mild	Moderate/low risk	Possible risk of exposure to contaminants in soils, but risks to be controlled by safe systems of work and suitable PPE
	Groundwater (Secondary A and Principal Aquifers)	Vertical infiltration and leaching from impacted on-site soils	Unlikely	Mild	Very low risk	Near surface soils unlikely to pose a significant risk to groundwater post development.
Asbestos fibres in soils	Future Residents	Inhalation of asbestos fibres	Unlikely	Mild	Very low risk	No asbestos fibres previoulsy identified in soils, historical land use unlikely to result in asbestos use at the sit
	Construction workers	Inhalation of asbestos fibres	Unlikely	Mild	Very low risk	
Soil gases generated from fill materials	Future site users Structures on or adjacent to the site	Vertical and lateral migration through unsaturated pore space. Ingress into buildings via service penetrations, floor construction and cracks, wall cavities, etc. resulting in accumulation in enclosed spaces within buildings. Migration via preferential pathways such as below ground service trenches.				Not applicable as new building will not be in direct contact with ground.i.e. a raised shipping container
Aggressive contaminants	Below ground construction materials such as concrete and plastic water pipes	Contact with contaminated soils / groundwater				Not applicable, as historical land use unlikely to result in significant land contaminantion that would pose a risk to potable water supply pipes. No risk to the new building which will be a metal shipping container.

APPENDIX F – Trial Pit Logs

Trial Pit Logs

ARUN DISTRICT COUNCIL LU/263/20/DOC

Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
[redacted]

Trial Pit Log

Trialpit No: TP1
Sheet 1 of 1

Project Name:	Worthing Rd Allotments	Project No.: LP2350	Co-ords: - / Level:	Date: 23/09/2020
Location:	Worthing rd allotments, Littlehampton, BN17 6JN	Dimensions (m): Depth 0.70		Scale: 1:25
Client:	Persimmon Homes			Logged: MW

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Grass over brown slightly sandy gravelly clay TOPSOIL
	0.35	ES		0.35			Dense grey brown gravelly clayey MADE GROUND. Gravel is coarse to medium angular to subangular flints
				0.43			Black peaty slighly gravelly clayey MADE GROUND
	0.65	ES					Stiff pale brown slightly gravelly CLAY
							Hand Pen at 0.6m = 530kPa
				0.70			End of pit at 0.70 m

1
2
3
4
5

Remarks: Trial pits remained dry and stable

Stability: Stable

AGS

Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
[redacted]

Trial Pit Log

Trialpit No
TP2
Sheet 1 of 1

Project Name: Worthing Rd Allotments	Project No. LP2350	Co-ords: - Level:	Date 23/09/2020
Location: Worthing rd allotments, Littlehampton, BN17 6JN		Dimensions (m): Depth 0.70	Scale 1:25
Client: Persimmon Homes			Logged MW

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.15			Grass over brown slightly sandy gravelly clay TOPSOIL
	0.30	ES		0.30			Very stiff pale brown slightly gravelly reworked CLAY with subangular to subrounded chalk gravel and subangular to subrounded flint rare brick gravel.
	0.60	ES		0.70			Stiff pale orange brown slightly gravelly slightly silty CLAY with rare fine gravel of subangular to subrounded flint *Hand Pen at 0.3m = 600kPa* *Hand Pen at 0.6m = 600kPa* End of pit at 0.70 m

Remarks: Trial pits remained dry and stable

Stability: Stable

AGS

ARUN DISTRICT COUNCIL LU/263/20/DOC

Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
[redacted]

Trial Pit Log

Trialpit No: TP3
Sheet 1 of 1

Project Name:	Worthing Rd Allotments	Project No.: LP2350	Co-ords: - / Level:	Date: 23/09/2020
Location:	Worthing rd allotments, Littlehampton, BN17 6JN	Dimensions (m): Depth 0.70		Scale: 1:25
Client:	Persimmon Homes			Logged: MW

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.15			Grass over brown slightly sandy gravelly clay TOPSOIL
	0.30	ES		0.30			Very stiff pale brown slightly gravelly reworked CLAY with subangular/subrounded chalk gravel and subangular to subrounded flint rare brick gravel.
	0.65	ES		0.70			Stiff pale orange brown slightly gravelly slightly silty CLAY w rare fine gravel subangular to subrounded flint
							End of pit at 0.70 m

