Land Science

BILLHOOK FARM, WEST CHILTINGTON LANE, CONEYHURST, RH14 9DN

COMBINED PHASE I AND PHASE II CONTAMINATION ASSESSMENT

MR JIM SMITH

31ST OCTOBER 2024

LS7994

Site:	**BILLHOOK FARM, WEST CHILTINGTON LANE, CONEYHURST, RH14 9DN**
Title:	**COMBINED PHASE I AND PHASE II CONTAMINATION ASSESSMENT**
Project:	**RESIDENTIAL DEVELOPMENT**
Client:	**MR JIM SMITH**
Contact:	**BATCHELLER MONKHOUSE**
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1.0 EXECUTIVE SUMMARY

This summary is a brief precis of the main findings and conclusions of the investigation. For detailed information, the reader is referred to the main report.

The area under investigation comprised two agricultural barns, access road and associated areas of soft landscaping. The proposed development was understood to comprise a change of use of two agricultural buildings to residential to form 4no houses.

Strata	Base Depth range	Summary
Hardstanding	0.05 to 0.15m	Asphalt or concrete
Sub-bases	0.20m	Dark brown gravelly SILT with rootlets and flint gravels
Topsoil	0.25m	Sand and brick
Made Ground	0.45 to 0.70+	Brown GRAVEL with varying sand, clay and varying amounts of construction materials (concrete cobbles, clinker, bituminous material, brick, sandstone, plastic sheeting etc.)
Weald Clay	1.00+	Orangey brown (occasionally grey/red) silty CLAY with light grey mottling.

Groundwater was struck during the excavation of HP01-HP04 with short-term standing water depths between 0.40 and 0.80mbgl.

No issues with respect to ground gases have been identified. However, a hydrocarbon resistant membrane is required within the new buildings

No Radon Protection Measures (RPM) are required for new dwellings and extensions at this location.

Soil testing has identified elevated levels of contamination and requirements for remediation have been identified

Chemical results on the Made Ground ranged between Inert, Non Hazardous and, Stable Non Reactive Hazardous (HP04) and a Hazardous (HP05) Waste classification.

Natural soils are anticipated to generally be Inert Waste.

A Remediation Method Statement should be prepared. This report should be submitted to relevant authorities etc in good time for consideration and approval.

2.0 INTRODUCTION

2.1 General

Land Science was instructed to undertake a combined Phase I and Phase II Contamination Assessment in relation to the proposed redevelopment of land at Billhook Farm, West Chiltington Lane, Coneyhurst, RH14 9DN. The location is shown on Figure 1, which is centred at grid reference TQ11242 25344.

2.2 Client

The Client for this appointment was Mr Jim Smith via their agent Batcheller Monkhouse. This report may only be used by this named client and their project team for the purposes set out and subject to the report conditions. It was understood that the Client already owned the property, and that this investigation was not a pre-purchase appraisal.

2.3 Area Under Investigation

The area under investigation comprised two agricultural barns, access road and associated areas of soft landscaping. The layout is indicated on Figure 2, and a walkover survey is presented in section 3.0. The area was approximately 0.27 hectares.

2.4 Proposed Development

The proposed development was understood to comprise a change of use of two agricultural buildings to residential (Use Class C3) to form four dwelling houses with associated operational development. The proposed development was covered under planning application number DC/22/0801. Figure 3 illustrates the layout of the proposed redevelopment. The findings of this report may be not valid if the proposed development is altered.

2.5 Previous Investigations

Land Science was not aware of any previous desk studies or ground investigation(s) for this project.

2.6 Scope of Work

The work carried out is described in detail in following sections but in summary included:

- A phase I assessment desk study,
- An intrusive investigation comprising five hand excavated trial pits,
- Preliminary chemical testing of selected soil samples in the field and laboratory.

The fieldwork was conducted on 14th October 2024, under the supervision of Land Science.

2.7 Geo-Environmental Objectives

A preliminary phase I assessment was carried out, to identify potential sources of contamination, to develop a preliminary Conceptual Site Model (CSM) and to form the basis of a Preliminary Risk Assessment (PRA).

A phase II intrusive investigation was required, to provide a generic quantitative risk assessment (GQRA).

The reports were required to assess risks associated with end users, the proposed redevelopment, adjacent land uses, and the wider environment, in the context of the planning regime.

2.8 Standards

Where practicable, the investigation was undertaken in accordance with the following primary standards and guidance:

- Land Contamination Risk Management (LCRM) Environment Agency 2020.
- BS10175:2011+A1:2013, Investigation of Potentially Contaminated Sites.
- National Planning Policy Framework, July 2018.
- Building Regulations Approved Document C: Site preparation and resistance to contaminants and moisture, HM Government, July 2013.
- NHBC Standards Chapter 4.1: Land Quality - Managing Ground Conditions, 2019.

Other technical sources have been cited in respect of specific aspects of the investigation, as referenced throughout the text.

3.0 WALKOVER SURVEY

3.1 General

A walkover survey was carried out to order to provide an assessment of the existing site conditions and to identify potential areas of concern. A record of the inspection is shown in Appendix A, with photographs in Appendix B.

3.2 Site Description

In summary, the area under investigation comprised a broadly rectangular parcel of land comprising two barns, a single storey residential dwelling, shed/storage area and area used for wood processing.



1) Metal clad pitch roofed barn (approximately two storeys in height) with concrete floor used for temporary storage of tools (lawn mower), vehicles and chopped wood. Concrete floor in generally good condition, some damp patches from leaks in the roof.
2) Static caravan with a small area of soft landscaping to the east. Cars parked to the north on a small area of hardstanding.
3) Part metal, part wooden clad pitched roof barn with compacted chalk backfill floor used for temporary storage of vehicles (tractor, flatbed low loader, cherry picker and a forklift), plant and tools (chainsaw, strimmer). The rear of the barn was also used to temporarily store chopped wood (due to recent heavy rain) with several bulk bags containing waste timber was noted adjacent to the north of the barn.
   Roof noted to be possibly constructed with corrugated cement sheeting (likely to be asbestos given the age of the barn).

4) Metal framed, open sided, metal clad barn, used for storing chopped wood. Heavily vegetated to the immediate northeast. Roof noted to be possible constructed with corrugated cement sheeting (likely to be asbestos given the age of the barn).

An asphalt access road runs across the site from the entrance gate, connecting the barns, shed and area used for wood processing. Several large, water filled potholes were noted in the access road between the site entrance and the buildings.

Semi mature to mature trees of mixed species and approximately 5-12m in height were noted along the southern and western boundaries of the site.

The site was generally level, with a field to the north associated with the site situated on a broadly south facing slope.

3.3 Neighbouring Land

The site was surrounded by open agricultural fields. An area used for processing wood with a tractor, conveyor and woodcutting machine was noted adjacent to the north eastern corner (identified as 5 on the plan)

An abandoned car was noted in the field adjacent to the site. A series of electric pylons were noted to cross the field to the north of the site.

A railway running broadly northeast to southwest was noted approximately 100m north of the site.

3.4 Geo-Environmental Conditions

In terms of the environmental condition of the site, the following key features were identified:

- Several of the buildings on the site were noted to be in temporary use as storage for vehicles, plant and tools.

3.5 Geotechnical Conditions

The walkover survey did not identify any areas of particular concern regarding the geotechnical condition of the site. No trees or significant evidence of underground structures, ground instability, subsidence, wet areas, significant earthworks, etc, were noted.

4.0 DESK STUDY

4.1 General

A desk study was carried out to inform the preliminary conceptual understanding of the site and its setting, and to identify potential aspects of concern, in the context of the stated report objectives.

4.2 Historical Mapping

Various historical records were reviewed to assess potential historical land uses and activities that may impact on ground conditions at the site.

A set of historical ordnance survey maps was obtained from Envirocheck and a copy is presented in Appendix E. The following key features were noted:

- The earliest map dated 1876 showed the site comprised the southern end of an open field. The southern and western boundaries were both tree lined.
- The 1976 OS map showed the site to contain a series of stables in the southwestern corner and a fence line running from the western boundary into the centre of the site.
- The latest map 2024 (1:10,000 map) showed the two barns in the centre of the site with the rest of the site being used as yard area.

- Off site, the site was initially surrounded by open fields with a road immediately to the west and a railway line 100m to the north. Small pond and stream were noted 20m to the south east with a stream running towards the south east. A series of farm buildings were noted 150m to the south west, one set of buildings was noted to have a well.
- A small quarry was noted on the 1876 map 80m to the north east; but was not present from 1897 onwards.
- A set of overhead power lines had been constructed 75m to the north east; running in a north west to south east direction.

- The historical map set included aerial photographs dated 1947 and 1999. The imagery from 1947 showed the site to be the southern end of an open field. The 1999 image showed just one barn in the western half of the site with the majority of the rest of the site being used as yard area.

4.3 Aerial Imagery

Recent aerial photography covering the site was examined using Google Earth Pro. The imagery identified the two main barns in the centre of the site along with two smaller structures to the east of each barn. A track was noted from the southwestern corner (West Chiltington Lane) along the western bank and then across the northern end of the site. Areas of storage of farm equipment / soil were noted to the north of the access track.

The online Historic England Photo Archive was viewed and a photo dated 1959 showed the site to be the south western corner of a large open field with a line of mature trees along the southern site boundary.

4.4 Historic Land Use Data

A brief internet search was carried out, which did not immediately reveal any relevant land use information.

4.5 Current Industrial Land Use Data

The desk study included a search of contemporary land use records from various databases. Such land uses may impact on the condition of the site and the vicinity. The following significant land use information was identified:

Discharge Consents

- 138m south. Lynval Contractors Ltd, Valelands Farm, Coneyhurst, Billingshurst, Date - 15th November 1990. Revocation date - 31st March 1997. Discharge type - Non Water Company (Private) Sewage into Freshwater Stream/River. Status Lapsed (under Environment Act 1995, Schedule 23).
- 153m west. Peter John Hooper, North End Barn, Palmers Cottage, West Chiltington Lane, Coneyhurst. Domestic property. Date 5th April 2001. Type Sewage Discharges - Final/Treated Effluent - Not Water Company into Freshwater Stream/River.

Whilst other records were identified, these were unlikely to be significant in terms of this project due to a combination of their size, distance from the site, and the intervening geology and hydrogeology.

4.6 Ground Conditions

A preliminary ground model was derived for the site by based on a combination of various sources including published maps, borehole records, previous investigations, and the site history. In summary, the following potential ground model was identified:

Strata	Approximate Depth (mbgl)	Summary Description
Made Ground	<1.00	The site has been subject to previous development and there is a potential for construction and demolition wastes, imported fill materials, and zones of disturbed ground, etc.
Superficial		None recorded
Bedrock – Weald Clay Sandstone / Mudstone	40m+	Shales and mudstones with occasional thin beds of siltstones, sandstone, shelly limestone and clay ironstone. When fresh the beds are normally dark grey weathering to mottled yellow and brown near the surface or at outcrop. Bands of red clay occur within the bed, usually in association with the sandstone.

In addition, groundwater was anticipated, as follows:

- Perched water – in granular soils upon cohesive soil or buried structures or in old trenches.

4.7 Geological Hazards

The desk study included searches of geological hazards. None of the hazards were rated as moderate or above, considered the screening threshold for further investigation.

A search of various databases for coal mining, mining, brine compensation, and natural cavities was carried-out. No relevant features were identified.

4.8 Environmental Setting

The site lies in the following groundwater setting:

- Superficial aquifer: None - No superficial strata were classified.
- Bedrock aquifer: The Weald Clay (Sandstone) was classified as a Secondary A - Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers where bands of Mudstone are encountered.
- Bedrock aquifer: The Weald Clay (Mudstone) was classified as an Unproductive Strata - Low permeability strata that have negligible significance for water supply or river base flow.
- Source protection zone: None - no groundwater Source Protection Zones were identified on site or in the vicinity.
- Flooding from Rivers and Sea: Zone 1 Low Probability - Land having a less than 1 in 1,000 annual probability of river or sea flooding.
- Surface water flooding on site: Generally, Very low risk - each year this area has a chance of flooding of less than 0.1%. Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding.
  Surface water flooding on site: Locally - Low risk - each year this area has a chance of flooding of between 0.1% and 1%. Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding.
- Groundwater flooding on site: Unlikely.
- Nearest surface water feature – 20m south east was an inland river.

4.9 Radon Gas

The requirement for Radon Protection Measures (RPM) has been assessed in accordance with BRE 211:2015. Public Health England and the BGS estimate the potential for radon and the requirement for Radon Protection Measures on site as follows:

- Radon probability: Not at risk - less than 1% of homes are estimated by PHE to exceed the threshold for Radon gas in residential dwellings.
- Radon Protection Measures (RPM): No Radon protection is required for new dwellings or extensions constructed at this location.

4.10 UXO Risk Assessment

Free online maps suggest the risk from UXO might be low. As such, no further assessment is considered necessary at this stage.

5.0 CONCEPTUAL SITE MODEL (CSM)

5.1 Source-Pathway-Receptor (SPR) Model

The assessment of potential contamination risks follows a Source-Pathway-Receptor (SPR) approach, following established guidance and best practice. The principle of primary and secondary sources has been adopted:

- A **primary source** for instance a leaking tank or drainage, industrial activity, buried fill materials, etc, identified as part of the desk study and site walkover.
- A **secondary source** is the environmental media (or phases) in which any resulting contamination may occur, being soils, ground gases, volatile vapours, and groundwater:

Secondary source	Summary
Soil	Soils (Made Ground) contaminated with materials such as ash, clinker, bitumen, refuse, wastes, asbestos, etc [Endogenic] or soils contaminated by discharges, spillage, drainage, run-off, migration etc of contaminants from diffuse or point sources [Anthropogenic].
Ground water	Mobile contaminants entering groundwater, being either perched water (impermeable horizons such as clays or buried structures) or as a water table (more persistent water bodies within productive strata).
Volatile vapours	Volatile or semi-volatile compounds generating vapours which exist in a gas phase and may be generated from soils, groundwater or directly from storage such as underground tanks.
Ground gases	Ground gases occurring from a variety of natural and man-made sources, principally from the decomposition of waste materials, organic matter, organic contaminants. Examples include landfill sites, alluvium, and mine workings etc.

5.2 Qualitative Risk Assessment Framework

A qualitative estimate of risk associated with the identified source-pathway-receptor linkages has been made. Each source, pathway and receptor in each linkage is given a rating from 0-5, and the overall rating for the linkage is expressed as a multiple of the three numbers. The overall risk ratings are concluded in the next chapter (Preliminary Risk Assessment).

Rating	Source	Pathway	Receptor	SPR Linkage
Unlikely	0	0	0	0
Very Low	1	1	1	1-3
Low	2	2	2	4-17
Moderate	3	3	3	18-48
High	4	4	4	49-100
Very high	5	5	5	100+

The scoring is based on professional judgement and qualitative assessment of various factors:

Source - Whether it is on-site or off-site, the distance from the site, the age and time period, the history and evolution, whether it has been redeveloped and when, the overall magnitude or extent, any existing data or observations. Sources are identified from the conceptual site model.

Pathway - Proximity and relationship to the associated receptor, frequency, the ground conditions, flow directions, migration pathways. Pathways may vary between each source and each receptor.

Receptor - Direct or indirect effects, human health or non-human receptor, age classes, exposure duration and frequency, types of activity, materials, existing evidence of harm, quality of the receptor and significance of any harm. This will depend on any existing or proposed site uses.

Potential sources and Receptors are identified first, before identifying whether any active realistic pathways exist between them.

5.3 Primary Sources

Potential sources of contamination were identified and rated as follows:

Primary sources	Soils	Ground Water	Vapours	Ground Gases
Made Ground <1m - widespread	High	Moderate	Low	Unlikely
Agricultural land (farmyards)	High	Moderate	Low	Unlikely
OVERALL RATING	High	Moderate	Low	Unlikely

Made Ground may be present on site as parts of the site were formed of compacted trackways and yards with sub-bases with other areas subject to several phases of development. Given the site history as farmland and the nature of the site, the composition of the Made Ground may be onerous These materials may contain a wide range of potential contaminants including metals, non-metals, organic contaminants and asbestos. The likelihood of soil contamination is therefore rated to be High. Contaminants may be mobile and leach out into ground water, and water was expected perched within the Made Ground; this has been rated as Moderate. The age and composition of Made Ground was such that the potential for significant generation of organic vapours was Low. Made Ground may generate ground gases, particularly carbon dioxide, where the depth is in excess of 1m and the soil contains moderate levels of organic matter, however, this depth of Made Ground was not expected and the risk from ground gases was unlikely.

Agricultural premises may have been used for contaminative activities including the storage and use of persistent pesticides such as DDT, the application of sewage sludge or animal wastes, storage and burning of other wastes, slurry pits, and animal burials, use of fuels and maintenance of vehicles. The barns were noted to be used to temporary store domestic and farm vehicles. The likelihood of soil contamination is therefore rated to be High. Contaminants may be mobile and leach out into ground water, and water was expected within the Made Ground, this has been rated as Moderate. The potential for significant generation of organic vapours was Low, whereas ground gases was Unlikely. The roof of one of the barns was noted to be corrugated cement sheeting; given the age of the structure these are likely to contain asbestos.

Waste management facilities where soil and wastes are deposited in the ground can be significant sources of ground gases. No registered waste management facilities where landfilling has occurred were identified on site or within the vicinity.

No significant naturally occurring sources of ground gases were identified.

5.4 Potential Receptors

The following potential receptors associated with the site and the proposed development have been considered in this report:

Receptor	Rating	Justification
End Users	High	Occupants of the proposed redevelopment. The proposed development comprised residential houses with private gardens.
Adjacent Land	Low	Sensitive land uses identified locally. The site was surrounded by open farmland.
Soft Landscaping	High	Areas of planting including lawns, shrubs, trees, etc. New private garden areas were to be formed from existing hard landscaped areas. No evidence of existing plant phytotoxicity was observed, and was unlikely to be a significant issue.
Structural Concrete	High	New foundations etc. cast in contact with the ground. The development was anticipated to include shallow foundations.
Water Supply Pipework	High	Water supplies may be damaged or tainted when mains are laid in contaminated ground. New potable water mains are to be laid.
Groundwater	Moderate	Water below ground in permeable strata. The site overlies strata classified as Secondary A Aquifer and is a potential resource for potable or commercial abstractions. The background chemical quality of the aquifer is to be considered.
Surface Water	Moderate	Surface water in lakes and rivers etc. A pond with a stream running off to the south east was identified 20m to the south east of the site.

5.5 Receptors Excluded

The following potential receptors were excluded from the assessment as they are covered by other legislative controls and are outside the remit of this report.

- Ecological receptors such as statutory protected species or wildlife areas. An assessment of such risks was outside the scope of this report.
- Site workers such as those involved in construction work or future maintenance. Any risks posed to site workers would be controlled through Health & Safety legislation, including the CDM and COSHH regulations etc.

6.0 PRELIMINARY RISK ASSESSMENT (PRA)

6.1 SPR Linkages and Risk Ratings

The source-pathway-receptor linkages identified are summarised below:

Soils	Pathways	Rating	Receptor	Rating	Overall Rating
High	Dermal contact with soil and soil-borne dust	Very high	End Users	High	High
High	Ingestion of soil and soil-borne dust	Very high	End Users	High	High
High	Inhalation of soil-borne dust	Very high	End Users	High	High
High	Consumption of homegrown produce	Moderate	End Users	High	High
High	Inhalation of soil-borne dust	Moderate	Adjacent Land	Low	Moderate
High	Plant uptake, phytotoxic effects	High	Planting	High	High
High	Chemical attack	High	Concrete	High	High
High	Chemical attack	High	Pipework	High	High
High	Leaching-out, migration to water table	High	Groundwater	Moderate	High
High	Leaching-out, migration to water bodies	High	Surface Water	Moderate	High

Ground water	Pathways	Rating	Receptor	Rating	Overall Rating
Moderate	Direct contact	Unlikely	End Users	High	Unlikely
Moderate	Direct contact	Unlikely	Adjacent Land	Low	Unlikely
Moderate	Plant uptake, phytotoxic effects	Very Low	Planting	High	Low
Moderate	Chemical attack	Very high	Concrete	High	High
Moderate	Chemical attack	Moderate	Pipework	High	Moderate
Moderate	Migration to Controlled Water receptor	Low	Groundwater	Moderate	Moderate
Moderate	Lateral migration to water bodies	Moderate	Surface Water	Moderate	Moderate

Vapours	Pathways	Rating	Receptor	Rating	Overall Rating
Low	Inhalation, ignition	High	End Users	High	Moderate
Low	Inhalation, ignition	High	Adjacent Land	Low	Low
Low	Root asphyxiation, phytotoxic effects	High	Planting	High	Moderate
Low	Not a significant hazard	-	Concrete	High	Unlikely
Low	Chemical attack	High	Pipework	High	Moderate
Low	Not a significant hazard	-	Groundwater	Moderate	Unlikely
Low	Not a significant hazard	-	Surface Water	Moderate	Unlikely

Ground Gasses	Pathways	Rating	Receptor	Rating	Overall Rating
Unlikely	Inhalation, ignition	High	End Users	High	Unlikely
Unlikely	Inhalation, ignition	Unlikely	Adjacent Land	Low	Unlikely

Unlikely	Root asphyxiation, phytotoxic effects	Moderate	Planting	High	**Unlikely**
Unlikely	Not a significant hazard	-	Concrete	High	**Unlikely**
Unlikely	Not a significant hazard	-	Pipework	High	**Unlikely**
Unlikely	Not a significant hazard	-	Groundwater	Moderate	**Unlikely**
Unlikely	Not a significant hazard	-	Surface Water	Moderate	**Unlikely**

6.2 Other Factors

The following other areas of possible concern were identified, but were outside the geo-environmental risk assessment:

Site managers are responsible for the safety of persons in their employ under a variety of instruments including the CDM regulations and Health & Safety at Work Act. In terms of working on contaminated sites, guidance can be sought from the CIRIA publication entitled "A Guide for Safe Working on Contaminated Sites". Any work in confined spaces confined spaces should only be carried out following appropriate risk assessment. Detailed risk assessment for workers is outside the scope of this report.

