

Coley Rise

Refurbishment Phase 2

Site Remediation

Application No. 210549

Report No. 7430-ARC-RP-004 Document Contents:

- Arcus Cover Note
- Geo-Environmental
Ground Appraisal Report

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Application to discharge Planning Conditions 4 & 5

This document seeks to provide evidence necessary to discharge the following pre-commencement conditions:

Condition 4

No development shall commence on site including demolition and any preparatory works until a detailed remediation scheme to bring the site to a condition suitable for the intended use by removing unacceptable risks to human health, buildings and other property and the natural and historical environment has been submitted to and been approved in writing by the Local Planning Authority.

The scheme must include all works to be undertaken, proposed remediation objectives and remediation criteria, an appraisal of remedial options, and proposal of the preferred option(s), and a timetable of works and site management procedures. The scheme must ensure that the site will not qualify as contaminated land under Part 2A of the Environmental Protection Act 1990 in relation to the intended use of the land after remediation.

REASON: These details are required due to insufficient information being contained within this submission and to ensure the development is suitable for its end use and the wider environment and does not create undue risks to occupiers of the site or surrounding areas in accordance with Policy EN16 of the Reading Borough Local Plan 2019.

Condition 5

The approved remediation scheme under Condition 4 shall be implemented in accordance with the approved timetable of works. A validation report (that demonstrates the effectiveness of the remediation carried out) shall be submitted to and approved by the Local Planning Authority before construction above foundation level.

Notes highlighted in red within the body of the document provide commentary regarding ground conditions out-with the phase 2 application boundary. Remediation measures are identified within the phase 1 application and applicable to these conditions.

This document is submitted by Arcus Consulting LLP on behalf of BreyerGroup PLC who are the Principal Contractor undertaking the works on site.



Coley Rise

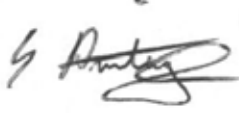
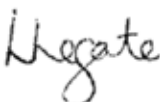
Refurbishment Phase 2

Geo-Environmental
Ground Appraisal Report



GROUND APPRASIAL REPORT
for the land at
WENSLEY ROAD, READING,
BERKSHIRE, RG1 6DR
on behalf of
READING BOROUGH COUNCIL



Report:	GROUND APPRAISAL REPORT
Site:	WENSLEY ROAD, READING, BERKSHIRE, RG1 6DR
Client:	READING BOROUGH COUNCIL
Date:	10/03/2021
Reference:	GE18760-GARv2.0-MAR21
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AMENDMENT RECORD

Revision ref.	Date	Reasons for amendment	Author's initials	Reviewer's initials	Authoriser's initials
1.0	30/03/2020	First issue	TM & SA	LL	GR
2.0	10/03/2021	Updated with gas and groundwater monitoring results to date	SA	LL	GR

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EXECUTIVE SUMMARY		
Site Details	Site Address	Land at Wensley Road, Reading, Berkshire, RG1 6DR
	National Grid Reference	470060, 171950
	Site Area	2.26 Ha (approx.)
	Form of Development	It is understood that the site is proposed to be developed for a residential land use comprising: one row of five terraced, 2.5 storey, 3 bedroom houses; three rows of seven terraced, 2.5 storey, 3 bedroom houses; one 3 storey apartment block, made up of six flats; one 4 storey apartment block, made up of twelve flats; new access roads and parking; and associated development infrastructure.
Encountered Conditions	Scope of works	The investigation included undertaking a desk study, coupled with intrusive investigations and laboratory testing to inform a geotechnical and geo-environmental assessment.
	Ground Conditions	The ground conditions encountered within the exploratory holes comprised Topsoil or Made Ground overlying superficial Lynch Hill Gravel Member (variously clay, sand and gravel) overlying soils of the Lambeth Group (typically sand, occasionally clay). With the exception of a limited thickness of Made Ground identified no visual or olfactory evidence of potential contamination was identified within the exploratory holes.
	Groundwater	Groundwater was not encountered within any of the exploratory hole positions during the intrusive investigation. The eleven monthly monitoring visits to date did not record groundwater within boreholes to a depth of up to 5m bgl.
Geotechnical Considerations	Foundations	Based on the ground and groundwater conditions encountered in the exploratory holes, it is considered that conventional shallow foundations may be suitable for the proposed development, with foundations passing through any Topsoil, Made Ground, disturbed zones (see TP02), soft ground and root zones to terminate within the firm clay of the Lynch Hill Gravel Member or within the sand of the Lambeth Group. Where conventional foundations are proposed, a net allowable bearing capacity of 75kPa is recommended for the firm clay soils encountered, this increasing to 150kPa for the medium dense to dense sand of the Lambeth Group. Total settlement should remain within tolerable limits for the bearing capacity set out above. Wherever possible, foundations should terminate within a single stratum to mitigate the risk of differential settlement. Where foundations span differing strata (i.e. Lynch Hill Gravel and Lambeth Group) reinforcements may be required. On the basis of the results of the Atterberg Limit tests in conjunction with the field observations it is considered that the cohesive elements of the Lynch Hill Gravel Member and Lambeth Group should be classified 'en-masse' as medium volume change potential, as defined by NHBC Standards, Chapter 4.2. Therefore, a minimum founding depth of 0.90m bgl is recommended in cohesive soils. It should be noted that due to the presence of deep root zones recorded in TP01, TP02 and WS05, foundation depths up to 2.20m bgl may be required in these areas of the site. Foundations should also be deepened accordingly where root zones are encountered during construction. No evidence of cavities within the Chalk, or depth to the top of the Chalk has been established. However, it may be necessary to undertake additional investigation within the footprint of proposed new buildings to clarify the depth to, and condition of the Chalk. Thus, it may be prudent to allow for additional probing and deep boreholes, in due course, to support detailed design. Deeper investigation may also be required to support design of deep foundations.

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	Floor Slabs	The investigation has revealed a thickness of Made Ground and/or clay soils at shallow depth, as such it is recommended that suspended floor slabs be utilised at the site.
	Excavations	Excavations within the clay soils and Made Ground at the site are likely to be stable in the short to medium term. Large scale excavations within clay soils and those left unsupported for long time periods are likely to be less stable. Excavations within the sand soils are likely to be unstable even in the short term and, as such, an allowance for trench support or battering back to a safe angle is recommended. The stability of excavations will also be reduced, potentially substantially reduced, where exposed to surface water or groundwater. Under no circumstances should personnel be permitted to enter unsupported excavations during construction or maintenance.
	Pavements	A CBR value of 1.0% is recommended based on in-situ testing and laboratory CBR testing. The shallow cohesive soils and Made Ground should be assumed to be frost susceptible based on their fines content and plasticity testing at these depths. Granular soils should be considered non-frost susceptible.
	Drainage	Soakage testing in general accordance with BRE Digest 365 was undertaken in TP03 and TP208. However, spalling and partial pit collapse resulted in incomplete drainage cycles. Extrapolation of soakage data from TP08 indicated a preliminary infiltration rate of 1.4×10^{-5} m/s. Further testing is recommended utilising gravel filled test pits.
	Buried Concrete	Buried concrete for shallow foundations should be designed to Class DS1 (AC1) across the majority of the site. Buried concrete in the Made Ground recorded in the area of WS01 should be designed in accordance with Class DS-3, AC-2s.
	Human Health	Assessment of the soils has identified the presence of asbestos (chrysotile and amosite loose fibres) within the Made Ground within WS01 . Further investigation and remediation would be required for this area of the site, likely requiring either a reduced dig and/or a clean soil cover system.
Environmental Considerations		Furthermore, Made Ground and visible contaminants should not be present within the shallow soils in garden areas and areas of soft landscaping such that removal of Made Ground or placement of clean soils may be required in other areas of the site.
	Groundwater	It is considered that no risk mitigation measures are required with respect to groundwater.
	Ground Gases	The results of gas monitoring undertaken to date indicate that the site should be classified as Green/CS1 (no gas protection measures required).
	Radon Gas	No radon protection measures are required.
	Built Environment	It is anticipated that specific measures for water supply pipes on this site will not be required where placed within natural soils, should services be placed within the thickness of Made Ground encountered, protection measures may be required in those areas. This should be confirmed by the Local Water Supplier.
	Waste Disposal	The soil analyses from the site were assessed using CatWasteSoil software. All the samples assessed were categorised likely to comprise non-hazardous waste. Asbestos loose fibres were detected in a sample from WS01 at 0.50m bgl at a concentration of <0.001% w/w. Based on this asbestos concentration; these soils would be considered non-hazardous waste. However, there is the potential for further asbestos to be present within the Made Ground soils in this location and potentially elsewhere on the site. Where visible asbestos containing materials or loose fibres at a concentration of 0.1% w/w or more are present, such soils would comprise hazardous waste.

NOT APPLICABLE TO
PHASE 2 WORKS

EXECUTIVE SUMMARY		
		Once soils for disposal have been identified on the site it may be prudent to undertake further asbestos, waste characterisation, and waste acceptance criteria (WAC) testing to enable categorisation of the materials for disposal.
Further Action: • Update of report on completion of the final groundwater visit; • Further investigation of Made Ground in the area of WS01 for asbestos; • Further soakage testing in gravel filled trial pits if required; • Remediation Method Statement developed for site (including an Asbestos Management Plan, if required); • Production of a Materials Management Plan and Qualified Person declaration should the re-use of Made Ground soils be proposed; • If abnormal conditions are encountered, Geotechnical/Geo-Environmental advice should be sought to determine a suitable source of action.		
<i>This Executive Summary is intended to provide a brief summary of the main findings and conclusions of the investigation. For detailed information, the reader is referred to the main report ref. GE18760-GIRv2.0-MAR21.</i>		

1.0 INTRODUCTION

1.1 General

Geo-Environmental Services Limited (Geo-Environmental) was instructed by WFBA on behalf of Reading Borough Council to undertake an investigation of the geotechnical and geo-environmental factors pertaining to proposed development at land at Wensley Road, Reading, Berkshire, RG1 6DR (herein referred to as 'the site'). The site's location is presented in Figure 1.

1.2 Form of Development

It is understood that the site is proposed to be developed for a residential land use comprising: one row of five terraced, 2.5 storey, 3 bedroom houses; three rows of seven terraced, 2.5 storey, 3 bedroom houses; one 3 storey apartment block, made up of six flats; one 4 storey apartment block, made up of twelve flats; new access roads and parking; and associated development infrastructure.

1.3 Objectives

The data from the geotechnical investigation was to form the basis of an interpretation with respect to foundation design, pavement construction, concrete specification, excavation stability and other pertinent construction issues.

A Preliminary Risk Assessment (PRA) was undertaken as part of the desk study in accordance with CLR11, in order to identify any specific requirement for and scope of any further assessment. The objective of the risk assessments was to evaluate the risks posed to the proposed redevelopment, adjacent land uses and the wider environment, in the context of likely planning requirements, immediate liabilities under the Environmental Protection Act 1990 and risks posed to Controlled Waters under the Water Resources Act from the current status of the site and in line with the proposed redevelopment.

1.4 Standards and References

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

- National Planning Policy Framework – March 2012
- Land Contamination Risk Management (LCRM), October 2020
- Model Procedures for the Management of Contaminated Land, CLR11, DEFRA and Environment Agency 2004 (withdrawn);
- Environment Agency Guidance on Requirements for Land Contamination Reports, Version 1 dated July 2005;
- BS10175:2011+A2:2017 - Investigation of Potentially Contaminated Sites - Code of Practice, BSI 2017;
- BS5930: 2015 - Code of Practice for Site Investigations, BSI 2015;
- EN ISO 14688 Geotechnical Investigation and Testing Part 1-2002 and Part 2-2004;
- BS1377: 1990 - Soils for Civil Engineering Purposes, BSI1990;
- NHBC Standards Chapter 4.1 Land Quality - Managing Ground Conditions;
- NHBC Standards Chapter 4.2 Building Near Trees;
- CIRIA C665 – Assessing risks posed by hazardous ground gases to buildings (2007);
- NHBC 10627-R01(04)- Guidance on evaluation of development proposals on sites where methane and carbon dioxide are present (2007);

- BS8485:2015+A1:2019 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings.

1.5 Conditions

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

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

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

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

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

This report remains the property of Geo-Environmental and the Client has no rights to, or reliance upon this document or supporting documents until such time as payment has been received in full for all invoices for works undertaken in connection with this report.

2.0 DESK STUDY

The findings of the Phase I desk study are presented in the following section. Site photographs taken as part of the site walkover are presented in Appendix A and a copy of the information obtained as part of the desk study is presented in Appendix B.

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

2.1 Site Description

The site comprised an irregularly shaped parcel of land with undulating topography located at NGR 470060, 171950 and extended to approximately 2.26Ha.

At the time of the ground investigation, the site was occupied by three multi-storey apartment blocks, one located in the northern portion, one in the south-western portion and one in the south-eastern portion of the site. Each apartment block had an associated car park and a fourth car park was located in the north-western corner of the site. A playground, sports court and a cycling track were located in the central-western portion of the site. The remainder of the site comprised a number of areas of soft landscaping with semi-mature to mature trees, shrubs, flower beds and benches.

An active site compound was located in the eastern portion of the site with associated building and renovation works ongoing across the site. The site compound was separated from the rest of the site by Heras fencing and was accessed by a driveway on the eastern site boundary off Wensley Road. The access driveway was also the access point to the north-eastern portion of the site for this phase of site works.

The site boundary comprised metal fencing in all directions with access roads into the car parks located along the northern and southern site boundary. A number of pedestrian gates were located along the site boundaries. The areas of soft landscaping across the site were fenced off by a series of low level metal fences.

The site was bounded by residential land use in all directions.

2.2 Geology

British Geological Survey geological mapping indicated the geology of the site to comprise Lambeth Group overlying the Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated), part of the White Chalk Subgroup. Superficial deposits of the Lynch Hill Gravel Member are mapped to the north of the site.

The **Lynch Hill Gravel Member** comprises sand and gravel with occasional lenses of clay, silt and peat.

The **Lambeth Group** comprises a mixture of stiff to hard red, blue/grey and brown mottled clays with basal beds of sand and gravel which vary greatly both laterally and vertically. Locally, these sediments are cemented with calcium carbonate, iron oxides and silica to form materials with relatively high strength.

The **White Chalk Subgroup** is a soft white friable microporous limestone composed of coccolith biomicrites with a varying proportion of larger shell fragments. Flint characterises the White Chalk Subgroup, occurring as nodular courses, tabular beds and linings to fractures.

At various levels clay sized material occurs as marl seams and partings. Close to the surface the upper few metres are invariably discoloured brown, due to leaching from the overlying strata. The interface with any overlying

stratum is invariably extremely irregular as a result of localised weathering and general solution. Weathering by frost action may extend to a depth of several metres.

Occasional erosional features, such as pipes, swallow holes and solution cavities, usually infilled with drift deposits, are found in the chalk, sometimes manifesting themselves at the surface as shallow circular depressions. Solution features may be reactivated by the concentrated ingress of water from leaking drains or soakaways. Reactivation may lead to surface collapse.

2.3 Hydrogeology

With reference to Envirocheck data the Lambeth Group was classified as a Secondary A Aquifer and the White Chalk Subgroup was recorded as a Principal Aquifer. The Lynch Hill Gravel Member was also classified as a Secondary 'A' Aquifer.

Secondary 'A' aquifers are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

Principal aquifers are layers of rock or drift deposits that have high intergranular and/or fracture permeability, meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.

The Envirocheck dataset indicated that the site lay outside any Source Protection Zone (SPZ).

The environmental dataset identified 2No. groundwater abstractions within 500m of the site, details of which are outlined in Table 2.1.

Distance (m)	Location	Abstraction type	Source	Permit start/end date
423m SW	Railtrack Property, Southcote, Reading	Water may be abstracted from a single point	Groundwater	3rd February 2003/not supplied
423m SW	Railtrack Property, Southcote, Reading	Water may be abstracted from a single point	Groundwater	12th December 1966/not supplied

Table 2.1 Groundwater abstractions within 500m of the site

No discharge consents to land/soakaway were identified within 500m of the site.

No pollution incidents were recorded within 500m of site.

BGS Flood GFS Data indicated that a small section of the southern portion of the site was located within an area with the potential for groundwater flooding to occur at surface.

2.4 Hydrology

With reference to the Envirocheck dataset, the closest surface water feature comprised an inland river named 'Holy Brook' 39m south-east of the site.

Mapping indicated that the site was not identified as being within an area at risk from flooding or extreme flooding from rivers or sea.

Five discharge consents to controlled waters were identified within 500m of the site as summarised in Table 2.2 below.

Distance (m)	Building type	Location	Discharge type	Discharge to	Dates (and status)
161m E	Pumping Station On Sewerage Network (Water Company)	Reading, St Saviours	Sewage Discharges - Pumping Station - Water Company	Freshwater Stream/River – Holy Brook	3rd September 2010 to 14th August 2014 (Surrendered under EPR 2010)
161m E	Pumping Station On Sewerage Network (Water Company)	Reading, St Saviours	Sewage Discharges - Pumping Station - Water Company	Freshwater Stream/River – Holy Brook	2nd November 1989 to 2nd September 2010 (Temporary Consents)
339m E	Construction Of Buildings	Coley Park Farm, Coley, Reading, Berks	Discharge of Other Matter-Surface Water	Freshwater Stream/River – Holy Brook	27th June 1986 to 7th November 2000 (Revoked)
359m E	Construction Of Buildings	Coley Park Farm, Coley, Reading, Berks	Discharge of Other Matter-Surface Water	Freshwater Stream/River – Holy Brook	27th June 1986 to 27th June 1991 (Authorisation revoked)
409m E	Construction Of Buildings	Coley Park Farm, Coley, Reading, Berks	Discharge of Other Matter-Surface Water	Freshwater Stream/River – Holy Brook	27th June 1986 to 27th June 1991 (Authorisation revoked)

Table 2.2 Discharge Consents to Controlled Waters within 500m of the site

No surface water abstractions were identified within 500m of the site within the desk study data.

The desk study did not identify any pollution incidents to controlled waters within 500m of the site.

2.5 Sensitive Land Uses

A search was made of environmentally sensitive areas including local and national nature reserves, areas of outstanding natural beauty (AONBs), nitrate zones, Ramsar sites, sites of special scientific interest (SSSIs), conservation areas, special protection areas and biosphere reserves.

No such sensitive land uses were identified within 500m of the site.

2.6 Radon

The Envirocheck report states that the site lies in an area where <1% of homes are above the Action Level as defined by Public Health England and the BGS. In addition, the BGS assessment states that no radon protective measures are required in the construction of new houses or extensions on the site.

2.7 Environmental Data

Searches of other various environmental databases were made as part of the desk study, including air pollution control sites, Part IIA contaminated land, Integrated Pollution Control (IPC) and Integrated Pollution Prevention and Control (IPPC) sites, registered radioactive substances, COMAH sites, explosives sites, Notification of Installations Handling Hazardous Substances (NIHHS) sites, planning permissions for sites involving hazardous substances and fuel station registers. Additional detail is referenced in Appendix B.

The desk study identified one Local Authority Pollution Prevention and Control Site within 500m of the site:

- 417m NE - Maff, Government Buildings, Coley Park, Reading, Berkshire, RG1 6DT; Permit ref - Epa/Par.B/2/91; date - 14th April 1993; Local Authority Air Pollution Control; PG5/3 Animal carcass incineration processes under 1 tonne an hour; status - Authorisation revoked.

The desk study identified eight Contemporary Trade Directory entries within 300m of the site, details of which are outlined in Table 2.3.

Distance (m)	Name	Location	Classification	Status
0 SW	Direct Cleaning & Ironing Services	Flat 46, Irving Court, 203, Wensley Road, Reading, RG1 6EB	Ironing & Home Laundry Services	Inactive
25 NE	Two Jays	188, Wensley Road, Reading, RG1 6DP	Commercial Cleaning Services	Inactive
25 NE	Jay Cleaning Services	188, Wensley Road, Reading, RG1 6DP	Commercial Cleaning Services	Inactive
79 W	Designer Graphics	254, Wensley Road, Reading, RG1 6DP	T-Shirts	Active
116 NE	A G Carpet & Upholstery Cleaning	169, Wensley Road, READING, RG1 6DU	Carpet, Curtain & Upholstery Cleaners	Active
139 NE	Amplicore Ltd	163, Wensley Road, Reading, RG1 6DU	Electronic Equipment - Manufacturers & Assemblers	Inactive
146 N	Charlum	32, Swallows Croft, Reading, RG1 6EH	Car Body Repairs	Inactive
292 W	A Sterling Clean	92, Kenilworth Avenue, Reading, RG30 3DW	Carpet, Curtain & Upholstery Cleaners	Inactive

Table 2.3 Contemporary Trade Directory Entries within 300m of the site

A further 39No. Contemporary Trade Directory entries were identified between 300m and 1000m from the site details of which can be found in Appendix B.

It is considered that the Ironing & Home Laundry Services operating from a flat on the site is highly unlikely to comprise a large commercial laundry and would not be associated with contaminants, such as solvents, typically used for commercial laundry or dry cleaning. Similarly, other cleaning related activities located on Wensley Road appear to relate to house addresses and not sites of commercial cleaning operations.

Given the locations and general activities of the remaining contemporary trade directory entries identified it is considered unlikely that any of these land uses will have had an adverse effect on the site.

2.8 Soil Chemistry

Data obtained as part of the desk study provides details on the estimated soil chemistry for the natural soils in the vicinity of the site. The estimated soil quality on the subject site is presented Table 2.4.

Contaminant	Estimated Concentration
Arsenic	<15-25 mg/kg
Cadmium	<1.8 mg/kg
Chromium	60-90 mg/kg
Lead	<100 mg/kg
Nickel	15-30 mg/kg

Table 2.4 Estimated Soil Concentrations on site

The natural background concentrations (where available) were below respective published Soil Guideline Values, Generic Assessment Criteria and Category 4 Screening Levels for the protection of human health under a residential land use, i.e. the most conservative end use.

However, these values are not necessarily representative of the site's soil chemistry and do not take account of current or historical activities on the site, nor the presence or condition of any Made Ground soils. Furthermore, some screening criteria are dependent on pH and soil organic matter content. Therefore, concentrations of specific determinands and the utilised SGV/GAC/C4SL cannot be determined without site specific investigation and analysis.

2.9 Geotechnical Data

The site lies within an area that is considered by the Coal Authority as being in an area that might not be affected by coal mining activity.

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

Hazard	Designation
Shallow mining (non-coal mining)	Highly unlikely
Collapsible ground	Very low hazard
Compressible ground	No hazard
Ground dissolution	Low – moderate hazard
Landslide	No hazard – very low hazard
Running sand	No hazard – very low hazard
Shrinking and Swelling clay	No hazard – moderate hazard
Mineral Sites (within 500m)	192m SW – Southcote Lane Sand Pit, Opencast (ceased) for sand, Lambeth Group; 266m NE – Coley Park Gravel Pit, Opencast (ceased) for sand and gravel, Lynch Hill Gravel Member; 352m N – Coley Park Gravel Pit, Opencast (ceased) for sand and gravel, Lynch Hill Gravel Member; 388m NE – Coley Park Gravel Pit, Opencast (ceased) for gravel, Lynch Hill Gravel Member.
Natural Cavities (within 500m)	499m N – sinkhole x1, solution pipe x1

Table 2.5 Summary of BGS Geological Hazards

2.10 Landfill and Ground Workings

A search of BGS recorded landfill sites, IPC registered waste sites, licensed waste management facilities, local authority recorded landfill sites, other registered landfill sites, waste transfer stations and other waste treatment or disposal sites was undertaken as part of the desk study.

None of the above sites were recorded within 500m of the site.

In addition, the Envirocheck dataset identified two areas of potentially infilled land (non-water) within 500m of the site:

- 272m NE, Unknown Filled Ground (Pit, quarry etc), Mapping 1995 (potentially Coley Park Gravel Pit identified as a BGS mineral site);
- 297m N, Unknown Filled Ground (Pit, quarry etc), Mapping 1995 (potentially Coley Park Gravel Pit identified as a BGS mineral site).

No areas of infilled land (water) were identified within 500m of the site.

2.11 Historical Mapping

Historical maps dating back to 1878 were obtained as part of the desk study. A summary of the apparent key features observed on the map extracts both on the site and within the local area is presented within Table 2.6.