Remarks: Trial pits remained dry and stable

Stability: Stable

AGS

ARUN DISTRICT COUNCIL LU/263/20/DOC

Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
[redacted]

Trial Pit Log

Trialpit No: TP4
Sheet 1 of 1

Project Name:	Worthing Rd Allotments	Project No.: LP2350	Co-ords: - / Level:	Date: 23/09/2020
Location:	Worthing rd allotments, Littlehampton, BN17 6JN	Dimensions (m): Depth 0.50		Scale: 1:25
Client:	Persimmon Homes			Logged: MW

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Grass over brown slightly sandy gravelly clay TOPSOIL
	0.45	ES		0.45			Grey brown slightly gravelly silty reworked CLAY. Gravel is subrounded to subangular flint occasional subrounded chalk. Rare fine brick gravel.
				0.50			Stiff pale yellowish brown slightly gravelly silty CLAY with rare subangular to angular flints and fine chalk gravel. End of pit at 0.50 m

Remarks: Trial pits remained dry and stable

Stability: Stable

AGS

Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
[redacted]

Trial Pit Log

Trialpit No: TP5
Sheet 1 of 1

Project Name: Worthing Rd Allotments	Project No. LP2350	Co-ords: - Level:	Date 23/09/2020
Location: Worthing rd allotments, Littlehampton, BN17 6JN		Dimensions (m): Depth 0.50	Scale 1:25
Client: Persimmon Homes			Logged MW

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Grass over brown slightly sandy gravelly clay TOPSOIL
	0.40	ES		0.40			Grey brown slightly gravelly silty reworked CLAY. Gravel is subrounded to subangular flint occasional subrounded chalk.
				0.50			Stiff pale yellow brown slightly gravelly CLAY. Gravel is fine/medium subangular/subrounded flint End of pit at 0.50 m

Remarks: Trial pits remained dry and stable

Stability: Stable

AGS

APPENDIX G – Chemical Laboratory Test Results

Chemical Laboratory
Test Results

ARUN DISTRICT COUNCIL LU/263/20/DOC

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
[redacted]

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	20-30046
Issue:	1
Date of Issue:	02/10/2020
Contact:	Martin Weil
Customer Details:	Leap Environmental Ltd The Atrium Curtis Road Dorking SurrevRH4 1X4
Quotation No:	Q14-00063
Order No:	LPO2561
Customer Reference:	LP2350
Date Received:	25/09/2020
Date Approved:	02/10/2020
Details:	Worthing Road Allotments
Approved by:	[redacted]

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683

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ARUN DISTRICT COUNCIL LU/263/20/DOC

ELAB

Sample Summary

Report No.: 20-30046, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
215049	TP1 0.35	23/09/2020	25/09/2020	Silty loam	
215050	TP1 0.65	23/09/2020	25/09/2020	Silty loam	
215051	TP2 0.30	23/09/2020	25/09/2020	Silty loam	
215052	TP2 0.60	23/09/2020	25/09/2020	Silty loam	
215053	TP3 0.30	23/09/2020	25/09/2020	Silty loam	
215054	TP3 0.65	23/09/2020	25/09/2020	Silty loam	
215055	TP4 0.45	23/09/2020	25/09/2020	Silty loam	
215056	TP5 0.40	23/09/2020	25/09/2020	Silty loam	