Dumped wastes including vehicles, waste timber etc. were noted. An allowance should be made for removing such items as part of site preparation works.

Asbestos may exist within buildings on site, including for instance in cement boarding. An appropriate survey should be undertaken to assess the presence of asbestos within the building fabric.

Weil's Disease is a bacterial infection spread by animals caused by Leptospira bacteria. Leptospirosis generally causes mild flu-like symptoms, such as headache, chills and muscle pain, but in severe cases can be life-threatening and cause organ failure and internal bleeding. Leptospirosis can be caught by touching soil or water contaminated with the urine of wild animals (generally cattle, pigs, dogs and rodents, particularly rats) infected with the bacteria. Higher risks may arise through contact with sewage or freshwater. Leptospirosis is rare in the UK; only 44 cases were reported in England and Wales during 2011 (15 originated overseas and none were fatal).

Damaging, disturbing or removing protected species can result in prosecution under a range of environmental legislation. Potential impacts on the ecological environment include:

- Disturbance of birds, [redacted] bats and other protected species
- Removal and fragmentation of habitats
- Disturbance to aquatic wildlife and water quality
- Disturbance to wildlife from noise and vibration
- Damage to trees and hedgerows.

It is recommended that the advice of an appropriately qualified ecologist should be sought prior to undertaking any works.

7.0 INTRUSIVE INVESTIGATION

7.1 Investigation Rationale

Based on the findings of the conceptual site model, the intrusive investigation comprised five hand pits were excavated to give broad coverage across the site.

Position	Provisional Depth / strata	Existing Location	Proposed Location
HP01	1.20 / prove natural	Rear of western most barn	Proposed garden area
HP02	1.20 / prove natural	Footprint of barn	Footprint of new building
HP03	1.20 / prove natural	Lawn of outbuilding	Proposed garden area
HP04	1.20 / prove natural	Footprint of barn	Footprint of new building
HP05	1.20 / prove natural	Yard area	Proposed garden area

7.2 Contamination Strategy

Geo-environmental aspects were investigated based on the following strategy:

Area of Concern	Investigation	Position(s)
Made Ground	Representative samples of soil were to be screened for a broad industry standard screening contaminants.	All
Agricultural land (onsite)	Representative samples of soil were also to be screened for petroleum hydrocarbon (TPH7), volatile organic compounds (VOC/SVOC) and pesticides / Herbicides	HP01 to HP04
Waste classification	For preliminary waste classification, representative samples were to be screened for contaminants and full hazardous waste leachate testing performed.	HP01, HP02, and HP04

7.3 Enabling Works

Positions HP01 and HP02, HP04 and HP05 were located within hardstanding and required breaking out with a hydraulic breaker.

7.4 Hand Pits (HP)

Hand excavated trial pits provide a low cost and low impact method of sampling shallow soils.

7.5 Soil Sampling

Soil samples were recovered from the exploratory holes during the ground investigation and stored/transported in containers appropriate for the laboratory testing undertaken. Sample types and depths are recorded on the relevant exploratory hole records.

7.6 Groundwater Sampling

Groundwater samples were recovered from the wells using dedicated bailers and stored/transported in containers appropriate for the laboratory testing undertaken.

8.0 GROUND CONDITIONS

8.1 General

The expected ground conditions were anticipated to comprise Weald Clay (mudstone / sandstone) to depth. The investigation confirmed the anticipated ground conditions. A thin capping of hardstanding, topsoil and Made Ground was encountered at surface.

A summary of the encountered conditions is presented below.

Strata	Base Depth (mbgl)				
	HP01	HP02	HP03	HP04	HP05
Hardstanding	0.05	0.15	--	--	0.20
Sub-bases	0.20	--	--	--	--
Topsoil	--	--	0.25	--	--
Made Ground	0.47+	0.45	0.70+	0.80	0.50
Weald Clay	--	1.00+	--	1.00+	1.00+

The naming of geological strata is tentative and should be used as a guide. Interpolation between or below investigation points should be treated with caution.

The description of soils and rocks was in accordance with BS5930.

Topsoil can be distinguished from Made Ground, even though these may have been disturbed through human activity and may contain materials such as brick, pottery, or charcoal etc.

8.2 Hardstanding and Sub-bases

Position HP01 was located to the immediate south of the westernmost barn; ASPHALT was encountered to a depth of 0.05mbgl overlying a compacted sub-base comprising sand and brick fill to 0.25mbgl.

Position HP02 was located within the entrance of the westernmost barn; CONCRETE was encountered to a depth of 0.15mbgl.

8.3 Topsoil

Topsoil was encountered in position HP03, and the full thickness was proved to a base depth of 0.25mbgl. In summary the Topsoil comprised loose, dark brown slightly gravelly SILT with abundant rootlets and fine to medium, subangular to subrounded flint gravels.

8.4 Made Ground

Made Ground was encountered in all positions, and the full thickness was proved in HP02, HP04 and HP05. Where the full thickness was encountered, the base ranged between 0.45 and 0.80mbgl. It is noted that the full thickness was not proved in positions HP01 and HP03, and the holes were terminated early at 0.47 and 0.70mbgl due to water ingress.

In summary the Made Ground comprised rubble backfill recovered as brown GRAVEL with varying sand, clay and varying amounts of construction debris (concrete cobbles, clinker, bituminous material, whole brick, sandstone, plastic sheeting etc.)

8.5 Weald Clay

Weald Clay was only encountered in positions HP02, HP04 and HP05, and the hand pits terminated in this stratum at a depth of 1.00mbgl.

In summary the Weald Clay comprised orangey brown silty CLAY with light grey mottling. In position HP05, the Weald Clay comprised greyish/reddish brown silty CLAY with frequent rootlets before transitioning into orangey brown silty CLAY with light grey mottling.

8.6 Roots and Rootlets

Abundant rootlets were noted in position HP03 to a depth of 0.25mbgl, and in position HP05 frequent decayed rootlets were noted between 0.50 and 0.75mbgl.

8.7 Field Evidence of Contamination

Soils in position HP01 between the depths of 0.25 and 0.40mbgl and in position HP04 between the depths of 0.55 and 0.80mbgl were noted to contain a moderate hydrocarbon malodour.

Made Ground was identified between ground level and a depth of and 0.80mbgl, and such materials may be imported from an unknown source or mixed with hazardous materials, and as such may contain a wide range of potential contaminants. All such materials should be treated as suspect unless proven otherwise. Testing has been carried out, as described in section 10.1.

8.8 Groundwater

Groundwater was struck during the excavation of HP01-HP04 with short-term standing water depths between 0.40 and 0.80mbgl.

The level of water in a hand pit can be affected by the excavation process and speed of infiltration; short-term rest levels should be used with caution.

8.9 Stability

The excavations were noted to be stable throughout.

9.0 CONTAMINATION LABORATORY TESTING

9.1 Scheduled Testing

Samples were selected for geochemical (contamination) analysis, based on the following rationale:

- Made Ground was encountered, which may contain a wide range of contaminants. Selected samples from positions HP01 (0.35m), HP02 (0.20m), HP03 (0.25m), HP04 (0.60m) and HP05 (0.30m) were tested for a routine screening suite (LS1) and were screened for Asbestos.
- Samples of Made Ground were noted to contain a moderate hydrocarbon malodour in positions HP01 and HP04, samples from these and also within the footprint of the proposed buildings were tested for speciated total petroleum hydrocarbons (TPH7) and volatile/semi-volatile organic compounds.
- The conceptual site model (CSM) identified the site as previously/currently being used for agricultural purposes, selected samples were also tested for herbicides and pesticides.
- Waste classification testing on three samples was included in the scope of works, to provide a preliminary assessment for waste handling. In the absence of any areas to specifically target, representative samples of Made Ground were selected for testing.
- Samples of groundwater were obtained from position HP02. Based on the CSM, there is potential for contamination resulting from agricultural land use. The water samples were analysed for routine screening suite (LS1), speciated total petroleum hydrocarbons (TPH7) and herbicides and pesticide screen.

The scope and extent of testing was considered appropriate and in accordance with the Conceptual Site Model and preliminary risk assessment.

Position	Depth	Strata	LS1	Asbestos	TPH7	VOC/SVOC	Herb. & pesticide	LS2
HP01	0.35m	Made Ground	✓	✓	✓	✓	✓	✓
HP02	0.20m		✓	✓	--	--	--	✓
HP02	0.40m		--	--	✓	✓	--	--
HP02	0.80m	Groundwater	✓	--	✓	--	✓	--
HP03	0.25m	Made Ground	✓	✓	✓	✓	✓	--
HP04	0.60m		✓	✓	✓	✓	--	✓
HP04	0.75m		--	--	✓	--	--	--
HP05	0.30m		✓	✓	--	--	--	--

The relevant screening suites are defined below. Where duplicate analysis exists between suites, each test is performed only once:

Suite	Definition
LS1 (soil)	Screening suite: pH, fraction of organic carbon, Metals and Non Metals, water soluble Sulphate, Sulphide, total Cyanide, total Phenols, speciated PAH's.
LS1 (water)	Screening suite: pH, Metals and Non Metals, total Sulphate, Sulphide, total Cyanide, total Phenols, speciated PAH's.
Asbestos	Asbestos screen: Laboratory screening for fibres and Asbestos Containing Materials; identification where identified. Using polarising light and dispersion

Suite	Definition
	staining as described in HSG 248, HSE Contract Research Report No 83/1996 and in Davies et al, 1996.
TPH7	Speciated TPH: Total petroleum hydrocarbons CWG banding incl. aliphatic and aromatic split plus BTEX and MTBE.
VOC/SVOC	Determination of volatile organic compounds in soil and water by headspace GC-MS Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS
Herbicide & pesticide	Determination of pesticides in water by GC-MS/MS Determination of acid herbicides in soil and water by LC-MS/MS
LS2	Waste Acceptance Criteria: Total Organic Carbon, Loss on Ignition, BTEX, speciated PCB's, Mineral Oil (EC10 – EC40), pH, Acid Neutralisation Capacity, speciated PAH's, 10:1 leachable Metals and Non Metals.

The results are discussed in the relevant sections.

10.0 HUMAN HEALTH SCREENING

10.1 Screening Values

As the basis of a generic tier 1 screening assessment, the results have been compared directly against published standards for human health.

Several different partly overlapping schemes are currently in use in the UK, based on the Environment Agency's CLEA Model but with differing toxicological parameters. For this report, these schemes have and have been applied in the following hierarchy:

- Suitable For Use levels (S4UL) recently published by LQM in association with the CIEH.
- Category 4 Screening Levels (C4SL) recently published by the DEFRA and CL:AIRE.

Whilst other standards exist, such as the LQM Generic Assessment Criterion and the Environment Agency's Soil Guideline Values, these are deemed superseded by the above documents.

The soil chemical analysis results have been compared against respective screening values for residential land uses with plant uptake (i.e. residential properties with private gardens, where homegrown produce could form a proportion of dietary intake).

For contaminants where the respective screening value is dependent on Soil Organic Matter (SOM), the corresponding value for 6.0% was used (the arithmetic mean SOM value for the shallow soils was 6.6%).

Where no standard exists, the contaminant is either not considered a priority in terms of human health (at least in the scenario being considered), or no screening value has been published.

10.2 Screening results

None of the results exceeded the screening criteria, with the exception of the following:

Determinand	Screening value	Results exceeding the screening value
Naphthalene	13 mg/kg	HP03 0.25m (32 mg/kg)
Phenanthrene	440 mg/kg	HP03 0.25m (1700* mg/kg)
Fluoranthene	860 mg/kg	HP03 0.25m (2200* mg/kg)
Pyrene	2000 mg/kg	HP03 0.25m (1800* mg/kg)
Benzo(a)anthracene	13 mg/kg	HP01 0.35m (18 mg/kg), HP03 0.25m (820 mg/kg),
Chrysene	27 mg/kg	HP03 0.25m (710 mg/kg)
Benzo(b)fluoranthene	3.7 mg/kg	HP01 0.35m (22 mg/kg), HP03 0.25m (790 mg/kg),
Benzo(k)fluoranthene	100 mg/kg	HP03 0.25m (340 mg/kg)
Benzo(a)pyrene	3 mg/kg	HP01 0.35m (20 mg/kg), HP03 0.25m (710 mg/kg),
Indeno(1,2,3-cd)pyrene	41 mg/kg	HP03 0.25m (330 mg/kg)
Di-benzo(a,h)anthracene	0.3 mg/kg	HP01 0.35m (2.3 mg/kg), HP03 0.25m (75 mg/kg),

* Concentration has been determined by extrapolated calibration as analyte concentration is above the concentration range for the procedure after dilution.

10.3 Benzo(a)Pyrene

With respect to Polycyclic Aromatic Hydrocarbons (PAH's) Land Science have adopted the surrogate marker approach described in Appendix E of the C4SL suite of documents i.e. using benzo(a)pyrene as a representative compound for all genotoxic PAH's. This approach was used as benzo(a)pyrene was detected in the samples, and the other PAH's identified above the individual screening values were all classed as genotoxic. The table below summarises the revised screening assessment:

Determinand	GAC	Concentration		Results above GAC value
		Mean	Max	
Benzo(a)Pyrene (as surrogate marker)	5	146.35	710	HP01 0.35m (20mg/kg) HP03 0.25m (710mg/kg)

10.4 Speciated TPH

The risks from TPH's are assessed differently from other contaminants. The ratio of an individual group of carbon bands to the respective GAC is calculated (a Hazard Quotient) and these are totalled to derive a sample specific Hazard Index. A Hazard Index exceeding 1.0 suggests a potential significant risk to human health in the exposure scenario considered. The calculated Hazard Indexes are summarised below.

Sample	Total TPH	Hazard Index	Notes
HP01 0.35m	433mg/kg	0.30	No exceedances
HP02 0.40m	120mg/kg	0.06	
HP03 0.25m	12260mg/kg *	11.25	Elevated Hazard index – potential risk from Hydrocarbons
HP04 0.60m	860mg/kg	0.25	No exceedances
HP04 0.75m	110mg/kg	0.06	

* Concentration has been determined by extrapolated calibration as analyte concentration is above the concentration range for the procedure after dilution.

10.5 Volatile and Semi-Volatile Compounds

The table below identifies volatile compounds (VOCs/SVOCs) found to exceed their respective detection limits, but where there was no screening values had been set.

Determinant	Detection Limit	Position		
		HP01 0.35m	HP03 0.25m	HP04 0.60m
1,2,4-Trimethylbenzene	1 µg/kg	<5.0	<5.0	460
1,3,5-Trimethylbenzene	1 µg/kg	<5.0	<5.0	120
2-Methylnaphthalene	0.1 mg/kg	1.1	22	0.2
Anthraquinone	0.3 mg/kg	1.3	160	<0.3
Carbazole	0.3 mg/kg	2.7	110	<0.3
Dibenzofuran	0.2 mg/kg	3.3	130	<0.3

10.6 Asbestos

There are no published screening values for asbestos in soil. The table below provides a summary of the testing results.

Soil	Sample	Asbestos present	Type	Quantification
Made Ground	HP01 0.35m	Detected	Amosite (Sheeting / board debris)	<0.001%
	HP02 0.20m	Detected	Chrysotile (Loose Fibres)	<0.001%
	HP03 0.25m	None detected	-	-
	HP04 0.60m	None detected	-	-
	HP05 0.30m	None detected	-	-

Where identified, a detailed quantitative risk assessment is required in accordance with the Joint Industry Working Group Asbestos in Soil and Construction & Demolition (C&D) Materials guidance titled "Control of Asbestos Regulations 2012: Interpretation for Managing and Working with Asbestos in Soil and Construction & Demolition materials: Industry Guidance (shortened name CAR-SOIL™)".

10.7 Herbicides & Pesticides

There are no published screening values for Herbicides and Pesticides. Two samples (HP01 0.35m and HP03 0.25m) were screened for the presence of Herbicides and Pesticides. The full methodology is described in the analytical report.

None were found above their detection limits. Taking these limits into consideration, the risk posed from Herbicides and Pesticides across the site is considered to be low and as such unlikely to represent a significant risk.

11.0 ENVIRONMENTAL SCREENING

11.1 Soft Landscaping

A number of documents include guidance on screening levels of phytotoxic contaminants within soils, including:

- BS3882:2015 "Specification for topsoil and requirements for use" (although stipulated as not to be used in contaminated land risk assessment).
- ICRCL in publication 70/90 1990 'Notes on the Restoration and Aftercare of Metalliferous Mining Sites for Pasture and Grazing' (although indirectly withdrawn) (where marked *).
- Code of Practice for Agricultural Use of Sewage Sludge (England and Wales 1996) for arable use (as opposed to grazing) and relating to priority phytotoxic elements only.

The results of the chemical analysis for determinands known to pose a potential phytotoxic risk to plant growth are summarised on the following table, together with the respective adopted screening values for plant growth. The results of the chemical analysis were evaluated singularly without the use of statistical tools.

Element	Phytotoxicity Value (mg/kg)			Arable (grassland)	Results exceeding screening value
	pH <6.0	pH 6.0-7.0	pH >7.0	pH >5.2	
Zinc	200	200	300	300 (300)	No exceedance
Copper	100	135	200	200 (330)	
Nickel	60	75	110	110 (180)	
Cadmium	50*			3.0 (3.0)	
Arsenic	1,000*			50 (50)	

11.2 Structural Concrete

It is noted that no onerous precautions in this respect are warranted.

11.3 Potable Water Supplies

The risk of chemical attack on water supply pipework has been assessed following the general principals set out in the joint Water UK/HBF *Contaminated Land Assessment Guidance* dated January 2014. A summary of the main chemical criteria is reproduced below.

Test group (in mg/kg)	Poly-ethylene (PE)	Polyvinyl Chloride (PVC)	Metal or Barrier pipe	Results exceeding
VOC's	0.5	0.125	No limit	HP04 0.60m (1,2,4-Trimethylbenzene – 0.46mg/kg)
VOC's + BTEX & MTBE	0.1	0.03	No limit	HP04 0.60m (BTEX – 0.048mg/kg)
SVOC's (excl. PAH's etc.)	2.0	1.4	No limit	HP01 0.35m (8.4mg/kg) HP03 0.25m (422mg/kg)
SVOC's + Phenols	2.0	0.4	No limit	HP01 0.35m (8.4mg/kg) HP03 0.25m (422mg/kg)

Test group (in mg/kg)	Poly-ethylene (PE)	Polyvinyl Chloride (PVC)	Metal or Barrier pipe	Results exceeding
SVOC's + Cresols & Chlorinated Phenols	2.0	0.04	No limit	HP01 0.35m (8.4mg/kg) HP03 0.25m (422mg/kg)
Mineral oil EC11-20	10	No limit	No limit	HP01 0.35m (128mg/kg) HP03 0.25m (6948mg/kg) HP04 0.60m (680.8mg/kg) HP04 0.75m (44.9mg/kg)
Mineral oil EC21-40	500	No limit	No limit	HP04 0.60m (5800mg/kg)

Redox potential and conductivity should be checked where metal pipework is to be installed. aluminium barrier pipework is acceptable under all conditions. no pipework should be laid where there is evidence of petrol, diesel etc.

12.0 CONTROLLED WATERS

The relevant analytical results have been compared directly against the standard set out in the water framework directive for surface waters, and the current UK potable water supply regulations.

12.1 Soil Leachate Screening

In comparison to the adopted surface water standards, the following determinands exceeded the respective thresholds.