Date	On-site	Off-site
1878-1879	The site straddled two fields separated by a line of woodland.	A small stream was located c. 20m south of the site. Southcote railway junction was located 200m south-west, with the northbound line within a cutting located c. 100m away from the north-west corner of the site. 50m north-west was small lodge with road access over the rail line. 200m north-east was large property (Coley Park). Between 150m to 200m south of the site was marsh land and a small brook. An old gravel pit was located c. 250m north-east of the site. Coley, the southern urban extent of Reading, lay c. 500m north of the site.
1883	No significant changes noted.	Coley Park Farm was shown c. 400m east of the site. About 1km north-east of the site lay Coley Kilns, a bricks, tiles and pottery works.
1899-1900	No significant changes noted.	Coley expanded southwards and lay c. 400m north-west of the site. The bricks, tiles and pottery works had been redeveloped into a recreational ground.
1912-1914	No significant changes noted.	There was now an eastbound railway line within a cutting that curved around the south of the site about 120m distant. A gravel pit was located c. 400m north of the site.
1932-1933	No significant changes noted.	A large housing estate had been constructed west of the railway c. 150m from the site.
1938	No significant changes noted.	Babylon Drive residential development had been built 250m north-east of the site.

Date	On-site	Off-site
1948-1949 (aerial photography)	No significant changes noted.	Further residential development took place to the north of Coley Park.
1959-1962	No significant changes noted.	Some structures had been built north Coley Park. The old gravel pit c. 250m north-east was no longer shown. A quarry was shown c. 150m south-east between to the south of the railway junction.
1962-1965	Three apartment blocks and associated car parks, playground and garages were shown within the site.	Wensley Road had been constructed and formed a loop so that it surrounded the site to the north, east and south. Housing had been constructed on the outside of the loop. There were sportsgrounds to the rear of the north properties and a recreational ground to the west the train line. Allotment gardens were located c. 100m east.
1973-1976	No significant changes noted.	Housing was constructed to the west of the site. There was a school 200m east of the site. Substantially more housing was noted to have been developed in surrounding areas in all directions apart from to the south. A bowling green had been added to the sports fields. The gravel pit located c. 400m north was shown to have been redeveloped.
1979-1989	Incomplete mapping. No significant changes noted.	Incomplete mapping. No significant changes noted.
1990-1993	No significant changes noted.	A community centre had been built just off the south-east corner of the site on the opposite side of the road.
1995	Incomplete mapping. No significant changes noted.	Incomplete mapping. A hospital was built 250m north-east of the site.
1999	Incomplete mapping. No significant changes noted.	Incomplete mapping. No significant changes noted.
2006	No significant changes noted.	No significant changes noted.
2020	No significant changes noted.	No significant changes noted.

Table 2.6 Summary of historical map extracts

The historical mapping has shown the site to have remained as undeveloped land until between 1962 and 1965 when the site was shown to have become developed with three apartment blocks and associated car parks, a playground and a row of garages as per the present day layout.

The surrounding land uses have been shown to comprise primarily open space, railway lines and a railway junction, a number of gravel pits and a quarry prior to being redeveloped gradually over the mapping period for a primarily residential use with associated services.

2.12 Asbestos

Due to the age of the buildings on the site it is possible that Asbestos Containing Material (ACM) may be present. Therefore, in line with current best practice, asbestos and ACM should be assumed to be present until proven otherwise, this includes the consideration of the potential for asbestos to be present within building fabric, entrained within concrete, as discrete burial and within the shallow soils on the site.

2.13 Previous Ground Investigations

Geo-Environmental was not aware of any previous intrusive investigation works that had been undertaken on the site.

2.14 Potential Contamination

The site's previous use is shown by mapping to have comprised open space which was developed to comprise three apartment blocks and associated car parks, a playground and a row of garages. An old gravel pit (likely Coley Park Gravel Pit) was identified approximately 250m to the north-east and a quarry (likely Southcote Lane Sand Pit) was located 150m south-west. Coley Park Gravel Pit may also be associated with two records of potentially infilled ground located 272m north-east and 297m north of the site.

A review of the land uses covered by the National House Building Council (NHBC), Environment Agency (EA) and Chartered Institute of Environmental Health (CIEH) publication 'Guidance for the Safe Development of Housing on Land Affected by Contamination' (2008), which provides a summary of industrial profiles (1995 - 1996) published by the former Department of the Environment (DoE) (now part of the Department for Environment, Food and Rural Affairs [DEFRA]) has been undertaken. However, no profiles relating to the previous and current land uses of the site have been identified.

Due to the built up nature of the site Made Ground is likely to be present. Made Ground or shallow soils may contain contaminants of concern, including metals, non-metal, inorganic pollutants, organic pollutants (including PAH/TPH) and asbestos.

It is potentially possible that the garage blocks may have been used for informal vehicle repair or maintenance, and whilst an impact from such activities is unlikely to be extensive, there is potential for contaminants of concern to be present including TPH.

In addition, it is possible that the surrounding land uses, particularly the railway, may have resulted in the deposition of airborne contaminants on the surface and shallow soils on site including heavy metals, organic pollutants such as polyaromatic hydrocarbons (PAH) and petroleum hydrocarbons/oils, and inorganic compounds within the shallow soils across the site.

2.15 Ground Gas and Vapour Summary

Made Ground is potentially present at the site and depending on the volume, thickness and materials present, may represent a source of ground gases, although it is acknowledged that significant putrescible material for significant gas generation is unlikely.

However, an old gravel pit (likely Coley Park Gravel Pit) was identified approximately 250m to the north-east and a quarry (likely Southcote Lane Sand Pit) were located 150m south-west. These features may have been infilled and represent a potential source of ground gases. However, the gas generating potential of these features would be dependent on the nature of the infill materials.

No landfills or waste sites were identified within 500m of the site. No potentially infilled ground was recorded within the Envirocheck dataset within 250m of the site, the nearest being 272m distant although these records may relate to Coley Park Gravel Pit identified as a BGS mineral site and on historical mapping approximately 250m from the site and as such may be a source of ground gases as noted above.

3.0 PRELIMINARY ASSESSMENT

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

3.1 Geotechnical Constraints

3.1.1 Potential Geotechnical Issues

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

- The possible presence of Made Ground (e.g. varying depth and/or composition) on site, which if encountered may affect the foundation design and construction.
- The presence of laterally and vertically variable strata and the impact these could have on further construction.
- Consideration of the volume change potential change of any cohesive soils and the affect this could have on foundations.
- The suitability of shallow soils as bearing stratum for conventional foundations.
- The possible presence of aggressive ground conditions (sulphates) which may affect the foundation design and construction.
- The presence of trees and/or vegetation on the site and the associated foundation design if/where shrinkable soils are encountered.
- The presence of Tree Protection Orders (TPOs) which may affect the type of foundations permitted within certain areas of the site.
- The possible presence of perched and/or shallow groundwater beneath the site which may affect foundation design and construction.
- The suitability of the shallow soils for the use of soakaways on the site as part of the proposed development.
- The possible presence of solution features associated with the Chalk anticipated beneath the site.

3.2 Preliminary Environmental Conceptual Site Model & Risk Assessment

3.2.1 Methodology

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

A risk of harm may only exist where a plausible pollutant linkage is present, and where the quantity or concentration of a contaminant is sufficient so as to pose harm. Under the statutory definition, "Contamination" may only strictly exist where contaminants pose a risk of harm to a receptor. The risk classification has been assessed in accordance with CIRIA C552 (Rudland et al., 2001). A summary of how the risks are derived and their definitions are presented in Tables 3.1 and 3.2.

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

Table 3.1 Risk Ratings Matrix

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

Table 3.2 Risk Rating Definitions

3.2.2 Summary of Plausible Sources

Possible sources of contamination identified from the desk study are summarised in Table 3.3.

Source	Description	Contaminants
Made Ground and shallow natural soils	The general quality of the shallow soils (and Made Ground if encountered) could be impacted by the presence of contamination. In addition, soils may have been impacted as a result of aerial deposition on site and potential informal vehicle maintenance associated with the domestic garage block on site.	Possible elevated concentrations of metals, metalloids, organic compounds to include TPH and PAH, SVOCs and VOCs inorganic compounds such as sulphate and asbestos.
Naturally occurring aggressive ground conditions	Naturally occurring compounds in the ground which could damage buried concrete.	Possible elevated sulphate concentrations.
Ground gases/Vapours	A thickness of Made Ground is likely to be present on the site. Two former quarries/gravel pits have been identified within 250m of the site.	Possible presence of ground gases such as methane and carbon dioxide together with depleted oxygen, trace gases and elevated Volatile Organic Compounds.

Table 3.3 Possible Sources of Contamination

3.2.3 Summary of Plausible Pathways

The plausible pathways are summarised in Table 3.4. These pathways are based on the proposed end use, including private gardens and soft landscaping.

Pathway	Description
Direct Contact	Ingestion of soil particles, inhalation of soil derived dust (including tracked back dust), dermal contact. Bioaccumulation within home grown vegetation.
Inhalation	Inhalation of soil dust both inside and outside of buildings. Inhalation of ground gas/vapours within buildings.
Vertical & Lateral Migration	Contaminant movement both vertically through leaching/gravity and horizontally along preferential pathways, e.g. services trenches, more permeable bedded strata or with groundwater. The site is topographically undulating and therefore lateral migration and overland flow of surface water may occur.
Shallow Groundwater	A shallow continuous groundwater body may be present within the Lambeth Group (Secondary A Aquifer), and if encountered could result in the vertical and lateral migration of contaminants. Groundwater within the White Chalk Subgroup (Principal Aquifer) is expected to be present at depth beneath the site.
Chemical Attack	Attack of buried plastics and concrete by aggressive ground conditions.

Table 3.4 Possible Contamination Pathways

3.2.4 Summary of Plausible Receptors

Potential receptors associated with the site and its development are summarised in Table 3.5.

Receptor	Description	Comments
End Users	Residents/occupants of the proposed development.	The proposed development comprises residential housing with private garden areas, soft landscaping, access roads, car parking and associated development infrastructure.
Soft Landscaping	Possible areas of planting including possible lawns, shrubs, trees, etc.	Private gardens and areas of soft landscaping are proposed.
Built Environment	Buried concrete for foundations and plastics for potable water supply pipes may be laid in contact with contaminated soils.	Aggressive ground conditions may be present beneath the site.
Adjacent Land Users	Sensitive land uses identified within the immediate vicinity.	Adjacent land uses were noted to be broadly consistent with the proposed land use i.e. residential.
Groundwater	Controlled waters contained within the aquifer(s) beneath the site.	The site overlies a Secondary 'A' Aquifer (Lambeth Group) and a Principal Aquifer (White Chalk Sub-Group) and is located outside any SPZ.
Surface Water	Controlled Waters within lakes, rivers, and ponds, etc., or coastal waters.	The nearest surface water feature comprised an inland river named 'Holy Brook' 39m south-east of the site.
Ecological Receptors	Sensitive areas of ecological significance.	Discounted – none identified within 500m.

Table 3.5 Possible receptors of contamination

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

Whilst the above sources and receptors have been identified, Table 3.6 summarises the identified plausible pollution linkages and a qualitative assessment of the risks based on the desk study research.

Ground Appraisal Report

Potential Source/Media	Potential Receptors	Potential Pathways	Probability	Consequence	Risk and Justification
Contaminants within any Made Ground and Shallow Natural Ground	End users	Direct contact and inhalation of soil derived dust	Likely	Mild	Moderate to Low End users are likely to come into contact with soils via direct contact in areas of soft landscaping (private gardens). These soils may be impacted or potentially comprise Made Ground. However, landscaping would be completed with uncontaminated soils in the near surface root zone.
	Soft Landscaping	Root Uptake	Likely	Minor	Low Areas of soft landscaping are proposed. However, landscaping would be completed with uncontaminated soils in the near surface root zone.
	Adjacent land users	Direct contact	Unlikely	Minor	Very Low Adjacent site users are not expected to come into contact with soils on the site. However, should they come into contact within areas of proposed soft landscaping, any landscaped areas would also be completed with uncontaminated soils in the near surface root zone.
	Water supply pipes	Direct contact	Likely	Minor	Low Water supply pipes are likely to come into contact with impacted soils depending upon depth of installation and extent of soil impact.
	Buildings and infrastructure	Direct contact	Likely	Minor	Low Foundations and utilities will be placed within potentially aggressive soils (e.g. sulphate).
	Groundwater	Vertical migration	Likely	Mild	Moderate to Low Shallow groundwater is potentially present on site and deeper groundwater is expected within the Principal Aquifer of the White Chalk Subgroup. The presence of significant mobile contamination is not expected.
	Surface Water	Lateral migration	Low likelihood	Mild	Low The closest surface water feature comprised an inland river named 'Holy Brook' 39m south-east of the site. It is likely that any surface water will flow to the south-east, however significant mobile contamination is not expected.
Naturally occurring aggressive	End users	Direct contact and inhalation / ingestion of soil derived dust	Unlikely	Minor	Very Low No naturally occurring potential sources which could harm human health have been identified.

Ground Appraisal Report

Potential Source/Media	Potential Receptors	Potential Pathways	Probability	Consequence	Risk and Justification
ground conditions	Soft Landscaping	Root Uptake	Unlikely	Minor	Very Low Gardens and amenity soft landscaping are proposed but are unlikely to be affected by naturally occurring aggressive ground conditions. Current vegetation around the site appeared in good condition.
	Adjacent land users	Direct contact	Unlikely	Minor	Very Low No potential sources which could harm human health have been identified.
	Water supply pipes	Direct contact	Unlikely	Minor	Very Low No potential sources which could harm human health have been identified.
	Buildings and infrastructure	Direct contact	Likely	Minor	Low Foundations will be placed within soils which may be an aggressive environment for concrete.
Ground Gases and Vapours	End users	Inhalation	Low	Medium	Moderate to Low Ingress of hazardous ground gas into buildings could occur and could result in significant harm where ground gases are identified on site, or migrating cross boundary onto the site. This is considered to present a risk from on-site sources should any thickness of highly organic Made Ground be identified or if highly organic material and preferential pathways exist in relation to the off-site quarries/gravel pits. Should a source of ground gases be identified from the intrusive investigation, incorporation of gas protection measures could mitigate the risk of harm.
	Buildings and infrastructure	Gas accumulation and potential explosion of flammable gases	Unlikely	Minor	Very Low Extensive putrescible material sufficient for significant methane production is not expected to be present limiting the potential for significant gas migration/production.
	Adjacent land users	Inhalation	Unlikely	Minor	Very Low It is considered to be unlikely and a low probability that adjacent land users will come into contact with ground gases and vapours originating on site, should a significant thickness of highly organic made ground be identified.

Table 3.6 Plausible Pollutant Linkages & Qualitative Risk Assessment

3.3 Preliminary Risk Assessment Summary

The PRA and CSM developed from the information gathered as part of the desk study process have identified several plausible pollutant linkages that exist in relation to the proposed development of the site and the preliminary risk rating for most of the pollution linkages have been classified as low or very low. A moderate to low risk rating has been assigned in relation to the potential for Made Ground on-site, informal vehicle maintenance and off-site aerial deposition. A moderate to low risk rating has also been assigned in relation to ground gases from off-site quarries/gravel pits and potentially on-site Made Ground.

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

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

3.4 Scope of Works

- In summary, the following scope of works for the intrusive investigation was agreed with the Client. Attendance of a specialist surveyor to undertake a buried utilities clearance survey using radiodetection and ground penetrating radar techniques.
- Attendance of a Geo-Environmental Engineer to set out and supervise the intrusive investigation, undertake sampling, in-situ testing and logging of recovered soils from exploratory holes.
- The construction of 7No. machine dug trial pits to depths up to 3.0m bgl (TP01 to TP06 and TP08).
- Undertake trial pit soakage tests in general accordance with BRE Digest 365 in 2No. locations (TP03 and TP08).
- Undertake Mexecone Penetrometer tests in 8No. locations to determine the in-situ CBR profile in the upper metre of ground across the site targeting areas of proposed road pavement or hardstanding.
- Construction of 6No. dynamic sampler boreholes to depths of up to 5m bgl (WS01 to WS06).
- Super heavy dynamic probing at 3No. locations (DP1/WS01, DP2/WS04 and DP3/WS05) to inform the geotechnical assessment.
- Installation of 4No. combined gas and groundwater monitoring wells within the boreholes (WS01, WS02, WS05 and WS06) to facilitate return monitoring.
- Ground gas, vapour monitoring and groundwater (spot monitoring) of well installations on 12No. occasions over an approximately twelve month period.
- Geotechnical laboratory testing to support the geotechnical assessment for foundations, ground floor construction and buried concrete design.
- Geochemical laboratory testing for a suite of commonly occurring brownfield contaminants and specific potential contaminants identified from the desk study.
- Provision of a Ground Appraisal Report.

3.5 Investigation Strategy

The positioning of exploratory holes was determined on site to provide general coverage and to target specific areas whilst working within access restrictions associated with the ongoing use of the site. It was not possible to undertake trial pit TP07 as no vehicle access was available to the south-west area of the site at the time of investigation. Table 3.7 sets out the investigation strategy adopted.

Area of Concern	Investigation	Positions
General ground conditions	Exploratory holes located across the site, coupled with sampling and laboratory analysis	All
Potential contamination of near surface soils	Exploratory holes located to provide coverage of the site, coupled with sampling and laboratory analysis	All
CBR testing of shallow soils	In Situ CBR testing supplemented by laboratory testing (soaked CBRs)	MEX01-MEX08, TP02, TP04, TP05 & TP08
Strength testing of underlying soils	Dynamic probing adjacent to a number of exploratory hole positions	DP1/WS01, DP2/WS04 and DP3/WS05
General gassing regime and groundwater levels across site	Spot monitoring within wells located across the site	WS01, WS02, WS05 & WS06
Permeability of underlying soils.	Soakage testing in line with BRE365 within a number of exploratory hole locations across the site	TP03 & TP08
Vicinity of garage blocks	Exploratory holes located to provide coverage of the site, coupled with sampling and laboratory analysis	WS01

Table 3.7 Summary of the Investigation Strategy

Soil samples were collected and placed into amber jars and cool boxes on site for transit to the office, where they were stored under chilled conditions (<4°C) prior to final transportation in cool boxes to the laboratory by their in-house courier. Both the geotechnical and contamination testing were undertaken by UKAS accredited laboratories. Contamination testing of soil samples was also undertaken in accordance with accredited MCerts protocols. Samples were stored in temperature controlled conditions from sampling until receipt at the laboratory from which time sample preparation and storage was determined by testing requirements and in line with laboratory's protocols.

4.0 ENCOUNTERED CONDITIONS

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

For further details of the ground conditions, reference should be made to the exploratory hole logs and in situ testing presented in Appendix C, the geotechnical testing results in Appendix D, geochemical testing results in Appendix E, ground gas monitoring results in Appendix F and soakage testing results in Appendix G.

Investigation works were undertaken on 25th and 26th February 2020.

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

4.1 Soils

The ground conditions encountered comprised a mantle of Topsoil or Made Ground overlying superficial Lynch Hill Gravel Member overlying soils of the Lambeth Group. The White Chalk Subgroup was not encountered during the investigation and is considered to be present at depth below the site. The ground conditions are summarised in Table 4.1.

Top (m bgl)	Base (m bgl)	Geology
0	0.30	TOPSOIL: (TP02 & TP04 only) Dark brown gravelly SILT with roots and rootlets.
0	0.30 - 1.30	MADE GROUND: (All locations except TP02 & TP04) Tarmacadam; Orangish brown medium SAND; Dark brown SILT with varying proportions of brick fragments, concrete rubble, plastic, roots and rootlets; Brown/orangish brown CLAY with varying proportions of brick fragments, roots and rootlets; Orangish brown SAND with varying proportions of silt, gravel, brick fragments, concrete rubble and rootlets.
0.30 – 1.30	0.60 - 3.00	LYNCH HILL GRAVEL MEMBER: (All locations except TP06, WS04 & WS05) Firm to stiff brown/orangish brown CLAY with varying proportions of sand, gravel, black flecking, orange/reddish brown staining, roots and rootlets; Brown GRAVEL with varying proportions of clay, sand, roots and rootlets; Orangish brown slightly gravelly clayey SAND with black flecking. Potentially reworked natural soils were recorded in TP02 to 1.20m bgl.
0.40 – 3.00	2.30 (base of hole) - 5.00 (base of hole)	LAMBETH GROUP: (All locations) Orangish brown/pale greyish brown/yellowish brown fine to medium SAND with varying proportions of clay, gravel, black flecking, orange/dark brown to black/reddish brown staining, rootlets; Orangish brown/pale grey CLAY with varying proportions of sand, gravel, reddish orange/orange staining, black flecking.

Table 4.1 Summary of Ground Conditions

With the exception of within the Topsoil, live roots and rootlets were encountered as follows:

- TP01 0.00m to 0.80m bgl – abundant roots 1-5mm and rootlets;
- TP01 0.80m to 2.00m bgl – some roots 1-2mm and rootlets;
- TP02 0.30m to 1.20m bgl – roots 1-3mm and rootlets;
- TP02 1.20m to 2.05m bgl – some rootlets;
- TP03 0.30m to 0.70m bgl – frequent rootlets;
- TP04 0.30m to 0.70m bgl – roots 1-4mm and rootlets;
- TP04 0.70m to 1.30m bgl – roots 1-3mm;
- TP05 0.30m to 0.60m bgl – rootlets and roots 1-10mm;

- TP05 0.60m to 1.10m bgl – some roots 1-5mm;
- TP06 0.40m to 1.20m bgl – some rootlets;
- TP08 0.00m to 1.20m bgl – roots 1-5mm and rootlets;
- WS01 1.00m to 1.30m bgl – some rootlets;
- WS02 0.40m to 0.70m bgl – roots 1-2mm and rootlets;
- WS03 0.30m to 0.80m bgl – roots 1-2mm and rootlets;
- WS03 0.80m to 1.70m bgl – abundant roots 1-5mm, rootlets and rotting roots;
- WS04 0.30m to 0.80m bgl – rare rootlets;
- WS05 0.40m to 1.20m bgl – some rootlets;
- WS05 1.20m to 2.20m bgl – rare rootlets.

For more detailed descriptions at specific locations, reference should be made to the exploratory hole logs presented in Appendix C.

4.2 Groundwater

Groundwater was not encountered within any of the exploratory hole positions during the intrusive investigation. All groundwater monitoring wells were dipped on 26th February 2020 on completion of the intrusive site works and were recorded as being dry. Groundwater was not encountered within monitoring wells installed on site to depths of up to 5.0m bgl during the eleven monthly groundwater monitoring visits undertaken between 4th March 2020 and 8th March 2021. One further monitoring visit is still to be undertaken and will be reported on completion.

Given the geology encountered beneath the site, groundwater is likely to be present at depth beneath the site located within the underlying Chalk.

It should also be noted that changes in groundwater levels do occur for a number of reasons including seasonal effects and variations in drainage. Such fluctuations may only be recorded by the measurement of the groundwater level within a series of standpipes or piezometers installed within appropriate response zones.

4.3 Obstructions

Obstructions were encountered within a number of the exploratory hole positions. WS02, WS04, WS05 and WS06 were noted to refuse on a hard layer (assumed to be associated with variation within the natural geology beneath the site). The presence of obstructions elsewhere on site cannot be completely discounted.

TP04 and TP05 were advanced to 2.50m and 2.30m bgl respectively at which point they were backfilled due to instability within sand of the Lambeth Group and pit collapse. In addition, it was noted that the addition of water to TP02 and TP08 for the purpose of soakage testing caused instability within the pits in the clay of the Lynch Hill Gravel and the sand of the Lambeth Group resulting in a number of partial pit collapses throughout the soakage tests.

4.4 Geotechnical Testing

In-situ hand penetrometer testing was undertaken in more cohesive soil of the Lynch Hill Member and Lambeth Group within the trial pits and windowless sample boreholes. These results ranged from 1.0kg/cm² to 3.2kg/cm² (firm to stiff).

Dynamic probing was undertaken at three locations across the site adjacent to WS01, WS04 and WS05, to provide an assessment of the relative density of the materials encountered. These positions were targeted to provide a general coverage of the proposed buildings at the site. These results ranged between equivalent SPT N-value

(N300) of N=6 and N=>50, with values ranging between N=6 to N=18 in the Lynch Hill Gravel and N=9 to N=>50 in the Lambeth Group

In-situ Mexecone Penetrometer testing was undertaken at 8No. locations across the site which showed CBR values generally in the range of 1% to 4% for soils shallow soils at the site.

Geotechnical laboratory tests were undertaken on selected samples of the key strata encountered on this site. The results are summarised in Table 4.2 below.

Parameter	Made Ground	Lynch Hill Gravel Member	Lambeth Group
Natural Moisture Content (%)	-	14 – 20	16 – 18
Liquid Limit (%)	-	19 – 38	37 – 47
Plastic Limit (%)	-	12 – 14	14 – 17
Plasticity Index Ip (%)	-	5 – 25	23 – 30
Modified Plasticity Index Ip' (%)	-	4 – 21	23 – 30
Soil grading	-	Silty sandy CLAY with occasional rootlets and rare fine gravel	Slightly gravelly clayey SAND, clayey SAND, very clayey very gravelly SAND
CBR% (Soaked when clay soils)	-	0.40 – 1.4	12 – 13
pH	7.3 – 11.1	7.5 – 8.8	7.8 – 8.2
Water soluble sulphate (mg/l)	20 – 2400	20 – 83	22 – 35

Table 4.2 Summary of Geotechnical Laboratory Test Results

4.5 Chemical Analysis

In order to assess the general chemical quality of the strata encountered, samples of soils recovered from the exploratory holes were submitted for analysis for a range of potential contaminants selected on the basis of the findings of the desk study and supported by CLR publication CLR8 and Environment Agency R&D66 publication.