Results Summary

Report No.: 20-30046, issue number 1

				ELAB Reference	215049	215050	215051	215052	215053
				Customer Reference					
				Sample ID					
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	TP1	TP1	TP2	TP2	TP3
				Sample Depth (m)	0.35	0.65	0.30	0.60	0.30
				Sampling Date	23/09/2020	23/09/2020	23/09/2020	23/09/2020	23/09/2020
Determinand	**Codes**	**Units**	**LOD**						
Soil sample preparation parameters									
Material removed	N	%	0.1		42.3	< 0.1	< 0.1	< 0.1	< 0.1
Description of inert material removed	N		0		Stones	None	None	None	None
Metals									
Arsenic	M	mg/kg	1		41.3	n/t	n/t	8.6	n/t
Cadmium	M	mg/kg	0.5		0.7	n/t	n/t	< 0.5	n/t
Chromium	M	mg/kg	5		18.4	n/t	n/t	19.1	n/t
Copper	M	mg/kg	5		37.3	n/t	n/t	12.7	n/t
Lead	M	mg/kg	5		171	43.9	32.5	17.3	138
Mercury	M	mg/kg	0.5		< 0.5	n/t	n/t	< 0.5	n/t
Nickel	M	mg/kg	5		20.1	n/t	n/t	13.4	n/t
Selenium	M	mg/kg	1		4.1	n/t	n/t	< 1.0	n/t
Zinc	M	mg/kg	5		143	n/t	n/t	40.5	n/t
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8		< 0.8	n/t	n/t	< 0.8	n/t
Miscellaneous									
pH	M	pH units	0.1		7.8	n/t	n/t	7.6	n/t
Total Organic Carbon	N	%	0.01		7.8	n/t	n/t	0.48	n/t
Polyaromatic hydrocarbons									
Naphthalene	M	mg/kg	0.1		< 0.1	n/t	n/t	< 0.1	n/t
Acenaphthylene	M	mg/kg	0.1		1.0	n/t	n/t	< 0.1	n/t
Acenaphthene	M	mg/kg	0.1		0.3	n/t	n/t	< 0.1	n/t
Fluorene	M	mg/kg	0.1		0.4	n/t	n/t	< 0.1	n/t
Phenanthrene	M	mg/kg	0.1		2.3	n/t	n/t	< 0.1	n/t
Anthracene	M	mg/kg	0.1		2.2	n/t	n/t	< 0.1	n/t
Fluoranthene	M	mg/kg	0.1		7.7	n/t	n/t	< 0.1	n/t
Pyrene	M	mg/kg	0.1		7.1	n/t	n/t	< 0.1	n/t
Benzo(a)anthracene	M	mg/kg	0.1		6.4	n/t	n/t	< 0.1	n/t
Chrysene	M	mg/kg	0.1		7.4	n/t	n/t	< 0.1	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1		7.0	n/t	n/t	< 0.1	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1		6.1	n/t	n/t	< 0.1	n/t
Benzo(a)pyrene	M	mg/kg	0.1		8.8	n/t	n/t	< 0.1	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1		8.2	n/t	n/t	< 0.1	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1		3.0	n/t	n/t	< 0.1	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1		9.5	n/t	n/t	< 0.1	n/t
Total PAH(16)	M	mg/kg	0.4		77.5	n/t	n/t	< 0.4	n/t

Tests marked N are not UKAS accredited.

Results Summary

Report No.: 20-30046, issue number 1

			ELAB Reference	215054	215055	215056
			Customer Reference			
			Sample ID			
			Sample Type	SOIL	SOIL	SOIL
			Sample Location	TP3	TP4	TP5
			Sample Depth (m)	0.65	0.45	0.40
			Sampling Date	23/09/2020	23/09/2020	23/09/2020
Determinand	**Codes**	**Units**	**LOD**			
Soil sample preparation parameters						
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1
Description of inert material removed	N		0	None	None	None
Metals						
Arsenic	M	mg/kg	1	11.0	n/t	n/t
Cadmium	M	mg/kg	0.5	< 0.5	n/t	n/t
Chromium	M	mg/kg	5	25.0	n/t	n/t
Copper	M	mg/kg	5	17.0	n/t	n/t
Lead	M	mg/kg	5	27.0	91.1	66.6
Mercury	M	mg/kg	0.5	< 0.5	n/t	n/t
Nickel	M	mg/kg	5	18.1	n/t	n/t
Selenium	M	mg/kg	1	< 1.0	n/t	n/t
Zinc	M	mg/kg	5	52.1	n/t	n/t
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	n/t
Miscellaneous						
pH	M	pH units	0.1	7.6	n/t	n/t
Total Organic Carbon	N	%	0.01	0.66	n/t	n/t
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	< 0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	n/t	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	n/t	n/t
Fluorene	M	mg/kg	0.1	< 0.1	n/t	n/t
Phenanthrene	M	mg/kg	0.1	0.2	n/t	n/t
Anthracene	M	mg/kg	0.1	< 0.1	n/t	n/t
Fluoranthene	M	mg/kg	0.1	0.2	n/t	n/t
Pyrene	M	mg/kg	0.1	0.1	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	n/t	n/t
Chrysene	M	mg/kg	0.1	< 0.1	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	0.7	n/t	n/t

Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 20-30046, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos	Gravimetric Analysis Total	Gravimetric Analysis by ACM Type	Free Fibre Analysis	Total Asbestos
215049	0.35	TP1	Brown Sandy Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
215052	0.60	TP2	Brown Sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
215054	0.65	TP3	Brown Sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 20-30046, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	29/09/2020	110	Colorimetry
pH	M	Air dried sample	02/10/2020	113	Electromeric
PAH (GC-FID)	M	As submitted sample	29/09/2020	133	GC-FID
Total organic carbon/Total sulphur	N	Air dried sample	01/10/2020	210	IR
Asbestos identification	U	Air dried sample	01/10/2020	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	29/09/2020	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 20-30046, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.

Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the sample received.

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

APPENDIX H – Soil Screening Tables

Soil Screening Tables

ARUN DISTRICT COUNCIL LU/263/20/DOC

LP2350 - Worthing Road Allotments, Littlehampton - Lab Results - GL to S 45 m Screened against Allotments Land Use

Sample Location:							TP01	TP02	TP03	TP04	TP05	TP06	TP07	TP08	TP09	TP10	TP11	TP12	TP13	TP14
Depth (m):							0.00-0.50	0.00-0.50	0.00-0.50	0.00-0.50	0.00-0.20	0.00-0.50	0.00-0.20	0.00-0.50	0.00-0.50	0.50	0.00	0.20	0.40	0.80
Date Sampled:							31/7/18	31/7/18	31/7/18	31/7/18	31/7/18	31/7/18	31/7/18	31/7/18	31/7/18	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018
Matrix:																				
Screening Values																				
Determinand	Units	LOD	Res	Source	N	HSGAC														
Miscellaneous																				
pH	pH units	0.1	n.v.	-	9	1	8	7.8	7.4	7.8	7.5	7.6	7.5	7.7	7.8	n/t	n/t	n/t	n/t	
Total Organic Carbon	%	0.1	n.v.	-	9	4	4.7	5.2	7.9	3.3	4	7.5	4.6	6.4	7.8	n/t	n/t	n/t	n/t	
Inorganics																				
Metals																				
Arsenic	mg/kg	2	49	C4SL	9	0	12	13	9.6	14	14	15	16	18	41.2	n/a	n/a	n/a	n/a	
Cadmium	mg/kg	0.1	2.9	C4SL	9	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.7	< 0.2	< 0.2	0.7	n/a	n/a	n/a	n/a	
Chromium	mg/kg	0.5	18000	S4UL	9	0	26	16	18	20	23	29	22	22	19.4	n/a	n/a	n/a	n/a	
Chromium VI	mg/kg	1	170	C4SL	9	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.5	n/a	n/a	n/a	n/a	
Copper	mg/kg	2	520	S4UL	9	1	27	20	22	30	27	170	30	560	30.3	n/a	n/a	n/a	n/a	
Lead	mg/kg	2	90	C4SL	13	8	100	77	59	150	92	230	67	120	171	22.5	138	91.1	66.6	
Mercury	mg/kg	1	19	S4UL	9	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.1	n/a	n/a	n/a	n/a	
Nickel	mg/kg	0.5	53	S4UL	9	0	15	18	14	18	19	18	18	20	20.1	n/a	n/a	n/a	n/a	
Selenium	mg/kg	3	68	S4UL	9	0	1.1	< 1	< 1	< 1	< 1	1	1.1	2.2	< 1	n/a	n/a	n/a	n/a	
Zinc	mg/kg	2	620	S4UL	9	0	86	120	73	89	120	310	200	140	143	n/a	n/a	n/a	n/a	
Asbestos																				
Asbestos Identification	-	-	Presence			0									n.d.					
Asbestos Quantification	%	0.001	Presence																	
Polycyclic Aromatic Hydrocarbons (USEPA 16)																				
Benzo(a)pyrene	mg/kg	0.1	5.7	C4SL	9	1	1.2	1.5	0.37	1.9	1.5	3.6	0.77	3.2	0.8	n/a	n/a	n/a	n/a	
Naphthalene	mg/kg	0.1	4.1	S4UL	8	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	n/a	n/a	n/a	n/a	n/a
Acenaphthylene	mg/kg	0.1	n.v.	-	9	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.21	< 0.1	< 0.1	<	n/a	n/a	n/a	n/a	n/a