Determinand	EQS	Units	HP01 0.35m	HP02 0.20m	HP04 0.60m
Chromium	0.0047	mg/l	0.0021	0.0029	0.0048
Copper	0.001	mg/l	0.021	0.013	0.035
Lead	0.0012	mg/l	0.0083	<0.0010	0.0018
Nickel	0.004	mg/l	<0.00030	<0.00030	0.0049

In comparison to the adopted drinking water standards, the following determinands exceeded the respective thresholds:

Determinand	DWS	Units	HP01 0.35m	HP02 0.20m	HP04 0.60m
Arsenic	0.01	mg/l	0.0224	0.00323	0.00898

12.2 Water Screening

In comparison to the adopted surface water standards, the following determinands exceeded the respective thresholds:

Determinand	EQS	Units	HP02 0.80m
Copper	0.001	mg/l	0.0059

In comparison to the adopted drinking water standards. None were found to exceed the respective standards. In addition, no hydrocarbons, herbicides or pesticides were noted to be present within the water sample tested.

13.0 TIER 1 CONTAMINATION ASSESSMENT

13.1 End Users

The chemical results identified elevated PAHs within the Made Ground at HP1 and HP03 and TPHs at HP03. These elevated levels may be associated with Bituminous materials encountered within the Made Ground.

Elevated Volatile compounds were also noted within the shallow soils at HP01, HP03 and HP04.

Consideration should be given to either conducting further investigation or proceeding considering possible remediation measures.

13.2 Adjacent Land Users

The site has not been identified as a risk of ongoing pollution to neighbouring land.

However, measures should always be taken to prevent and control any dust, run-off and mud etc. generated during groundworks, as part of good site management.

13.3 Soft Landscaping

None of the potentially phytotoxic metals tested exceeded the respective screening values. No evidence of potentially phytotoxic effects was noted during the site walkover survey inspection.

However, the physical composition of the Made Ground (bricks, concrete and little soil) was such that it was unlikely to be a suitable medium for landscaping and planting. Clean imported topsoil and subsoil will be required in accordance with appropriate British Standards.

13.4 Concrete specification

All sub surface concrete should be designed and specified in accordance with BS8500-1:2015+A1:2016. The results of the Sulphate and pH analyses fell into Class DS-1 and an ACEC class AC-1 is appropriate.

13.5 Potable Water Supplies

The recorded concentrations of SVOC, BTEX and TPH exceeded the respective standard for Poly-ethylene (PE) and Polyvinyl Chloride (PVC) pipe in the samples from HP01, HP03 and HP04. Suitable types of pipework materials may include metal or aluminium barrier pipe.

13.6 Ground Water Protection

The preliminary conceptual site model identified possible source pathway-receptor-linkages with respect to groundwater. The site overlies the Weald Clay (Sandstone) which was classified as a Secondary A aquifer. Contamination may be mobilised through the infiltration and percolation of water downwards through the soil column and into the water table. This may then in turn migrate with the water table and impact directly on abstraction points.

Comparing the soil-leachate data directly to drinking water standards, Arsenic exceeded the respective standards in the leachate test for sample HP01 0.35m (0.0224mg/l above a limit of 0.01mg/l).

However, none of groundwater results exceeded the drinking water standards. Overall, the screening does not suggest a significant risk of impact on groundwater quality.

13.7 Surface Water Protection

The preliminary conceptual site model identified possible source pathway-receptor-linkages with respect to surface water. Contamination may migrate through the action of water laterally towards the pond and stream identified 20m south east, where the water quality may become degraded in terms of recreational amenity, potable abstraction, environmental status, etc.

Comparing the soil-leachate data directly to surface water standards, the following contaminants exceeded the respective standards.

Determinand	EQS	Units	HP01 0.35m	HP02 0.20m	HP04 0.60m
Chromium	0.0047	mg/l	0.0021	0.0029	0.0048
Copper	0.001	mg/l	0.021	0.013	0.035
Lead	0.0012	mg/l	0.0083	<0.0010	0.0018
Nickel	0.004	mg/l	<0.00030	<0.00030	0.0049

Only elevated Copper was noted within the groundwater sample tested from HP02 (0.0056mg/l over the screening criteria of 0.001mg/l).

13.8 Conclusions

The updated conceptual site model has identified the following potential risks:

- End users; inhalation, ingestion, dermal contact with soils, soil borne dusts, inhalation of vapours, consumption of homegrown produce.
- Soft landscaping; poor soil conditions for landscaping and planting
- Water supply pipes; risk of chemical attack, decay and tainting of water supplies.
- Groundwater; risk of contamination in Made Ground migrating into the water table and impacting on background quality; impact on local receptor points such as abstractions
- Surface water; risk of contamination in groundwater migrating laterally an impacting on the pond and stream 20m to the south east.

Based on a preliminary remediation options appraisal, it was considered that the risks would most cost effectively mitigated by:

- Complete removal of Made Ground from all soft landscaping areas to a depth of 0.60m and reinstating with topsoil/subsoil as required by the landscape designer (minimum 150mm).
- Upgrading of the damp proof membrane to one that would also provide protection from ingress of vapours.
- Upgrading of new water supply pipework.
- Excavating and disposing of contaminated soils.

A copy of this report should be submitted to the relevant authorities for approval in sufficient time prior to commencement on site.

A suitably qualified Environmental Consultant should prepare a full *Implementation, Verification Monitoring and Maintenance Plan*. An appropriate level of supervision and testing will be required, to form part of a formal *Verification Report*.

14.0 PRELIMINARY WASTE ASSESSMENT

14.1 General

Waste may be defined as any substance or object in Annex 1 of the Waste Framework Directive which the holder discards, intends to discard, or is required to discard. Subject to compliance with waste regulations, soils may either be handled as either:

- Non-Waste, and re-used (either on-site or on another site), or
- Waste, and disposed of (to a waste management facility).

Given the confines of the site, it was anticipated that all materials would be disposed of from site as waste.

The waste producer has a legal duty of care to ensure that waste materials are handled properly and sent to the appropriate licenced facility. Substantial tax penalties and fines are being levied by the regulators. Inspection, testing, segregation etc will be required on site, and the support of a suitably qualified consultant should be sought; therefore, the advice in this section is preliminary only.

14.2 Waste Disposal

Where materials are not re-used they must be handled as Waste, and must be sent to a licenced waste management facility. Waste is classified as follows:

- Step 1: Does the material contain dangerous substances that qualify as Hazardous Waste as prescribed under the Waste Framework Directive.

- Step 2: Does the leachability criteria allow the materials to be sub-classified as Stable Non Reactive Waste (SNRHW) or as Inert Waste.

A material is therefore either Hazardous or Non-Hazardous Waste; Hazardous may be sub-classified as SNRHW and Non-Hazardous Waste may be sub-classified as Inert.

The results of the soil analysis have been classified as follows:

Soil	Waste designation	Details
Made Ground HP01 0.35m	Non-hazardous	The soil analysis was not identified as hazardous but the WAC test did not meet the requirements for Inert waste. Interpretation: Non Hazardous waste. The tests failing the criteria were: Total PAH (mg/kg).
Made Ground HP02 0.20m	Inert	The soil analysis was not identified as hazardous and the WAC test met the requirements for Inert. Interpretation: Inert Waste.
Made Ground HP02 0.40m HP04 0.75m	Non-hazardous	The soil analysis was not identified as hazardous. No WA test undertaken.
Made Ground HP03 0.25m	Hazardous	The soil analysis was identified as hazardous due to elevated TPHs. No WAC test undertaken.

Soil	Waste designation	Details
Made Ground HP04 0.60m	Stable non-reactive Hazardous	The soil analysis was identified as Hazardous waste, although the WAC test met the criteria for Stable Non -reactive Hazardous Waste. The tests failing the criteria were BTEX, TPHs.
Made Ground HP05 0.30m	Hazardous	The soil analysis was identified as hazardous due to elevated pH. No WAC test undertaken.

It is anticipated that the underlying natural soils would meet the Inert Waste Criteria.

The receiving waste facility should be consulted as they may be able to handle different wastes with higher acceptance criteria. e.g. The elevated pH may relate to building materials within the sample.

Asbestos was identified in only two of the five samples tested. In the sample from HP02 it was detected as free fibres <0.001%. The threshold of free fibres in Hazardous Waste is 0.1% and therefore the sample was classified as non-hazardous.

Asbestos Containing Materials (ACM's) were also identified in HP01 at 0.35m as sheeting / board debris (<0.001%). WM3 states that where waste contains identifiable pieces of asbestos containing material (i.e. any particle of a size that can be identified as potentially being asbestos by a competent person if examined by the naked eye), then these pieces must be assessed separately. HSE publication HSG264 suggests that there are no ACM's where the typical proportion of asbestos is less than 0.1%. Therefore, all soils containing ACM's are Hazardous waste (but may still be sub-classified as Stable Non-reactive).

Further WAC testing may be considered for soils identified as Non-Hazardous, as the tests may enable those materials to be re-classified as Inert and therefore represent a potential saving on disposal costs.

With reference to the current List of Wastes (formerly European Waste Catalogue), waste soils and stone derived from construction and demolition sites may be disposed of under either of the following codes as appropriate:

Waste	Code	Description
Hazardous	17 05 03*	soil and stones containing dangerous substances
Non-Hazardous	17 05 04	soil and stones other than those mentioned in 17 05 03

(Note, the asterix is a Mirror Entry, as defined in the List of Wastes, conferring the relationship with the non-hazardous code 17-05-04).

REFERENCES

A number of technical references have been referred to in the preparation of this document, including:

- Smith, I. (2014) Smith's Elements of Sil Mechanics. Chichester. Wiley Blackwell. 9th Edition.
- Highways England 2009. Interim Advice Note 73/06 revision 1: Design Guidance for Road Pavement foundations (draft HD25)
- BRE Design Guide 365. Soakaway design ("DG365")
- Radon: Guidance on protective measures for new buildings, BRE Report BR 211, 2015 2ND edition
- Groundwater protection: Principles and practice (GP3) August 2013 Version 1.1
- Revised EU Waste Framework Directive 2008 2008/98/EC [transposed into English law under The Waste (England and Wales) Regulations 2011]
- European Community (EC) Directive 1999/31/EC [transposed into English law under the Landfill (England and Wales) Regulations 2002]
- Defining Waste Recovery - Permanent Deposit of Waste on Land, EPR13 v1.0, EA 2010
- The definition of waste: Development Industry Code of Practice, v2, CL:AIRE 2011
- Guidance on the classification and assessment of waste Technical Guidance WM3 ("WM3") EA publication (1st edition 2015)

REPORT CONDITIONS

The Client

This report may also be used only by the client named in section 1 and their appointed project team for the purpose of design, obtaining planning, building regulations approval, and in connection with finance. This report must not be used by any other persons or for other purposes without express written agreement of Land Science.

General

Land Science takes all reasonable professional care in preparation of this report, using current standards and industry practice. However, the evaluation of ground conditions depends on an interpretation and extrapolation of the conditions revealed by a limited data set. The level of risk is related to the extent of investigation and no site is ever free of risk. The client should understand their risks and liabilities. We accept no liability whatsoever in respect of:

- The scope, extent or design of an investigation.
- Any conditions not directly revealed by the investigation.
- Published standards or methodologies used or adopted in this report.
- The opinion of any other party including any regulator, authority or stakeholder.
- Any dispute, claim or consequential loss arising from any findings of this report.
- Third party information and data.

This report relates solely to ground-related matters as set out in the objectives and makes no representation on other matters such as ecology, arboriculture, invasive plant species, the condition of buildings and structures, hazardous building materials such as insulation or asbestos, the locations of boundaries, unexploded ordnance, and or planning constraints etc. Further reports should be commissioned in this respect as appropriate.

Regulators and Approvals

This (and any other) report should be submitted to relevant authorities for their own assessments and to provide their approval or comments accordingly. This should be in good time before commencing on site in case additional work is to be carried out.

Standards, technical guidance and regulatory positions change over time and which may therefore affect the findings and recommendations made in this report; this should be verified by the client prior to any critical project milestones. Where this information is used in design, the designer should verify that the information is appropriate and has been used correctly.

Variations with time

The report relates to conditions revealed at the time of the investigation and any monitoring visits. Some parameters may vary over time or seasonally; groundwater levels, ground gas compositions, or concentrations of contaminants are particularly variable in this respect. Further monitoring or verification should be considered as appropriate.

GLOSSARY OF TERMS

ACM	Asbestos Containing Material
BGS	British Geological Survey
BRE	Building Research Establishment
BS	British Standard
C4SL	Category 4 Screening Level
CBR	California Bearing Ratio
CDM	Construction Design and Management regulations
CIRIA	Construction Industry Research and Information Association
CL:AIRE	Contaminated Land: Applications in Real Environments
CLEA	Contaminated Land Exposure Assessment model
CSM	Conceptual Site Model
EA	Environment Agency
EQS	Environmental Quality Standards
FOC	Fraction of Organic Carbon
GAC	Generic Assessment Criterion
GQRA	Generic Quantitative Risk Assessment
mbgl	Meters Below Ground Level
NHBC	National House Building Council
mOD	Metres above Ordnance Datum
PAH's	Polycyclic Aromatic Hydrocarbons
PHE	Public Health England
PID	Photo-Ionisation Detector
PQRA	Preliminary Quantitative Risk Assessment
PSD	Particle Size Distribution Test
RMS	Remediation Method Statement
S4UL	Suitable for Use Level
SOM	Soil Organic Matter
SPZ	Source Protection Zone
SPT	Standard Penetration Test
SSSI	Sites of Special Scientific Interest
ST-WEL	Short Term Workplace Exposure Limit
SVOC's	Semi-Volatile Organic Compounds
TPH	Total Petroleum Hydrocarbons
TRRL / TRL	Transport Road Research Laboratory
TWA-WEL	Time Weighted Average Workplace Exposure Limit
UK HBF	United Kingdom House Building Federation
VOC's	Volatile Organic Compounds
WAC	Waste Acceptance Criteria

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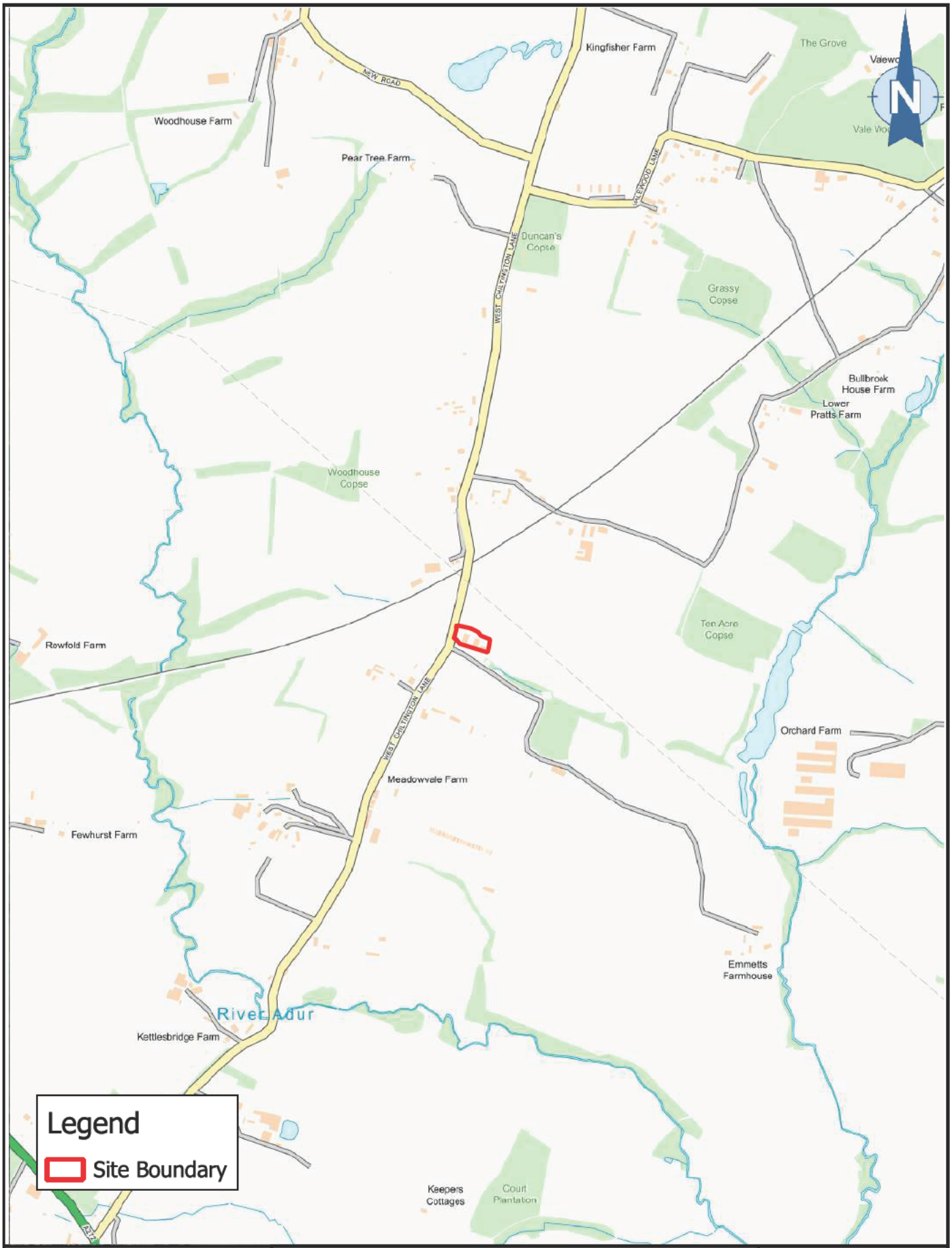

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Land Science	Title: Site Location		Reference: LS7994
	Project: Billhook Farm, West Chiltington Lane, RH14 9DN		Figure: 1
	Client: Mr Jim Smith		Date: 11/10/24
	Prepared by: LS	Checked by: MR	Version: 01	Sheet: 1 of 1

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Land Science	Title: Exploratory Hole Location Plan	Reference: LS7994	Prepared by: LS
	Project: Billhook Farm, West Chiltington Lane, RH14 9DN	Figure: 2	Checked by: MR
	Client: Mr Jim Smith	Date: 11/10/2024	Version: 01

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Land Science	Title: Proposed Development Layout	Reference: LS7994	Prepared by: LS
	Project: Billhook Farm, West Chiltington Lane, RH14 9DN	Figure: 3	Checked by: MR
	Client: Mr Jim Smith	Date: 11/10/2024	Version: 01

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APPENDIX A

SITE WALKOVER RECORD

The walkover is restricted only to aspects related to the Land Science report and the stated objectives therein. The walkover does not replace other surveys such as asbestos, arboriculture, ecology, utilities etc which the client should consider. The client should review the walkover and provide any further relevant information where available.