The testing rationale included sampling and analysis to provide a general coverage of the subject site. Testing was undertaken for a broad range of commonly occurring contaminants including metals, metalloids, inorganic compounds, phenols, speciated TPH, PAH, VOCs and SVOCs and asbestos as identified from the desk study and included analysis of the Topsoil, Made Ground, Lynch Hill Gravel Member and Lambeth Group.

4.6 Ground Gases and Vapours

Return 'spot' ground gas monitoring was undertaken on eleven occasions between 4th March 2020 and 8th March 2021 as part of the investigation, within standpipes installed within window sampler boreholes WS01, WS02, WS05 and WS06 as part of the February 2020 investigation. These locations were selected to provide general coverage of the area of the site where buildings were proposed and to target the locations where Made Ground was encountered within current access restrictions.

The spot monitoring undertaken to date has not detected the presence of methane in any borehole. Carbon dioxide has been detected at concentrations in the range of 0.0% to 6.7% and oxygen in the range 13.9% to 20.9%. Borehole flows were recorded at 0.0l/hr throughout the monitoring. Atmospheric pressure was recorded in the range of 9972mb to 1019mb during the visits undertaken.

The implications of the gas monitoring data are considered in Section 6 of this report.

5.0 ENGINEERING CONSIDERATIONS

Subsequent to intrusive investigation of the site and receipt of the laboratory test results, the following geotechnical assessments have been made.

5.1 Conventional Foundations

Based on the ground and groundwater conditions encountered in the exploratory holes, it is considered that conventional shallow foundations may be suitable for the proposed development, with foundations passing through any Topsoil, Made Ground, disturbed zones (see TP02), soft ground and root zones to terminate within the firm clay of the Lynch Hill Gravel Member or within the sand of the Lambeth Group.

As such where conventional foundations are proposed, a net allowable bearing capacity of 75kPa is recommended for the firm clay encountered and increasing to 150kPa for the medium dense (or more dense) sand of the Lambeth Group. Total settlement should remain within tolerable limits for the bearing capacities set out above. Wherever possible, foundations should terminate within a single stratum to mitigate the risk of differential settlement. Where foundations span differing strata (i.e. sand and clay) reinforcements may be required.

On the basis of the results of the Atterberg Limit tests in conjunction with the field observations it is considered that the cohesive elements of the Lynch Hill Gravel Member and Lambeth Group should be classified '*en-masse*' as medium volume change potential, as defined by NHBC Standards, Chapter 4.2. Therefore, a minimum founding depth of 0.90m bgl is recommended in cohesive soils.

It should be noted that due to the presence of deep root zones recorded in TP01, TP02 and WS05, foundation depths up to 2.20m bgl may be required in these areas of the site. Foundations should also be deepened accordingly where root zones are encountered during construction.

Heave protection measures in accordance with NHBC Standards will be required where foundation depths exceed 1.50m and pass through clay soils. Sizing of any compressible media should be determined in accordance with NHBC guidance and on a plot specific basis accounting for volume change potential, foundation depth, tree influence and other pertinent factors.

Foundations greater than 2.50m deep would require structure-specific design by a structural engineer. Alternatively, piled foundations could be constructed in lieu of deep strip foundations. Foundations should be a minimum 450mm in width.

Where foundations are proposed to be constructed within the zone of influence of trees, it is possible that foundations would need to be deepened to account for the presence and influence of trees. It is possible that foundation bases would require to be stepped and as such, it is recommended that steps do not exceed 0.50m (or lower limit if required by design standards) in height at any point and are at least 1.00m (lateral distance) away from any corner or node point on the foundations. Where this cannot be accommodated, the foundation should be formed at the greater depth.

Foundations which are proposed in proximity to trees (remaining, removed or proposed) should be designed in accordance with NHBC Standards Chapter 4.2, and design approaches 4.2B and 4.2C, which incorporate the water demand of trees and the distance of the tree from the nearest portion of foundation.

Preliminary assessment of tree influence on foundation depth has been undertaken using the NHBC Foundation Depth Calculator and indicates the following depths (in Table 5.1) depending on the foundation's distance from a given tree, assumed to be a high water demand, broad leaved tree of mature height (20m). These depths do not

account for any desiccation, are indicative only and further assessment should be undertaken by the Foundation Designer as part of the detailed design.

Foundation distance from tree (m)	Minimum founding depth (m)*
<6	>2.50
6	2.50
10	2.20
15	1.75
20	1.35
25	0.90

NOTE: * does not account for desiccation and subject to clarification following confirmation of species from a tree survey.

Table 5.1 Minimum founding depths within the influence of mature high water demand broad leafed trees

It is recommended that foundation excavations be concreted or blinded as soon after excavation as possible. Where concreting could take place the following day it is recommended that excavations are not taken to full depth overnight and that the final 0.50m of cover is only removed immediately prior to concreting.

No evidence of cavities within the Chalk, or depth to the top of the Chalk has been established. However, it may be necessary to undertake additional investigation within the footprint of proposed new buildings in due course and for additional exploratory holes to be advanced to depth to clarify the depth to, and condition of the Chalk. Thus, it may be prudent to allow for additional probing and deep boreholes, in due course, to support detailed design. Depending on the imposed loads from the 3 and/or 4 storey blocks, deeper investigation may also be required to support design of deep foundations.

5.2 Floor Slabs

Given the presence of Made Ground to depths in excess of 0.6m bgl and underlying shrinkable soils, it is recommended that suspended floor slabs be utilised at the site.

5.3 Excavations

Excavations within the clay soils and Made Ground at the site are likely be stable in the short to medium term. Large scale excavations within clay soils and those left unsupported for long time periods are likely to be less stable. Excavations within the sand soils are likely to be unstable even in the short term and, as such, an allowance for trench support or battering back to a safe angle is recommended. The stability of excavations will also be reduced where exposed to surface water or groundwater.

Ground works should be designed in such a manner to avoid personnel entry into unsupported excavations. Where this cannot be avoided, such entry should only be into supported excavations in accordance with a safe system of work and relevant legislation, e.g. Confined Spaces Regulations.

5.4 Pavements

8No. in-situ CBR tests were undertaken as part of the site investigation works on site using a Mexecon Penetrometer with locations targeting proposed roads. The results of the testing were generally in the range of 1% to 4%. This was supported by laboratory testing at four locations on site which demonstrated CBRs in the range of <1% to >10%. CBRs of <1% were recorded within clay soils (TP02 at 0.40m bgl and TP05 at 0.40m bgl) and samples were soaked before testing which is likely to be reflective of conservative worst case site conditions. With reference to Table C1 of TRRL LR1132, a CBR value of between 1.5% and 2.5% would be recommended depending on construction conditions. Based on a review of the in-situ testing, laboratory results and guidance available, a

preliminary design CBR of 1.0% is recommended for the shallow soils across the site. As such, allowance is likely to be required for increased capping thickness, stabilisation or reinforcement of the subgrade formation beneath roads on the proposed development.

The shallow cohesive soils and Made Ground (approximately 0.50m bgl) should be assumed to be frost susceptible based on their fines content and plasticity testing at these depths. Granular soils should be considered non-frost susceptible. Any hard or soft spots in the formation level may induce reflective cracking in the pavement and allowance should be made for removing hard or soft spots that may be present.

5.5 Sub-Surface Concrete

The results of the water soluble sulphate and pH analyses indicate that buried concrete should be designed in accordance with Class DS-1 of BRE Special Digest 1, with an ACEC class of AC-1s across the majority of the site. A water soluble sulphate concentration of 2400mg/l was recorded in WS01 at 0.50m bgl within a sample of Made Ground. These soils contain elevated contaminants and will require remediation in terms of risks to human health (see Section 6) and may be removed from the site. If these soils remain present, buried concrete in this area should be designed in accordance with Class DS-3, AC-2s. The advice of this publication should be taken for the design and specification of all sub surface concrete.

5.6 Soakaways

Soakage testing was commenced within two trial pits (TP03 and TP08). Soakage testing was undertaken in broad accordance with BRE Digest 365 Soakaway Design. During the course of the first test within both pits, it became apparent that due to the ground conditions encountered, pit instability was likely to be an issue.

Three soakage tests were attempted within both of the pits however spalling and partial pit collapse resulted in incomplete drainage cycles. Extrapolation of soakage data from TP08 indicated a preliminary infiltration rate of 1.4×10^{-5} m/s. Due to the instability of the trial pits, both test pits were backfilled with arisings on the 25th February 2020. Further testing is recommended utilising gravel filled test pits to undertaken testing in line with BRE365.

Based on the testing undertaken at the site it is considered that the use of soakaways on the site within the sand of the Lambeth Group may be effective. The soakage test results are presented in Appendix G.

6.0 ENVIRONMENTAL CONSIDERATIONS

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

As stated in Section 3, site workers involved in the preparation and construction of the development have not been considered further in this assessment as the Principal Contractor is duty bound under the current CDM Regulations to undertake their own risk assessments with respect to their employees.

6.1 Outline Risk Assessment

A number of plausible pollutant linkages were identified as part of the desk study. The investigation did not encounter conditions that warranted a revision of the preliminary Conceptual Site Model.

6.2 Ground Gases vs. End Users

The desk study undertaken for the site identified two off-site quarries/gravel pits within 250m and potential for Made Ground to be present at the site as potential sources of ground gases. However, the ground investigation did not identify a significant thickness of Made Ground or highly organic material that could present a potential gas risk.

Spot monitoring was undertaken within monitoring wells within window sampler boreholes installed within WS01, WS02, WS05 and WS06. These locations were selected to provide general coverage of the site and to target the locations where Made Ground was encountered within current access restrictions. Return 'spot' gas monitoring was undertaken on eleven occasions between 4th March 2020 and 8th March 2021 to assess the gas regime on the site.

The spot monitoring undertaken to date has not detected the presence of methane in any borehole. Carbon dioxide has been detected at concentrations in the range of 0.0% to 6.7% and oxygen in the range 13.9% to 20.9%. Borehole flows were recorded at 0.0l/hr throughout the monitoring. Atmospheric pressure was recorded in the range of 972mb to 1019mb during the visits undertaken.

A Tier 1 Ground Gas Risk Assessment (GGRA) incorporating the results of the desk study and ground investigation was undertaken, the findings of which are presented in the following sections.

Recommendations on acceptable gas concentrations recorded in the ground beneath or adjacent to buildings are given in a variety of publications. For the purpose of this assessment, the results have been evaluated in terms of British Standard BS8485, 'Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings' (2015); CIRIA C665, 'Assessing risks posed by hazardous ground gases to buildings' (2007) and NHBC report 10627-R01(04) 'Guidance on evaluation of development proposals where methane and carbon dioxide are present' (2007). CL:AIRE Research Bulletin RB17, 'A pragmatic approach to ground gas risk assessment' (2012).

Methane was not detected within any of the monitoring wells for the duration of the monitoring period, and as such is not considered to be a risk to the proposed development and is not assessed or considered further.

Carbon dioxide was recorded in all standpipes throughout the monitoring period, with monitoring location WS06 marginally exceeding the 5% limiting concentration for Characteristic Situation 1 (5.4% to 6.7%), on three of the monitoring occasions (3rd June 2020, 6th July 2020 and 4th September 2020). No plausible significant onsite source of carbon dioxide has been established, therefore it is considered that carbon dioxide is being produced mainly

via biological respiration within the soils beneath the site and as such is from low risk sources.

In addition, no borehole flow rates were recorded within any of the monitoring wells during the entire monitoring period. This lack of notable flow indicates that the source of the identified carbon dioxide is migrating by diffusive flow only.

Gas primarily migrates via either pressure driven (advective) flow or via diffusive flow. No borehole flow rates were recorded across the site during the monitoring period. As such, gas present beneath the site will diffuse through the soils forming a continuum between the source and ground level, with only minor concentrations of gas reaching ground level, and no perceivable flow. The majority of gas will remain trapped in the soil pores or sorbed to soil particles. As no flow rates have been recorded during the monitoring period this suggests that any carbon dioxide is residual gas trapped within the soil pores, which is only being recorded and monitored due to the actual drilling and construction of the monitoring wells within these soil pores, and as such is not representative of the risks posed to proposed buildings on site.

Looking at atmospheric pressure conditions over the monitoring period, atmospheric pressure appears to have been both rising and falling preceding and during the monitoring rounds undertaken. There does not appear to be any correlation between the recorded carbon dioxide concentrations and atmospheric pressure. It is considered that atmospheric pressure has not impacted the recorded concentrations of carbon dioxide, but that representative worst case scenario data has been obtained.

Gas screening values (GSV) have been calculated for carbon dioxide in accordance with the recommendations contained within C665 and NHBC guidance. To calculate a GSV for the site, the worst case, i.e. the highest concentration value, of recorded carbon dioxide has been used. A value of 6.7% v/v has been used for carbon dioxide. No borehole flow rates were recorded during the monitoring rounds undertaken, CIRIA C665 recommends that when no gas flow rates have been recorded that the gas monitoring instruments limit of detection (0.1l/hr) is used to calculate the GSV so as to be representative of a worst case scenario. Therefore, as no flow rates were recorded a value of 0.1l/hr has been utilised to calculate the GSV.

Using these worst case values a GSV of 0.0067l/hr has been calculated for carbon dioxide for the site. This would classify the site as representative of Characteristic Situation 1 (BS and CIRIA) and Green (NHBC). However, the limiting concentration for carbon dioxide for a Characteristic Situation 1/Green has been exceeded on three occasions with WS06. Therefore, consideration needs to be given to classification of the site as Characteristic Situation 2/Amber 1 gassing regime.

Assessment of the construction of the wells and the underlying ground conditions has shown that all of the response zones of the installed wells were predominantly within the natural soils beneath the site, with the response zone in WS01 intersecting Made Ground from 1.00m to 1.30m bgl then natural soils to 5.00m bgl. Description of these materials has not noted the presence of organic materials or other materials that may give rise to the generation of ground gas. Assessment of likely sources of ground gas has not identified any onsite sources for the significant generation of bulk gases.

Two potential offsite sources of ground gas were identified within the desk study. An old gravel pit (likely Coley Park Gravel Pit) was identified approximately 250m to the north-east and a quarry (likely Southcote Lane Sand Pit) were located 150m south-west. However, it should be noted that residential properties are currently located between these identified potential sources and the subject site. This coupled with the lack of any flow rates identified within any of the boreholes would suggest that gases are not migrating onto the site from these identified adjacent sources.

As such it is considered that the elevated concentrations of carbon dioxide recorded are being produced via

biological respiration within the soils beneath the site and, as such, are from low risk sources.

Given the form of development proposed, further consideration of the site's gassing regime is based on NHBC guidance which relates to housing, whereas CIRIA guidance does not.

The limiting carbon dioxide concentration applied above is based on the 'typical maximum concentration' as defined in Table 14:1 of the NHBC guidance, the footnotes to which state that 'The Typical Maximum Concentrations can be exceeded in certain circumstances should the Conceptual Site Model indicate it is safe to do so'. As described above, carbon dioxide was recorded to exceed 5% within one monitoring location, on three out of eleven occasions over a 12 month period.

It is not mandatory to automatically increase the classification of a site based on elevated gas concentrations. The above assessment of the on-site gas regime has only identified low risk sources of bulk gases on site. It is considered that the source of the monitored carbon dioxide is most likely to be attributable to biological respiration within the soils beneath the site.

It is considered that carbon dioxide is primarily trapped within the soil pore spaces beneath the site. The construction of the monitoring wells could have led to the creation of aerobic conditions within the monitoring wells leading to an increase in carbon dioxide on a very small scale, within the monitoring well not the soil mass, producing the elevated concentrations recorded. The lack of any recorded flow rates suggests that any migration of gas beneath the site is via diffusive flow. However, the majority of identified gas is likely to remain trapped in the soil pores or sorbed to soil particles and is therefore, considered a low risk to buildings or occupants on the site. Therefore, it is not considered necessary to increase the classification of the site's gassing regime based on the marginal exceedances of the 5% concentration for carbon dioxide.

As such, it is considered, based on the above assessment, the low risk sources of bulk permanent gases, diffusive flow conditions, the frequency of the exceedances and the marginality of the exceedances of the limiting concentrations for carbon dioxide, that the entire site is classified as NHBC Green.

The spot monitoring undertaken by Geo-Environmental to date has indicated the site's gassing regime, based on both hazardous gas flow and limiting concentrations, to be Characteristic Situation 1 (CIRIA and BS) and Green (NHBC) for which gas protection measures would not be required.

6.3 Ground Gases vs. Soft Landscaping

No methane has been detected and low concentrations of carbon dioxide have been recorded by the monitoring undertaken to date. In addition, no visible evidence of harm to plants was observed.

As such in the absence of any plausible pollutant linkage for the proposed development areas, it is considered that no specific action is warranted in this respect.

6.4 Ground Gases vs. Adjacent Land Users

Methane has not been detected and carbon dioxide (up to 4.2%) has been identified beneath the site and oxygen concentrations were noted to be representative of atmospheric conditions ranging from 15.8% to 20.0%. The neighbouring land uses were noted to be consistent with the proposed end use comprising a primarily residential land use. As such it is considered that specific measures with respect to the adjacent land users would not be required as part of the proposed development on the subject site. However, in line with best practice, measures should be undertaken on site to ensure that the proposed development does not create potential migration pathways in relation to adjacent land users.

6.5 Soil Contamination vs. End Users

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

A quantitative risk assessment has been undertaken by comparing the results of the laboratory chemical testing of shallow soils against Tier 1 screening criteria in the first instance. These criteria comprise the Atkins ATRISK soil screening values (SSVs), the Suitable for Use Levels (S4ULs) published by LQM (Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3453. All rights reserved) and the Category 4 Screening Levels (C4SLs) published by DEFRA. Although the C4SLs were released for Part 2A use, the associated policy companion document for the C4SLs indicated that they may also be used for planning. Although the C4SLs represent a marginally higher risk level than the SSACs (low risk rather than minimal risk) it is considered that the risk levels remain very low. Therefore, the final C4SLs are considered to be suitable to assess soils under the planning regime.

The exploratory holes were located to provide general coverage of the site in line with the proposed development and soils conditions encountered. Samples were selected to target the areas of Made Ground identified and underlying natural ground and to provide coverage of the site. Analysis was undertaken on soil samples collected from these exploratory holes.

In the first instance the results of the sample analysis were compared to the Tier 1 screening criteria where available. Table 6.1 shows the exceedances identified on site above the respective generic guideline values for a proposed residential land use with plant uptake.

Determinand	Tier 1 Criteria (mg/kg)	Location	Depth	Concentration	Geology
Barium	SSV – 56.8 (1% SOM) SSV – 110 (6% SOM)	TP01 WS01	0.30m bgl 0.50m bgl	59mg/kg 99mg/kg	Made Ground
Asbestos	-	WS01	0.50m bgl	<0.001% w/w Loose Fibres (Chrysotile & Amosite)	Made Ground

Table 6.1 Summary of contaminant exceedance above respective threshold for residential end use

As part of the assessment of reported Barium concentrations, the UK Soil Observatory natural background map was reviewed (extract included in Figure 4), and this indicated natural background concentrations of Barium within the subject site to be 603mg/kg. The reported concentrations of Barium in the Made Ground soils were lower than this background concentration. Given that naturally occurring concentrations in soils are likely to be higher than those reported, it is considered that the reported concentrations in the Made Ground are not indicative of contamination which would require remedial action to protect end users.

Selected samples were submitted for testing for a suite of volatile and semi-volatile organic compounds (VOC and SVOC). No VOC concentrations were recorded above the laboratory limit of detection. The majority of SVOC compounds were also recorded below the laboratory limit of detection with a number of PAHs recorded in excess of the limit of detection but below the relevant Tier 1 assessment criteria.

In addition, chrysotile and amosite asbestos loose fibres were detected at a concentration of <0.001% w/w in a sample of Made Ground obtained from WS01 at 0.50m bgl. It is recommended that further investigation in this area of the site is undertaken to determine the extent of asbestos containing soils. The presence of asbestos elsewhere on site cannot be completely ruled out.

Remediation to break the pollutant linkage of the soils in the area of WS01 would be required. This would likely entail a reduced dig and/or the installation of a cover system within areas of proposed soft landscaping and private gardens within this area of the site where Made Ground is to remain. The exact details of the remedial measures would be dependent on proposed site levels and the economics of disposal of asbestos containing soils. Any cover system would likely range in thickness between 600mm and 1.00m and should incorporate a deter-to-dig membrane overlying a hard to dig layer (e.g. crushed aggregate) where asbestos remains present beneath the site within area of proposed private gardens or communal soft landscaping. The cover system soils should comprise clean, uncontaminated sub-soil finished with clean, uncontaminated Topsoil to a depths of 300mm in private gardens and 150mm in communal soft landscaping.

It should be noted that, within areas where chemical contamination has not been identified, the top 600mm of garden soils and the top 450mm of communal soft landscaping soils should be free from Made Ground and visual contaminants (e.g. brick, plastic, concrete etc.). Therefore, removal of Made Ground from other areas of the site where no chemical contamination was recorded may be required depending on final site levels.

Should Topsoil need to be imported onto site, for use within private gardens and soft landscaped areas of the site, prior to importation, the chemical, physical and nutritional suitability should be verified. Importation of topsoil or subsoil from unverified or unsuitable sources would require their removal from site and replacement with suitable materials. As a matter of good practice, it is recommended that the location, approximate extent and thickness of any imported topsoil are recorded and presented in the Validation/Verification Report to be prepared by the Environmental Consultant.

6.6 Soil Contamination vs. Soft Landscaping

British Standard BS3882:2015 *Specification for topsoil and requirements for use* provides assessment criteria for a number of potentially phytotoxic contaminants in terms of new planting.

The results of the chemical analysis for determinants known to pose a potential phytotoxic risk to plant growth are summarised in Table 6.2, together with the respective adopted Generic Assessment Criteria (GAC) for plant growth. The compliance criteria set out in BS3882:2015 are pH dependent and thus the GAC used relate to the pH range measured on samples recovered from the site.

Determinand	Phytotoxicity GAC (mg/kg)			GAC Exceedances
	pH <6.0	pH 6.0-7.0	pH >7.0	
Zinc	200	200	300	No
Copper	100	135	200	No
Nickel	60	75	110	No

Table 6.2 Summary of Plant Phytotoxicity Assessment

The phytotoxicity assessment did not identify any exceedance against the relevant phytotoxicity criteria. As such it is considered that no specific measures are required in this respect.

6.7 Soil Contamination vs. Built Environment

Recommendations with respect to pH and sulphate in relation to buried concrete are made in Section 5.8.

The current guidance on the selection of materials for water supply pipes to be laid in contaminated land is contained in UK Water Industry Research's (UKWIR) report reference 10/WM/03/21 (re-issued 2010). However, the guidance is not mandatory and there have been concerns raised by various industry technical associations regarding the document and the methodologies proposed.

Elevated TPH (mineral oil carbon banding range) in terms of water supply pipework has been identified within the Made Ground in WS01 and WS04 as such the utility company should be consulted in order to confirm their specific requirements with respect to buried services. Where services are laid within Made Ground PVC pipe or similar is likely to be required for potable water, however where services are laid within the underlying natural soils it is considered that specific protection measures may not be required for potable water supply, subject to an assessment of the mobility of the substances identified and the potential for leaching to occur and the agreement of the water utility provider. As a matter of good practice and to maximise the protection to maintenance workers, it is recommended that clean, granular backfill is used in service runs and that marker tapes are used for all buried services.

6.8 Soil Contamination vs. Adjacent Land Users

Accounting for the recommendations set out in Section 6.5 with respect to end users, it is considered that no long term exposure scenarios exist and thus no specific remedial action is warranted in relation to adjacent land users.

However, short term risks to adjacent land users may arise in relation to the generation of soil derived dust and particles as fugitive emissions from the site during the construction phase. Therefore, it is recommended that dust suppression techniques, e.g. damping down exposed soils, are employed during the ground works and construction phases on site in order to minimise and manage potential nuisance issues for adjacent land users.

6.9 Soil Contamination vs. Groundwater

The investigation did not identify significant concentrations or volumes of mobile contamination and thus in the absence of a pollutant linkage, no further action is warranted at this stage.

Nonetheless, soakaways should not be constructed in/through contaminated soils where those contaminants could then be leached or mobilised and migrate to impact other soils or groundwater.