Acenaphthene	mg/kg	0.1	n.v.	-	9	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.9	n/a	n/a	n/a	n/a	n/a
Fluorene	mg/kg	0.1	n.v.	-	9	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4	n/a	n/a	n/a	n/a	n/a
Phenanthrene	mg/kg	0.1	n.v.	-	9	0	0.68	0.93	< 0.1	1.1	0.91	1.5	0.34	1.7	2.8	n/a	n/a	n/a	n/a	n/a
Anthracene	mg/kg	0.1	n.v.	-	9	0	0.11	0.21	< 0.1	0.23	0.19	0.31	< 0.1	0.49	2.2	n/a	n/a	n/a	n/a	n/a
Fluoranthene	mg/kg	0.1	n.v.	-	9	0	1.6	2.6	0.49	3.3	2.2	4.8	1	4.7	7.7	n/a	n/a	n/a	n/a	n/a
Pyrene	mg/kg	0.1	n.v.	-	9	0	1.4	2	0.45	2.8	1.9	4.1	0.9	4	7.1	n/a	n/a	n/a	n/a	n/a
Benzo(a)anthracene	mg/kg	0.1	n.v.	-	9	0	1.1	1.4	0.32	2	1.4	3.3	0.68	3.5	5.4	n/a	n/a	n/a	n/a	n/a
Chrysene	mg/kg	0.1	n.v.	-	9	0	1	1.5	0.32	1.5	1.2	3	0.78	2.5	7.4	n/a	n/a	n/a	n/a	n/a
Benzo(b)fluoranthene	mg/kg	0.1	n.v.	-	9	0	1.5	1.7	0.54	2.5	2.1	5.1	1.1	4.7	7	n/a	n/a	n/a	n/a	n/a
Benzo(k)fluoranthene	mg/kg	0.1	n.v.	-	9	0	0.69	0.79	0.14	1	0.69	1.4	0.42	1.6	5.1	n/a	n/a	n/a	n/a	n/a
Benzo(a)pyrene	mg/kg	0.1	5	-	9	1	1.2	1.5	0.37	1.9	1.5	3.6	0.77	3.2	0.8	n/a	n/a	n/a	n/a	n/a
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	n.v.		9	0	0.6	0.83	< 0.1	0.91	0.78	1.7	0.37	1.8	5.2	n/a	n/a	n/a	n/a	n/a
Dibenzo(ah)anthracene	mg/kg	0.1	n.v.	-	9	0	< 0.1	0.2	< 0.1	0.25	0.22	< 0.1	< 0.1	0.58	1	n/a	n/a	n/a	n/a	n/a
Benzo(ghi)perylene	mg/kg	0.1	n.v.	-	9	0	0.79	0.81	< 0.1	1.2	1.1	2.1	0.59	2.6	4.6	n/a	n/a	n/a	n/a	n/a
PAH (total)	mg/kg	0.1	-	-	1	0									77.3	n/a	n/a	n/a	n/a	
Petroleum Hydrocarbons																				
Benzene	µg/kg	0.01	39	C4SL	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
Toluene	µg/kg	0.01	22000	S4UL	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
Ethylbenzene	µg/kg	0.01	14000	S4UL	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
Xylenes	µg/kg	0.01	29000	S4UL	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
Methyl tert-Butyl Ether	µg/kg	0.01	n.v.	-	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
Total BTEX	mg/kg	0.01			0	0														
>C5-C6 Aliphatic	mg/kg	0.01	740	S4UL	6	0	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100						
>C6-C8 Aliphatic	mg/kg	0.01	1390	S4UL	6	0	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100						
>C8-C10 Aliphatic	mg/kg	1	520	S4UL	6	0	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100						
>C10-C12 Aliphatic	mg/kg	1	1200	S4UL	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
>C12-C16 Aliphatic	mg/kg	1	11000	S4UL	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
>C16-C21 Aliphatic	mg/kg	1	260000	S4UL	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
>C21-C35 Aliphatic	mg/kg	1	260000	S4UL	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	33						
>C35-C40 Aliphatic	mg/kg	1	260000	S4UL	8	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	36						
>C5-C7 Aromatic	mg/kg	0.01	13	S4UL	6	0	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100						
>C7-C8 Aromatic	mg/kg	0.01	22	S4UL	6	0	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100						
>C8-C10 Aromatic	mg/kg	1	9	S4UL	6	0	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100						
>C10-C12 Aromatic	mg/kg	1	13	S4UL	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
>C12-C16 Aromatic	mg/kg	1	23	S4UL	8	0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
>C16-C21 Aromatic	mg/kg	1	179	S4UL	8	0	< 1	15	< 1	29	16	26	11	94						
>C21-C35 Aromatic	mg/kg	1	376	S4UL	8	0	57	36	14	67	65	140	47	330						
>C35-C40 Aromatic	mg/kg	1	1200	S4UL	8	0	66	53	18	96	100	180	58	420						