SITE DETAILS			
Project	*Billhook Farm*		
Reference	*LS7994*	**Date of walkover**	*14/10/2024*
Engineer	*LS*		
CURRENT USE			
Existing land uses	 *1 – Barn used for temporary storage of tools and a car.* *2 – Static caravan* *3 – Barn used for temporary storage of vehicles and plant* *4 – Shed used for temporary storage of processed wood* *5 – OFF SITE - Area used for processing wood*		
Status	*In active use.*		
Suspected asbestos	*Potential cement board sheeting in the roof of the central barn.*		
Below ground structures	*No immediate evidence.*		
Hardstandings	*Areas around barns and to the north of shed (4) located in asphalt. Barn (1) – concrete floor. Barn (3) – compacted chalk floor.*		
Soft landscaping	*Soft landscaping area immediate east of outbuilding (2), well-kept open grass field to the north and east of site area under investigation.*		
General condition	*Generally, well kept.*		
Boundaries	*Formed by trees at the edges of site. Access to site via padlocked gate off West Chiltington Lane.*		
Adjacent land uses	*Residential dwellings and agricultural fields. Railway adjacent to northern extent of field associated with the site, running broadly northeast-southwest.*		
TOPOGRAPHY			
General lie of the land	*Near bottom of south facing slope of valley*		
General lie of the site	*Sensibly flat and level.*		
Abrupt changes in slope	*None recorded.*		

Excavations /Depressions	*None recorded.*
Raised ground	*None recorded.*
GROUND STABILITY	
Signs of landslip	*None recorded.*
Cracking in buildings and walls etc	*None recorded.*
Subsidence on ground surface	*None recorded.*
GROUND CONDITIONS	
Possible filled-in ground	*None recorded.*
Possible built-up ground	*Possibly where ground has been levelled out to build barns and outbuildings, and sheds.*
Exposed soils	*None recorded.*
Desiccation	*None recorded.*
Disturbance	*Brown silt/ silty gravel.*
WATER CONDITIONS	
Wet boggy ground	*Present across the site. Walkover undertaken during heavy rainfall*
Wells and ditches	*None recorded.*
Ponds or ponding	*None recorded.*
Streams / Rivers	*None recorded.*
ECOLOGY	
Burrows	*None recorded.*
VEGETATION	
Reeds or water loving plants	*None recorded.*
Sparse growth / die back	*None recorded.*
Invasive species	*None recorded.*
TREES	
Relevant trees height/species	*Mature, mixed species approx. 5-12m in height along the southern and western boundary of the site.*
Off-site	*“*
Hedgerows	*Approx. 1.0-1.5m high along the southern and western site boundary.*
Recent felling and older stumps	*None recorded.*
CONTAMINATION	
Tipped materials	*Assorted domestic waste (glass bottles, cans, wrappers) noted around the site. Old vehicles.*
Areas of possible fill	*None recorded.*
Discolouration/sheens of waterbodies	*None recorded.*
Surface staining	*None recorded.*
Chemicals storage	*None recorded.*
Drums and tanks	*None recorded.*
Petrol interceptor	*None recorded.*
Soakaways	*None recorded.*
LOCAL INFORMATION	
Place/road names	
3rd party information	
OTHER INFORMATION	

APPENDIX B










Land Science	**TITLE:**	Site Photographs		**REF:**	LS7994
	PROJECT:	Billhook Farm, West Chiltington Lane, RH14 9DN		**FIGURE**	
	CLIENT:	Mr Jim Smith		**DATE:**	30/10/2024
	PREP: LS	**CHECK:** MR	**VERSION** V1	**SHEET:**	1 OF 5

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UNIT 10, 19 ALBERT DRIVE BURGESS HILL, **WEST SUSSEX**, RH15 9TN
2ND FLOOR, 25-28 FIELD STREET, **LONDON**, WC1X 9DA










Land Science	**TITLE:**	Site Photographs		**REF:**	LS7994
	PROJECT:	Billhook Farm, West Chiltington Lane, RH14 9DN		**FIGURE**	
	CLIENT:	Mr Jim Smith		**DATE:**	30/10/2024
	PREP: LS	**CHECK:** MR	**VERSION** V1	**SHEET:**	2 OF 5



Land Science	**TITLE:**	Site Photographs		**REF:**	LS7994
	PROJECT:	Billhook Farm, West Chiltington Lane, RH14 9DN		**FIGURE**	
	CLIENT:	Mr Jim Smith		**DATE:**	30/10/2024
	PREP: LS	**CHECK:** MR	**VERSION** V1	**SHEET:**	3 OF 5

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UNIT 10, 19 ALBERT DRIVE BURGESS HILL, **WEST SUSSEX**, RH15 9TN
2ND FLOOR, 25-28 FIELD STREET, **LONDON**, WC1X 9DA

HP02









HP03









Land Science	**TITLE:**	Site Photographs		**REF:**	LS7994
	PROJECT:	Billhook Farm, West Chiltington Lane, RH14 9DN		**FIGURE**	
	CLIENT:	Mr Jim Smith		**DATE:**	30/10/2024
	PREP: LS	**CHECK:** MR	**VERSION** V1	**SHEET:**	4 OF 5

HP04









HP05









Land Science	**TITLE:**	Site Photographs		**REF:**	LS7994
	PROJECT:	Billhook Farm, West Chiltington Lane, RH14 9DN		**FIGURE**	
	CLIENT:	Mr Jim Smith		**DATE:**	30/10/2024
	PREP: LS	**CHECK:** MR	**VERSION** V1	**SHEET:**	5 OF 5

APPENDIX C

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Site	Trial Pit Number
Billhook Farm, West Chiltington Lane, RH14 9DN	HP01

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mr Jim Smith	LS7994
	Location	**Dates** 14/10/2024	**Project Contractor** Land Science	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.05) 0.05	ASPHALT (HARDSTANDING)		
					(0.20)	Yellow brown, sandy GRAVEL. Sands are medium. Gravels are fine to coarse, brick. (SUB-BASE)		
0.15	D				0.25			
0.35	ES		Water strike(1) at 0.40m, no rise after 20 mins.		(0.22)	Brown, clayey, sandy GRAVEL. Sands are fine to medium. Gravels are fine to coarse, brick, clinker, bituminous material, flint. (MADE GROUND) ...Moderate hydrocarbon malodour noted after 0.25mbgl ...Becoming wet after 0.40mbgl		▼1
					0.47	Terminated at 0.47m		

Plan

Remarks

GROUNDWATER: Seepage from sides noted at 0.40mbgl, remained standing at 0.40mbgl.
STABILITY: No instability encountered.
BACKFILL: Trial hole backfilled with arisings
DIMENSIONS: 0.30m (l) 0.30m (w) (approx)
NOTES: Trial hole terminated early at 0.47mbgl due to water ingress.

Scale (approx)	Logged By	Figure No.
1:10	LS	LS7994.HP01

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Land Science	Brighton | London | Bristol 0845 604 6494 www.landscience.co.uk	Site Billhook Farm, West Chiltington Lane, RH14 9DN	Trial Pit Number **HP02**

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mr Jim Smith	LS7994
	Location	**Dates** 14/10/2024	**Project Contractor** Land Science	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.15)	CONCRETE (HARDSTANDING)		
					0.15			
0.20	ES				(0.30)	Brown, slightly clayey, sandy GRAVEL. Sands are fine to medium. Gravels are fine to coarse subangular to subrounded brick, sandstone, concrete. clinker, flint. (MADE GROUND) ...Fibrous material at 0.27mbgl		
0.40	ES				0.45			
0.50	ES				(0.55)	Orangey brown, silty CLAY with light grey mottling. (WEALD CLAY)		
0.80	GW							
0.90	D					...Occasional silty/black mudstone bands after 0.90mbgl		
					1.00	Complete at 1.00m		

Plan

Remarks

GROUNDWATER: Dry upon completion, standing at 0.75mbgl after 20mins.
STABILITY: No instability encountered.
BACKFILL: Trial hole backfilled with arisings
DIMENSIONS: 0.30m (l) 0.30m (w) (approx)
NOTES: Trial hole complete at 1.00mbgl.

Scale (approx)	Logged By	Figure No.
1:10	LS	LS7994.HP02

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Site	Trial Pit Number
Billhook Farm, West Chiltington Lane, RH14 9DN	HP03

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mr Jim Smith	LS7994
	Location	**Dates** 14/10/2024	**Project Contractor** Land Science	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						Grass over loose, dark brown, slightly gravelly SILT with abundant rootlets. Gravels are fine, subangular to subrounded flint. (TOPSOIL)		
0.10	ES				(0.25)			
0.25-0.30	ES				0.25 (0.05) 0.30	Moist, dark brown, slightly clayey, slightly sandy GRAVEL. Gravels are fine to coarse, bituminous material, sandstone, flint. (MADE GROUND)		
						Wet, brown, clayey, sandy GRAVEL. Sands are fine to medium. Gravels are fine to coarse, sandstone, brick, bituminous material, rare ceramic tile fragments. (MADE GROUND)		
0.45	ES				(0.40)			
			Water strike(1) at 0.60m, no rise after 20 mins.			...Loose plastic sheeting at 0.57mbgl.		▼1
0.70	D				0.70	Terminated at 0.70m		

Plan

Remarks

GROUNDWATER: Seepage from sides noted at 0.60mbgl, remained standing at 0.60mbgl.
STABILITY: No instability encountered.
BACKFILL: Trial hole backfilled with arisings
DIMENSIONS: 0.30m (l) 0.30m (w) (approx)
NOTES: Trial hole terminated early at 0.70mbgl due to water ingress.

Scale (approx)	Logged By	Figure No.
1:10	LS	LS7994.HP03

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Site	Trial Pit Number
Billhook Farm, West Chiltington Lane, RH14 9DN	HP04

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mr Jim Smith	LS7994
	Location	**Dates** 14/10/2024	**Project Contractor** Land Science	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.10)	Compacted chalk backfill. (MADE GROUND)		
					0.10	Rubble backfill recovered as brown, sandy GRAVEL. Gravels are medium to coarse, subangular to subrounded concrete, whole brick, rebar, rare loose plastic sheeting. (MADE GROUND)		
						...Very cobbley between 0.10 and 0.50mbgl		
						...Loose plastic sheeting at 0.40mbgl		
					(0.70)			
0.60	ES					...Moderate hydrocarbon malodour noted between 0.55 and 0.80mbgl		
0.75	ES		Water strike(1) at 0.78m, fell to 0.80m in 20 mins.			...Becoming clayey after 0.70mbgl		▽1 ▼1
					0.80	Orangey brown, silty CLAY with light grey mottling. (WEALD CLAY)		
0.90	ES				(0.20)			
					1.00	Complete at 1.00m		

Plan

Remarks

GROUNDWATER: Seepage from the sides noted at 0.78mbgl, standing at 0.80mbgl upon completion.
STABILITY: No instability encountered.
BACKFILL: Trial hole backfilled with arisings
DIMENSIONS: 0.30m (l) 0.30m (w) (approx)
NOTES: Trial hole complete at 1.00mbgl.

Scale (approx)	Logged By	Figure No.
1:10	LS	LS7994.HP04

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Site	Trial Pit Number
Billhook Farm, West Chiltington Lane, RH14 9DN	HP05

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit			Mr Jim Smith	LS7994
	Location	**Dates** 14/10/2024	**Project Contractor** Land Science	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20)	Dark brown silty flint gravels and bituminous material over CONCRETE. (HARDSTANDING)		
					0.20	Rubble backfill recovered as brown, sandy GRAVEL. Gravels are medium to coarse, subangular to subrounded concrete boulders, whole brick, rebar, rare loose plastic sheeting. (MADE GROUND)		
0.30	ES				(0.30)			
					0.50	...Band of sandstone and concrete blocks between 0.45 and 0.50mbgl		
0.55	ES					Greyish/reddish brown, silty CLAY with frequent decayed rootlets. (WEALD CLAY)		
					(0.50)	...Becoming orangey brown with light grey mottling and no rootlets after 0.75mbgl		
0.80	D							
					1.00	Complete at 1.00m		

Plan

Remarks

GROUNDWATER: None encountered.
STABILITY: No instability encountered.
BACKFILL: Trial hole backfilled with arisings
DIMENSIONS: 0.30m (l) 0.30m (w) (approx)
NOTES: Trial hole complete at 1.00mbgl.

Scale (approx)	Logged By	Figure No.
1:10	LS	LS7994.HP05

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APPENDIX D

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[redacted]

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 24-048083

Project / Site name:	Billhook Farm, West Chiltington Lane, RH14 9DN	**Samples received on:**	16/10/2024
Your job number:	LS7994	**Samples instructed on/ Analysis started on:**	16/10/2024
Your order number:		**Analysis completed by:**	25/10/2024
Report Issue Number:	1	**Report issued on:**	25/10/2024
Samples Analysed:	7 soil samples - 1 water sample - 3 leachate samples		

Signed: [redacted]

Dominika Liana
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350266	350267	350268	350270	350271
Sample Reference				HP01	HP02	HP02	HP03	HP04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.40	0.25	0.60
Date Sampled				14/10/2024	14/10/2024	14/10/2024	14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Stone Content	%	0.1	NONE	25	51.8	62.5	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	4.5	5.8	5.4	16
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.6	0.6	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Detected	-	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	KSZ	KSZ	-	KSZ	KSZ
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	Detected	Not-detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Not-detected	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	< 0.001	-	-	-
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Sheeting/Board Debris	Loose Fibres	-	-	-

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	8.2	10.5	-	-	9.9
pH (L099)	pH Units	N/A	MCERTS	9.5	10.9	-	8	10.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	560	390	-	72	420
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.279	0.196	-	0.0359	0.209
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	279	196	-	35.9	209
Sulphide	mg/kg	1	MCERTS	75	1	-	5	1.2
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.017	0.023	-	-	0.012
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	0.13	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.7	2.3	-	-	1.2
Loss on Ignition @ 450°C	%	0.2	MCERTS	3.6	4.1	-	-	3.2
Acid Neutralisation Capacity	+/- mmol/kg	-9999	NONE	11	64	-	-	63

Total Phenols

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

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350266	350267	350268	350270	350271
Sample Reference				HP01	HP02	HP02	HP03	HP04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.40	0.25	0.60
Date Sampled				14/10/2024	14/10/2024	14/10/2024	14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	2.3	< 0.05	< 0.05	32	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.89	< 0.05	< 0.05	21	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	4.6	< 0.05	0.17	240	0.09
Fluorene	mg/kg	0.05	MCERTS	6.3	< 0.05	0.17	260	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	32	0.15	1.8	1700 $	0.85
Anthracene	mg/kg	0.05	MCERTS	11	< 0.05	0.5	530	1.7
Fluoranthene	mg/kg	0.05	MCERTS	41	0.25	2.6	2200 $	1.1
Pyrene	mg/kg	0.05	MCERTS	35	0.25	2.1	1800 $	1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	18	< 0.05	0.83	820	< 0.05
Chrysene	mg/kg	0.05	MCERTS	17	0.15	0.8	710	0.54
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	22	0.17	0.84	790	0.65
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	8.6	< 0.05	0.42	340	0.22
Benzo(a)pyrene	mg/kg	0.05	MCERTS	20	< 0.05	0.77	710	0.48
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	9.6	< 0.05	0.39	330	0.31
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.3	< 0.05	0.09	75	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	10	0.11	0.4	320	0.6
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	-	60	< 0.05
Total PAH								
Total WAC-17 PAHs	mg/kg	0.85	NONE	240	1.09	-	11000	7.57
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	9.4	-	22	10
Barium (aqua regia extractable)	mg/kg	1	MCERTS	120	160	-	1400	62
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.79	0.39	-	0.56	0.36
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1	0.7	-	1.5	1.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.4	-	0.8	0.4
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	-	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	13	-	15	13
Copper (aqua regia extractable)	mg/kg	1	MCERTS	60	9.9	-	21	13
Lead (aqua regia extractable)	mg/kg	1	MCERTS	140	46	-	47	27
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	9.7	-	13	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	39	20	-	29	20
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	73	70	-	120	140
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	0.94
TPHCWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	2.1	5.6
TPHCWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	2.6	-	2.4	39	230
TPHCWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	74	320
TPHCWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	50	-	55	140	170
TPHCWG - Aliphatic >EC5 - EC35 $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	53	-	58	260	720

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350266	350267	350268	350270	350271
Sample Reference				HP01	HP02	HP02	HP03	HP04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.40	0.25	0.60
Date Sampled				14/10/2024	14/10/2024	14/10/2024	14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.02	MCERTS	< 0.020	-	< 0.020	< 0.020	0.16
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	1.1	-	< 1.0	33	1.2
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	17	-	< 2.0	1100 $$	60
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	110	-	< 10	5700 $$	64
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	260	-	62	5700 $$	17
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	380	-	62	12000	140
Mineral Oil (EC10 - EC40) EH_CU_1D_AL	mg/kg	10	NONE	90	120	-	-	730
VOCs								
Chloromethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	-	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0	-	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	7	MCERTS	< 7.0	-	< 7.0	< 7.0	< 7.0
1,1-Dichloropropene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	6	MCERTS	< 6.0	-	< 6.0	< 6.0	< 6.0
Trichloroethene	µg/kg	10	MCERTS	< 10	-	< 10	< 10	< 10
Dibromomethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	< 10	-	< 10	< 10	< 10
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	6	MCERTS	< 6.0	-	< 6.0	< 6.0	< 6.0
1,3-Dichloropropane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	24
Styrene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	24
Isopropylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0	-	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350266	350267	350268	350270	350271
Sample Reference				HP01	HP02	HP02	HP03	HP04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.40	0.25	0.60
Date Sampled				14/10/2024	14/10/2024	14/10/2024	14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
2-Chlorotoluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	120
tert-Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	460
sec-Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Butylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	< 8.0
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Total BTEX	µg/kg	10	MCERTS	< 10	< 10	-	-	48
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2	-	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	-	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	-	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	1.1	-	< 0.1	22	0.2
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2	-	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	3.3	-	< 0.2	130	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2	-	< 0.2	< 0.2	< 0.2
Azobenzene	mg/kg	0.3	NONE	< 0.3	-	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2

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Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350266	350267	350268	350270	350271
Sample Reference				HP01	HP02	HP02	HP03	HP04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.40	0.25	0.60
Date Sampled				14/10/2024	14/10/2024	14/10/2024	14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.30	-	< 0.30	< 0.30	< 0.30
Carbazole	mg/kg	0.3	MCERTS	2.7	-	< 0.3	110	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2	-	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	NONE	1.3	-	< 0.3	160	< 0.3
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3	-	< 0.3	< 0.3	< 0.3
PCBs by GC-MS								
PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	< 0.001
Total PCBs	mg/kg	0.007	MCERTS	< 0.007	< 0.007	-	-	< 0.007
Pesticides								
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	< 10	-	-	< 10	-
Alachlor	µg/kg	10	NONE	< 10	-	-	< 10	-
Bifenthrin	µg/kg	10	NONE	< 10	-	-	< 10	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	< 10	-	-	< 10	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	< 10	-	-	< 10	-
Omethoate	µg/kg	10	NONE	< 10	-	-	< 10	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	< 10	-	-	< 10	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	< 10	-	-	< 10	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	< 10	-	-	< 10	-
Dimethylvinphos	µg/kg	10	NONE	< 10	-	-	< 10	-
Demeton-O	µg/kg	10	NONE	< 10	-	-	< 10	-
Demeton-S	µg/kg	10	NONE	< 10	-	-	< 10	-
Endrin Aldehyde	µg/kg	10	NONE	< 10	-	-	< 10	-
Endrin Ketone	µg/kg	10	NONE	< 10	-	-	< 10	-
Hexachlorobutadiene	µg/kg	10	NONE	< 10	-	-	< 10	-
Phosphamidon (Sum)	µg/kg	10	NONE	< 10	-	-	< 10	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	< 10	-	-	< 10	-
Cis-Permethrin	µg/kg	10	NONE	< 10	-	-	< 10	-
Endosulfan sulfate	µg/kg	10	NONE	< 10	-	-	< 10	-
Etrimfos	µg/kg	10	NONE	< 10	-	-	< 10	-
Fenvalerate (Sum)	µg/kg	10	NONE	< 10	-	-	< 10	-
Hexachlorobenzene	µg/kg	10	NONE	< 10	-	-	< 10	-
Mevinphos, E+Z	µg/kg	10	NONE	< 10	-	-	< 10	-
Pentachlorobenzene	µg/kg	10	NONE	< 10	-	-	< 10	-
Pirimiphos-ethyl	µg/kg	10	NONE	< 10	-	-	< 10	-
Propetamphos	µg/kg	10	NONE	< 10	-	-	< 10	-
Tecnazene	µg/kg	10	NONE	< 10	-	-	< 10	-
Triadimefon	µg/kg	10	NONE	< 10	-	-	< 10	-
Trans-Permethrin	µg/kg	10	NONE	< 10	-	-	< 10	-
Aldrin	µg/kg	10	NONE	< 10	-	-	< 10	-
Azinphos-methyl	µg/kg	10	NONE	< 10	-	-	< 10	-
Beta-BHC	µg/kg	10	NONE	< 10	-	-	< 10	-
Cis-Chlordane	µg/kg	10	NONE	< 10	-	-	< 10	-
Chlorfenvinphos	µg/kg	10	NONE	< 10	-	-	< 10	-
Chlorpyrifos	µg/kg	10	NONE	< 10	-	-	< 10	-

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Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350266	350267	350268	350270	350271
Sample Reference				HP01	HP02	HP02	HP03	HP04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.40	0.25	0.60
Date Sampled				14/10/2024	14/10/2024	14/10/2024	14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Chlorothalonil	µg/kg	10	NONE	< 10	-	-	< 10	-
Carbophenothion	µg/kg	10	NONE	< 10	-	-	< 10	-
Cyfluthrin (Sum)	µg/kg	10	NONE	< 10	-	-	< 10	-
Delta-BHC	µg/kg	10	NONE	< 10	-	-	< 10	-
Dieldrin	µg/kg	10	NONE	< 10	-	-	< 10	-
Deltamethrin	µg/kg	10	NONE	< 10	-	-	< 10	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	< 10	-	-	< 10	-
Endrin	µg/kg	10	NONE	< 10	-	-	< 10	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	< 10	-	-	< 10	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	< 10	-	-	< 10	-
Fenthion	µg/kg	10	NONE	< 10	-	-	< 10	-
Isodrin	µg/kg	10	NONE	< 10	-	-	< 10	-
Methacrifos	µg/kg	10	NONE	< 10	-	-	< 10	-
O,p'-DDD	µg/kg	10	NONE	< 10	-	-	< 10	-
O,p'-DDE	µg/kg	10	NONE	< 10	-	-	< 10	-
O,p'-DDT	µg/kg	10	NONE	< 10	-	-	< 10	-
Parathion	µg/kg	10	NONE	< 10	-	-	< 10	-
Parathion-methyl	µg/kg	10	NONE	< 10	-	-	< 10	-
Pendimethalin	µg/kg	10	NONE	< 10	-	-	< 10	-
Phorate	µg/kg	10	NONE	< 10	-	-	< 10	-
Phosalone	µg/kg	10	NONE	< 10	-	-	< 10	-
P,p'-DDD	µg/kg	10	NONE	< 10	-	-	< 10	-
P,p'-DDE	µg/kg	10	NONE	< 10	-	-	< 10	-
P,p'-DDT	µg/kg	10	NONE	< 10	-	-	< 10	-
P,p'-Methoxychlor	µg/kg	10	NONE	< 10	-	-	< 10	-
Propyzamide	µg/kg	10	NONE	< 10	-	-	< 10	-
Triazophos	µg/kg	10	NONE	< 10	-	-	< 10	-
Trans-Chlordane	µg/kg	10	NONE	< 10	-	-	< 10	-
Cypermethrin (Sum)	µg/kg	10	NONE	< 10	-	-	< 10	-
Dichlorvos	µg/kg	10	NONE	< 10	-	-	< 10	-
Dimethoate	µg/kg	10	NONE	< 10	-	-	< 10	-
Diazinon	µg/kg	10	NONE	< 10	-	-	< 10	-
Ethion	µg/kg	10	NONE	< 10	-	-	< 10	-
Fenitrothion	µg/kg	10	NONE	< 10	-	-	< 10	-
Malathion	µg/kg	10	NONE	< 10	-	-	< 10	-
Pirimiphos-methyl	µg/kg	10	NONE	< 10	-	-	< 10	-
Trifluralin	µg/kg	10	NONE	< 10	-	-	< 10	-
Azinphos-ethyl	µg/kg	10	NONE	< 10	-	-	< 10	-