However, it should be noted that investigation was undertaken whilst the site was operational and no investigation within the domestic garage buildings at the site was undertaken. Should hydrocarbon contamination within the soils or free product be identified beneath the site during demolition or construction this should be reported to the Environmental Consultant in line with the Discovery Strategy detailed in Section 7.0).

6.10 Groundwater Contamination vs. Human Health

The desk study identified that the use of areas of the site for car parking may have resulted in potential for localised, low volume hydrocarbon impacts within the shallow soils. However, while the investigation has identified low concentrations of hydrocarbons beneath areas of the site, significant concentrations or volumes of highly mobile contaminants have not been identified within the soils analysed on the site. Groundwater was not encountered during the investigation and is considered to be present at depth within the Chalk below the site.

Due diligence should be undertaken as a part of the site clearance and development works and if any currently un-identified potential sources of mobile contamination are identified these should then be further assessed in line with the discovery strategy for the site.

End users would not come in to contact with groundwater and thus in the absence of a plausible pollutant linkage between groundwater and end-users, no specific protection measures are considered likely to be required in this respect.

6.11 Groundwater Contamination vs. Soft Landscaping

Groundwater was not recorded during the investigation and no evidence of perched water was identified on the site. As such the depth of the groundwater beneath the site is considered to be outside of the root zone of influence for the soft landscaping on the site. Notwithstanding this, the vegetation on and around the site showed no evidence of stress. As such, it is considered that no specific action is warranted with respect to soft landscaping.

6.12 Groundwater Contamination vs. Built Environment

Protection measures for the Built Environment as discussed in Section 6.7 are considered appropriate.

6.13 Groundwater Contamination vs. Controlled Waters

In the absence of any evidence of significantly volumes or concentrations of mobile contamination and the presence of shallow groundwater beneath the site, no remedial action is considered to be warranted in this respect.

However, should dewatering be required as part of the proposed development then water pumped out will need to be disposed of under the appropriate duty of care and should not be discharge to any watercourses or ditches without an appropriate permission.

6.14 Waste Disposal

The soil analyses from the site were assessed using CatWasteSoil software. All the samples assessed were considered likely to comprise non-hazardous waste. A copy of the CatWasteSoil assessment is presented in Appendix H.

Asbestos loose fibres were detected in a sample from WS01 at 0.50m bgl at a concentration of <0.001% w/w. Based on this asbestos concentration; these soils would be considered non-hazardous waste. However, there is the potential for further asbestos to be present within the Made Ground soils in this location and potentially elsewhere on the site. Where visible asbestos containing materials or loose fibres at a concentration of 0.1% w/w or more are present, such soils would comprise hazardous waste.

Once soils for disposal have been identified on the site it may be prudent to undertake further asbestos, waste characterisation, and waste acceptance criteria (WAC) testing to enable categorisation of the materials for disposal.

In accordance with the CL:AIRE Definition of Waste Code of Practice (2011) materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded by the holder'.

The Code of Practice therefore allows soils to be reused on site where the following criteria are met:

- The soils are required to be used and there is a certainty of use;
- The soils are suitable both in terms of chemical and geotechnical properties for the intended use and do not pose a risk to human health, controlled water or the environment;
- Only the required volume is used and no more.

In order to comply with the Code of Practice, a material management plan that confirms the above criteria are met has to be prepared. The material management plan must be reviewed by a 'Qualified Person' who then issues a declaration to the Environment Agency. Geo-Environmental can provide this service should it be required.

Where materials do not meet the required criteria, it may be possible to treat them under an environmental permit so that they may be re-used on site. In addition, where material is discarded as waste, it may still be possible to reuse the waste on site under a standard rules environmental permit or a U1 waste exemption. However, strict limits on the volumes that can be reused apply in these cases.

Under current legislation, where wastes are to be disposed of to landfill they may, depending on their classification, require pre-treatment. Pre-treatment shall comprise a chemical, physical (including sorting), thermal or biological process. The pre-treatment is required to change the characteristics of the waste, reduce its volume, reduce its hazardous nature, and facilitate its handling and enhance its recovery.

Other materials disposed of from site as part of the development of the site may require disposal separately. All materials containing dangerous substances e.g. tar or bitumen, asbestos, mercury, hydrocarbons, PCBs and asbestos are likely to be classified as Hazardous Waste and therefore susceptible to the relevant legislative controls.

7.0 DISCOVERY STRATEGY

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

Should previously undiscovered contamination or unforeseen ground conditions be encountered during construction by the ground worker's, this should be reported to the site manager immediately in order that the consultant is notified. Where deemed necessary, the consultant shall attend the site to inspect the unexpected soil conditions and provide recommendations on the further actions required, if any. Where necessary the regulatory authority should be informed. Post any additional investigation or laboratory testing the results and any proposed remedial measures should be reported to the regulatory authority for consent, before proceeding or implementing the remedial measures.

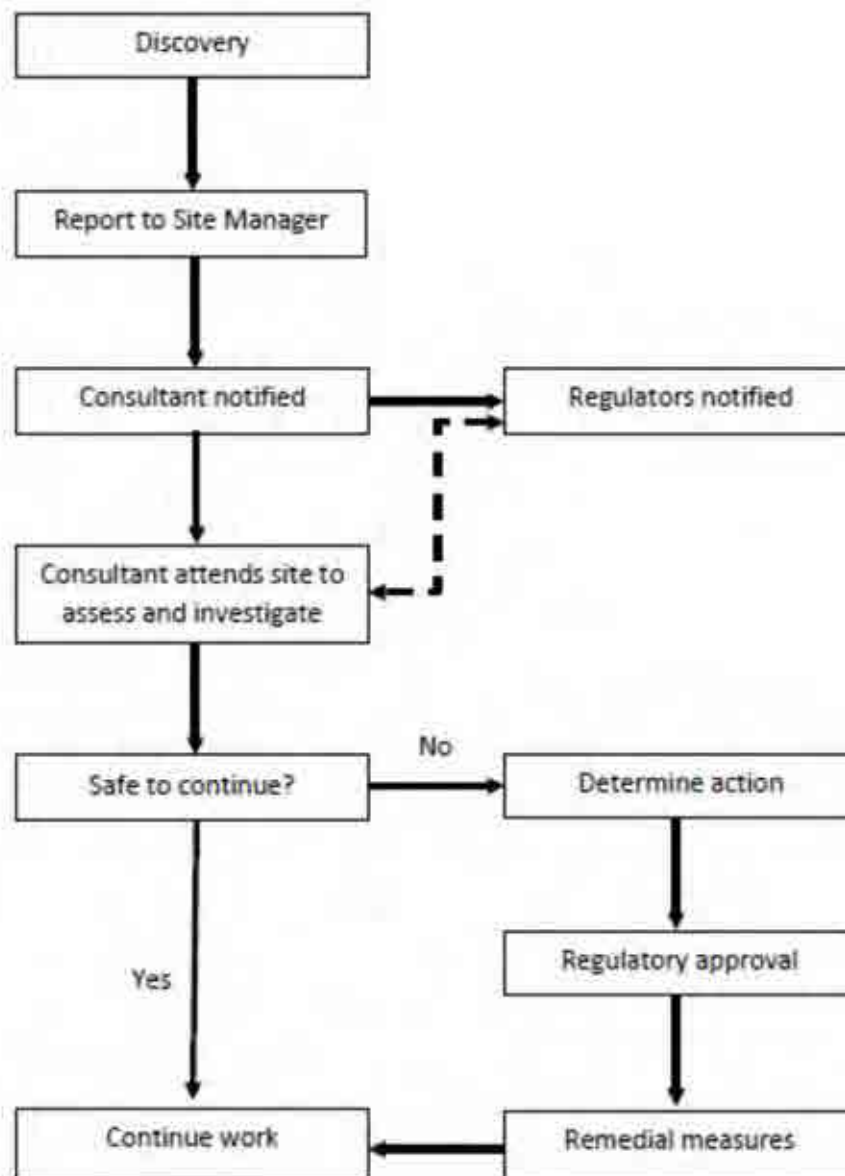
A copy of the discovery strategy should be lodged on site, and provisions made to ensure that all workers are made aware of their responsibility to observe, report, and act on any potentially suspicious, unforeseen or contaminated soils they may encounter.

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

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

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

The process is shown below.

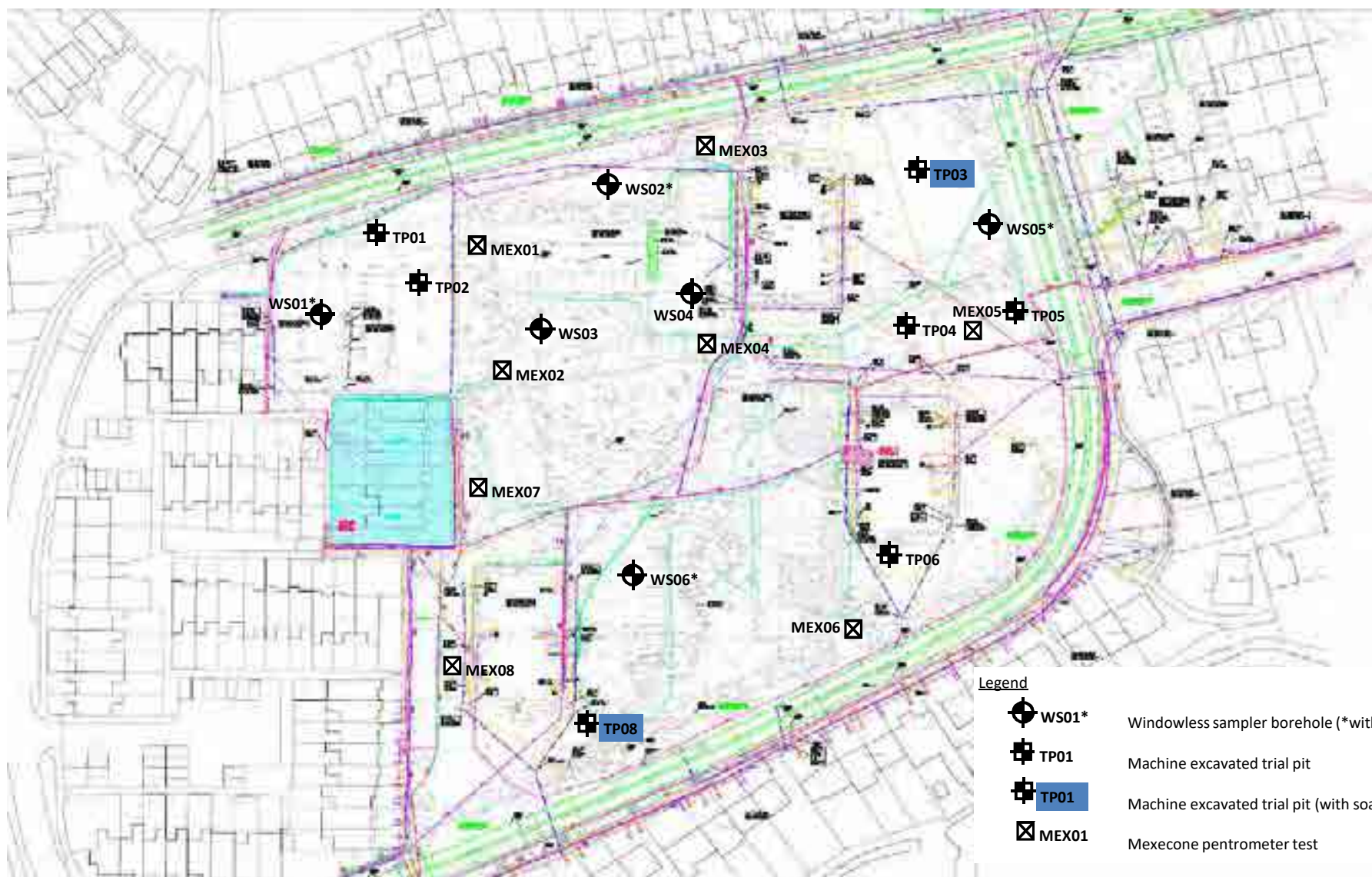


A copy of this strategy will be lodged on site, and provisions made to ensure that all workers are made aware of their responsibility to observe, report, and act on any potentially suspicious or contaminated materials they may encounter.

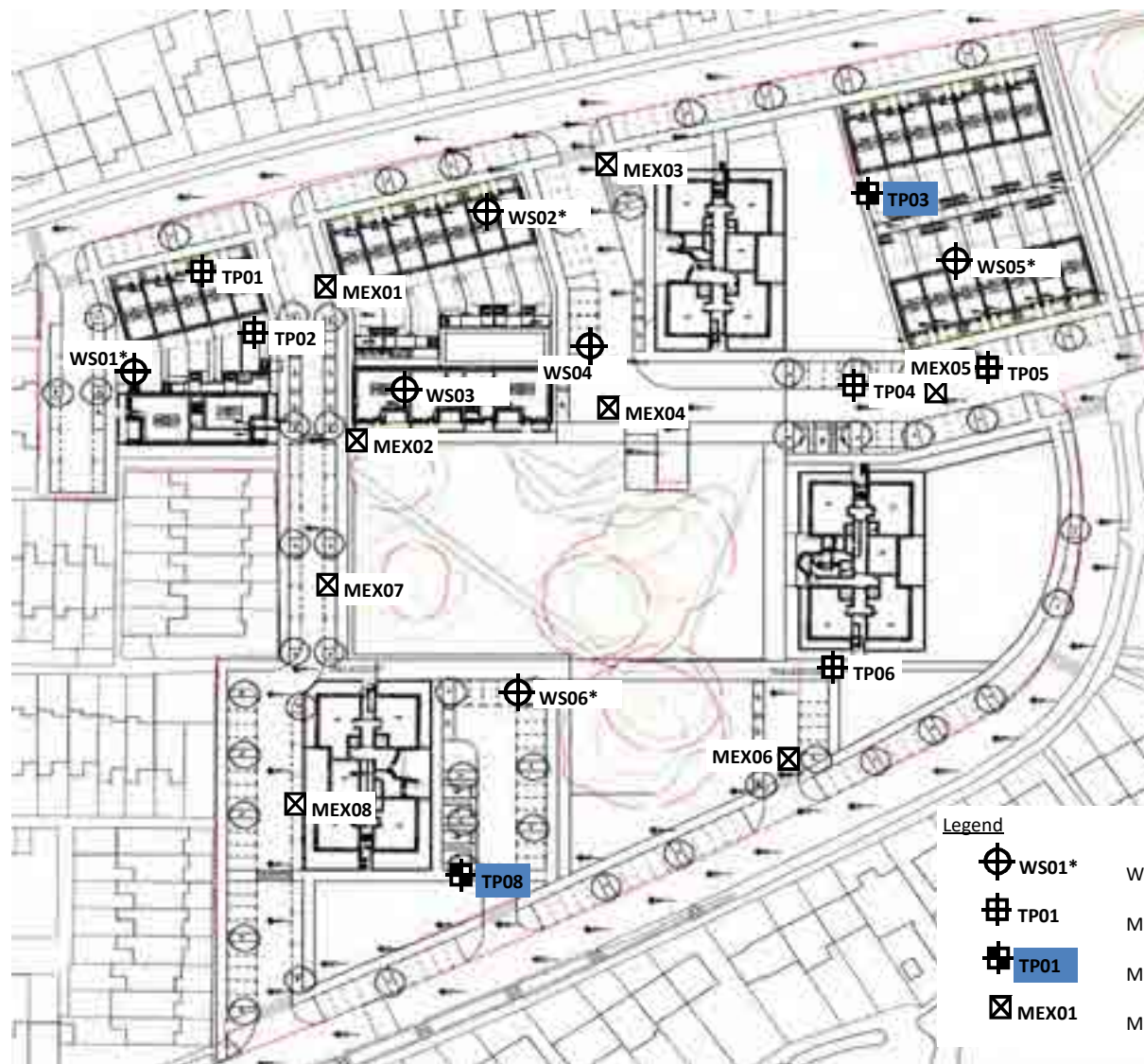


Project:	Wensley Road, Reading, RG1 6DR			Title	Site Location Plan	
Client:	Reading Borough Council			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE18760	Revision:	0			
Drawn:	SA	Date:	11/02/2020			
Figure:	1	Scale:	Not To Scale			

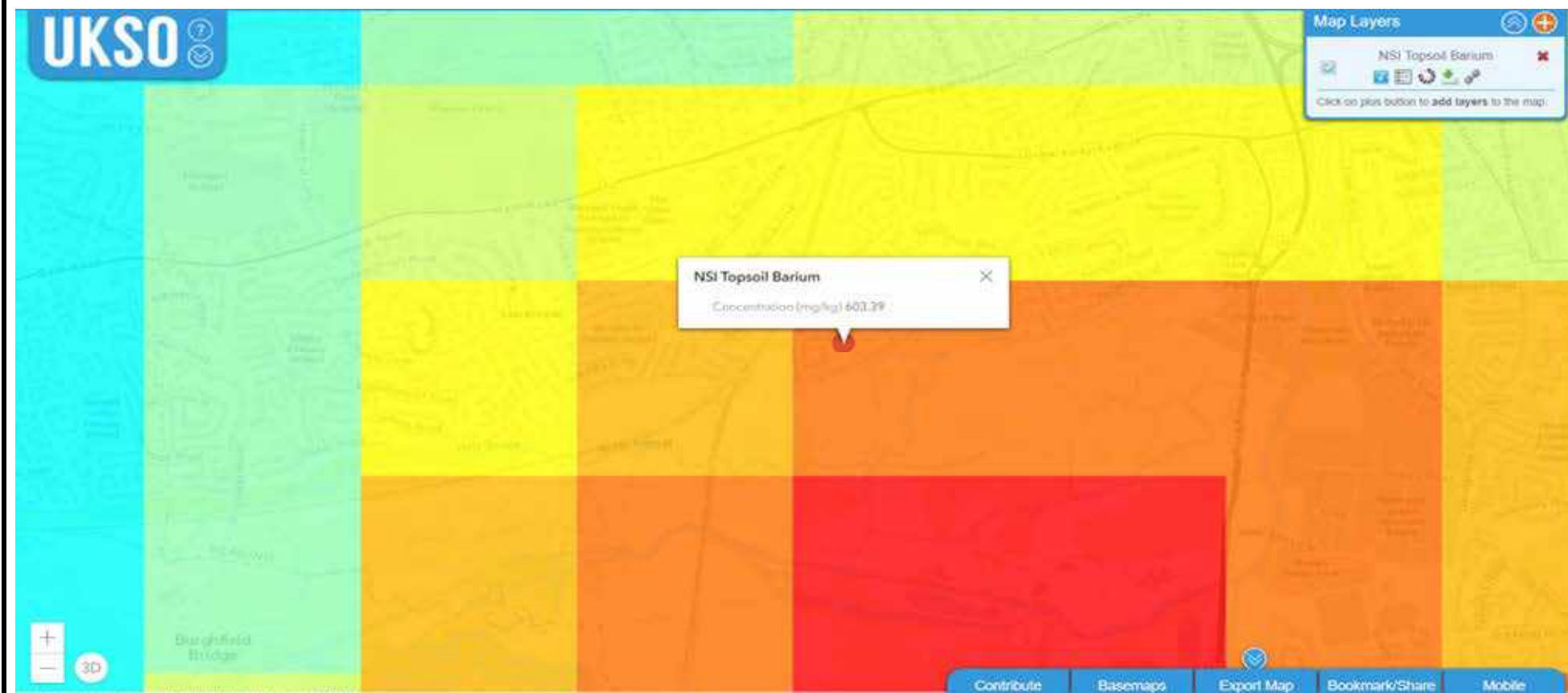




Project:	Wensley Road, Reading, RG1 6DR			Title	Exploratory Hole Location Plan	
Client:	Reading Borough Council			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE18760	Revision:	0			
Drawn:	SA	Date:	23/03/2020			
Figure:	2	Scale:	Not To Scale			



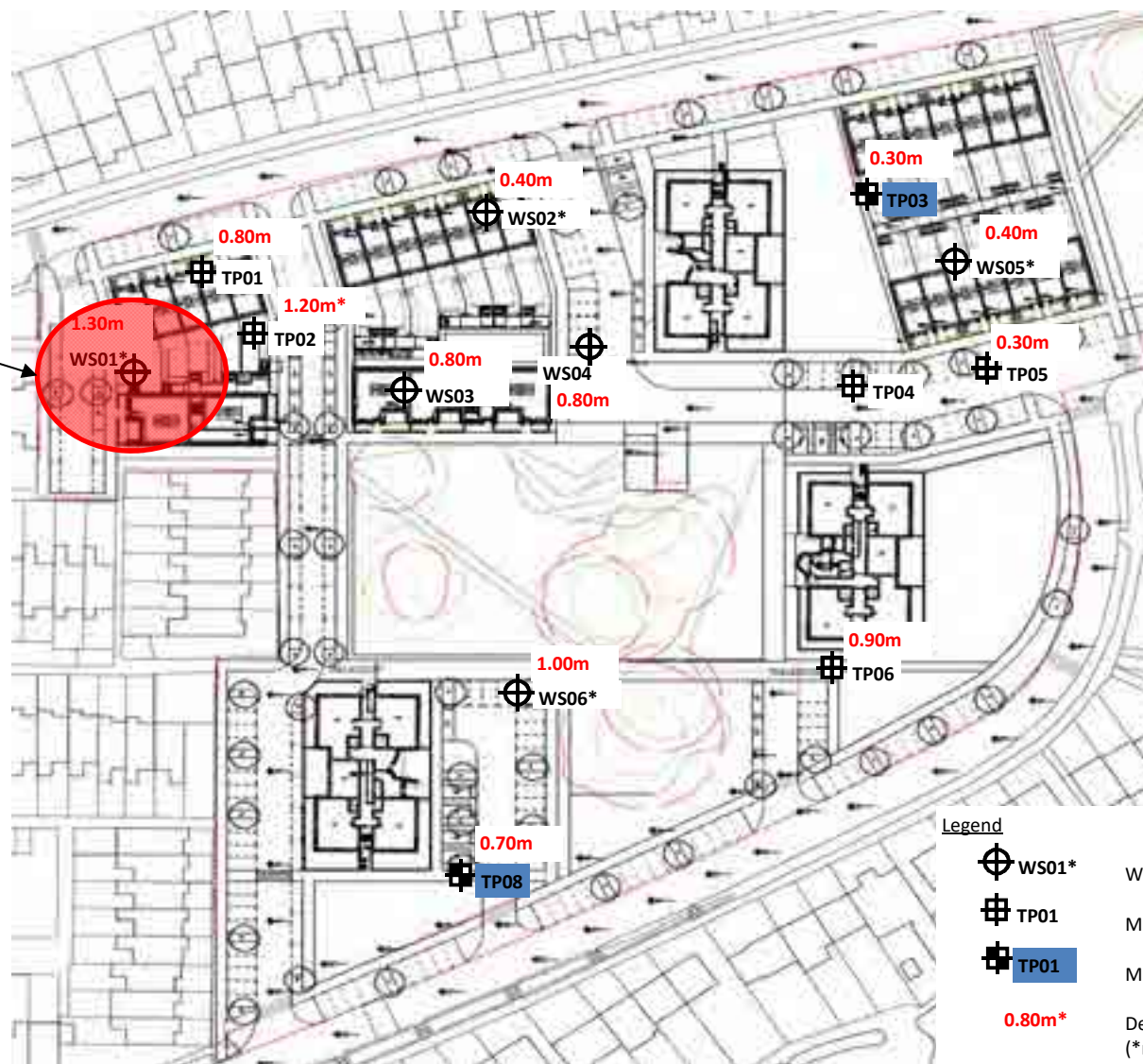
Project:	Wensley Road, Reading, RG1 6DR			Title	Exploratory Hole Location Plan with Proposed Development	
Client:	Reading Borough Council			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE18760	Revision:	0			
Drawn:	SA	Date:	24/03/2020			
Figure:	3	Scale:	Not To Scale			



Project:	Wensley Road, Reading, RG1 6DR			Title	Site Background Chemistry (Barium)	
Client:	Reading Borough Council			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE18760	Revision:	0			
Drawn:	SA	Date:	24/03/2020			
Figure:	4	Scale:	Not To Scale			

WS01 at 0.50m bgl
Asbestos loose fibres
(chrysotile & amosite)
<0.001% w/w

PHASE 1
(not applicable)