LP2350 - Worthing Road Allotments, Littlehampton - Lab Results - Soils Below 0.45 m Screened against Allotments Land Use

			Sample Location:				TP1	TP2	TP3
			Depth (m):				0.65	0.60	0.65
			Date Sampled:				23/09/2020	23/09/2020	23/09/2020
			Matrix:						
			Screening Values						
Determinand	Units	LOD	Resi	Source	N	N>GAC			
Miscellaneous									
pH	pH units	0.1	n.v.	-	2	1	n/t	7.6	7.6
Total Organic Carbon	%	0.1	n.v.	-	2	1	n/t	0.48	0.66
Inorganic									
Metals									
Arsenic	mg/kg	2	49	C4SL	2	0	n/t	8.6	11
Cadmium	mg/kg	0.1	3.9	C4SL	2	0	n/t	< 0.5	< 0.5
Chromium	mg/kg	0.5	18000	S4UL	2	0	n/t	19.1	25
Chromium VI	mg/kg	1	170	C4SL	2	0	n/t	< 0.2	< 0.2
Copper	mg/kg	2	520	S4UL	2	0	n/t	12.7	17
Lead	mg/kg	2	80	C4SL	3	0	43.9	17.3	27
Mercury	mg/kg	1	19	S4UL	2	0	n/t	< 0.5	< 0.5
Nickel	mg/kg	0.5	53	S4UL	2	0	n/t	13.4	18.1
Selenium	mg/kg	3	88	S4UL	2	0	n/t	< 1	< 1
Zinc	mg/kg	2	620	S4UL	2	0	n/t	40.5	52.1
Asbestos									
Asbestos Identification	-	-	Presence			0		n.d.	n.d.
Asbestos Quantification	%	0.001	Presence						
Polycyclic Aromatic Hydrocarbons (USEPA 16)									
Benzo(a)pyrene	mg/kg	0.1	5.7	C4SL	2	0	n/t	< 0.1	0.1
Naphthalene	mg/kg	0.1	4.1	S4UL	2	0	n/t	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	< 0.1
Acenaphthene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	< 0.1
Fluorene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	< 0.1
Phenanthrene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	0.2
Anthracene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	< 0.1
Fluoranthene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	0.2
Pyrene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	0.1
Benzo(a)anthracene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	< 0.1
Chrysene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	0.1	5	-	2	0	n/t	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	n.v.		2	0	n/t	< 0.1	< 0.1
Dibenzo(ah)anthracene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	0.1	n.v.	-	2	0	n/t	< 0.1	< 0.1
PAH (total)	mg/kg	0.1	-	-	2	0	n/t	< 0.1	0.7

ARUN DISTRICT COUNCIL LU/263/20/DOC