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350266	350267	350268	350270	350271
Sample Reference				HP01	HP02	HP02	HP03	HP04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.40	0.25	0.60
Date Sampled				14/10/2024	14/10/2024	14/10/2024	14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Acid Herbicides								
4-CPA	µg/kg	10	NONE	< 10	-	-	< 10	-
Dinoseb	µg/kg	10	NONE	< 10	-	-	< 10	-
Flamprop	µg/kg	10	NONE	< 10	-	-	< 10	-
Ioxynil	µg/kg	10	NONE	< 10	-	-	< 10	-
2,3,6-TBA	µg/kg	10	NONE	< 10	-	-	< 10	-
Bromacil	µg/kg	10	NONE	< 10	-	-	< 10	-
Diclofop	µg/kg	10	NONE	< 10	-	-	< 10	-
Flamprop-Isopropyl	µg/kg	10	NONE	< 10	-	-	< 10	-
MCPP (Mecoprop)	µg/kg	10	NONE	< 10	-	-	< 10	-
Bromoxynil	µg/kg	10	NONE	< 10	-	-	< 10	-
Dichlorprop	µg/kg	10	NONE	< 10	-	-	< 10	-
Clopyralid	µg/kg	10	NONE	< 10	-	-	< 10	-
2,4-D	µg/kg	10	NONE	< 10	-	-	< 10	-
2,4-DB	µg/kg	10	NONE	< 10	-	-	< 10	-
Dicamba	µg/kg	10	NONE	< 10	-	-	< 10	-
2,4,5-TP (Fenoprop)	µg/kg	10	NONE	< 10	-	-	< 10	-
MCPB	µg/kg	10	NONE	< 10	-	-	< 10	-
Picloram	µg/kg	10	NONE	< 10	-	-	< 10	-
2,4,5-T	µg/kg	10	NONE	< 10	-	-	< 10	-
MCPA	µg/kg	10	NONE	< 10	-	-	< 10	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350272	350273
Sample Reference				HP04	HP05
Sample Number				None Supplied	None Supplied
Depth (m)				0.75	0.30
Date Sampled				14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**		
Stone Content	%	0.1	NONE	56.7	< 0.1
Moisture Content	%	0.01	NONE	7.9	11
Total mass of sample received	kg	0.1	NONE	0.6	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	-	KSZ
Actinolite detected	Type	N/A	ISO 17025	-	-
Amosite detected	Type	N/A	ISO 17025	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	-	-
pH (L099)	pH Units	N/A	MCERTS	-	12
Total Cyanide	mg/kg	1	MCERTS	-	< 1.0
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	84
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.0417
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	41.7
Sulphide	mg/kg	1	MCERTS	-	2.5
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	0.011
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	-	-
Acid Neutralisation Capacity	+/- mmol/kg	-9999	NONE	-	-

Total Phenols

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

Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350272	350273
Sample Reference				HP04	HP05
Sample Number				None Supplied	None Supplied
Depth (m)				0.75	0.30
Date Sampled				14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**		
Speciated PAHs					
Naphthalene	mg/kg	0.05	MCERTS	-	0.08
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	0.14
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	0.94
Anthracene	mg/kg	0.05	MCERTS	-	0.69
Fluoranthene	mg/kg	0.05	MCERTS	-	1.2
Pyrene	mg/kg	0.05	MCERTS	-	1.2
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	0.59
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	0.73
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	0.21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	0.52
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	0.34
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	0.46
Coronene	mg/kg	0.05	NONE	-	< 0.05
Total PAH					
Total WAC-17 PAHs	mg/kg	0.85	NONE	-	7.16
Heavy Metals / Metalloids					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	6.8
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-	54
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	0.32
Boron (water soluble)	mg/kg	0.2	MCERTS	-	2.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	0.4
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	-	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	13
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	27
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	10
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	20
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	85
Petroleum Hydrocarbons					
TPHCWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	-
TPHCWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	-
TPHCWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	0.19	-
TPHCWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	2.7	-
TPHCWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	18	-
TPHCWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	15	-
TPHCWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	26	-
TPHCWG - Aliphatic >EC5 - EC35 $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	61	-

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350272	350273
Sample Reference				HP04	HP05
Sample Number				None Supplied	None Supplied
Depth (m)				0.75	0.30
Date Sampled				14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**		
TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	MCERTS	< 0.010	-
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	MCERTS	< 0.010	-
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.02	MCERTS	0.055	-
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	2.3	-
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	6.9	-
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	40	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	49	-
Mineral Oil (EC10 - EC40) EH_CU_1D_AL	mg/kg	10	NONE	-	-

VOCs

Chloromethane	µg/kg	5	MCERTS	-	-
Chloroethane	µg/kg	5	MCERTS	-	-
Bromomethane	µg/kg	5	MCERTS	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-
Trichlorofluoromethane	µg/kg	5	MCERTS	-	-
1,1-Dichloroethene	µg/kg	5	MCERTS	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	MCERTS	-	-
Trans 1,2-dichloroethylene	µg/kg	5	MCERTS	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	-
1,1-Dichloroethane	µg/kg	5	MCERTS	-	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-
Chloroform	µg/kg	5	MCERTS	-	-
1,1,1-Trichloroethane	µg/kg	5	MCERTS	-	-
1,2-Dichloroethane	µg/kg	7	MCERTS	-	-
1,1-Dichloropropene	µg/kg	5	MCERTS	-	-
Cis-1,2-dichloroethene	µg/kg	5	MCERTS	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	-
Carbontetrachloride	µg/kg	5	MCERTS	-	-
1,2-Dichloropropane	µg/kg	6	MCERTS	-	-
Trichloroethene	µg/kg	10	MCERTS	-	-
Dibromomethane	µg/kg	5	MCERTS	-	-
Bromodichloromethane	µg/kg	5	MCERTS	-	-
Cis-1,3-dichloropropene	µg/kg	5	MCERTS	-	-
Trans-1,3-dichloropropene	µg/kg	10	MCERTS	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	-
1,1,2-Trichloroethane	µg/kg	6	MCERTS	-	-
1,3-Dichloropropane	µg/kg	5	MCERTS	-	-
Dibromochloromethane	µg/kg	5	MCERTS	-	-
Tetrachloroethene	µg/kg	5	MCERTS	-	-
1,2-Dibromoethane	µg/kg	5	MCERTS	-	-
Chlorobenzene	µg/kg	5	MCERTS	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-
Styrene	µg/kg	5	MCERTS	-	-
Bromoform	µg/kg	5	MCERTS	-	-
o-Xylene	µg/kg	5	MCERTS	7.6	-
Isopropylbenzene	µg/kg	5	MCERTS	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-
Bromobenzene	µg/kg	5	MCERTS	-	-
n-Propylbenzene	µg/kg	5	MCERTS	-	-

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350272	350273
Sample Reference				HP04	HP05
Sample Number				None Supplied	None Supplied
Depth (m)				0.75	0.30
Date Sampled				14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**		
2-Chlorotoluene	µg/kg	5	MCERTS	-	-
4-Chlorotoluene	µg/kg	5	MCERTS	-	-
1,3,5-Trimethylbenzene	µg/kg	5	MCERTS	-	-
tert-Butylbenzene	µg/kg	5	MCERTS	-	-
1,2,4-Trimethylbenzene	µg/kg	5	MCERTS	-	-
sec-Butylbenzene	µg/kg	5	MCERTS	-	-
1,3-Dichlorobenzene	µg/kg	5	MCERTS	-	-
p-Isopropyltoluene	µg/kg	5	MCERTS	-	-
1,4-Dichlorobenzene	µg/kg	5	MCERTS	-	-
1,2-Dichlorobenzene	µg/kg	5	MCERTS	-	-
Butylbenzene	µg/kg	5	MCERTS	-	-
1,2-Dibromo-3-chloropropane	µg/kg	8	MCERTS	-	-
1,2,4-Trichlorobenzene	µg/kg	5	MCERTS	-	-
Hexachlorobutadiene	µg/kg	5	MCERTS	-	-
1,2,3-Trichlorobenzene	µg/kg	5	MCERTS	-	-
Total BTEX	µg/kg	10	MCERTS	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-
Azobenzene	mg/kg	0.3	NONE	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350272	350273
Sample Reference				HP04	HP05
Sample Number				None Supplied	None Supplied
Depth (m)				0.75	0.30
Date Sampled				14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**		
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-
PCB Congener 52	mg/kg	0.001	MCERTS	-	-
PCB Congener 101	mg/kg	0.001	MCERTS	-	-
PCB Congener 118	mg/kg	0.001	MCERTS	-	-
PCB Congener 138	mg/kg	0.001	MCERTS	-	-
PCB Congener 153	mg/kg	0.001	MCERTS	-	-
PCB Congener 180	mg/kg	0.001	MCERTS	-	-

Total PCBs	mg/kg	0.007	MCERTS	-	-

Pesticides

Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-
Alachlor	µg/kg	10	NONE	-	-
Bifenthrin	µg/kg	10	NONE	-	-
Cyhalothrin (Lambda)	µg/kg	10	NONE	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-
Omethoate	µg/kg	10	NONE	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-
Dimethylvinphos	µg/kg	10	NONE	-	-
Demeton-O	µg/kg	10	NONE	-	-
Demeton-S	µg/kg	10	NONE	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	-
Endrin Ketone	µg/kg	10	NONE	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-
Cis-Permethrin	µg/kg	10	NONE	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-
Etrimfos	µg/kg	10	NONE	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	-
Propetamphos	µg/kg	10	NONE	-	-
Tecnazene	µg/kg	10	NONE	-	-
Triadimefon	µg/kg	10	NONE	-	-
Trans-Permethrin	µg/kg	10	NONE	-	-
Aldrin	µg/kg	10	NONE	-	-
Azinphos-methyl	µg/kg	10	NONE	-	-
Beta-BHC	µg/kg	10	NONE	-	-
Cis-Chlordane	µg/kg	10	NONE	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	-
Chlorpyrifos	µg/kg	10	NONE	-	-

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350272	350273
Sample Reference				HP04	HP05
Sample Number				None Supplied	None Supplied
Depth (m)				0.75	0.30
Date Sampled				14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**		
Chlorothalonil	µg/kg	10	NONE	-	-
Carbophenothion	µg/kg	10	NONE	-	-
Cyfluthrin (Sum)	µg/kg	10	NONE	-	-
Delta-BHC	µg/kg	10	NONE	-	-
Dieldrin	µg/kg	10	NONE	-	-
Deltamethrin	µg/kg	10	NONE	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-
Endrin	µg/kg	10	NONE	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-
Fenthion	µg/kg	10	NONE	-	-
Isodrin	µg/kg	10	NONE	-	-
Methacrifos	µg/kg	10	NONE	-	-
O,p'-DDD	µg/kg	10	NONE	-	-
O,p'-DDE	µg/kg	10	NONE	-	-
O,p'-DDT	µg/kg	10	NONE	-	-
Parathion	µg/kg	10	NONE	-	-
Parathion-methyl	µg/kg	10	NONE	-	-
Pendimethalin	µg/kg	10	NONE	-	-
Phorate	µg/kg	10	NONE	-	-
Phosalone	µg/kg	10	NONE	-	-
P,p'-DDD	µg/kg	10	NONE	-	-
P,p'-DDE	µg/kg	10	NONE	-	-
P,p'-DDT	µg/kg	10	NONE	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	-
Propyzamide	µg/kg	10	NONE	-	-
Triazophos	µg/kg	10	NONE	-	-
Trans-Chlordane	µg/kg	10	NONE	-	-
Cypermethrin (Sum)	µg/kg	10	NONE	-	-
Dichlorvos	µg/kg	10	NONE	-	-
Dimethoate	µg/kg	10	NONE	-	-
Diazinon	µg/kg	10	NONE	-	-
Ethion	µg/kg	10	NONE	-	-
Fenitrothion	µg/kg	10	NONE	-	-
Malathion	µg/kg	10	NONE	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	-
Trifluralin	µg/kg	10	NONE	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	-

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350272	350273
Sample Reference				HP04	HP05
Sample Number				None Supplied	None Supplied
Depth (m)				0.75	0.30
Date Sampled				14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**		
Acid Herbicides					
4-CPA	µg/kg	10	NONE	-	-
Dinoseb	µg/kg	10	NONE	-	-
Flamprop	µg/kg	10	NONE	-	-
Ioxynil	µg/kg	10	NONE	-	-
2,3,6-TBA	µg/kg	10	NONE	-	-
Bromacil	µg/kg	10	NONE	-	-
Diclofop	µg/kg	10	NONE	-	-
Flamprop-Isopropyl	µg/kg	10	NONE	-	-
MCPP (Mecoprop)	µg/kg	10	NONE	-	-
Bromoxynil	µg/kg	10	NONE	-	-
Dichlorprop	µg/kg	10	NONE	-	-
Clopyralid	µg/kg	10	NONE	-	-
2,4-D	µg/kg	10	NONE	-	-
2,4-DB	µg/kg	10	NONE	-	-
Dicamba	µg/kg	10	NONE	-	-
2,4,5-TP (Fenoprop)	µg/kg	10	NONE	-	-
MCPB	µg/kg	10	NONE	-	-
Picloram	µg/kg	10	NONE	-	-
2,4,5-T	µg/kg	10	NONE	-	-
MCPA	µg/kg	10	NONE	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
350266	HP01	0.35	177	Sheeting/Board Debris	**Amosite**	< 0.001	**< 0.001**
350267	HP02	0.20	184	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350269
Sample Reference				HP02
Sample Number				None Supplied
Depth (m)				0.80
Date Sampled				14/10/2024
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**	
General Inorganics				
pH (L099)	pH Units	N/A	ISO 17025	7.7
Ammoniacal Nitrogen as NH_3	µg/l	15	ISO 17025	< 15
Alkalinity as $CaCO_3$	mgCaCO 3/l	3	ISO 17025	290
Speciated PAHs				
Naphthalene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01
Coronene	µg/l	0.01	NONE	< 0.01
Total PAH				
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16
Total WAC-17 PAHs	µg/l	0.17	NONE	< 0.17
Heavy Metals / Metalloids				
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.41
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	2.8
Copper (dissolved)	µg/l	0.5	ISO 17025	5.9
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	1.1
Selenium (dissolved)	µg/l	0.6	ISO 17025	0.7
Zinc (dissolved)	µg/l	0.5	ISO 17025	3.7
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0

Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350269
Sample Reference				HP02
Sample Number				None Supplied
Depth (m)				0.80
Date Sampled				14/10/2024
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**	
Petroleum Hydrocarbons				
TPH - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	µg/l	1	ISO 17025	< 1.0
TPH - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	µg/l	1	ISO 17025	< 1.0
TPH - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	µg/l	1	ISO 17025	< 1.0
TPH - Aliphatic >EC10 - EC12 $_{EH_1D_AL_MS}$	µg/l	10	NONE	< 10
TPH - Aliphatic >EC12 - EC16 $_{EH_1D_AL_MS}$	µg/l	10	NONE	< 10
TPH - Aliphatic >EC16 - EC21 $_{EH_1D_AL_MS}$	µg/l	10	NONE	< 10
TPH - Aliphatic >EC21 - EC35 $_{EH_1D_AL_MS}$	µg/l	10	NONE	< 10
TPH - Aliphatic >EC5 - EC35 $_{HS+EH_1D_AL_MS}$	µg/l	10	NONE	< 10
TPH - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	µg/l	1	ISO 17025	< 1.0
TPH - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	µg/l	1	ISO 17025	< 1.0
TPH - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	µg/l	1	ISO 17025	< 1.0
TPH - Aromatic >EC10 - EC12 $_{EH_1D_AR_MS}$	µg/l	10	NONE	< 10
TPH - Aromatic >EC12 - EC16 $_{EH_1D_AR_MS}$	µg/l	10	NONE	< 10
TPH - Aromatic >EC16 - EC21 $_{EH_1D_AR_MS}$	µg/l	10	NONE	< 10
TPH - Aromatic >EC21 - EC35 $_{EH_1D_AR_MS}$	µg/l	10	NONE	< 10
TPH - Aromatic >EC5 - EC35 $_{HS+EH_1D_AR_MS}$	µg/l	10	NONE	< 10
VOCs				
MTBE (Methyl Tertiary Butyl Ether)	µg/l	3	ISO 17025	< 3.0
Benzene	µg/l	3	ISO 17025	< 3.0
Toluene	µg/l	3	ISO 17025	< 3.0
Ethylbenzene	µg/l	3	ISO 17025	< 3.0
p & m-xylene	µg/l	3	ISO 17025	< 3.0
o-xylene	µg/l	3	ISO 17025	< 3.0
Acid Herbicides				
2,4,5-T	µg/l	0.02	NONE	< 0.02
2,4,5-TP	µg/l	0.02	NONE	< 0.02
2,4-D	µg/l	0.02	NONE	< 0.02
2,4-DB	µg/l	0.02	NONE	< 0.02
Dichlorprop	µg/l	0.02	NONE	< 0.02
Dinoseb	µg/l	0.02	NONE	< 0.02
MCPA	µg/l	0.02	NONE	< 0.02
MCPB	µg/l	0.02	NONE	< 0.02
MCPP (Mecoprop)	µg/l	0.02	NONE	< 0.02

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350269
Sample Reference				HP02
Sample Number				None Supplied
Depth (m)				0.80
Date Sampled				14/10/2024
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**	
Pesticides				
Azinphos-ethyl	µg/l	0.03	NONE	< 0.03
Azinphos-methyl	µg/l	0.03	NONE	< 0.03
1,2,3-Trichlorobenzene	µg/l	0.03	NONE	< 0.03
1,3,5-Trichlorobenzene	µg/l	0.03	NONE	< 0.03
Chlorfenvinphos	µg/l	0.03	NONE	< 0.03
Chlorpyrifos	µg/l	0.03	NONE	< 0.03
Chlorothalonil	µg/l	0.03	NONE	< 0.03
Carbophenothion	µg/l	0.03	NONE	< 0.03
2,6-Dichlorobenzonitrile	µg/l	0.03	NONE	< 0.03
Dimethoate	µg/l	0.03	NONE	< 0.03
Dimethylvinphos	µg/l	0.03	NONE	< 0.03
Demeton-O	µg/l	0.03	NONE	< 0.03
Demeton-S	µg/l	0.03	NONE	< 0.03
Heptachlor Exo-epoxide	µg/l	0.03	NONE	< 0.03
Endrin Aldehyde	µg/l	0.03	NONE	< 0.03
Endrin Ketone	µg/l	0.03	NONE	< 0.03
Endosulfan I (alpha isomer)	µg/l	0.03	NONE	< 0.03
Endosulfan II (beta isomer)	µg/l	0.03	NONE	< 0.03
Endosulfan Sulfate	µg/l	0.03	NONE	< 0.03
Etrimfos	µg/l	0.03	NONE	< 0.03
Fenthion	µg/l	0.03	NONE	< 0.03
Hexachlorobutadiene	µg/l	0.03	NONE	< 0.03
Hexachlorobenzene	µg/l	0.03	NONE	< 0.03
Isodrin	µg/l	0.03	NONE	< 0.03
Methacrifos	µg/l	0.03	NONE	< 0.03
O,p'-DDD	µg/l	0.03	NONE	< 0.03
O,p'-DDE	µg/l	0.03	NONE	< 0.03
O,p'-DDT	µg/l	0.03	NONE	< 0.03
Parathion	µg/l	0.03	NONE	< 0.03
Parathion-methyl	µg/l	0.03	NONE	< 0.03
Phorate	µg/l	0.03	NONE	< 0.03
Phosalone	µg/l	0.03	NONE	< 0.03
Pirimiphos-ethyl	µg/l	0.03	NONE	< 0.03
P,p'-DDD	µg/l	0.03	NONE	< 0.03
P,p'-DDE	µg/l	0.03	NONE	< 0.03
P,p'-Methoxychlor	µg/l	0.03	NONE	< 0.03
Propetamphos	µg/l	0.03	NONE	< 0.03
Phosphamidon I	µg/l	0.03	NONE	< 0.03
Triazophos	µg/l	0.03	NONE	< 0.03
1,2,4,5-Tetrachlorobenzene	µg/l	0.03	NONE	< 0.03
Tecnazene	µg/l	0.03	NONE	< 0.03
Triadimefon	µg/l	0.03	NONE	< 0.03
Alpha-BHC (benzene hexachloride)	µg/l	0.03	NONE	< 0.03
Aldrin	µg/l	0.03	NONE	< 0.03
Beta-BHC	µg/l	0.03	NONE	< 0.03
Delta-BHC	µg/l	0.03	NONE	< 0.03
Dichlorvos	µg/l	0.03	NONE	< 0.03
Dieldrin	µg/l	0.03	NONE	< 0.03
Diazinon	µg/l	0.03	NONE	< 0.03
Endrin	µg/l	0.03	NONE	< 0.03
Ethion	µg/l	0.03	NONE	< 0.03
Fenitrothion	µg/l	0.03	NONE	< 0.03