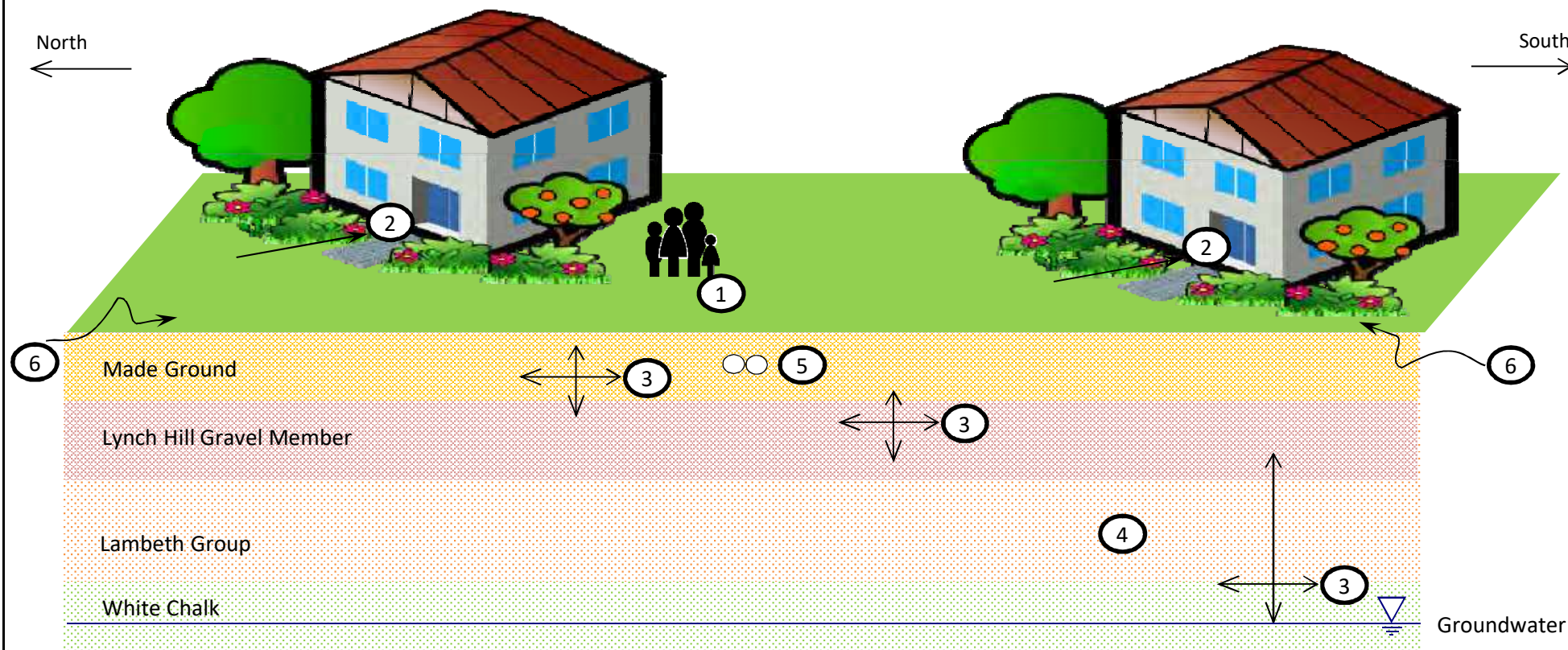
Legend

-  WS01* Windowless sampler borehole (*with standpipe)
-  TP01 Machine excavated trial pit
-  TP01 Machine excavated trial pit (with soakage test)
- 0.80m* Depth of Made Ground encountered (m bgl), (*reworked natural soils)

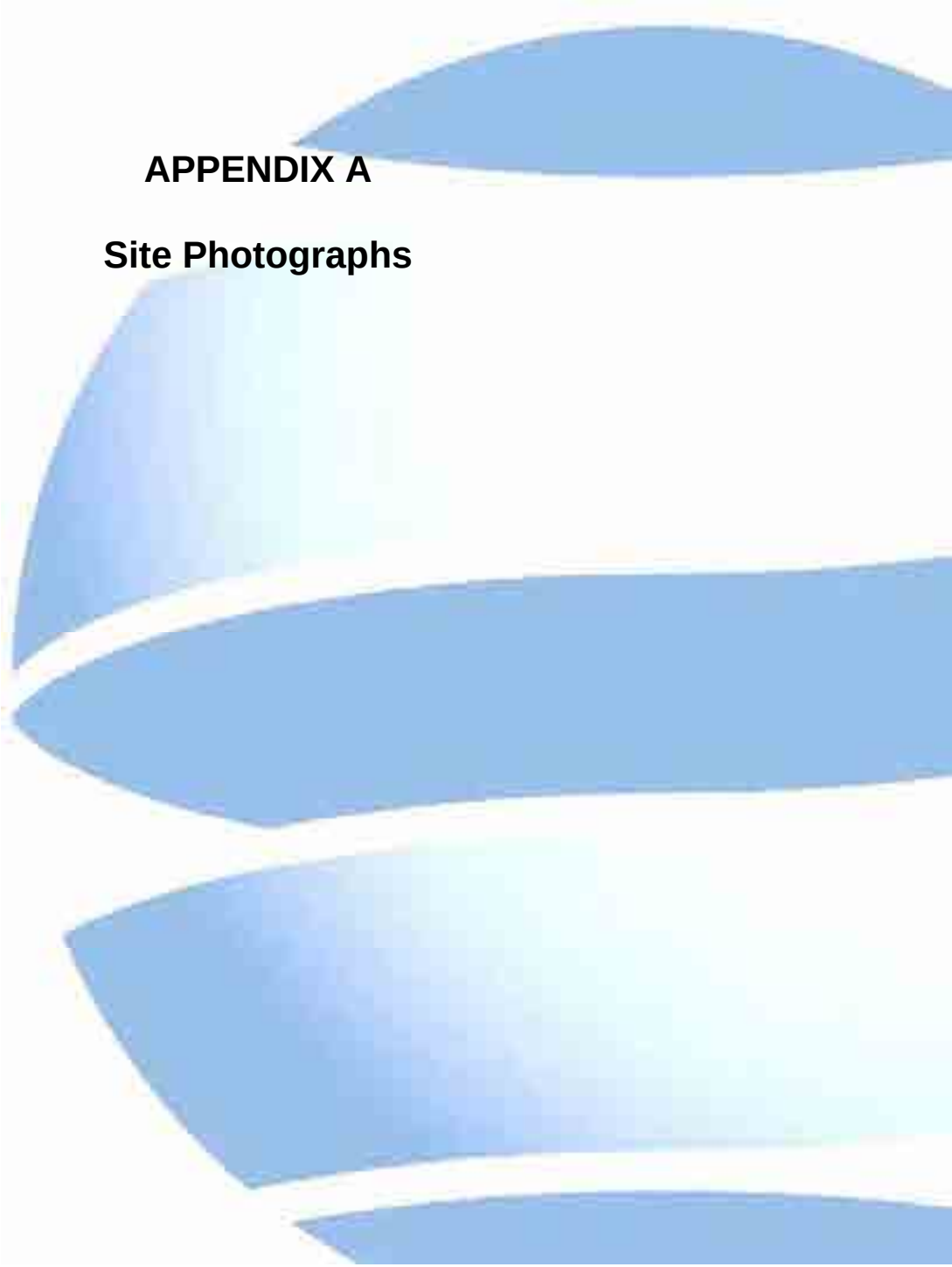
Project:	Wensley Road, Reading, RG1 6DR			Title	Location and depth of Made Ground and Contaminants Encountered	
Client:	Reading Borough Council			 Geo-Environmental Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net		
Ref No:	GE18760	Revision:	0			
Drawn:	SA	Date:	26/03/2020			
Figure:	5	Scale:	Not To Scale			

Possible Pollutant Linkages:

1. Direct contact with contaminated soils, ingestion of contaminated soils
2. Inhalation of soil dusts indoor and outdoor, and inhalation of gases/vapours within buildings
3. Vertical and lateral migration through permeable strata and within groundwater
4. Shallow groundwater vertical and lateral migration
5. Chemical attack of buried plastics and concrete
6. Gas migration from off-site sources (2No. former quarries)



Project:	Wensley Road, Reading, RG1 6DR			Title	Conceptual Site Model (Proposed Development)	
Client:	Reading Borough Council			 Geo-Environmental Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net		
Ref No:	GE18760	Revision:	0			
Drawn:	SA	Date:	26/03/2020			
Figure:	6	Scale:	Not To Scale			

A decorative graphic on the right side of the page consisting of several overlapping, wavy, blue shapes that resemble stylized waves or a modern logo.

APPENDIX A

Site Photographs

Photographic Record

Site Walkover



Plate 1 – View west of south-east corner of the site



Plate 2 – View north of the south-east section of the site



Plate 3 – View north-west across the central area of the site



Plate 4 – View north across the central area of the site



Plate 5 – View north-east across the north-east section of the site



Plate 6 – View north of the north entrance to the site



Plate 7 – View south-west across the centre of the site



Plate 8 – View east across the east of the site



Plate 9 – View north across the north-east area of the site



Plate 10 – View west of the north section of the site



Plate 11 – View east across the north section of the site



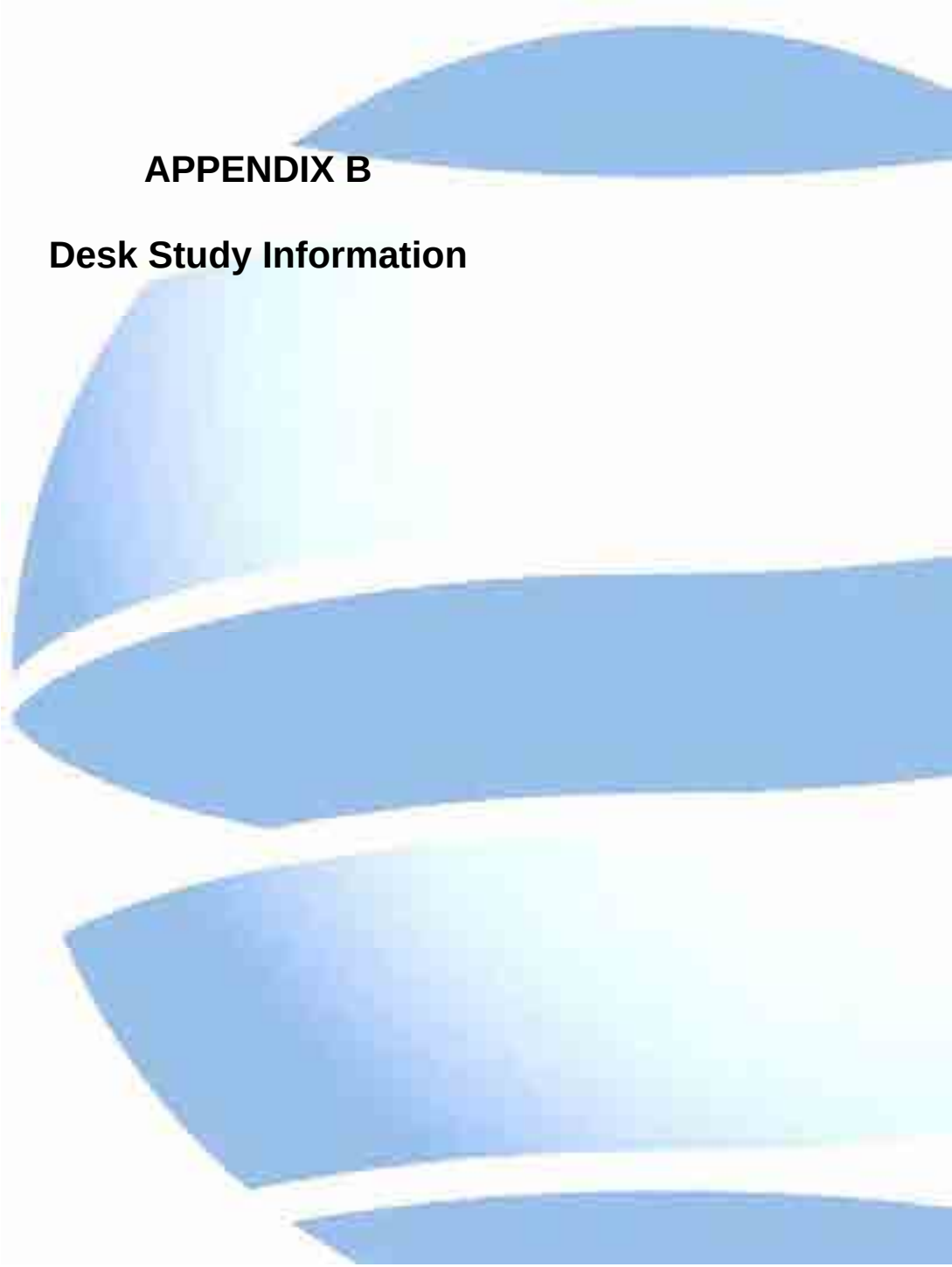
Plate 12 – View south-west across the north-west section of the site



Plate 13 – View south of the garage blocks in the north-west



Plate 14 – View north-east across the north-west section of the site

The background of the page features a series of overlapping, wavy blue shapes that create a sense of movement and depth. These shapes are in various shades of blue, ranging from a deep navy to a lighter, almost white blue, and they are positioned primarily on the right side of the page, extending towards the center.

APPENDIX B

Desk Study Information

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

233825467_1_1

Customer Reference:

GE18760

National Grid Reference:

470060, 171950

Slice:

A

Site Area (Ha):

2.26

Search Buffer (m):

1000

Site Details:

Wensley Road

READING

RG1 6DR

Client Details:

Mr S Armitage

Geo Environmental Services Ltd

Unit 7 Danworth Farm

Cuckfield Road

Hurstpierpoint

West Sussex

BN6 9GL

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	48
Hazardous Substances	-
Geological	51
Industrial Land Use	62
Sensitive Land Use	75
Data Currency	76
Data Suppliers	82
Useful Contacts	83

Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		2	3	8
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				7
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 6			1	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 6		Yes		
Pollution Incidents to Controlled Waters	pg 7				11
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 8				5
River Quality	pg 9		1		1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 10				1
Substantiated Pollution Incident Register	pg 10				1
Water Abstractions	pg 11			2	15 (*18)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 19	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 20	4	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 21	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 21		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 23		Yes	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 24		23	48	141

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 48				2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 48				2
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 48	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 48			2	5
Potentially Infilled Land (Water)	pg 49				5
Registered Landfill Sites	pg 49				4
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 51	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 51	Yes	Yes		Yes
BGS Recorded Mineral Sites	pg 52		1	3	23
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	pg 57				5
Natural Cavities	pg 57			1	12
Non Coal Mining Areas of Great Britain	pg 59	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 59	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 60		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 60	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 60	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 61	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 61	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 62	1	6	6	34
Fuel Station Entries					
Points of Interest - Commercial Services	pg 66				4
Points of Interest - Education and Health	pg 66			4	9
Points of Interest - Manufacturing and Production	pg 67			1	59
Points of Interest - Public Infrastructure	pg 72		1		11
Points of Interest - Recreational and Environmental	pg 73	2	4	3	1
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 75				1
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	0	1	470056 171900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	28	1	470050 172050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	40	1	470000 172050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	45	1	470000 171800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	59	1	470100 172100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	65	1	470056 172100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	77	1	470050 172100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	89	1	470000 172100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	110	1	470150 172150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	159	1	469850 172100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	167	1	469800 172000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	236	1	469850 172200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	251	1	469750 171800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	300	1	469700 171800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (NW)	309	1	469900 172300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	322	1	469650 172050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (NE)	337	1	470400 172250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	344	1	469950 172350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	356	1	469700 171650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	356	1	469900 172350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	359	1	470100 172400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	360	1	469650 171750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	376	1	470350 172350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	441	1	469950 172450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	445	1	469700 172350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	459	1	470150 172500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	459	1	470100 172500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	487	1	470300 172500
1	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Reading, St Savioursreadingst Saviours Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1776 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A13SE (E)	161	2	470300 171900
1	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Reading, St Savioursreadingst Saviours Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1776 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m	A13SE (E)	161	2	470300 171900
2	Discharge Consents Operator: Coley Park Farm Residents Association Ltd. Property Type: CONSTRUCTION OF BUILDINGS Location: Coley Park Farm, Coley, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.0959 Permit Version: 1 Effective Date: 27th June 1986 Issued Date: 27th June 1986 Revocation Date: 7th November 2000 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NW (E)	339	2	470490 171950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: M & M Construction Co. Ltd Property Type: CONSTRUCTION OF BUILDINGS Location: Coley Park Farm, Coley, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0960 Permit Version: 1 Effective Date: 27th June 1986 Issued Date: 27th June 1986 Revocation Date: 27th June 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A14NW (E)	359	2	470510 171950
3	Discharge Consents Operator: M & M Construction Co. Ltd Property Type: CONSTRUCTION OF BUILDINGS Location: Coley Park Farm, Coley, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0961 Permit Version: 1 Effective Date: 27th June 1986 Issued Date: 27th June 1986 Revocation Date: 27th June 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A14NW (E)	409	2	470560 171950
4	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: CONSTRUCTION OF BUILDINGS Location: Land Between Circuit Lane Ps, & Manor Farm Stw, Reading Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cntm.0373 Permit Version: 1 Effective Date: 24th June 1992 Issued Date: 24th June 1992 Revocation Date: 29th October 1992 Discharge Type: Miscellaneous Discharges - Mine / Groundwater As Raised Discharge: Freshwater Stream/River Environment: Receiving Water: Foudry Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	606	2	469500 171500
5	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Fobney Water Treatment Works, Rose Kiln Lane, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Caws.0013 Permit Version: 1 Effective Date: 21st July 2004 Issued Date: 21st July 2004 Revocation Date: 31st August 2004 Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Kennet And Avon Canal Status: New Consent (Water Industry Act 1991, Section 166) Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	720	2	470360 171220

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Thames Water Utilities Limited. Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Fobney Water Treatment Works, Rose Kiln Lane, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CATS.0028 Permit Version: 1 Effective Date: 18th October 1996 Issued Date: 18th October 1996 Revocation Date: 31st December 1996 Discharge Type: Miscellaneous Discharges - Mine / Groundwater As Raised Discharge: Freshwater Stream/River Environment: Receiving Water: Kennet And Avon Canal Status: New Consent (Water Industry Act 1991, Section 166) Positional Accuracy: Located by supplier to within 10m	A8SE (S)	735	2	470310 171180
7	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Bath Road Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0019 Permit Version: 1 Effective Date: 15th September 1989 Issued Date: 15th September 1989 Revocation Date: 5th October 2000 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: River Kennet Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A18NE (N)	762	2	470200 172800
8	Discharge Consents Operator: Rmc Materials Limited Property Type: MINERAL/GRAVEL EXTRACTION/QUARRYING Location: Burghfield Quarry, Smallmead Farm, Cottage Lane, Pingewood, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CATM.2642 Permit Version: 1 Effective Date: 5th February 1997 Issued Date: 5th February 1997 Revocation Date: 8th August 2000 Discharge Type: Trade Discharge - Mineral Workings Discharge: Freshwater Stream/River Environment: Receiving Water: Loop Of Kennet And Avon Canal Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8SW (S)	766	2	469820 171100
9	Discharge Consents Operator: Environment Agency - Thames Region Property Type: FISH + AQUACULTURE/FISH FARM/CRESS FARM Location: Fobney Fish Farm, Fobney Mead, Rose Kiln Lane, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CSSM.0003 Permit Version: 1 Effective Date: 4th September 1997 Issued Date: 4th September 1997 Revocation Date: 2nd November 2010 Discharge Type: Discharge Of Other Matter-Fish Farm Discharge: Freshwater Stream/River Environment: Receiving Water: River Kennet Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	940	2	470605 171100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Environment Agency - Thames Region Property Type: FISH + AQUACULTURE/FISH FARM/CRESS FARM Location: Fobney Fish Farm, Fobney Mead, Rose Kiln Lane, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Csm.0003 Permit Version: 2 Effective Date: 3rd November 2010 Issued Date: 3rd November 2010 Revocation Date: 20th July 2012 Discharge Type: Discharge Of Other Matter-Fish Farm Discharge: Freshwater Stream/River Environment: Receiving Water: River Kennet Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	945	2	470624 171106
9	Discharge Consents Operator: Thames Water Utilities Limited. Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Fobney Water Treatment Works, Rose Kiln Lane, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CATS.0029 Permit Version: 1 Effective Date: 18th October 1996 Issued Date: 18th October 1996 Revocation Date: 31st December 1996 Discharge Type: Miscellaneous Discharges - Mine / Groundwater As Raised Discharge: Freshwater Stream/River Environment: Receiving Water: River Kennet Status: New Consent (Water Industry Act 1991, Section 166) Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	949	2	470570 171070
10	Integrated Pollution Prevention And Control Name: Novera Energy Generation No. 1 Limited Location: Burghfield Landfill Gas Utilisation Site Epr/Ep3038gh/V004, Burghfield Landfill Site, Island Road,,, READING, Berkshire, RG2 0RP Authority: Environment Agency - South East Region, West Thames Area Permit Reference: HP3033JX Original Permit Ref: Ep3038gh Effective Date: 21st November 2017 Status: Effective Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 100m Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: Y	A2NE (S)	991	2	469700 170900
10	Integrated Pollution Prevention And Control Name: Novera Energy Generation No. 1 Limited Location: Burghfield Landfill Gas Utilisation Site Epr/Ep3038gh/V004, Burghfield Landfill Site, Island Road,,, READING, Berkshire, RG2 0RP Authority: Environment Agency - South East Region, West Thames Area Permit Reference: WP3935ZF Original Permit Ref: Ep3038gh Effective Date: 5th April 2013 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: Y	A2NE (S)	991	2	469700 170900
10	Integrated Pollution Prevention And Control Name: Novera Energy Generation No 1 Limited Location: Burghfield Landfill Gas Utilisation Site, Burghfield Landfill Site, Island Road,,, READING, Berkshire, RG2 0RP Authority: Environment Agency - South East Region, West Thames Area Permit Reference: EP3633FF Original Permit Ref: Ep3038gh Effective Date: 6th April 2011 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: Y	A2NE (S)	991	2	469700 170900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Integrated Pollution Prevention And Control Name: Novera Energy Generation No 1 Limited Location: Burghfield Landfill Gas Utilisation Site, Burghfield Landfill Site, Island Road,,, READING, Berkshire, RG2 0RP Authority: Environment Agency, Thames Region Permit Reference: EP3633FF Original Permit Ref: Ep3038gh Effective Date: 6th April 2011 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: Y	A2NE (S)	991	2	469700 170900
10	Integrated Pollution Prevention And Control Name: Novera Energy Generation No 1 Limited Location: Burghfield Landfill Gas Utilisation Site, Burghfield Landfill Site, Island Road,,, READING, Berkshire, RG2 0RP Authority: Environment Agency - South East Region, West Thames Area Permit Reference: VP3637TS Original Permit Ref: Ep3038gh Effective Date: 17th September 2010 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: Y	A2NE (S)	991	2	469700 170900
10	Integrated Pollution Prevention And Control Name: Novera Energy Generation No 1 Limited Location: Burghfield Landfill Gas Utilisation Site, Burghfield Landfill Site, Island Road,,, READING, Berkshire, RG2 0RP Authority: Environment Agency, Thames Region Permit Reference: VP3637TS Original Permit Ref: Ep3038gh Effective Date: 17th September 2010 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: Y	A2NE (S)	991	2	469700 170900
10	Integrated Pollution Prevention And Control Name: Novera Energy Generation No 1 Limited Location: Burghfield Landfill Gas Utilisation Site, Burghfield Landfill Site, Island Road,,, READING, Berkshire, RG2 0RP Authority: Environment Agency - South East Region, West Thames Area Permit Reference: EP3038GH Original Permit Ref: Ep3038gh Effective Date: 6th July 2009 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (B) (III) Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Primary Activity: Y	A2NE (S)	991	2	469700 170900
11	Local Authority Pollution Prevention and Controls Name: Maff Location: Government Buildings, Coley Park, READING, Berkshire, RG1 6DT Authority: Reading Borough Council, Environmental Health Department Permit Reference: Epa/Par.B/2/91 Dated: 14th April 1993 Process Type: Local Authority Air Pollution Control Description: PG5/3 Animal carcass incineration processes under 1 tonne an hour Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	417	3	470452 172313
	Nearest Surface Water Feature	A13SE (SE)	39	-	470126 171860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 16th August 1997 Incident Reference: THWE1997028854 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	544	2	470001 171301
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 20th August 1992 Incident Reference: WE920500 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	580	2	469800 171300
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: SOUTHCOTE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 30th May 1993 Incident Reference: WE930172 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	606	2	469500 171500
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 29th April 1994 Incident Reference: WE940133 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	778	2	469300 171500
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Fobney Lock Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 25th March 1993 Incident Reference: WE930096 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	800	2	470400 171150
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 8th June 1992 Incident Reference: WE920342 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	894	2	470500 171095

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 16th November 1993 Incident Reference: WE930337 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	936	2	471000 172400
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: SOUTHCOTE Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 10th July 1992 Incident Reference: WE920413 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	950	2	469300 171200
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: SOUTHCOTE Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 4th November 1993 Incident Reference: WE930374 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	954	2	469300 171195
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Southcote Lock Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 10th March 1993 Incident Reference: WE930075 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	966	2	469200 171300
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Coley Park, READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Not Supplied Incident Date: 1st February 1989 Incident Reference: WE890106 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A20SW (E)	999	2	471100 172300
22	Registered Radioactive Substances Name: Classic Hospitals Ltd Location: Dunedin Hospital, Bath Road, Reading, RG1 6NQ Authority: Environment Agency, Thames Region Permit Reference: CB6194 Dated: 19th September 2007 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A19NW (NE)	862	2	470478 172832