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350269
Sample Reference				HP02
Sample Number				None Supplied
Depth (m)				0.80
Date Sampled				14/10/2024
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	Units	Test Limit of detection	Test Accreditation Status	
Gamma-BHC (Lindane, gamma HCH)	µg/l	0.03	NONE	< 0.03
Heptachlor	µg/l	0.03	NONE	< 0.03
Malathion	µg/l	0.03	NONE	< 0.03
Mevinphos , E+Z	µg/l	0.03	NONE	< 0.03
Pentachlorobenzene	µg/l	0.03	NONE	< 0.03
Pendimethalin	µg/l	0.03	NONE	< 0.03
Pirimiphos-methyl	µg/l	0.03	NONE	< 0.03
P,p'-DDT	µg/l	0.03	NONE	< 0.03
Propyzamide	µg/l	0.03	NONE	< 0.03
Trifluralin	µg/l	0.03	NONE	< 0.03
Cis-Chlordane	µg/l	0.03	NONE	< 0.03
Trans-Chlordane	µg/l	0.03	NONE	< 0.03
Cis-Permethrin	µg/l	0.1	NONE	< 0.10
Deltramethrin	µg/l	0.1	NONE	< 0.1
Trans-Permethrin	µg/l	0.1	NONE	< 0.10
Cypermethrin	µg/l	0.1	NONE	< 0.10
Cyfluthrin	µg/l	0.1	NONE	< 0.10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Analytical Report Number: 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Lab Sample Number				350266	350267	350271
Sample Reference				HP01	HP02	HP04
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.35	0.20	0.60
Date Sampled				14/10/2024	14/10/2024	14/10/2024
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status			
10:1 WAC Leachate						
Arsenic	mg/l	0.001	ISO 17025	0.0224	0.00323	0.00898
Barium	mg/l	0.00005	ISO 17025	0.0189	0.0312	0.00993
Cadmium	mg/l	0.0001	ISO 17025	< 0.000100	< 0.000100	< 0.000100
Chromium	mg/l	0.0004	ISO 17025	0.0021	0.0029	0.0048
Copper	mg/l	0.0007	ISO 17025	0.021	0.013	0.035
Mercury	mg/l	0.0005	ISO 17025	< 0.000500	< 0.000500	< 0.000500
Molybdenum	mg/l	0.0004	ISO 17025	0.006	0.00306	0.00852
Nickel	mg/l	0.0003	ISO 17025	< 0.00030	< 0.00030	0.0049
Lead	mg/l	0.001	ISO 17025	0.0083	< 0.0010	0.0018
Antimony	mg/l	0.0017	ISO 17025	0.0053	< 0.0017	< 0.0017
Selenium	mg/l	0.004	ISO 17025	< 0.0040	< 0.0040	< 0.0040
Zinc	mg/l	0.0004	ISO 17025	0.0038	0.0059	0.0096
Chloride	mg/l	0.15	ISO 17025	16	5.3	9.9
Fluoride	mg/l	0.05	ISO 17025	0.39	0.39	0.3
Sulphate	mg/l	0.045	ISO 17025	72	48	19
Total dissolved solids	mg/l	6	ISO 17025	100	190	160
Total monohydric phenols	mg/l	0.01	ISO 17025	< 0.010	< 0.010	< 0.010
Dissolved organic carbon	mg/l	0.1	NONE	19.1	7.32	16.7
10:1 WAC Leachate						
Arsenic	mg/kg	0.01	NONE	0.224	0.0323	0.0898
Barium	mg/kg	0.0005	NONE	0.189	0.312	0.0993
Cadmium	mg/kg	0.001	NONE	< 0.00100	< 0.00100	< 0.00100
Chromium	mg/kg	0.004	NONE	0.021	0.029	0.048
Copper	mg/kg	0.007	NONE	0.21	0.13	0.35
Mercury	mg/kg	0.005	NONE	< 0.00500	< 0.00500	< 0.00500
Molybdenum	mg/kg	0.004	NONE	0.06	0.0306	0.0852
Nickel	mg/kg	0.003	NONE	< 0.0030	< 0.0030	0.049
Lead	mg/kg	0.01	NONE	0.083	< 0.010	0.018
Antimony	mg/kg	0.017	NONE	0.053	< 0.017	< 0.017
Selenium	mg/kg	0.04	NONE	< 0.040	< 0.040	< 0.040
Zinc	mg/kg	0.004	NONE	0.038	0.059	0.096
Chloride	mg/kg	1.5	NONE	160	53	99
Fluoride	mg/kg	0.5	NONE	3.9	3.9	3
Sulphate	mg/kg	0.45	NONE	720	480	190
Total dissolved solids	mg/kg	60	ISO 17025	1000	1900	1600
Total monohydric phenols	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10
Dissolved organic carbon	mg/kg	1	NONE	191	73.2	167

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Analytical Report Number : 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
350266	HP01	None Supplied	0.35	Brown loam and clay with gravel and stones
350267	HP02	None Supplied	0.2	Brown sand with gravel and stones
350268	HP02	None Supplied	0.4	Brown loam and clay with gravel and stones
350270	HP03	None Supplied	0.25	Non Soil. *g
350271	HP04	None Supplied	0.6	Brown loam and clay with gravel
350272	HP04	None Supplied	0.75	Brown loam with gravel and stones
350273	HP05	None Supplied	0.3	Brown loam with gravel

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Analytical Report Number : 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited matrices: SW, PW, GW, except B - SW,GW, Hg - SW,PW, Al - SW,PW	In-house method based on USEPA Method 6020 & 200.8 for the determination of trace elements in water by ICP-MS	L012B	W	ISO 17025
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate	In-house method	L023B	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination	L033B	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR Analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025

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Analytical Report Number : 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sample Preparation		In-house method	L043B	W	NONE
Pyrethroids by GC-MS	Determination of Pyrethroids in water by GC MS/MS	In-house method	PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS
Pesticides by GC-MS/MS	Detemination of pesticides in water by GC-MS/MS	In-house method	L112B	W	NONE
Acid Herbicides by LC-MS	Detemination of Acid Herbicides in soil by LC -MS	In-house method	PL	W	NONE
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Total Petroleum Hydrocarbons with carbon banding in water by GC-MS	Determination of total petroleum hydrocarbons in water by GC-MS with carbon banding aliphatic and aromatic	In-house method	L070B	W	NONE
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
BTEX and/or Volatile Organic Compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW, PW, GW	In-house method based on USEPA 8260	L073B	W	ISO 17025
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088-PL	D/W	NONE
Hexavalent chromium in soil (low level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	NONE
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5-diphenylcarbazide, followed by colorimetry. Accredited matrices: SW, PW, GW, FSE, LL	In-house method by continuous flow analyser	L080-PL	W	ISO 17025
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

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Analytical Report Number : 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Alkalinity of water (discrete analyser)	Determination of alkalinity of water by colorimetry using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on MEWAM & USEPA Method 310.2	L082B	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
Ammonia as NH3 in water	Determination of ammonium/ammonia/ammoniacal nitrogen by the colorimetric salicylate/nitroprusside method using discrete analyser. Accredited matrices: SW, PW, GW, FSE, LL	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082B	W	ISO 17025
Total Petroleum Hydrocarbons in water by HS-GC-MS	Determination of total petroleum hydrocarbons in water by headspace GC-MS. Accredited matrices: SW, PW, GW	In-house method	L088-PL	W	ISO 17025
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
pH of water at 20°C (automated)	Determination of pH of water by electrochemical measurement. Accredited matrices: SW, PW, GW, FSE, LL	In-house method	L099-PL	W	ISO 17025
Speciated PAHs and/or Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds (including PAHs) in water by extraction in dichloromethane followed by GC-MS. Accredited matrices (PAHs): SW, PW, GW	In-house method based on USEPA 8270	L102B	W	ISO 17025
Acid Herbicides by LC-MS/MS	Determination of acid herbicides in water by LC-MS/MS	In-house method	L114B	W	NONE

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Analytical Report Number : 24-048083
Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate	In-house method	L009B	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

$ - Concentration has been determined by extrapolated calibration as analyte concentration is above the concentration range for the procedure after dilution. The result should be considered as deviating and should be interpreted with caution. The result is not accredited.

$$ - Result was reported from high dilution. The result should be interpreted with caution.

*g - Unaccredited sample matrix.

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Sample Deviation Report

Analytical Report Number : 24-048083

Project / Site name: Billhook Farm, West Chiltington Lane, RH14 9DN

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
HP01	N/A	S	350266	b	Acid Herbicides by LC-MS	PL	b
HP03	N/A	S	350270	b	Acid Herbicides by LC-MS	PL	b

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The results included within the report relate only to the sample(s) submitted for testing.

APPENDIX E

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
360240877_1_1

Customer Reference:
LS7994

National Grid Reference:
511240, 125350

Slice:
A

Site Area (Ha):
0.27

Search Buffer (m):
1000

Site Details:

Billhook Farm
West Chiltington Lane
CONEYHURST
RH14 9DN

Client Details:

Mr E Toms
Land Science Ltd
Unit 10
19 Albert Drive
Burgess Hill
West Sussex
RH15 9TN

Contents

Report Section	Page Number
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Geological	15
Industrial Land Use	22
Sensitive Land Use	25
Data Currency	26
Data Suppliers	32
Useful Contacts	33

Introduction

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

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Report Version v53.0

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2	5	11
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 5				1
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5		Yes		
Pollution Incidents to Controlled Waters	pg 5				1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 5				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 6				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 6	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 6	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				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 7		5	4	51

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 14	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 14				1
Potentially Infilled Land (Water)					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 15	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 15	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 20				1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 20	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 20	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 21	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 22			3	8
Fuel Station Entries					
Points of Interest - Commercial Services	pg 23			1	7
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 23			1	2
Points of Interest - Public Infrastructure	pg 24				5
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 25			2	11
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					
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
1	**Discharge Consents** Operator: Lynval Contractors Ltd Property Type: Undefined Or Other Location: Valelands Farm, Coneyhurst, Billingshurst, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P03025 Permit Version: 1 Effective Date: 15th November 1990 Issued Date: 15th November 1990 Revocation Date: 31st March 1997 Discharge Type: Non Water Company (Private) Sewage Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A13SW (S)	138	2	511200 125200
2	**Discharge Consents** Operator: Peter John Hooper Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: North End Barn, Palmers Cottage, West Chiltington Lane, Coneyhurst, Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09699 Permit Version: 1 Effective Date: 5th April 2001 Issued Date: 5th April 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13NW (W)	153	2	511060 125400
3	**Discharge Consents** Operator: [redacted] Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: The Nurseries, West Chiltington Lane, Billingshurst, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P10060 Permit Version: 1 Effective Date: 8th November 2001 Issued Date: 8th November 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A18SW (N)	322	2	511170 125700
4	**Discharge Consents** Operator: [redacted] Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Valelands, West Chiltington Lane, Billingshurst, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P10872 Permit Version: 1 Effective Date: 15th November 2002 Issued Date: 15th November 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A8NW (S)	324	2	511190 125010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: [redacted] Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Duncans Stp, West Chiltington Lane, Coneyhurst, West Sussex, Rh14 9dp Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: Eprub3096aa Permit Version: 1 Effective Date: 30th March 2021 Issued Date: 30th March 2021 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Adur West **Status: New issued under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	424	2	511473 125731
6	**Discharge Consents** Operator: [redacted] Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Kynance Farm, West Chiltington Lane, Billingshurst, West Sussex, Rh14 9dp Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: Npswqd009232 Permit Version: 1 Effective Date: 23rd September 2009 Issued Date: 23rd September 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Ditch Ldng To River Adur **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A18SW (N)	452	2	511133 125826
7	**Discharge Consents** Operator: [redacted] Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Meadowvale Farm, Coneyhurst Meadowvale Farm, West Chiltington Lane, Coneyhurst, Billingshurst, West Sussex, Rh14 9dn Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: P12079 Permit Version: 1 Effective Date: 4th May 2004 Issued Date: 4th May 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Ditch To Unnamed Trib. R.Adur **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8NW (S)	482	2	511070 124880
8	**Discharge Consents** Operator: [redacted] Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Barclays Bungalow, West Chiltington Lane,Coneyhurst, Billingshurst, West Sussex, Rh14 9dn Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: P10059 Permit Version: 1 Effective Date: 16th January 2002 Issued Date: 16th January 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	606	2	510710 125000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Discharge Consents** Operator: [redacted] Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Orchard Farm, Emms Lane, Brooks Green, Horsham, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P00089 Permit Version: 1 Effective Date: 4th July 1985 Issued Date: 4th July 1985 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	633	2	511820 125000
9	**Discharge Consents** Operator: [redacted] Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Orchard Farm, Emms Lane, Brooks Green, Horsham, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P00089 Permit Version: 1 Effective Date: 4th July 1985 Issued Date: 4th July 1985 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 10m	A9NW (SE)	633	2	511820 125000
9	**Discharge Consents** Operator: [redacted] Property Type: Not Given Location: Emms Lane, Brooks Green, HORSHAM, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P89/S/85 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 4th July 1985 Revocation Date: Not Supplied Discharge Type: Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Not Supplied **Status:** **Not Supplied** Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	638	2	511826 125001
9	**Discharge Consents** Operator: [redacted] Property Type: Not Given Location: Emms Lane, Brooks Green, HORSHAM , West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P89/S/85 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 4th July 1985 Revocation Date: Not Supplied Discharge Type: Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Not Supplied **Status:** **Not Supplied** Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	640	2	511826 124996

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: [redacted] Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Oakleigh, West Chiltington Lane, Coneyhurst, West Sussex, Rh14 9dn Authority: Environment Agency, Southern Region Catchment Area: Adur Reference: Npswqd002404 Permit Version: 1 Effective Date: 23rd June 2008 Issued Date: 23rd June 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Ditch Leading To River Adur **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A18NE (N)	678	2	511246 126058
11	**Discharge Consents** Operator: [redacted] Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Lower Eastlands Farm, New Road, Billingshurst, West Sussex, Rh14 9ds Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P06414 Permit Version: 1 Effective Date: 14th October 1996 Issued Date: 14th October 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	750	2	510820 126020
12	**Discharge Consents** Operator: Longdene Developments Ltd Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Emmetts Farm, West Chiltington Lane, Coneyhurst, Billingshurst, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09784 Permit Version: 1 Effective Date: 10th August 2001 Issued Date: 10th August 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	875	2	511910 124720
13	**Discharge Consents** Operator: Longdene Developments Ltd Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Emmetts Farm, West Chiltington Lane, Coneyhurst, Billingshurst, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09785 Permit Version: 1 Effective Date: 10th August 2001 Issued Date: 10th August 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	884	2	511860 124660

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Discharge Consents** Operator: [redacted] Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Brook Cottage, Kettlesbridge, Coneyhurst, Nr. Billingshurst, Sussex Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: S02664 Permit Version: 1 Effective Date: 4th August 1971 Issued Date: 4th August 1971 Revocation Date: 28th February 1997 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	884	2	510840 124540
15	**Discharge Consents** Operator: [redacted] Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Land At Rowfold Farm, Billingshurst, West Sussex Authority: Environment Agency, Southern Region Catchment Area: Ouse Reference: P00351 Permit Version: 1 Effective Date: 12th May 1986 Issued Date: 12th May 1986 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater Stream Or River **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Manually corrected supplier location	A12SW (W)	938	2	510270 125280
16	**Integrated Pollution Prevention And Control** Name: Kinswood Eggs Limited Location: Orchard Farm - Epr/Sp3533un, Kinswood Eggs Limited,Orchard Farm - Epr/Sp3533un, Emms Lane, Brooks Green, Hampshire, RH13 0TR Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: SP3533UN Original Permit Ref: Sp3533un Effective Date: 8th January 2021 **Status:** **Effective** Application Type: Variation (Normal) App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 6.9 A(1) (A) (I) Activity Description: Intensive Farming; Greater Than 40,000 Poultry Primary Activity: Y	A14SE (E)	760	2	512007 125116
	Nearest Surface Water Feature	A13SE (SE)	20	-	511272 125301
17	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: Front Of Faythorpe, Barns Green, Billingshurst Road Authority: Environment Agency, Southern Region Pollutant: Oils - Diesel (Including Agricultural) Note: Smell Of Petrol Scum On Pond; Miscellaneous Premises: Unknown Incident Date: 28th December 1994 Incident Reference: 1158 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	A19NW (N)	995	2	511600 126300
	River Quality Name: Parsons Bk GQA Grade: River Quality F Reach: Adur West Conf - Barns Green Estimated Distance (km): 2.7 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A14SW (E)	606	2	511858 125153

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Sumners Ponds Limited Licence Number: So/041/0023/005 Permit Version: 1 Location: Borehole At Barns Green, Horsham Authority: Environment Agency, Southern Region Abstraction: Household Private Water Undertaking: Drinking; Cooking; Sanitary; Washing; (Small Garden) 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 April Authorised End: 31 March Permit Start Date: 14th June 2024 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NE (NE)	1719	2	512140 126841
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SW (SW)	0	3	511243 125351
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (NW)	0	3	511225 125364
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (SW)	0	3	511243 125351
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NW (NW)	0	3	511225 125364
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	39	4	511286 125285
19	**OS Water Network Lines** Watercourse Form: Marsh Watercourse Length: 163.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	150	4	511394 125232
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NW (NW)	157	4	511063 125428
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NW (W)	188	4	511033 125434
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 93.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13NW (W)	191	4	511030 125434
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A13SE (SE)	299	4	511448 125078
24	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8NE (SE)	444	4	511569 124990
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 252.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A8NE (SE)	449	4	511579 124992
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	496	4	510849 125005

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	532	4	510802 125002
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	555	4	510772 125003
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 957.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A12SE (W)	581	4	510624 125347
30	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 295.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A14SW (E)	620	4	511898 125281
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.1 Watercourse Level: Underground Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A14SW (SE)	627	4	511857 125089
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 133.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A14SW (SE)	628	4	511853 125077
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	649	4	510564 125247
34	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 15.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	654	4	511830 124977
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	657	4	510655 124990

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: Underground Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	659	4	511941 125363
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	661	4	510652 124989
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	665	4	511835 124963
39	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 26.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	665	4	511947 125368
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 160.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A9NW (SE)	678	4	511843 124952
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	688	4	511969 125383
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 266.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A12SE (SW)	690	4	510592 125033
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	701	4	510516 125220
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 267.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	708	4	511987 125413

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 375.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A14NE (E)	708	4	511987 125413
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: Underground Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	715	4	510516 125156
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1037.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A7NE (SW)	716	4	510589 124985
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1072.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A8SW (S)	780	4	511133 124557
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 831.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A17NE (NW)	814	4	510816 126091
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A9NE (SE)	815	4	511946 124859
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 515.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A9NE (SE)	815	4	511946 124859
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (NE)	830	4	511685 126078
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A8SW (S)	833	4	510954 124549

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 59.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	835	4	512024 125737
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (NE)	837	4	511698 126078
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 188.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19NW (NE)	839	4	511701 126078
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	855	4	511919 125923
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	857	4	511925 125919
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	857	4	511927 125917
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 200.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	858	4	511963 125875
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: Underground Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A9NE (SE)	860	4	511945 124783
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 391.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A9NE (SE)	862	4	511944 124779

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	863	4	511954 125893
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SW (NE)	871	4	511863 126002
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	889	4	510499 125911
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 607.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Adur Catchment Name: Adur and Teville Primacy: 1	A17SW (NW)	889	4	510499 125911
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	891	4	512078 125754
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	891	4	512078 125754
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	894	4	512082 125752
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	896	4	512085 125750
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	896	4	512101 125714

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 389.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Parson's Brook Catchment Name: Adur and Teville Primacy: 1	A19SE (NE)	897	4	512103 125713
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	941	4	510264 125329
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	944	4	510261 125331
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 239.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	947	4	510258 125333
76	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 5.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A12SW (W)	973	4	510234 125293
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 162.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Adur and Teville Primacy: 1	A11SE (W)	986	4	510221 125286

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Horsham District Council - Has supplied landfill data		0	5	511243 125351
	Local Authority Landfill Coverage Name: West Sussex County Council - Has supplied landfill data		0	6	511243 125351
78	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A18NE (N)	874	-	511502 126206

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Wealden Group	A13SW (SW)	0	1	511243 125351
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	0	1	511243 125351
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NW (NW)	0	1	511225 125364
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	78	1	511175 125449
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	154	1	511160 125195
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (N)	158	1	511279 125526
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	205	1	511000 125351

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (SW)	301	1	511051 125089
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	351	1	511053 125030
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (SW)	450	1	511000 124946
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	527	1	511060 124836
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SW (E)	639	1	511901 125190
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	642	1	511124 124699

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	652	1	511867 125048
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NW (S)	661	1	510993 124718
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	661	1	511000 124715
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	673	1	511311 124651
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A9NW (SE)	675	1	511871 125005
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NE (E)	720	1	512000 125402

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	726	1	510575 124990
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	728	1	511000 124644
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SW (W)	782	1	510481 125055
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NW (SW)	794	1	510537 124921
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	799	1	510597 124832
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	801	1	510566 124867

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	841	1	511554 124529
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	866	1	511000 124500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	904	1	510882 124500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (W)	910	1	510365 125000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17SW (NW)	935	1	510379 125802
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NE (SE)	941	1	511970 124688

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A17SW (NW)	943	1	510502 126000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	966	1	510741 124500
79	**BGS Recorded Mineral Sites** Site Name: Duncan'S Copse Clay Pit Location: Barns Green, Horsham, West Sussex Source: British Geological Survey, National Geoscience Information Service Reference: 152135 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Weald Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18NE (N)	878	1	511500 126211
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	511243 125351
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	511243 125351
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	511243 125351
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	511243 125351
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	511243 125351
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	66	1	511269 125257
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	103	1	511102 125340
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	511243 125351

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	511225 125364
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	511243 125351
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	78	1	511175 125449
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	154	1	511160 125195
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	158	1	511279 125526
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	511243 125351
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	511243 125351

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	**Contemporary Trade Directory Entries** Name: Jameson Joinery Location: Hook Farm, West Chiltington Lane, Billingshurst, West Sussex, RH14 9DP Classification: Joinery Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	337	-	511530 125580
81	**Contemporary Trade Directory Entries** Name: A G Bray Location: West Chiltington La, Coneyhurst, Billingshurst, West Sussex, RH14 9DN Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A8NW (SW)	472	-	510994 124924
81	**Contemporary Trade Directory Entries** Name: Laurence Nicholas Location: West Chiltington La, Coneyhurst, Billingshurst, West Sussex, RH14 9DN Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A8NW (SW)	487	-	510992 124908
81	**Contemporary Trade Directory Entries** Name: I H Auto Repairs Location: West Chiltington La, Coneyhurst, Billingshurst, West Sussex, RH14 9DN Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A8NW (SW)	503	-	510989 124892
82	**Contemporary Trade Directory Entries** Name: Kar-Aid Location: Barclays Bungalow, West Chiltington Lane, Coneyhurst, BILLINGSHURST, West Sussex, RH14 9DN Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	581	-	510791 124943
82	**Contemporary Trade Directory Entries** Name: Ellis Cleaning Services Location: West Chiltington Lane, Coneyhurst, Billingshurst, West Sussex, RH14 9DN Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	581	-	510791 124943
83	**Contemporary Trade Directory Entries** Name: Kingswood Motors Location: West Chiltington La, Coneyhurst, Billingshurst, West Sussex, RH14 9DN Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7SE (SW)	806	-	510828 124634
84	**Contemporary Trade Directory Entries** Name: J Developments Location: Unit 1, Oakhurst Centre, West Chiltington Lane, Coneyhurst, RH14 9DN Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	966	-	510608 124591
85	**Contemporary Trade Directory Entries** Name: E-Works Location: West Chiltington Lane, Coneyhurst, Billingshurst, West Sussex, RH14 9DN Classification: Electronic Equipment - Manufacturers & Assemblers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	967	-	510733 124503
85	**Contemporary Trade Directory Entries** Name: Barclays Farm Estate Location: West Chiltington Lane, Coneyhurst, Billingshurst, West Sussex, RH14 9DN Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	967	-	510733 124503
85	**Contemporary Trade Directory Entries** Name: D S B Location: West Chiltington Lane, Coneyhurst, Billingshurst, West Sussex, RH14 9DN Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SW)	967	-	510733 124503

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	**Points of Interest - Commercial Services** Name: Kingswood Motors Location: Meadowvale Farm, West Chiltington Lane, Coneyhurst, Billingshurst, RH14 9DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (SW)	372	7	511037 125015
87	**Points of Interest - Commercial Services** Name: Kar-Aid Location: Barclays Bungalow, West Chiltington Lane, Coneyhurst, Billingshurst, RH14 9DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	581	7	510791 124943
87	**Points of Interest - Commercial Services** Name: Kar-aid Location: West Chiltington Lane, Coneyhurst, Billingshurst, RH14 9DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	581	7	510791 124943
88	**Points of Interest - Commercial Services** Name: Laurence Nicholas Location: Kettlesbridge Cottage, West Chiltington Lane, Coneyhurst, Billingshurst, RH14 9DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SE (SW)	805	7	510841 124628
88	**Points of Interest - Commercial Services** Name: A G Bray Location: Kettlesbridge Cottage, West Chiltington Lane, Coneyhurst, Billingshurst, RH14 9DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SE (SW)	805	7	510841 124628
89	**Points of Interest - Commercial Services** Name: J Developments Location: Unit 1 Oakhurst Centre, West Chiltington Lane, Coneyhurst, RH14 9DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SE (SW)	966	7	510608 124591
90	**Points of Interest - Commercial Services** Name: Barclays Farm Estate Location: West Chiltington Lane, Coneyhurst, Billingshurst, RH14 9DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SE (SW)	967	7	510733 124503
90	**Points of Interest - Commercial Services** Name: D S B Mechanical Services Ltd Location: West Chiltington Lane, Coneyhurst, Billingshurst, RH14 9DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SE (SW)	967	7	510733 124503
91	**Points of Interest - Manufacturing and Production** Name: Ryan Champion Ltd Location: Meadow Vale Farm, West Chiltington Lane, Coneyhurst, RH14 9DN Category: Farming Class Code: Poultry Farming, Equipment and Supplies Positional Accuracy: Positioned to address or location	A13SW (SW)	352	7	511078 125016
92	**Points of Interest - Manufacturing and Production** Name: Solar Panels Location: RH14 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	889	7	511159 126268
93	**Points of Interest - Manufacturing and Production** Name: Wind Turbine Location: RH14 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	979	7	511321 126354

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	**Points of Interest - Public Infrastructure** Name: Weir Location: RH14 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	590	7	511834 125132
94	**Points of Interest - Public Infrastructure** Name: Weir Location: RH14 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	599	7	511843 125133
95	**Points of Interest - Public Infrastructure** Name: Slurry Pit Location: RH14 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	917	7	510291 125280
96	**Points of Interest - Public Infrastructure** Name: Weir Location: RH14 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	936	7	510476 125958
96	**Points of Interest - Public Infrastructure** Name: Weir Location: RH14 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	940	7	510470 125956

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	**Ancient Woodland** Name: Not Supplied Reference: 1478366 Area(m²): 14759.7 Type: Ancient and Semi-Natural Woodland	A13NW (W)	285	8	510933 125434
98	**Ancient Woodland** Name: Not Supplied Reference: 1478430 Area(m²): 24332.72 Type: Ancient and Semi-Natural Woodland	A14NW (E)	397	8	511679 125357
99	**Ancient Woodland** Name: Not Supplied Reference: 1478367 Area(m²): 4019.72 Type: Ancient and Semi-Natural Woodland	A12SE (W)	637	8	510576 125248
100	**Ancient Woodland** Name: Not Supplied Reference: 1478418 Area(m²): 6297.19 Type: Ancient and Semi-Natural Woodland	A19SW (NE)	725	8	511900 125732
101	**Ancient Woodland** Name: Not Supplied Reference: 1478414 Area(m²): 16635.06 Type: Ancient and Semi-Natural Woodland	A18NE (N)	771	8	511370 126136
102	**Ancient Woodland** Name: Not Supplied Reference: 1478416 Area(m²): 24837.25 Type: Ancient and Semi-Natural Woodland	A19SW (NE)	787	8	511700 126019
103	**Ancient Woodland** Name: Not Supplied Reference: 1478352 Area(m²): 3966.94 Type: Ancient and Semi-Natural Woodland	A8SW (S)	790	8	511121 124549
104	**Ancient Woodland** Name: Not Supplied Reference: 1478351 Area(m²): 2302.95 Type: Ancient and Semi-Natural Woodland	A8SW (S)	795	8	510939 124595
105	**Ancient Woodland** Name: Not Supplied Reference: 1478364 Area(m²): 12610.84 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	800	8	510897 126115
106	**Ancient Woodland** Name: Not Supplied Reference: 1478417 Area(m²): 9154.6 Type: Ancient and Semi-Natural Woodland	A19SW (NE)	803	8	511908 125856
107	**Ancient Woodland** Name: Not Supplied Reference: 1478365 Area(m²): 10001.28 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	806	8	510829 126089
108	**Ancient Woodland** Name: Not Supplied Reference: 1478420 Area(m²): 4396.72 Type: Ancient and Semi-Natural Woodland	A14NE (E)	849	8	512102 125570
109	**Ancient Woodland** Name: Not Supplied Reference: 1478419 Area(m²): 3206.49 Type: Ancient and Semi-Natural Woodland	A19SE (NE)	928	8	512134 125721

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Horsham District Council - Environmental Health Department	February 2015	Annual Rolling Update
Environment Agency - Head Office	November 2023	Annually
Chichester District Council - Environmental Health Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Southern Region	July 2024	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Southern Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Southern Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - South East Region - Solent & South Downs Area	July 2024	Quarterly
Environment Agency - Southern Region	July 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Horsham District Council - Environmental Health Department	June 2015	Variable
Chichester District Council - Environmental Health Department	October 2014	Variable
Local Authority Pollution Prevention and Controls		
Horsham District Council - Environmental Health Department	June 2015	Annual Rolling Update
Chichester District Council - Environmental Health Department	October 2014	Not Applicable
Local Authority Pollution Prevention and Control Enforcements		
Horsham District Council - Environmental Health Department	June 2015	Variable
Chichester District Council - Environmental Health Department	October 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	July 2024	
Pollution Incidents to Controlled Waters		
Environment Agency - Southern Region	December 1999	
Prosecutions Relating to Authorised Processes		
Environment Agency - Southern Region	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Southern Region	March 2013	
Registered Radioactive Substances		
Environment Agency - Head Office	May 2023	
Environment Agency - Southern Region	May 2023	
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register		
Environment Agency - South East Region - Solent & South Downs Area	April 2024	Quarterly
Environment Agency - Southern Region - Solent and South Downs	April 2024	Quarterly
Environment Agency - Southern Region - Sussex Area	April 2024	Quarterly
Water Abstractions		
Environment Agency - Southern Region	July 2024	Quarterly
Water Industry Act Referrals		
Environment Agency - Southern Region	October 2017	
Groundwater Vulnerability Map		
Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations		
Environment Agency - Head Office	January 2018	As notified

Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	July 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Environment Agency - Head Office	August 2024	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Southern Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - South East Region - Solent & South Downs Area	August 2024	Quarterly
Environment Agency - Southern Region - Solent and South Downs	August 2024	Quarterly
Environment Agency - Southern Region - Sussex Area	August 2024	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - South East Region - Solent & South Downs Area	July 2024	Quarterly
Environment Agency - Southern Region - Solent and South Downs	July 2024	Quarterly
Environment Agency - Southern Region - Sussex Area	July 2024	Quarterly
Local Authority Landfill Coverage		
Chichester District Council - Environmental Health Department	February 2003	Not Applicable
Horsham District Council - Environmental Health Department	February 2003	Not Applicable
West Sussex County Council - Environment & Development	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Chichester District Council - Environmental Health Department	October 2018	
Horsham District Council - Environmental Health Department	October 2018	
West Sussex County Council - Environment & Development	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency - Southern Region - Solent and South Downs	March 2006	Not Applicable
Environment Agency - Southern Region - Sussex Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Southern Region - Solent and South Downs	April 2018	
Environment Agency - Southern Region - Sussex Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency - Southern Region - Solent and South Downs	June 2015	
Environment Agency - Southern Region - Sussex Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	September 2024	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Chichester District Council - Planning Department	April 2023	Variable
Horsham District Council - Planning Department	July 2023	Variable
West Sussex County Council - Environment & Development	October 2006	Annual Rolling Update
Planning Hazardous Substance Consents		
Horsham District Council - Planning Department	August 2015	Variable
Chichester District 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	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	March 2024	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	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	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Data Currency

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	June 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Gas Pipelines National Grid	October 2021	
Points of Interest - Commercial Services PointX	September 2024	Quarterly
Points of Interest - Education and Health PointX	September 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2024	Quarterly
Points of Interest - Public Infrastructure PointX	September 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	April 2024	Bi-Annually
Areas of Adopted Green Belt		
Chichester District Council	July 2024	Quarterly
Horsham District Council - Planning Department	July 2024	Quarterly
Areas of Unadopted Green Belt		
Chichester District Council	July 2024	Quarterly
Horsham District Council - Planning Department	July 2024	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	May 2024	Bi-Annually
Environmentally Sensitive Areas		
Natural England	August 2023	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Natural England	August 2024	Bi-Annually
Marine Nature Reserves		
Natural England	August 2024	Bi-Annually
National Nature Reserves		
Natural England	August 2024	Bi-Annually
National Parks		
Natural England	September 2024	Bi-Annually
Nitrate Sensitive Areas		
Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	
Environment Agency - Head Office	April 2024	Bi-Annually
Ramsar Sites		
Natural England	August 2024	Bi-Annually
Sites of Special Scientific Interest		
Natural England	April 2024	Bi-Annually
Special Areas of Conservation		
Natural England	April 2024	Bi-Annually
Special Protection Areas		
Natural England	April 2024	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

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

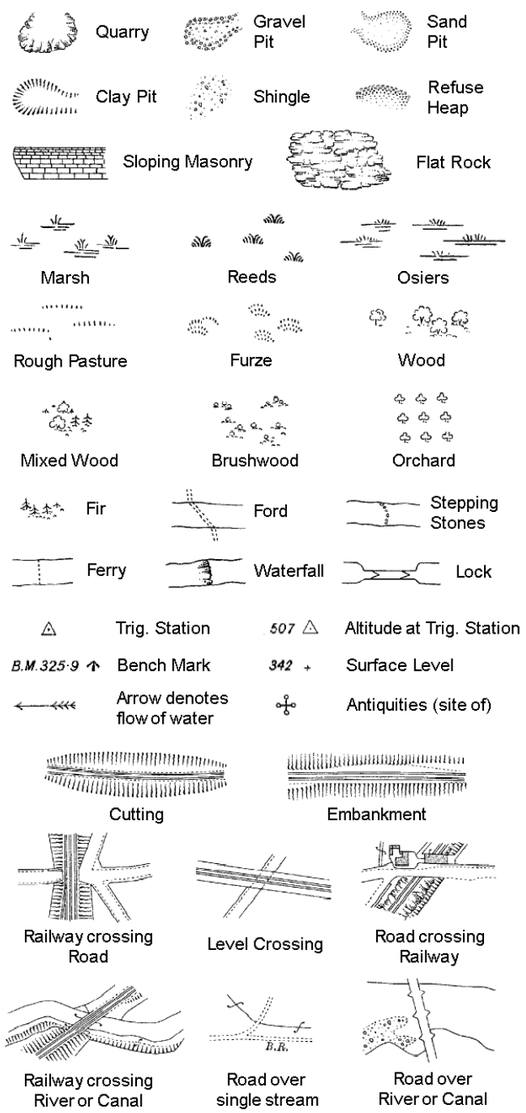
Useful Contacts

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

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

Historical Mapping Legends

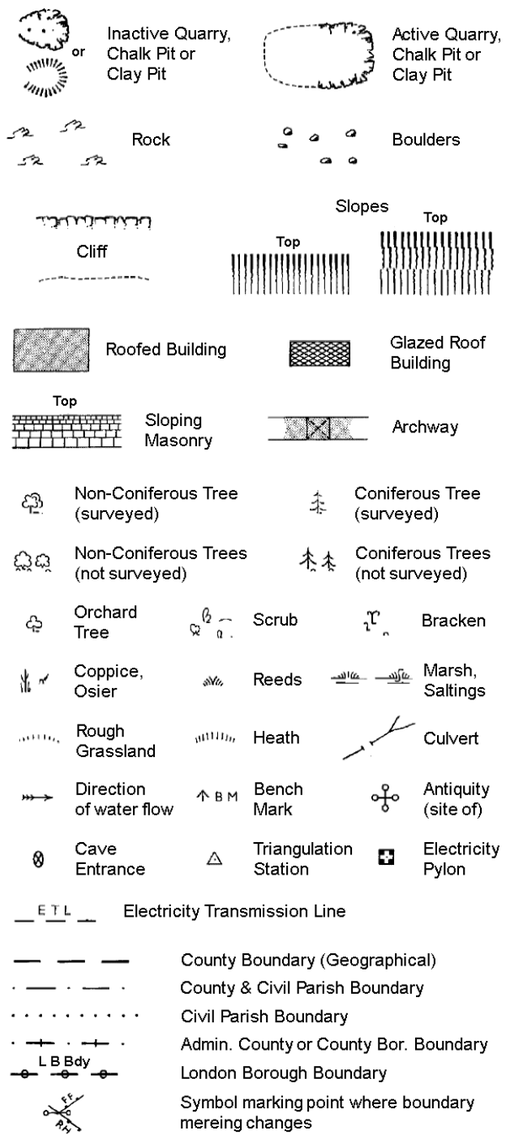
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

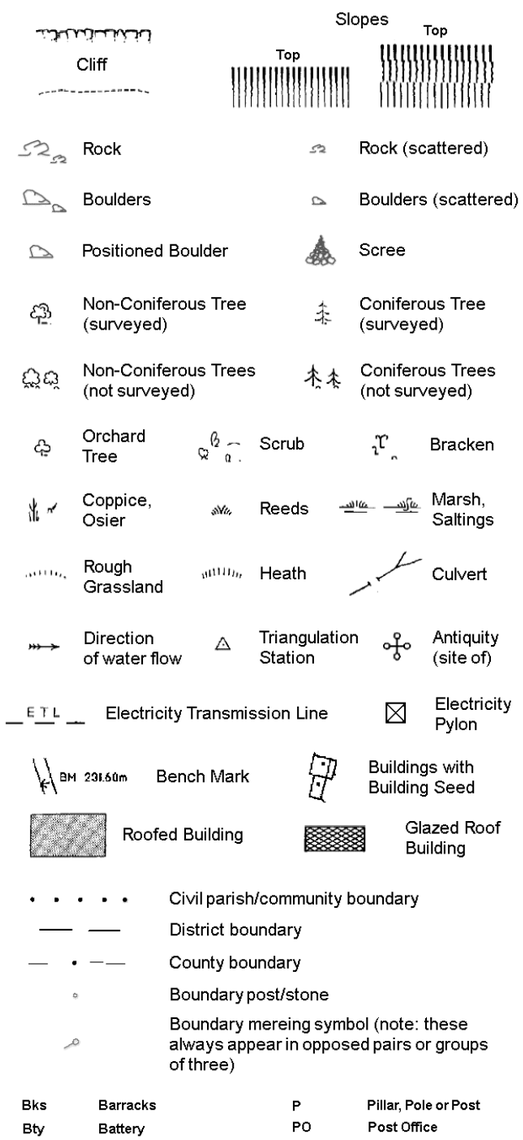
B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



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

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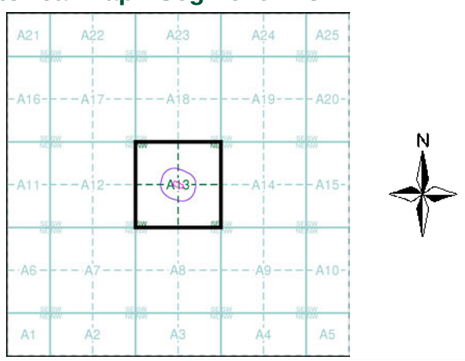
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Sussex	1:2,500	1876	2
Sussex	1:2,500	1897	3
Sussex	1:2,500	1911	4
Ordnance Survey Plan	1:2,500	1976	5
Large-Scale National Grid Data	1:2,500	1993	6
Historical Aerial Photography	1:2,500	1999	7