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Registered Radioactive Substances Name: Classic Hospitals Ltd Location: Dunedin Hospital, Bath Road, READING, RG1 6NQ Authority: Environment Agency, Thames Region Permit Reference: Bz4241 Dated: 10th August 2005 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A19NW (NE)	862	2	470478 172832
22	Registered Radioactive Substances Name: Classic Hospitals Ltd Location: Dunedin Hospital, Bath Road, READING, RG1 6NQ Authority: Environment Agency, Thames Region Permit Reference: Bz4250 Dated: 10th August 2005 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A19NW (NE)	862	2	470478 172832
22	Registered Radioactive Substances Name: British United Provident Association Ltd Location: Dunedin Hospital, Bath Road, Reading, Berkshire, RG1 6NQ Authority: Environment Agency, Thames Region Permit Reference: Bu1873 Dated: 11th March 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A19NW (NE)	862	2	470478 172832
22	Registered Radioactive Substances Name: British United Provident Association Ltd Location: Dunedin Hospital, Bath Road, Reading, Berkshire, RG1 6NQ Authority: Environment Agency, Thames Region Permit Reference: Bu1890 Dated: 11th March 2003 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A19NW (NE)	862	2	470478 172832
	River Quality Name: Holy Bk GQA Grade: River Quality B Reach: Kennet - Kennet Estimated Distance (km): 9.3 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13SW (S)	33	2	470051 171810
	River Quality Name: Kennet GQA Grade: River Quality B Reach: Sulhamstead Strm - Foudry Bk Estimated Distance (km): 8.3 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A8SW (S)	608	2	470021 171234

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	River Quality Chemistry Sampling Points Name: Kennet Reach: Sulhamstead Stream To Foudry Brook Estimated Distance: 8.30 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A8SE (S)	749	2	470333 171175
24	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, South East Area Incident Date: 18th February 2009 Incident Reference: 654839 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Oils - Unknown	A8SE (S)	753	2	470330 171170

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Water Abstractions Operator: Network Rail Infrastr Ltd Licence Number: 28/39/22/0266 Permit Version: 101 Location: Railtrack Property, Southcote, Reading Authority: Environment Agency, Thames Region Abstraction: Transport: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Southcote, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd February 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	423	2	469600 171700
25	Water Abstractions Operator: Railtrack Gw Licence Number: 28/39/22/0266 Permit Version: 100 Location: Railtrack Property, Southcote, Reading Authority: Environment Agency, Thames Region Abstraction: Transport: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 909 Yearly Rate (m3): 250030 Details: Southcote, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	423	2	469600 171700
26	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh E' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SE (S)	713	2	470300 171200
26	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'E' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	713	2	470300 171200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0435 Permit Version: 100 Location: Kennet And Avon Canal At Fobney Waterworks Intake Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 72736 Yearly Rate (m3): 26621376 Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th April 1977 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SE (S)	713	2	470300 171200
27	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh F' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	746	2	470380 171200
27	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'F' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	746	2	470380 171200
28	Water Abstractions Operator: Environment Agency Licence Number: 28/39/22/0527 Permit Version: 100 Location: Kennet And Avon Canal At Fobney Fish Farm Intakes Authority: Environment Agency, Thames Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 12730 Yearly Rate (m3): 2382154 Details: Fobney Mead, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	818	2	470420 171140

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Water Abstractions Operator: Environment Agency Licence Number: 28/39/22/0527 Permit Version: 101 Location: Kennet And Avon Canal At Fobney Fish Farm Intakes Authority: Environment Agency, Thames Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Fobney Mead, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	845	2	470460 171130
29	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh G' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	834	2	470610 171230
29	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'G' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	834	2	470610 171230
30	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh C' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	876	2	470680 171230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'C' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	876	2	470680 171230
31	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh H' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	944	2	470660 171130
31	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'H' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	944	2	470660 171130
32	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'B' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	957	2	470770 171200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh B' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	972	2	470770 171180
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'A' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 30000 Yearly Rate (m3): 1500000 Details: Annual Abstraction Total Aggregated To Another Licence For Quantity Purposes. Chalk (Undifferentiate) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	1012	2	470850 171200
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh A' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	1020	2	470840 171180
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh D' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	1127	2	470970 171160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'D' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	1127	2	470970 171160
	Water Abstractions Operator: Birse Construction Ltd Licence Number: 28/39/22/0552 Permit Version: Not Supplied Location: Coley, READING Authority: Environment Agency, Thames Region Abstraction: Industrial Processing (Miscellaneous) Abstraction Type: Not Supplied Source: River Daily Rate (m3): 3 Yearly Rate (m3): 318 Details: Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SW (E)	1219	2	471300 172400
	Water Abstractions Operator: Wyncote Developments Plc Licence Number: 28/39/22/0555 Permit Version: Not Supplied Location: Rose Kiln Lane, READING, Berkshire Authority: Environment Agency, Thames Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 864 Yearly Rate (m3): 315360 Details: Chalk (Undifferentiated) Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10SW (SE)	1454	2	471400 171200
	Water Abstractions Operator: Southern Electricity Board Licence Number: 28/39/22/0432 Permit Version: 100 Location: Seb Cottage Lane, Burghfield Authority: Environment Agency, Thames Region Abstraction: Commercial/Industrial/Public Services: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): 9 Details: Cottage Lane, Burghfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th July 1976 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SE (SW)	1472	2	469400 170500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Kennet Valley Park Ltd Licence Number: 28/39/22/0463 Permit Version: 101 Location: Pingewood Business Estate, Smallmead Road, Reading Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 23 Yearly Rate (m3): 6819 Details: Pingewood Business Park Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1668	2	469900 170180
	Water Abstractions Operator: Kennet Valley Park Ltd Licence Number: 28/39/22/0463 Permit Version: 101 Location: Pingewood Business Estate, Smallmead Road, Reading Authority: Environment Agency, Thames 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: Pingewood Business Estate Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1668	2	469900 170180
	Water Abstractions Operator: Primark Stores Limited Licence Number: 28/39/23/0042 Permit Version: 101 Location: Cheapside, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Retail: Drinking, Cooking, Sanitary, Washing, (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 41 Yearly Rate (m3): 14933 Details: Cheapside, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25NW (NE)	1806	2	471200 173500
	Water Abstractions Operator: Oracle Shopping Centre Ltd Licence Number: 28/39/22/0594 Permit Version: 1 Location: St.Giles Stream At The Oracle Centre, Reading Authority: Environment Agency, Thames Region Abstraction: Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Oracle Shopping Centre, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th February 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1829	2	471590 173150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: D G Dixon Licence Number: 28/39/22/0339 Permit Version: Not Supplied Location: Searl's Farm, BURGHFIELD Authority: Environment Agency, Thames Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 13 Yearly Rate (m3): 3982 Details: River Gravel; Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1SW (SW)	1869	2	468700 170500
	Water Abstractions Operator: West Berkshire Health Authority Licence Number: 28/39/23/0181 Permit Version: 100 Location: Battle Hospital, Oxford Road, Reading Authority: Environment Agency, Thames Region Abstraction: Hospitals: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 400 Yearly Rate (m3): 136875 Details: Battle Hospital Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1889	2	469800 173900
	Water Abstractions Operator: Clean Linen Services Ltd Licence Number: 28/39/22/0525 Permit Version: 101 Location: Darwin Close, Whitley, Reading Authority: Environment Agency, Thames Region Abstraction: Industrial; Commercial And Public Services: Laundry Use Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 655 Yearly Rate (m3): 181840 Details: Darwin Close, Whitley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5SW (SE)	1912	2	471300 170400
	Water Abstractions Operator: The Prudential Assur. Com. Ltd Licence Number: 28/39/22/0276 Permit Version: 101 Location: Smallmead Farm, Pingewood Authority: Environment Agency, Thames Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 23 Yearly Rate (m3): 8501 Details: Smallmead Farm, Pingewood Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 30th July 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1918	2	470090 169930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Clean Linen Services Ltd Licence Number: 28/39/22/0612 Permit Version: 1 Location: Darwin Close, Whitley, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Industrial; Commercial And Public Services: Laundry Use Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Darwin Close Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5SW (SE)	1941	2	471360 170410
	Water Abstractions Operator: Reading Football Club Plc Licence Number: 28/39/22/0644 Permit Version: 1 Location: Madejski Stadium Complex - 424 Wellpoints Authority: Environment Agency, Thames Region Abstraction: Environmental: Pump & Treat: General Use (Low Loss) Abstraction Type: Water may be abstracted from any point within an area 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: 28th July 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1963	2	470720 170020
	Water Abstractions Operator: Network Rail Infrastructure Limited Licence Number: Th/039/0023/032 Permit Version: 1 Location: Berkshire Downs Chalk At Cow Lane, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Transfer Between Sources Abstraction Type: Water may be abstracted from any point within an area Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 28 January Authorised End: 30 June Permit Start Date: 28th January 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1980	2	470359 174009
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: Medium	A13NW (NW)	0	4	470000 172000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial: <90% Patchiness: <3m Superficial Thickness: Medium Superficial Recharge:	A13NW (N)	0	4	470056 172000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial: <90% Patchiness: 3-10m Superficial Thickness: Medium Superficial Recharge:	A13NW (W)	0	4	470000 171951
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial: <90% Patchiness: 3-10m Superficial Thickness: Medium Superficial Recharge:	A13NW (E)	0	4	470056 171951
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial: <90% Patchiness: 3-10m Superficial Thickness: Medium Superficial Recharge:	A13SE (SE)	0	4	470095 171896
	Groundwater Vulnerability - Soluble Rock Risk Classification: Very Significant Risk - High Possibility	A13NW (W)	0	4	470000 171951
	Groundwater Vulnerability - Soluble Rock Risk Classification: Very Significant Risk - High Possibility	A13NW (E)	0	4	470056 171951
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A13NW (NW)	0	4	470000 172000
	Groundwater Vulnerability - Soluble Rock Risk Classification: Very Significant Risk - High Possibility	A13NW (N)	0	4	470056 172000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SE (SE)	0	4	470095 171896
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (W)	0	4	470000 171951
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (E)	0	4	470056 171951
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	35	2	470099 171851
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	49	2	470114 171847
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (E)	78	2	470211 171894
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	94	2	470226 171887
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	97	2	470223 171875
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (E)	100	2	470231 171884
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	103	2	470234 171883
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	124	2	469939 171736
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	127	2	469934 171735
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	136	2	469931 171727
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	151	2	469899 171731
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (E)	156	2	470295 171899
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	160	2	469955 171691
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	161	2	469951 171692

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	163	2	469959 171687
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	164	2	469955 171687
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	170	2	469919 171695
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	171	2	469915 171696
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	172	2	469923 171691
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	173	2	469919 171691
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (E)	177	2	470307 171867
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	179	2	469927 171681
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	179	2	469931 171679
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	180	2	469975 171666
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	182	2	469931 171676
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	182	2	469935 171675
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	183	2	469983 171663
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	184	2	469939 171671
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	185	2	469935 171671
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	185	2	469983 171661

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	187	2	469987 171659
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (SE)	190	2	470219 171743
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	215	2	470015 171631
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	215	2	470011 171631
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	217	2	470015 171629
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	219	2	470019 171627
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	223	2	470019 171623
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	224	2	470027 171623
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (S)	226	2	470004 171619
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	226	2	469772 171800
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NW (S)	248	2	470051 171604
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A8NW (S)	249	2	470055 171603
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NW (S)	250	2	470055 171602
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	36	2	470099 171851
	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
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 181.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	42	5	470126 171857
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 216.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SE (SE)	43	5	470101 171847
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SE (SE)	44	5	470111 171850
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SE (SE)	46	5	470117 171852
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	48	5	470122 171852
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	77	5	470122 171819
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SW (SW)	133	5	469934 171729
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 115.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 2	A13SE (SE)	146	5	470263 171846
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (S)	150	5	470130 171742

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (S)	150	5	470130 171742
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (E)	150	5	470280 171871
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 114.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SW (SW)	163	5	469888 171725
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SW (SW)	163	5	469888 171725
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (S)	165	5	470086 171704
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SW (SW)	166	5	469883 171725
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 140.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (E)	174	5	470302 171863
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1047.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (E)	176	5	470309 171874
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 252.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (SE)	184	5	470239 171764

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SW (SW)	203	5	469829 171733
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SW (S)	215	5	469956 171634
53	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 8.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (E)	216	5	470353 171882
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 212.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (E)	224	5	470361 171883
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SE (S)	230	5	470129 171652
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	251	5	469755 171777
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SW (SW)	252	5	469768 171742
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	256	5	469748 171784
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	270	5	469767 171706

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 302.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	270	5	469767 171706
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	276	5	469760 171707
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	282	5	469759 171696
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	286	5	470104 171580
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	288	5	470102 171577
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	290	5	470063 171560
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	293	5	470063 171560
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	304	5	470134 171574
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	304	5	470148 171578

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 980.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A8NE (S)	305	5	470088 171540
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	309	5	469766 171641
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (SW)	309	5	469692 171792
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	309	5	469766 171641
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A8NE (S)	312	5	470164 171579
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 257.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8NE (S)	312	5	470164 171579
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (SW)	314	5	469715 171708
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A8NE (S)	314	5	470161 171576
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 96.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	344	5	470118 171523

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (SW)	345	5	469680 171710
79	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: Thames Primacy: 1	A12SE (SW)	346	5	469720 171639
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (SW)	350	5	469715 171639
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (SW)	360	5	469661 171717
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 465.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	377	5	470121 171489
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A14SW (SE)	381	5	470403 171645
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A14SW (SE)	382	5	470402 171643
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A14SW (SE)	382	5	470405 171646
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 296.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A14SW (SE)	385	5	470408 171646

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 387.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (SW)	396	5	469619 171728
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A14SW (E)	413	5	470561 171926
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 166.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	413	5	470561 171926
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	423	5	470571 171924
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	424	5	470573 171927
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 219.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	429	5	470113 171429
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 120.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8NE (S)	434	5	470117 171428
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	440	5	470589 171930
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	447	5	470596 171932

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SW)	456	5	469730 171476
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 437.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SW)	467	5	469727 171464
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SW)	467	5	469727 171464
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	475	5	469711 171466
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	476	5	469709 171467
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (SE)	490	5	470350 171473
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8NE (SE)	491	5	470350 171472
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (SE)	491	5	470350 171472
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (SE)	505	5	470358 171460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 142.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	538	5	470663 171797
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 292.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	544	5	470135 171318
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 208.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	544	5	470120 171315
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	550	5	469561 171511
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	567	5	469571 171472
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 233.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	581	5	469566 171456
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NE (SW)	581	5	469566 171456
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	582	5	470524 171483
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	587	5	470555 171506

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	588	5	470489 171446
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	589	5	470740 171990
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 358.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	589	5	470740 171990
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	597	5	470749 171980
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	597	5	469961 171249
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 190.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	600	5	470751 171976
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 321.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A14SW (E)	613	5	470705 171689
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	613	5	470414 171368
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 142.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	619	5	470420 171359

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 463.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 1	A8SW (S)	622	5	469793 171258
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 384.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A7NE (SW)	625	5	469666 171315
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 285.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	629	5	470500 171403
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 125.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 2	A8SW (SW)	629	5	469767 171260
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 181.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	642	5	470535 171414
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	665	5	470773 171720
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A9NW (SE)	673	5	470411 171298
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A9NW (SE)	676	5	470407 171292
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 198.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A9NW (SE)	679	5	470403 171287

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 2	A8SW (S)	681	5	469844 171181
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 2	A8SW (S)	681	5	469875 171175
134	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	683	5	470800 171748
135	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	686	5	470803 171750
136	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 13.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	686	5	470803 171750
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	696	5	470815 171753
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	698	5	470611 171405
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SE (S)	700	5	470233 171186
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	709	5	470598 171379

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 323.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 1	A8SE (S)	712	5	470218 171168
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	712	5	470417 171257
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 2	A8SW (S)	712	5	469896 171141
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	717	5	470599 171370
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 655.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A8SW (S)	720	5	469906 171131
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	720	5	470599 171365
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 280.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	720	5	469906 171131
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	728	5	469285 171691
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	728	5	469285 171691

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	730	5	469272 171726
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A9NE (SE)	732	5	470756 171530
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	732	5	469281 171692
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	732	5	470847 171733
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A9NW (SE)	734	5	470702 171452
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 238.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	734	5	470703 171452
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	734	5	470702 171452
157	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	734	5	470703 171452
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	736	5	469277 171692

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	738	5	470768 171536
160	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: Thames Primacy: 1	A12SW (W)	738	5	469274 171694
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	739	5	470879 171843
162	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 345.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	739	5	470879 171843
163	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 257.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	740	5	470703 171443
164	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	740	5	470769 171534
165	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 111.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	740	5	469273 171692
166	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	740	5	469273 171692
167	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	741	5	470859 171746

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 190.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	747	5	470859 171718
169	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	747	5	470859 171718
170	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	749	5	470858 171712
171	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	751	5	470859 171707
172	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	760	5	470890 171792
173	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	780	5	469286 171524
174	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 413.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A7NW (SW)	780	5	469286 171524
175	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	784	5	469284 171520
176	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 222.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	788	5	469286 171506

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	790	5	469282 171511
178	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	792	5	469245 171596
179	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7SE (SW)	818	5	469438 171249
180	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7NW (SW)	822	5	469374 171309
181	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7NW (SW)	822	5	469374 171309
182	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 173.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	823	5	469373 171310
183	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	823	5	469250 171500
184	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7NW (SW)	823	5	469250 171500
185	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A7SE (SW)	825	5	469442 171236

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7NE (SW)	828	5	469391 171283
187	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7NE (SW)	828	5	469388 171285
188	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7NE (SW)	829	5	469386 171286
189	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 188.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 2	A7SE (SW)	841	5	469406 171248
190	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 179.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SW)	845	5	469634 171082
191	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SW)	845	5	469631 171084
192	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 192.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A7SE (SW)	845	5	469409 171239
193	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	846	5	470638 171236
194	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SW)	846	5	469628 171084

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
195	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	852	5	470897 171534
196	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 383.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A9NE (SE)	852	5	470897 171534
197	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A9NE (SE)	853	5	470897 171533
198	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SW)	858	5	469603 171084
199	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A9NE (SE)	859	5	470903 171530
200	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	861	5	470904 171529
201	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 367.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	861	5	470682 171252
202	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	861	5	470682 171252
203	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	892	5	470954 171561

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 333.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	892	5	470954 171561
205	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 77.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 2	A9SW (SE)	895	5	470535 171112
206	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 63.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 1	A9SW (SE)	895	5	470535 171112
207	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	900	5	471025 171753
208	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	902	5	471027 171752
209	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	902	5	471027 171752
210	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 178.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SW)	902	5	469564 171055
211	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 147.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	902	5	470677 171194
212	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 184.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SW (SW)	906	5	469357 171205

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 236.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	910	5	471034 171746
214	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	910	5	471058 171885
215	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	913	5	471043 172175
216	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	917	5	471064 171884
217	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	920	5	470967 171522
218	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15SW (E)	922	5	471072 171925
219	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	925	5	470969 171514
220	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	927	5	471067 171830
221	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: Thames Primacy: 1	A14SE (E)	929	5	471070 171832

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
222	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 178.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	936	5	469208 171343
223	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	936	5	469210 171340
224	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	936	5	469208 171343
225	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 11.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 1	A9SW (SE)	937	5	470596 171098
226	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 4.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 2	A9SW (SE)	937	5	470596 171098
227	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 2	A9SW (SE)	941	5	470601 171097
228	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 2	A9SW (SE)	946	5	470609 171095
229	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 1	A9SW (SE)	948	5	470598 171086
230	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7SW (SW)	951	5	469247 171261

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
231	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A9SW (SE)	964	5	470606 171073
232	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A9SW (SE)	964	5	470606 171073
233	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A9SW (SE)	965	5	470625 171084
234	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NW (E)	967	5	471113 172074
235	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NW (E)	967	5	471114 172076
236	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15NW (E)	968	5	471115 172077
237	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 206.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	969	5	470546 171034
238	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7SW (SW)	971	5	469234 171247
239	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 11.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 2	A7SW (SW)	976	5	469234 171238

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
240	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 238.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SW)	981	5	469407 171062
241	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 159.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 2	A7SW (SW)	985	5	469223 171237
242	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A7SW (SW)	985	5	469223 171237
243	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 169.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A9NE (SE)	999	5	471002 171419
244	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	999	5	471002 171419

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
245	Historical Landfill Sites Licence Holder: Tarmac Roadstone Limited Location: Pingewood, Berkshire Name: Anslow Cottages Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13304 First Input Date: 1st January 1984 Last Input Date: 31st July 1992 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0340/0216 BGS Ref: Not Supplied Other Ref: NEW110, TP0288, 54/12/4/190	A7NE (SW)	652	2	469619 171314
246	Historical Landfill Sites Licence Holder: Mr J Bucknell Location: Reading, Berkshire Name: Island Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13767 First Input Date: 31st December 1977 Last Input Date: 31st December 1985 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0345/0220 BGS Ref: Not Supplied Other Ref: RDG9, 54/12/4/23, TP0429, OCC/104	A9SW (SE)	979	2	470588 171046
247	Licensed Waste Management Facilities (Landfill Boundaries) Name: Smallmead Farm Licence Number: 86029 Location: RMC Aggregates (Southern) Ltd, Smallmead Farm, Burghfield, Reading, Berkshire, RG30 3UR Licence Holder: Cemex U K Materials Limited Authority: Environment Agency - South East Region, West Thames Area Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: Modified Issued: 23rd May 1980 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8SW (S)	805	2	470057 171042
248	Licensed Waste Management Facilities (Landfill Boundaries) Name: Burghfield Landfill Site A Epr/Mp3933cj Licence Number: 0 Location: BURGFIELD LFS, ISLAND ROAD, READING, BERKSHIRE, RG2 0RR Licence Holder: Cemex Uk Materials Limited Authority: Environment Agency - South East Region, West Thames Area Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied Licence Status: Effective Issued: 25th January 2019 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A3NW (S)	928	2	469940 170919
	Local Authority Landfill Coverage Name: Reading Unitary Council - Has supplied landfill data		0	6	470056 171951
249	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18SE (NE)	272	-	470259 172283
250	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A18SE (N)	297	-	470094 172340
251	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12NE (NW)	544	-	469481 172237
252	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A19SE (NE)	744	-	470823 172324

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
253	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17SW (NW)	771	-	469316 172405
254	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A19SE (NE)	847	-	470930 172337
255	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12NW (W)	942	-	469052 172219
256	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1961	A12SW (W)	750	-	469252 171722
257	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A14NE (E)	827	-	470979 171983
258	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A14NE (E)	897	-	471035 172129
259	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A15NW (E)	932	-	471084 171961
260	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1931	A15NW (E)	990	-	471135 172093
261	Registered Landfill Sites Licence Holder: Tarmac Roadstone Ltd Southern Licence Reference: 54/12/4/190 Site Location: Anslows Cottages Cottage Lane, Pingewood, Reading, Berkshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: 2 Old Bath Road, NEWBURY, Berkshire, RG13 1JJ Authority: Environment Agency - Thames Region, West Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st October 1985 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Construction And Demolition Wastes Excavated Natural Materials, Soil High-Dens/Hard/Bonded/Cement Asbestos	A7NE (SW)	658	2	469616 171309

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
262	Registered Landfill Sites Licence Holder: Rmc Aggregates (Southern) Ltd Licence Reference: 54/12/4/ 91 Site Location: Smallmead Farm (B), Reading, Berkshire, Rg30 3ur Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: RMC House, Coldharbour Lane, Thorpe, EGHAM, Surrey, TW20 5TD Authority: Environment Agency - Thames Region, West Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site Closed Dated: 23rd May 1980 Preceded By: 54/12/5/ 28 RESOLTN Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Agric'L Crops Treated With Biocides Carcasses And Flesh Household + Commercial Waste Industrial Wastes Max.Waste Permitted By Licence Prohibited Waste: Difficult Wastes	A8SW (S)	787	2	470044 171059
263	Registered Landfill Sites Licence Holder: Hall Aggregates Ltd Licence Reference: 54/12/5/ 28 RESOLTN Site Location: Smallmead Farm (A), Reading, Berkshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: RMC House, High Street, Feltham, HOUNSLOW, Middlesex, TW13 4HA Authority: Environment Agency - Thames Region, West Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 16th April 1980 Preceded By: Not Given Licence: Superseded By: 54/12/4/ 91 Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Agric'L Crop Treated With Biocides Carcasses And Flesh Household + Commercial Waste Ind. Inert Waste Prohibited Waste: Difficult Wastes	A8SW (S)	799	2	470057 171049
264	Registered Landfill Sites Licence Holder: Hall Aggregates (South East) Ltd Licence Reference: 54/12/4/ 43 Site Location: Smallmead Farm (58 Acre), Burghfield, Reading, Berkshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: RMC House, Coldharbour Lane, Egham, THORPE, Surrey, TW20 8TD Authority: Environment Agency - Thames Region, West Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 10th October 1980 Preceded By: Not Given Licence: Superseded By: 54/12/4/ 43 Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Construction And Demolition Wastes Household Waste Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Potentially Combustible Max.Waste Permitted By Licence	A7SE (S)	879	2	469687 171023