Historical Map - Segment A13



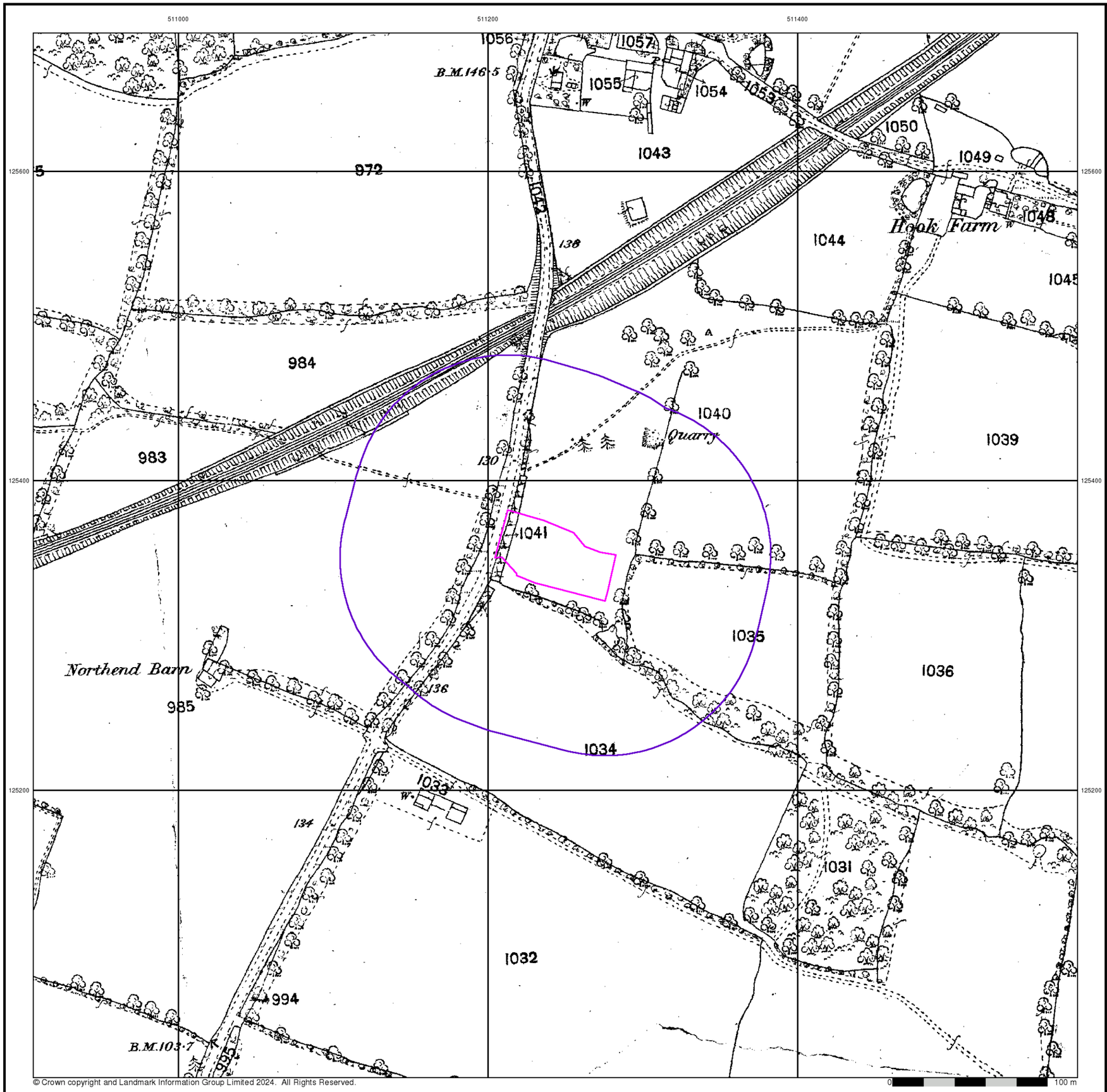
Order Details

Order Number:	360240877_1_1
Customer Ref:	LS7994
National Grid Reference:	511240, 125350
Slice:	A
Site Area (Ha):	0.27
Search Buffer (m):	100

Site Details

Billhook Farm, West Chiltington Lane, CONEYHURST, RH14 9DN

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



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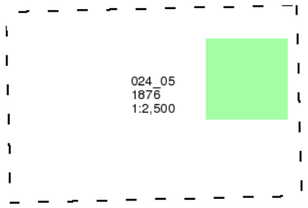
Sussex

Published 1876

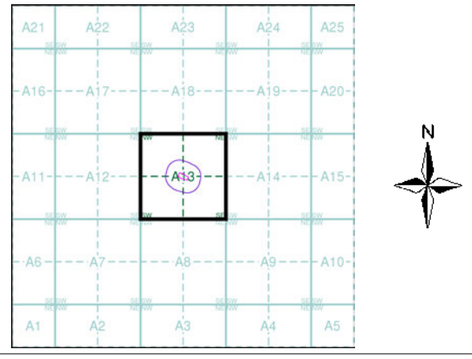
Source map scale - 1:2,500

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 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



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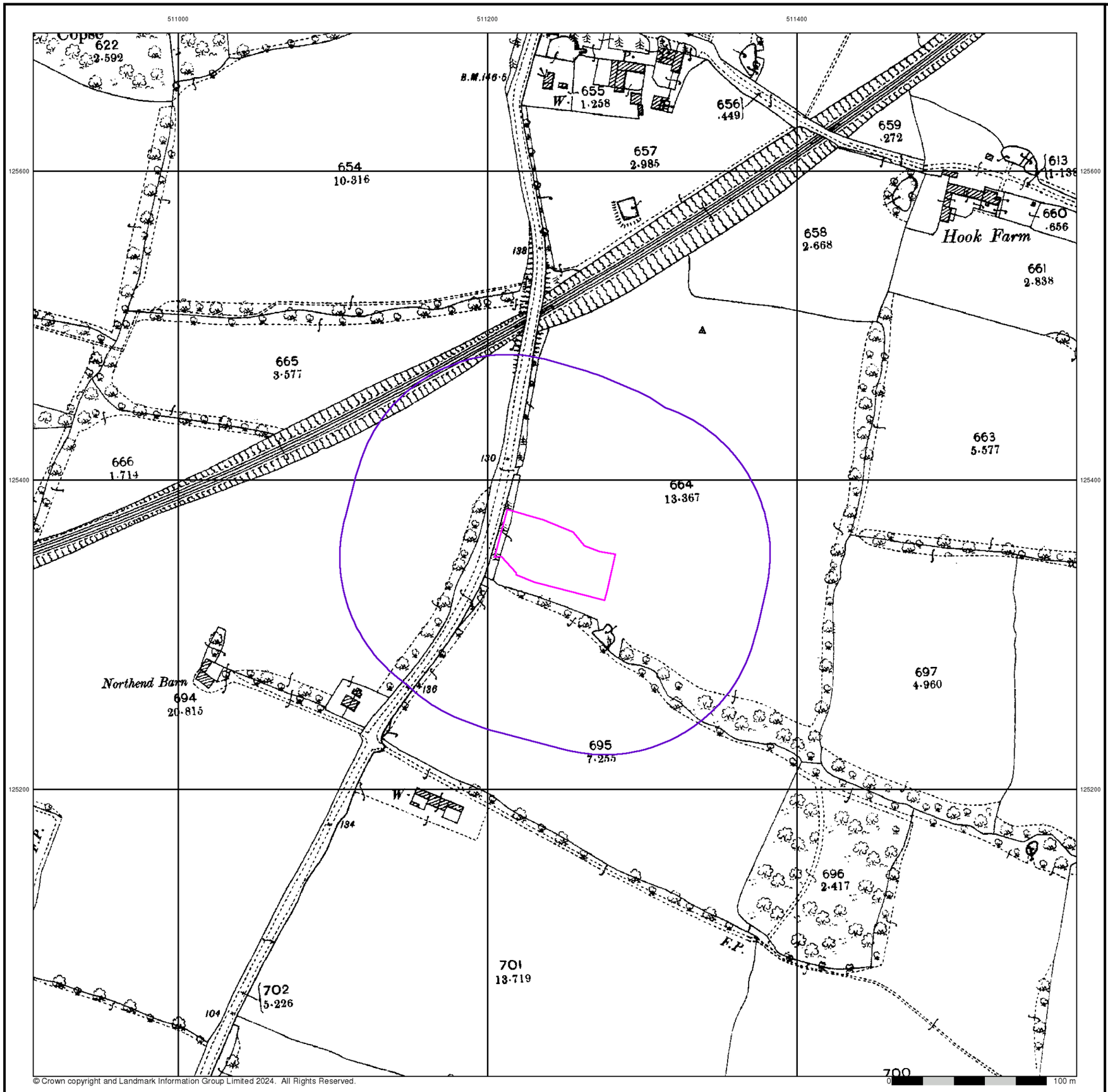

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Sussex

Published 1897

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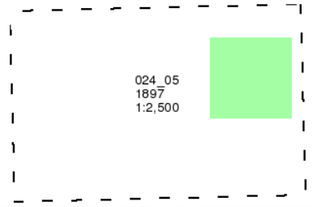
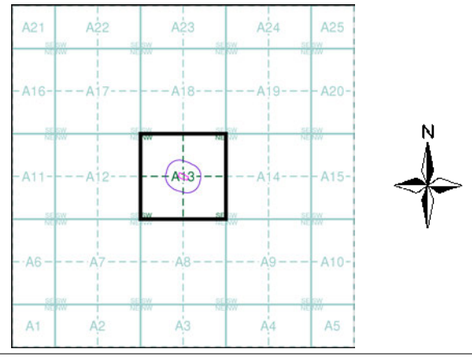


Historical Map - Segment A13



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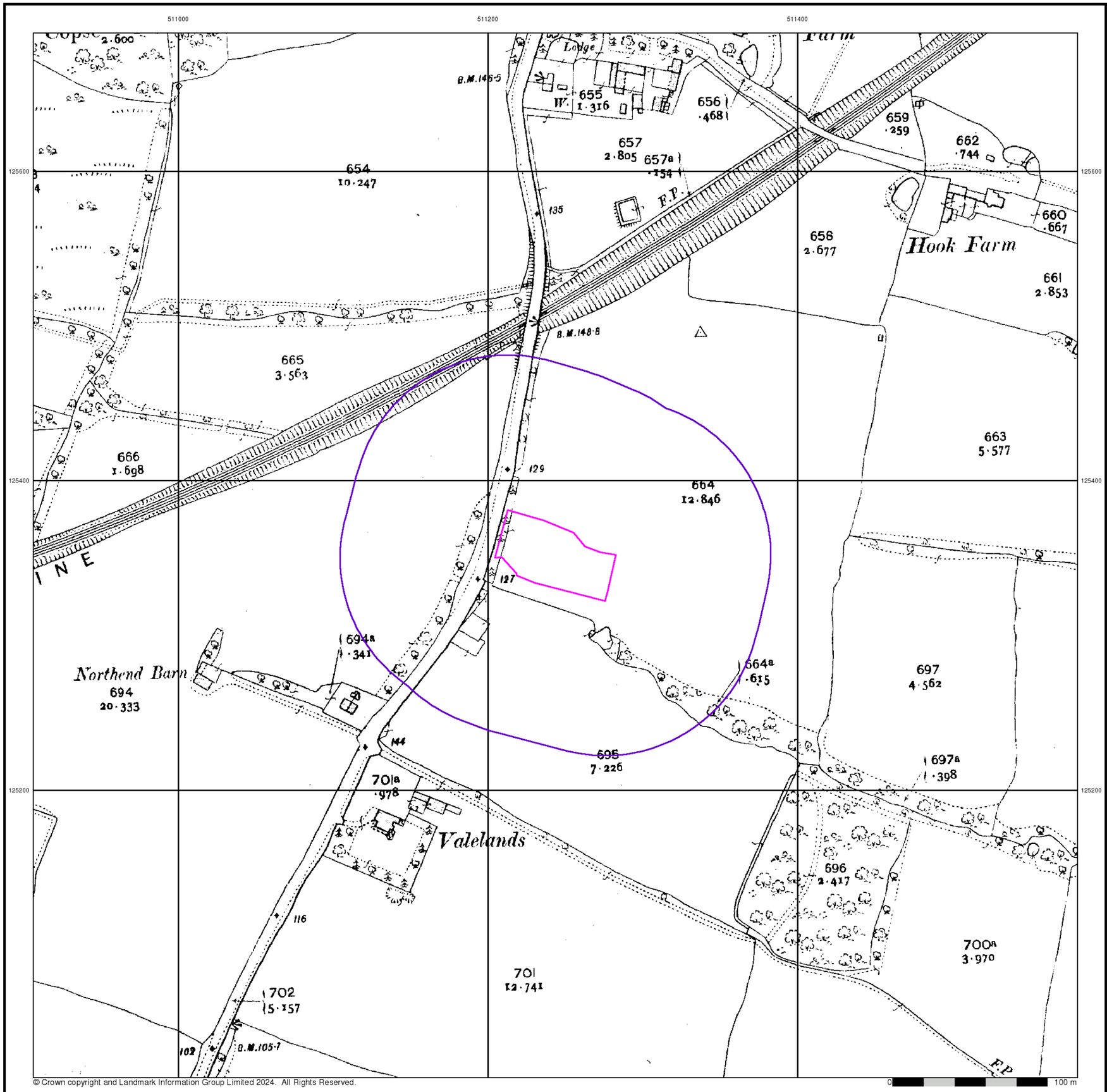

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Sussex

Published 1911

Source map scale - 1:2,500

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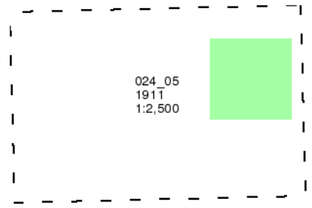
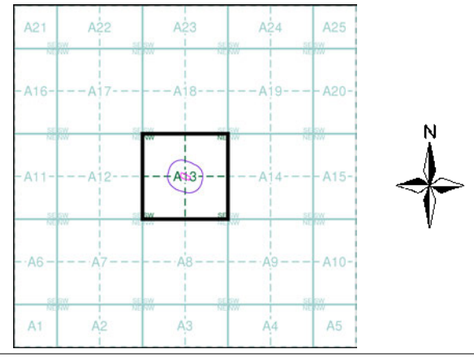


Historical Map - Segment A13



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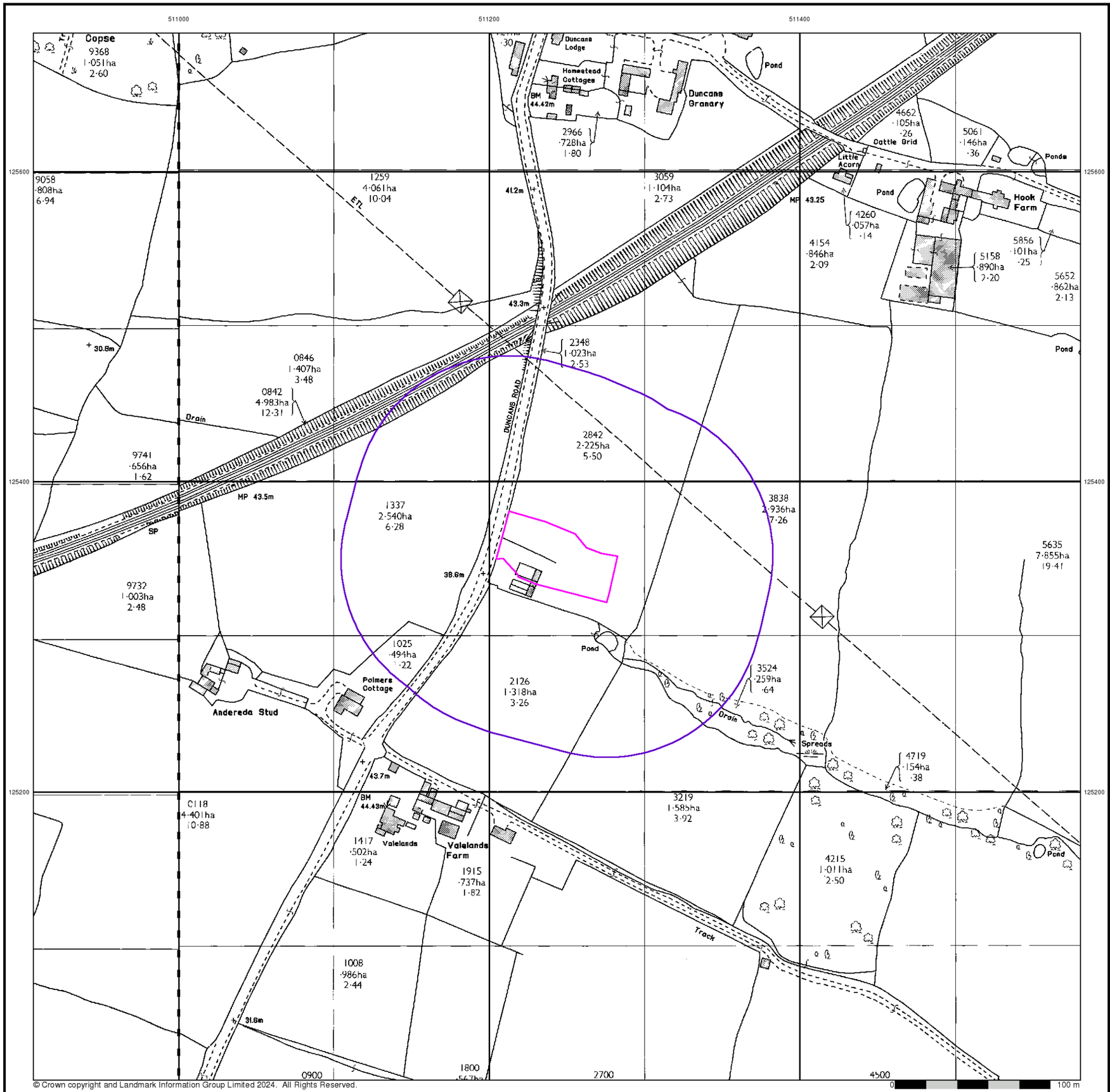

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Ordnance Survey Plan

Published 1976

Source map scale - 1:2,500

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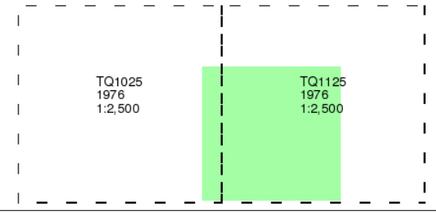
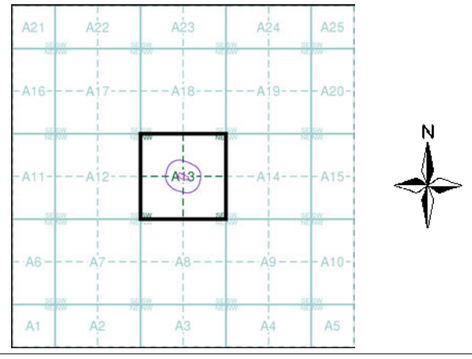


Historical Map - Segment A13



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Site Details

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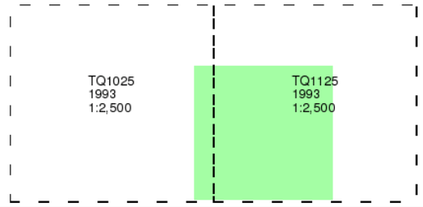
Large-Scale National Grid Data

Published 1993

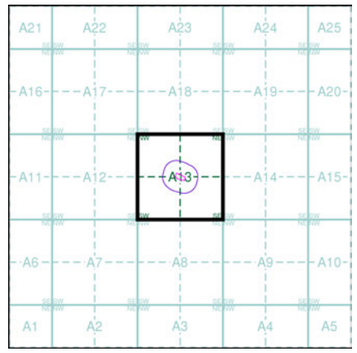
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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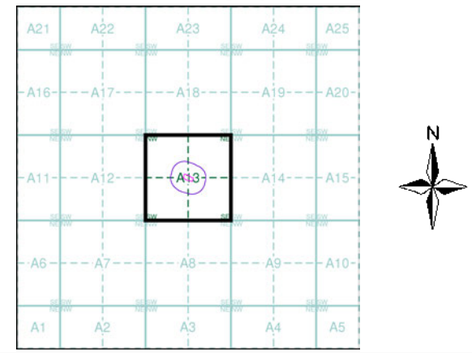
Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



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