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lambeth Group	A13NW (E)	0	1	470056 171951
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A13SE (S)	0	1	470067 171877
	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	A13SE (SE)	0	1	470095 171896
	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	A13NW (E)	0	1	470056 171951
	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	A13SE (SE)	51	1	470125 171848
	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)	603	1	469812 171272
	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	A7NE (SW)	710	1	469573 171276

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	760	1	470789 172428
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	836	1	470938 172274
265	BGS Recorded Mineral Sites Site Name: Southcote Lane Sand Pit Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 215109 Type: Opencast Status: Ceased Operator: Southcote Sand Ltd. Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Lambeth Group Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	192	1	469805 171830
266	BGS Recorded Mineral Sites Site Name: Coley Park Gravel Pit Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36378 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	266	1	470254 172279
267	BGS Recorded Mineral Sites Site Name: Coley Park Gravel Pit Location: Southcote, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36383 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A18SE (N)	352	1	470134 172393
268	BGS Recorded Mineral Sites Site Name: Coley Park Gravel Pit Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234920 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Wolstonian Geology: Lynch Hill Gravel Member Commodity: Gravel Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	388	1	470394 172331

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
269	BGS Recorded Mineral Sites Site Name: Coley Park Chalk Pit Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234921 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A14NW (E)	572	1	470707 172115
270	BGS Recorded Mineral Sites Site Name: Oaklands Pit Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 244362 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	607	1	469589 172469
270	BGS Recorded Mineral Sites Site Name: Westfield Pit Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 244363 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	650	1	469574 172511
271	BGS Recorded Mineral Sites Site Name: Coley Park Gravel Pit Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234919 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Wolstonian Geology: Lynch Hill Gravel Member Commodity: Gravel Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	625	1	470502 172547
272	BGS Recorded Mineral Sites Site Name: Southcote Lane Gravel Pit Location: Southcote, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36387 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	637	1	469393 172270
273	BGS Recorded Mineral Sites Site Name: Southcote Lane Gravel Pits Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 215111 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12NW (W)	710	1	469293 172218

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
274	BGS Recorded Mineral Sites Site Name: Lodge Pit Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 244361 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	712	1	469478 172510
275	BGS Recorded Mineral Sites Site Name: Southcote Lane Gravel Pit Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 244379 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	723	1	469324 172324
276	BGS Recorded Mineral Sites Site Name: Southcote Lane Gravel Pit Location: Southcote, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36379 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12NW (W)	733	1	469254 172162
277	BGS Recorded Mineral Sites Site Name: Wilton House Gravel Pit Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 244360 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	812	1	469690 172760
278	BGS Recorded Mineral Sites Site Name: Southcote Lane Gravel Pits Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 215110 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12NW (W)	821	1	469184 172239
278	BGS Recorded Mineral Sites Site Name: Southcote Lane Gravel Pits Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 215110 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12NW (W)	821	1	469184 172239

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
278	BGS Recorded Mineral Sites Site Name: Southcote Lane Gravel Pits Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 215110 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A12NW (W)	821	1	469184 172239
279	BGS Recorded Mineral Sites Site Name: Avenue Works Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36339 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	823	1	470815 172505
280	BGS Recorded Mineral Sites Site Name: Smallmead Farm Gravel Pit Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 215107 Type: Opencast Status: Ceased Operator: Rmc - Hall Aggregates (South East) Operator Location: Not Supplied Periodic Type: Quaternary Geology: Beenham Grange Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8SW (S)	826	1	469775 171050
281	BGS Recorded Mineral Sites Site Name: Avenue Works Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234914 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Tertiary Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	844	1	470881 172436
282	BGS Recorded Mineral Sites Site Name: Prospect Park Gravel Pit Location: Southcote, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36374 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	857	1	469235 172438
283	BGS Recorded Mineral Sites Site Name: Burghfield Gravel Pit Location: Burghfield, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 244380 Type: Opencast Status: Ceased Operator: Reading Sand & Gravel Operator Location: Not Supplied Periodic Type: Quaternary Geology: Beenham Grange Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	867	1	469493 171140

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
284	BGS Recorded Mineral Sites Site Name: Coley Kilns Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36341 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19SE (E)	888	1	470975 172330
285	BGS Recorded Mineral Sites Site Name: Parkside Road Gravel Pit Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 244359 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	930	1	469628 172862
286	BGS Recorded Mineral Sites Site Name: Coley Kilns Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234916 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Tertiary Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19SE (E)	953	1	471046 172321
286	BGS Recorded Mineral Sites Site Name: Coley Kilns Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36340 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19SE (E)	979	1	471060 172362
287	BGS Recorded Mineral Sites Site Name: Bath Road Gravel Pit Location: Southcote, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36380 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A16SE (W)	1000	1	469011 172288
	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				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 470700 Northing: 172350 Distance: 644 Quadrant Reference: A19 Quadrant Reference: SW Bearing Ref: NE Cavity Type: Historical Brickfield-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A19SW (NE)	644	7	470700 172350
	Man-Made Mining Cavities Easting: 470110 Northing: 172760 Distance: 719 Quadrant Reference: A18 Quadrant Reference: NE Bearing Ref: N Cavity Type: Old Sand And Gravel Pit,Might Be Associated With Railway Commodity: Chalk Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravels Detail:	A18NE (N)	719	7	470110 172760
	Man-Made Mining Cavities Easting: 470750 Northing: 172450 Distance: 738 Quadrant Reference: A19 Quadrant Reference: SE Bearing Ref: NE Cavity Type: Historical Brick and Tile Works/Extensive Clay Excavations-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A19SE (NE)	738	7	470750 172450
	Man-Made Mining Cavities Easting: 471000 Northing: 172400 Distance: 936 Quadrant Reference: A19 Quadrant Reference: SE Bearing Ref: NE Cavity Type: Historical Brick & Tile Works/Extensive Clay Excavations-Possible References to Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A19SE (NE)	936	7	471000 172400
	Man-Made Mining Cavities Easting: 470170 Northing: 172980 Distance: 939 Quadrant Reference: A23 Quadrant Reference: SE Bearing Ref: N Cavity Type: Old Clay Pit Pre 1877, Possible Old Brick Works, Might be Associated with Railway, Potential for Old Chalk Mine Workings Commodity: Chalk Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravels Detail:	A23SE (N)	939	7	470170 172980
	Natural Cavities Easting: 470130 Northing: 172540 Distance: 499 Quadrant Reference: A18 Quadrant Reference: SE Bearing Ref: N Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A18SE (N)	499	7	470130 172540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 470500 Northing: 172500 Distance: 586 Quadrant Reference: A19 Quadrant Reference: SW Bearing Ref: NE Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: Lynch Hill Gravel Detail:	A19SW (NE)	586	7	470500 172500
	Natural Cavities Easting: 469980 Northing: 172610 Distance: 589 Quadrant Reference: A18 Quadrant Reference: SW Bearing Ref: N Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: Lynch Hill Gravel Detail:	A18SW (N)	589	7	469980 172610
	Natural Cavities Easting: 469900 Northing: 172600 Distance: 598 Quadrant Reference: A18 Quadrant Reference: SW Bearing Ref: N Cavity Type: Unknown x 3 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: Lynch Hill Gravel Detail:	A18SW (N)	598	7	469900 172600
	Natural Cavities Easting: 470000 Northing: 172700 Distance: 673 Quadrant Reference: A18 Quadrant Reference: NW Bearing Ref: N Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: Lynch Hill Gravel Detail:	A18NW (N)	673	7	470000 172700
	Natural Cavities Easting: 470490 Northing: 172690 Distance: 739 Quadrant Reference: A19 Quadrant Reference: NW Bearing Ref: NE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: Lynch Hill Gravel Detail:	A19NW (NE)	739	7	470490 172690
	Natural Cavities Easting: 469250 Northing: 172250 Distance: 762 Quadrant Reference: A12 Quadrant Reference: NW Bearing Ref: W Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: Lynch Hill Gravel, Worked Ground Detail:	A12NW (W)	762	7	469250 172250
	Natural Cavities Easting: 469900 Northing: 172800 Distance: 793 Quadrant Reference: A18 Quadrant Reference: NW Bearing Ref: N Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology: Lynch Hill Gravel Detail:	A18NW (N)	793	7	469900 172800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 469950 Northing: 172820 Distance: 801 Quadrant Reference: A18 Quadrant Reference: NW Bearing Ref: N Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A18NW (N)	801	7	469950 172820
	Natural Cavities Easting: 469650 Northing: 172760 Distance: 827 Quadrant Reference: A17 Quadrant Reference: NE Bearing Ref: NW Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A17NE (NW)	827	7	469650 172760
	Natural Cavities Easting: 470000 Northing: 173010 Distance: 978 Quadrant Reference: A23 Quadrant Reference: SW Bearing Ref: N Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A23SW (N)	978	7	470000 173010
	Natural Cavities Easting: 470380 Northing: 172990 Distance: 980 Quadrant Reference: A23 Quadrant Reference: SE Bearing Ref: N Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A23SE (N)	980	7	470380 172990
	Natural Cavities Easting: 470370 Northing: 173000 Distance: 987 Quadrant Reference: A23 Quadrant Reference: SE Bearing Ref: N Cavity Type: Solution Pipe x 2 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A23SE (N)	987	7	470370 173000
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	470056 171951
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	470000 171951
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	470056 171951
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	470000 171951
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	51	1	470125 171848
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	77	1	470000 171768

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	470000 171951
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	470056 171951
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	51	1	470125 171848
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	77	1	470000 171768
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	470000 171985
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	470032 171996
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	470095 171896
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	470000 171951
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	470056 171951
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	21	1	470000 171825
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	51	1	470125 171848
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	58	1	470121 171839
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	77	1	470000 171768
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	84	1	470000 171761
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	470095 171896
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	470000 171951
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	470056 171951
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	21	1	470000 171825
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	77	1	470000 171768
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	118	1	469872 172064
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	138	1	469945 172136

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	470095 171896
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	470000 171951
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	470056 171951
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	21	1	470000 171825
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	51	1	470125 171848
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	77	1	470000 171768
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	470095 171896
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	470056 171951
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	470000 171951
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	21	1	470000 171825
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	51	1	470125 171848
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	77	1	470000 171768
	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	A13NW (E)	0	1	470056 171951
	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	A13NW (W)	0	1	470001 171951
	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	A13NW (E)	0	1	470056 171951
	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	A13NW (W)	0	1	470001 171951

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
288	Contemporary Trade Directory Entries Name: Direct Cleaning & Ironing Services Location: Flat 46, Irving Court, 203, Wensley Road, Reading, RG1 6EB Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	0	-	470021 171905
289	Contemporary Trade Directory Entries Name: Two Jays Location: 188, Wensley Road, Reading, RG1 6DP Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	25	-	470110 172061
289	Contemporary Trade Directory Entries Name: Jay Cleaning Services Location: 188, Wensley Road, Reading, RG1 6DP Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	25	-	470110 172061
290	Contemporary Trade Directory Entries Name: Designer Graphics Location: 254, Wensley Road, Reading, RG1 6DP Classification: T-Shirts Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (W)	79	-	469892 171925
291	Contemporary Trade Directory Entries Name: A G Carpet & Upholstery Cleaning Location: 169, Wensley Road, READING, RG1 6DU Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	116	-	470252 172055
291	Contemporary Trade Directory Entries Name: Amplicore Ltd Location: 163, Wensley Road, Reading, RG1 6DU Classification: Electronic Equipment - Manufacturers & Assemblers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	139	-	470272 172065
292	Contemporary Trade Directory Entries Name: Charlum Location: 32, Swallows Croft, Reading, RG1 6EH Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	146	-	470148 172187
293	Contemporary Trade Directory Entries Name: A Sterling Clean Location: 92, Kenilworth Avenue, Reading, RG30 3DW Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	292	-	469695 172098
294	Contemporary Trade Directory Entries Name: Berkshire Independent Hospital Location: Swallowscroft, Wensley Road, Reading, RG1 6UZ Classification: Hospitals Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	322	-	470407 172214
294	Contemporary Trade Directory Entries Name: The Berkshire Independent Hospital Location: Berkshire Independent Hospital, Wensley Road, Reading, RG1 6UZ Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	322	-	470407 172214
294	Contemporary Trade Directory Entries Name: Ramsay Healthcare Uk Location: Berkshire Independent Hospital, Wensley Road, Coley Park, Reading, Berkshire, RG1 6UZ Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	322	-	470407 172214

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
294	Contemporary Trade Directory Entries Name: Berkshire Private Anaesthesia Location: Wensley Rd, Reading, Berkshire, RG1 6UZ Classification: Hospitals Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	322	-	470407 172214
295	Contemporary Trade Directory Entries Name: Card Creations 4 All Occasions Location: 33, Edenham Crescent, Reading, RG1 6HU Classification: Greeting Card Publishers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (N)	375	-	470056 172408
296	Contemporary Trade Directory Entries Name: A W E Maintenance Location: 116, Southcote Lane, Reading, RG30 3AF Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	537	-	469455 172157
297	Contemporary Trade Directory Entries Name: Berkshire Healthcare Foundation Trust N H S Location: 57-59, Bath Road, Reading, RG30 2BA Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	547	-	469718 172482
297	Contemporary Trade Directory Entries Name: N H S Reading Location: 57-59, Bath Road, Reading, RG30 2BA Classification: Hospitals Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	547	-	469718 172482
298	Contemporary Trade Directory Entries Name: Soundz Unique Location: 1, Upavon Drive, Reading, RG1 6LP Classification: Sound Equipment Systems Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	605	-	470544 172488
299	Contemporary Trade Directory Entries Name: Perfect Spray Ltd Location: 45 Trafalgar Court, Southcote Road, Reading, RG30 2EN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	660	-	469993 172686
300	Contemporary Trade Directory Entries Name: Velariis Blinds & Curtains Ltd Location: 24, Wensley Road, Reading, RG1 6DJ Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	690	-	470728 172394
300	Contemporary Trade Directory Entries Name: Velariis Blinds & Curtains Ltd Location: 24, Wensley Road, READING, RG1 6DJ Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	690	-	470728 172394
301	Contemporary Trade Directory Entries Name: K J Location: Fawley Rd, Reading, Berkshire, RG30 3EN Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	702	-	469272 172090
302	Contemporary Trade Directory Entries Name: Absolute Window Films Location: 13, Petworth Court, Bath Road, Reading, RG1 6PH Classification: Window Tinting Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	719	-	470118 172760
303	Contemporary Trade Directory Entries Name: J G D Location: Berkeley Av, Reading, Berkshire, RG1 6JE Classification: Metal Workers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	739	-	470684 172536

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
304	Contemporary Trade Directory Entries Name: Oil Tank Supplies Ltd Location: Bath Rd, Reading, Berkshire, RG1 2JE Classification: Tanks, Vats & Cisterns Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	794	-	469275 172382
305	Contemporary Trade Directory Entries Name: Southcote Dental Laboratories Location: 47, Circuit Lane, Reading, RG30 3HB Classification: Medical & Dental Laboratories Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	845	-	469125 172070
305	Contemporary Trade Directory Entries Name: Southcote Dental Laboratories Location: 47, Circuit Lane, Reading, RG30 3HB Classification: Medical & Dental Laboratories Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	846	-	469125 172070
306	Contemporary Trade Directory Entries Name: Norman Bullion Location: 35, Circuit Lane, Reading, Berkshire, RG30 3HB Classification: French Polishing Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	873	-	469108 172153
307	Contemporary Trade Directory Entries Name: Personal Touch Location: Flat A, 24, Bath Road, Reading, Berkshire, RG1 6NS Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	884	-	470502 172846
308	Contemporary Trade Directory Entries Name: Ridgeway Skoda Reading Location: 145, Bath Road, Reading, RG30 2BD Classification: Car Customisation & Conversion Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (W)	886	-	469136 172299
309	Contemporary Trade Directory Entries Name: Dellwood Community Hospital Location: 22, Liebenrood Road, Reading, RG30 2DX Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	900	-	469458 172736
309	Contemporary Trade Directory Entries Name: Duchess Of Kent House Trust Location: 22, Liebenrood Road, Reading, RG30 2DX Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	900	-	469458 172736
310	Contemporary Trade Directory Entries Name: The Dutchess Of Kent House Location: Dellwood Community Hospital, 22, Liebenrood Road, Reading, RG30 2DX Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	915	-	469404 172715
311	Contemporary Trade Directory Entries Name: Dolly Char Location: Flat 2, Wellingtonia House, 50, Parkhouse Lane, Reading, RG30 2EX Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	925	-	469667 172872
311	Contemporary Trade Directory Entries Name: Dolly Char Location: Flat 1, Wellingtonia House, 50, Parkhouse Lane, Reading, RG30 2EX Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	925	-	469667 172872
312	Contemporary Trade Directory Entries Name: Pink Ladies Domestic Cleaning Ltd Location: Southcote, Reading, Berkshire, RG30 3HE Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Manually positioned within the geographical locality	A11NE (W)	926	-	469040 171965

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
313	Contemporary Trade Directory Entries Name: Spire Dunedin Hospital Location: Dunedin Hospital, 16, Bath Road, Reading, RG1 6NQ Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	940	-	470572 172874
313	Contemporary Trade Directory Entries Name: Spire Dunedin Hospital Location: Dunedin Hospital, 16, Bath Road, Reading, RG1 6NQ Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	940	-	470572 172874
313	Contemporary Trade Directory Entries Name: Tanner Vaughan - The Spire Dunedin Hospital Location: Dunedin Hospital, Bath Road, Reading, RG1 6NQ Classification: Hospitals Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	940	-	470572 172874
313	Contemporary Trade Directory Entries Name: Spire Dunedin Hospital Location: 16 Bath Road, Reading, Berkshire, RG1 6NQ Classification: Hospitals Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	940	-	470572 172874
313	Contemporary Trade Directory Entries Name: Dunedin Hospital Location: 16, Bath Road, Reading, RG1 6NS Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	961	-	470573 172897
313	Contemporary Trade Directory Entries Name: Dunedin Hospital Location: 16, Bath Road, Reading, RG1 6NS Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	961	-	470573 172897
313	Contemporary Trade Directory Entries Name: Dunedin Spire Hospital Location: 16, Bath Road, Reading, RG1 6NS Classification: Hospitals Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	961	-	470573 172897
313	Contemporary Trade Directory Entries Name: Dunedin Spire Hospital Location: 16, Bath Road, Reading, RG1 6NS Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	961	-	470573 172897
314	Contemporary Trade Directory Entries Name: Nationwide Fire Protection Associates Location: Southcote Mill, Southcote Farm Lane, Reading, RG30 3DZ Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	947	-	469239 171279
315	Contemporary Trade Directory Entries Name: Honda Marshall Of Reading Location: 145, Bath Road, Reading, RG30 2BD Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A17SW (W)	956	-	469065 172310
316	Contemporary Trade Directory Entries Name: Bath Road Day Hospital Location: 5, Bath Road, Reading, RG1 6HH Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	988	-	470702 172851
317	Contemporary Trade Directory Entries Name: Electronic Imaging Maintenance Ltd Location: 45, Tilehurst Road, Reading, RG1 7TT Classification: Bus & Coach Operators & Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	998	-	470179 173038

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
318	Points of Interest - Commercial Services Name: Spick & Span Location: 3 Arbour Close, Reading, RG1 6EW Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NE (E)	596	8	470744 172048
318	Points of Interest - Commercial Services Name: Spick & Span Location: 3 Arbour Close, Reading, RG1 6EW Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NE (E)	596	8	470744 172048
319	Points of Interest - Commercial Services Name: Perfect Spray Ltd Location: 45 Trafalgar Court, Southcote Road, Reading, RG30 2EN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (N)	660	8	469992 172685
320	Points of Interest - Commercial Services Name: S J S Mobile Mechanical Services Location: 10 Josephine Court, Southcote Road, Reading, RG30 2DG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NW (N)	795	8	469941 172812
321	Points of Interest - Education and Health Name: Berkshire Independent Hospital Location: Swallowcroft, Wensley Road, Reading, RG1 6UZ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A14NW (NE)	321	8	470407 172213
321	Points of Interest - Education and Health Name: Ramsey Healthcare UK Location: Berkshire Independent Hospital, Wensley Road, Coley Park, Reading, RG1 6UZ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A14NW (NE)	322	8	470407 172214
321	Points of Interest - Education and Health Name: Capio Reading Hospital Location: Swallowcroft, Wensley Road, Reading, RG1 6UZ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A14NW (NE)	322	8	470407 172214
321	Points of Interest - Education and Health Name: Reading NHS Treatment Centre Location: Swallowcroft, Wensley Road, Reading, RG1 6UZ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A14NW (NE)	322	8	470407 172214
322	Points of Interest - Education and Health Name: Dellwood Community Hospital Location: 22 Liebenrood Road, Reading, RG30 2DX Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A17NE (NW)	900	8	469458 172736
322	Points of Interest - Education and Health Name: Duchess of Kent House Location: Dellwood Community Hospital 22, Liebenrood Road, Reading, RG30 2DX Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A17NE (NW)	915	8	469404 172715
322	Points of Interest - Education and Health Name: Duchess of Kent House Location: 22 Liebenrood Road, Reading, RG30 2DX Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A17NE (NW)	915	8	469404 172715
323	Points of Interest - Education and Health Name: Spire Dunedin Hospital Location: Dunedin Hospital 16, Bath Road, Reading, RG1 6NQ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19NW (NE)	960	8	470573 172896

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
323	Points of Interest - Education and Health Name: Spire Dunedin Hospital Location: 16 Bath Road, Reading, RG1 6NS Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19NW (NE)	961	8	470573 172897
323	Points of Interest - Education and Health Name: Spire Dunedin Hospital Location: 16 Bath Road, Reading, RG1 6NS Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19NW (NE)	961	8	470573 172897
323	Points of Interest - Education and Health Name: Spire Hospital Dunedin Location: 16 Bath Road, Reading, RG1 6NS Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19NW (NE)	961	8	470573 172897
323	Points of Interest - Education and Health Name: Spire Dunedin Hospital Location: 16 Bath Road, Reading, RG1 6NS Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19NW (NE)	961	8	470573 172897
324	Points of Interest - Education and Health Name: Day Hospital for the Elderly Location: 5 Bath Road, Reading, RG1 6HH Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19NW (NE)	988	8	470702 172851
325	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	352	8	469667 171722
326	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	658	8	469309 171930
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	753	8	470426 171215
327	Points of Interest - Manufacturing and Production Name: Tanks Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	767	8	470445 171209
327	Points of Interest - Manufacturing and Production Name: Tanks Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	773	8	470405 171183
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	789	8	470433 171179
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	792	8	470432 171175

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	794	8	470430 171171
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	799	8	470430 171166
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	799	8	470448 171175
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	801	8	470429 171163
327	Points of Interest - Manufacturing and Production Name: Tanks Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	801	8	470479 171189
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	802	8	470447 171171
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	806	8	470446 171166
327	Points of Interest - Manufacturing and Production Name: Tanks Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	807	8	470433 171159
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	809	8	470445 171162
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	811	8	470443 171159
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	822	8	470474 171162
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	824	8	470509 171179

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
327	Points of Interest - Manufacturing and Production Name: Tanks Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	825	8	470510 171178
327	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	846	8	470508 171154
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	850	8	470552 171173
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	857	8	470539 171158
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	863	8	470537 171150
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	867	8	470535 171144
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	869	8	470554 171153
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	871	8	470535 171140
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	873	8	470551 171146
328	Points of Interest - Manufacturing and Production Name: Tanks Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	874	8	470573 171158
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	875	8	470533 171134
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	877	8	470549 171141

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	881	8	470549 171136
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	883	8	470572 171147
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	884	8	470544 171130
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	887	8	470568 171140
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	891	8	470568 171135
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	894	8	470586 171142
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	895	8	470566 171129
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	898	8	470584 171136
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	900	8	470565 171123
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	903	8	470583 171130
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	906	8	470581 171125
328	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	911	8	470580 171119

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
329	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	944	8	470707 171164
329	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SE (SE)	965	8	470740 171164
329	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SW (SE)	973	8	470706 171127
329	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SE (SE)	982	8	470767 171165
329	Points of Interest - Manufacturing and Production Name: Tank Location: RG2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9SE (SE)	993	8	470737 171126
330	Points of Interest - Manufacturing and Production Name: Gravel Pit Location: RG30 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	946	8	469542 171016
331	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SW (SW)	949	8	469281 171223
331	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SW (SW)	952	8	469278 171222
331	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SW (SW)	956	8	469274 171221
331	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SW (SW)	958	8	469271 171221
331	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SW (SW)	961	8	469268 171220
331	Points of Interest - Manufacturing and Production Name: Tanks Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	963	8	469269 171215

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
331	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SW (SW)	964	8	469264 171220
331	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SW (SW)	967	8	469261 171219
331	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SW (SW)	971	8	469257 171218
331	Points of Interest - Manufacturing and Production Name: Tank Location: RG30 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7SW (SW)	974	8	469253 171218
332	Points of Interest - Manufacturing and Production Name: Gravel Pit Location: RG30 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	987	8	469450 171024
333	Points of Interest - Public Infrastructure Name: Southcote Junction Location: RG1 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	173	8	469818 171863
334	Points of Interest - Public Infrastructure Name: 1st Alldays Skip Hire Location: 130 Southcote Lane, Reading, RG30 3AF Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A12NE (W)	587	8	469398 172138
335	Points of Interest - Public Infrastructure Name: Sluice Location: RG30 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	637	8	469877 171220
335	Points of Interest - Public Infrastructure Name: Sluice Location: RG2 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	662	8	469873 171195
335	Points of Interest - Public Infrastructure Name: Weir Location: RG30 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	665	8	469799 171211
335	Points of Interest - Public Infrastructure Name: Weir Location: RG30 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	665	8	469795 171212
336	Points of Interest - Public Infrastructure Name: Sluice Location: RG2 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	752	8	470313 171163

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
336	Points of Interest - Public Infrastructure Name: Sluice Location: RG2 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	753	8	470318 171164
337	Points of Interest - Public Infrastructure Name: Sludge Tanks Location: RG2 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	759	8	470421 171206
338	Points of Interest - Public Infrastructure Name: Water Treatment Works Location: RG2 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	939	8	470727 171187
339	Points of Interest - Public Infrastructure Name: Sluice Location: RG30 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	987	8	469231 171224
339	Points of Interest - Public Infrastructure Name: Weir Location: RG30 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	992	8	469229 171219
340	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	0	8	470049 171948
340	Points of Interest - Recreational and Environmental Name: Playground Location: Wensley Road, RG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (SW)	0	8	470045 171946
341	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	101	8	469989 172110
341	Points of Interest - Recreational and Environmental Name: Play Area Location: Edenham Crescent, RG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NW (NW)	101	8	469989 172110
342	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	168	8	470208 172193
342	Points of Interest - Recreational and Environmental Name: Playground Location: Swallows Croft, RG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NE (NE)	170	8	470208 172195
343	Points of Interest - Recreational and Environmental Name: Play Area Location: RG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	374	8	470378 172326

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
344	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	423	8	469543 171942
344	Points of Interest - Recreational and Environmental Name: Playground Location: Barn Close, RG30 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	423	8	469543 171942
345	Points of Interest - Recreational and Environmental Name: Play Area Location: RG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	912	8	470197 172951

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
346	Nitrate Vulnerable Zones Name: Thames Wallingford To Caversham Nvz Description: Surface Water Source: Environment Agency, Head Office	A18NW (N)	793	4	469900 172800

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Reading Borough Council - Environmental Health Department Wokingham District Council - Environmental Health Department South Oxfordshire District Council - Environmental Health Department West Berkshire Council - Environmental Health Department	April 2014 February 2013 January 2015 November 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Thames Region	October 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Thames Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region	October 2019 October 2019	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control South Oxfordshire District Council - Environmental Health Department Wokingham District Council - Environmental Health Department West Berkshire Council - Environmental Health Department Reading Borough Council - Environmental Health Department	June 2014 June 2014 June 2015 October 2014	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls South Oxfordshire District Council - Environmental Health Department Wokingham District Council - Environmental Health Department West Berkshire Council - Environmental Health Department Reading Borough Council - Environmental Health Department	June 2014 June 2014 June 2015 October 2014	Annual Rolling Update Not Applicable Not Applicable Not Applicable
Local Authority Pollution Prevention and Control Enforcements South Oxfordshire District Council - Environmental Health Department Wokingham District Council - Environmental Health Department West Berkshire Council - Environmental Health Department Reading Borough Council - Environmental Health Department	June 2014 June 2014 June 2015 October 2014	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	November 2019	
Pollution Incidents to Controlled Waters Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Thames Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - Thames Region	June 2016	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - South East Area Environment Agency - Thames Region - West Area	October 2019 October 2019 October 2019	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Thames Region	October 2019	Quarterly

Agency & Hydrological	Version	Update Cycle
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2019	Quarterly
Flood Defences Environment Agency - Head Office	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	October 2019	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

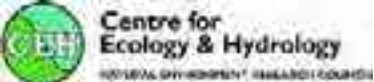
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Thames Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - South East Area Environment Agency - Thames Region - West Area	November 2019 November 2019 November 2019	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - South East Area Environment Agency - Thames Region - West Area	October 2019 October 2019 October 2019	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Oxfordshire County Council Reading Borough Council - Planning South Oxfordshire District Council - Environmental Health Department West Berkshire Council - Environmental Health Department Wokingham District Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Oxfordshire County Council Reading Borough Council - Planning South Oxfordshire District Council - Environmental Health Department West Berkshire Council - Environmental Health Department Wokingham District Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 October 2005	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Thames Region - South East Area Environment Agency - Thames Region - West Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Thames Region - South East Area Environment Agency - Thames Region - West Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Thames Region - South East Area Environment Agency - Thames Region - West Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Oxfordshire County Council South Oxfordshire District Council - Planning Department (West) West Berkshire Council Wokingham District Council Reading Borough Council - Planning	February 2016 February 2016 February 2016 February 2016 May 2016	Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Oxfordshire County Council South Oxfordshire District Council - Planning Department (West) West Berkshire Council Wokingham District Council Reading Borough Council - Planning	February 2016 February 2016 February 2016 February 2016 May 2016	Variable Variable Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	December 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	December 2019	Quarterly
Points of Interest - Education and Health PointX	December 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2019	Quarterly
Points of Interest - Public Infrastructure PointX	December 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	

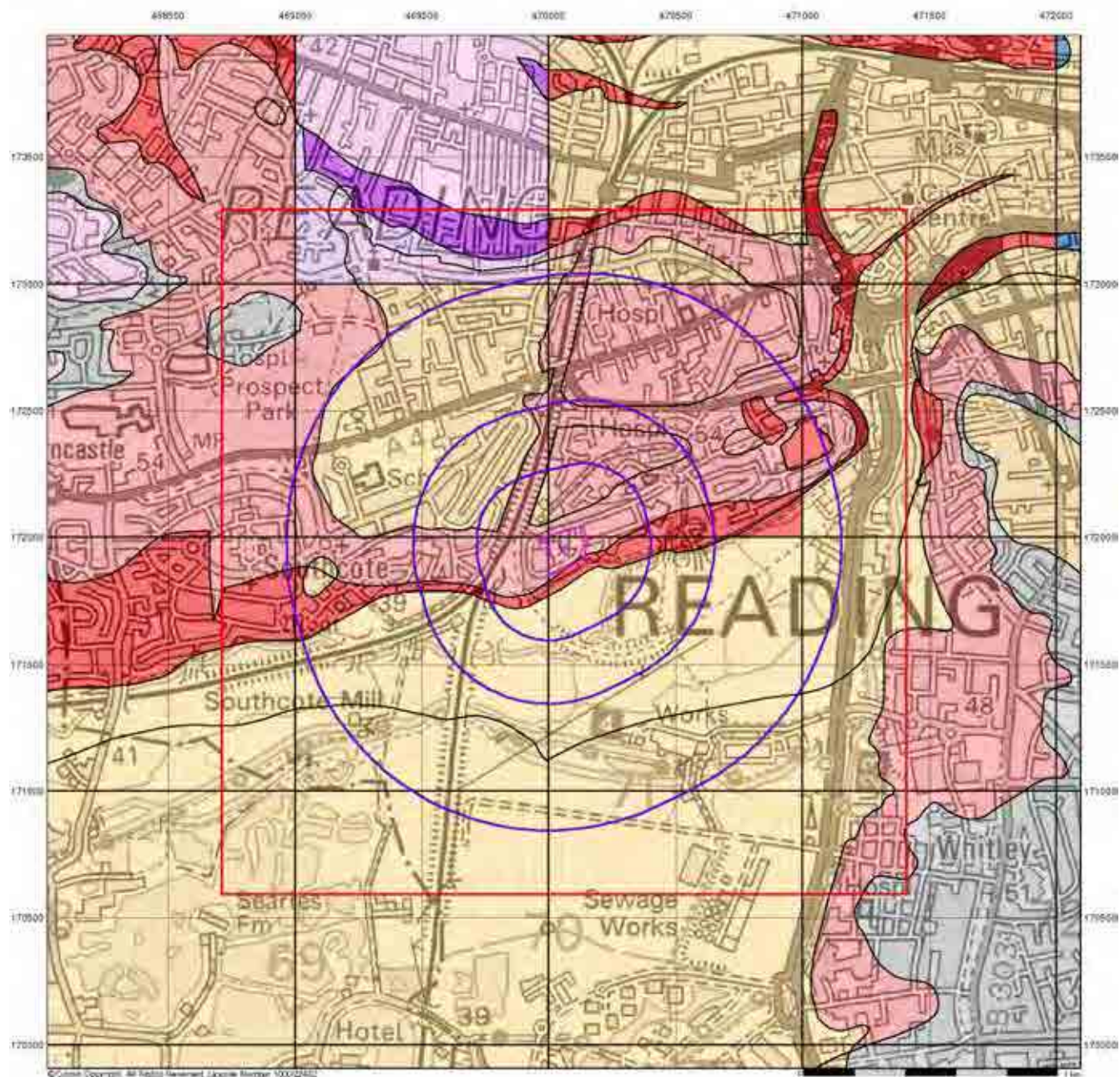
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt Reading Borough Council South Oxfordshire District Council West Berkshire Council Wokingham District Council	February 2020 February 2020 February 2020 February 2020	As notified As notified As notified As notified
Areas of Unadopted Green Belt Reading Borough Council South Oxfordshire District Council West Berkshire Council Wokingham District Council	February 2020 February 2020 February 2020 February 2020	As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	March 2019	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	July 2019	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2019	Bi-Annually
Special Areas of Conservation Natural England	June 2019	Bi-Annually
Special Protection Areas Natural England	April 2019	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, 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	Reading Borough Council - Environmental Health Department Civic Centre, Reading, Hampshire, RG1 7DT	Telephone: 0118 939 9099 Fax: 0118 958 9770 Website: www.reading.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Reading Borough Council - Planning Civic Centre, READING, Hampshire, RG1 7TD	Telephone: 0118 939 0900 Fax: 0118 958 9770 Website: www.reading.gov.uk
7	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	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.



Geo-Environmental Groundwater Vulnerability

General



Agency and Hydrological

Bedrock Aquifers



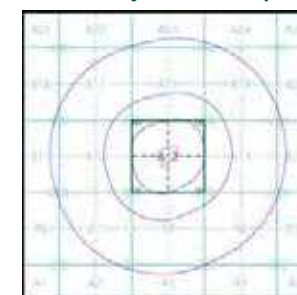
Superficial Aquifers



Impermeable Aquifer

Surface Flow

Site Sensitivity Context Map - Slice A



Order Details

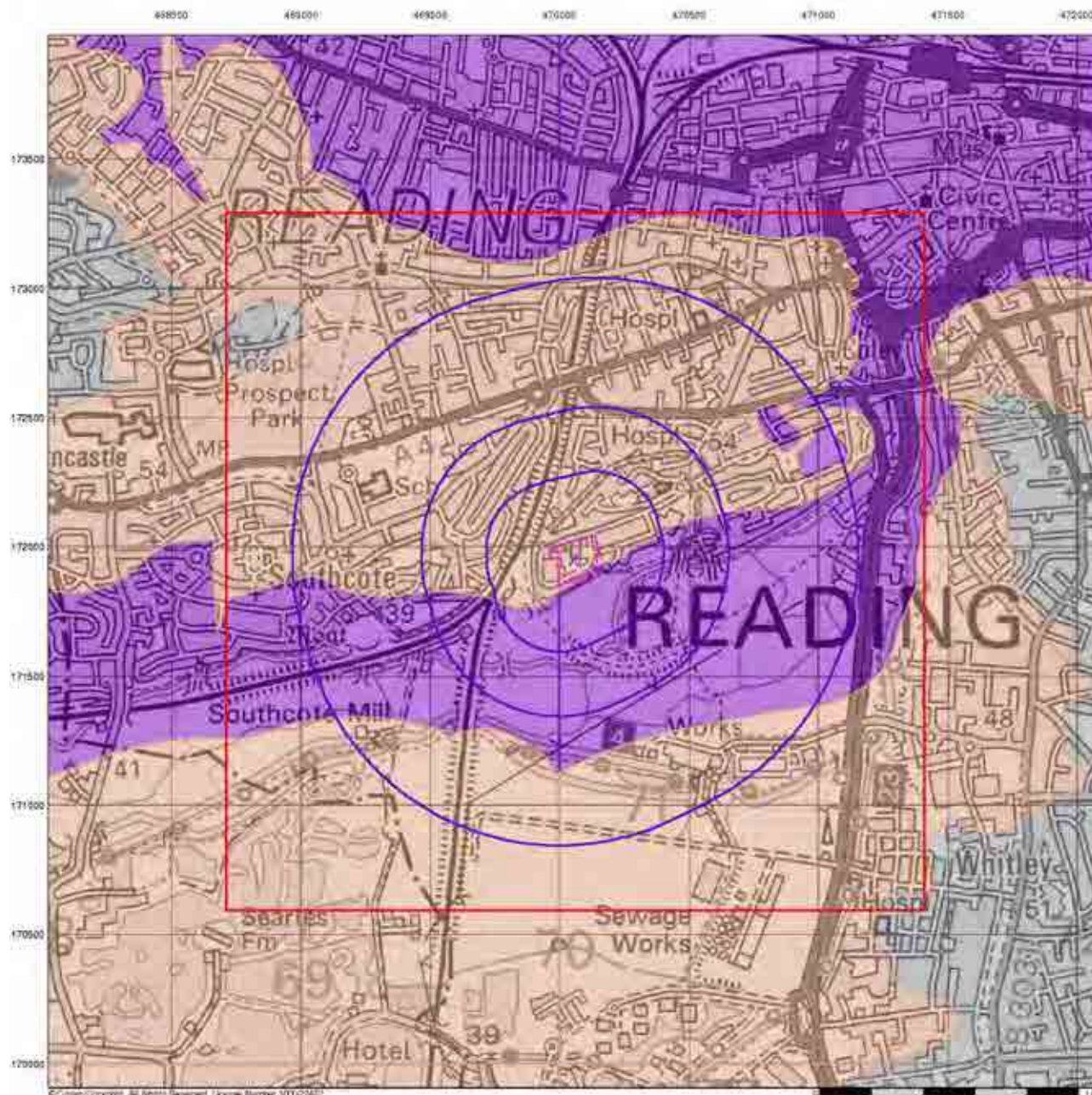
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 Customer Ref: GE18760
 National Grid Reference: 470060, 171950
 Slice: A
 Site Area (Ha): 2.26
 Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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



Geo-Environmental Bedrock Aquifer Designation

General

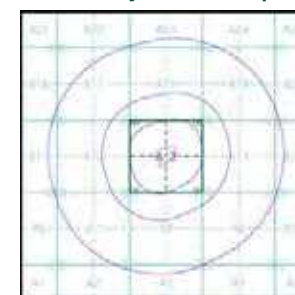


Agency and Hydrological

Geological Classes



Site Sensitivity Context Map - Slice A



Order Details

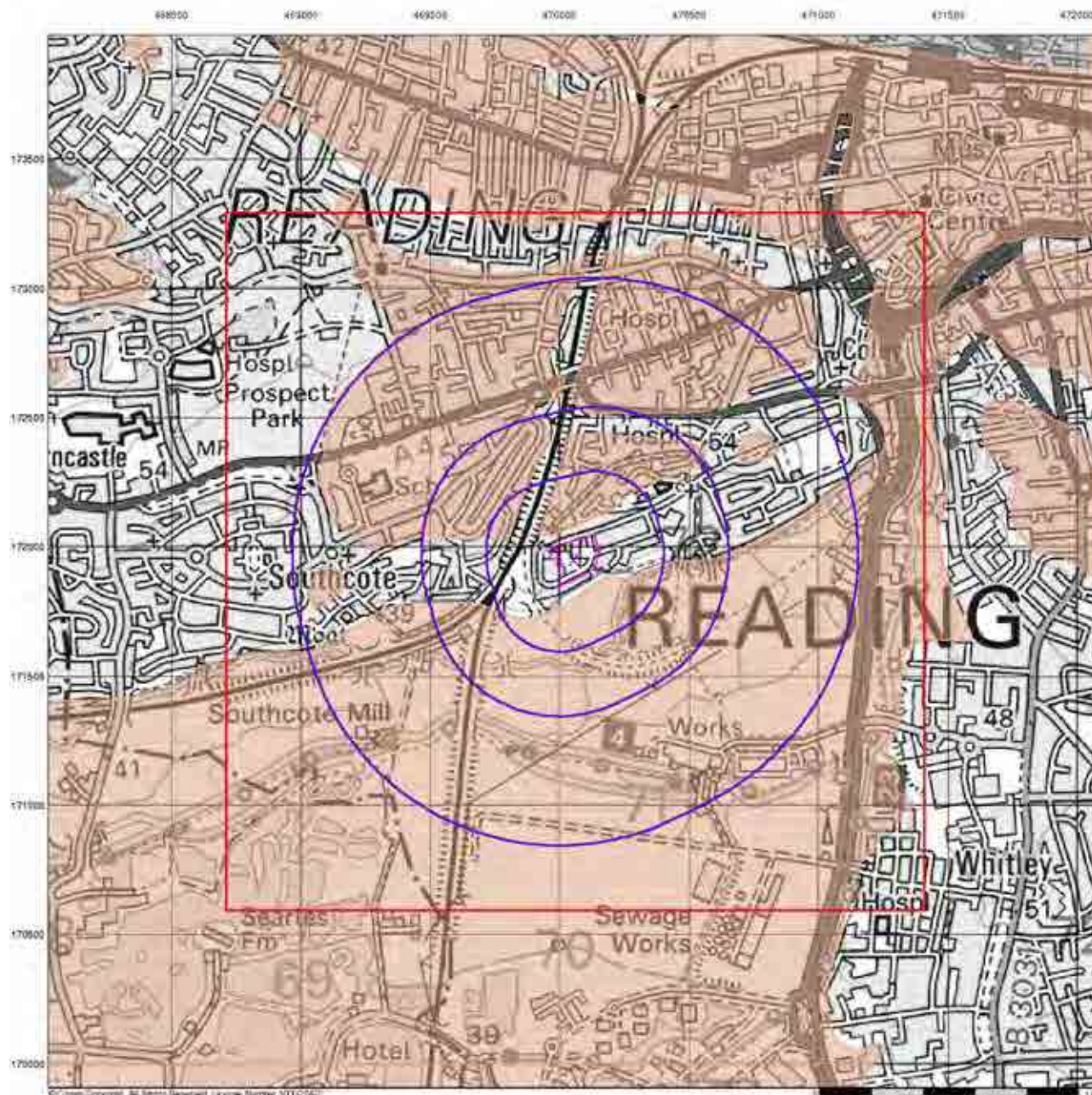
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Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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Geo-Environmental Superficial Aquifer Designation

General

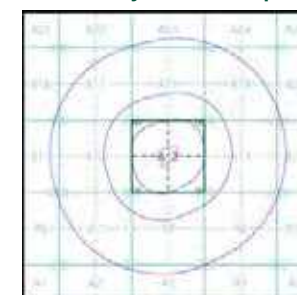
- Designated Site
- Search Buffer
- Existing Hydrocarbon Pool
- Mine
- MAA 30

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Unconsolidated
- Unproductive Strata
- Unclay
- (Thrown) (Leak and Lateral)

Site Sensitivity Context Map - Slice A



Order Details

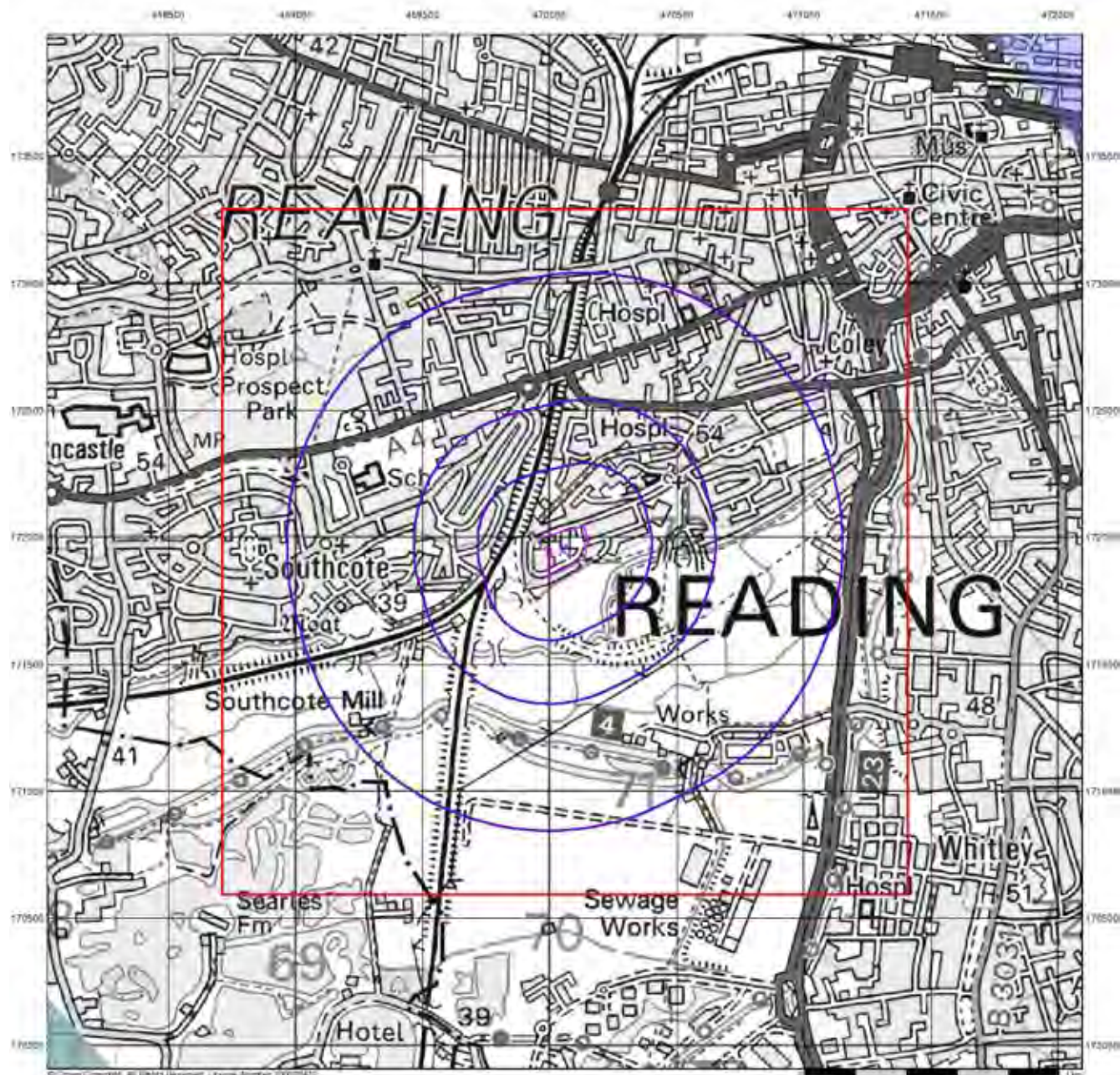
Order Number: 233825467_1_1
 Customer Ref: GE18760
 National Grid Reference: 470060, 171950
 Slice: A
 Site Area (Ha): 2.26
 Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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 Web: www.envirocheck.co.uk



Geo-Environmental Source Protection Zones

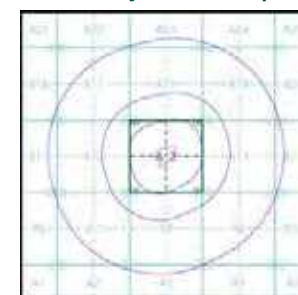
General

-  Drinking Water
-  Sewage Treatment Works
-  Drinking Water Production
-  Sewage
-  MAA

Agency and Hydrological

-  Drinking Water (Zone 1)
-  Sewage (Zone 1)
-  Drinking Water (Zone 2)
-  Sewage (Zone 2)
-  Drinking Water (Zone 3)
-  Sewage (Zone 3)
-  Drinking Water (Zone 4)
-  Sewage (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

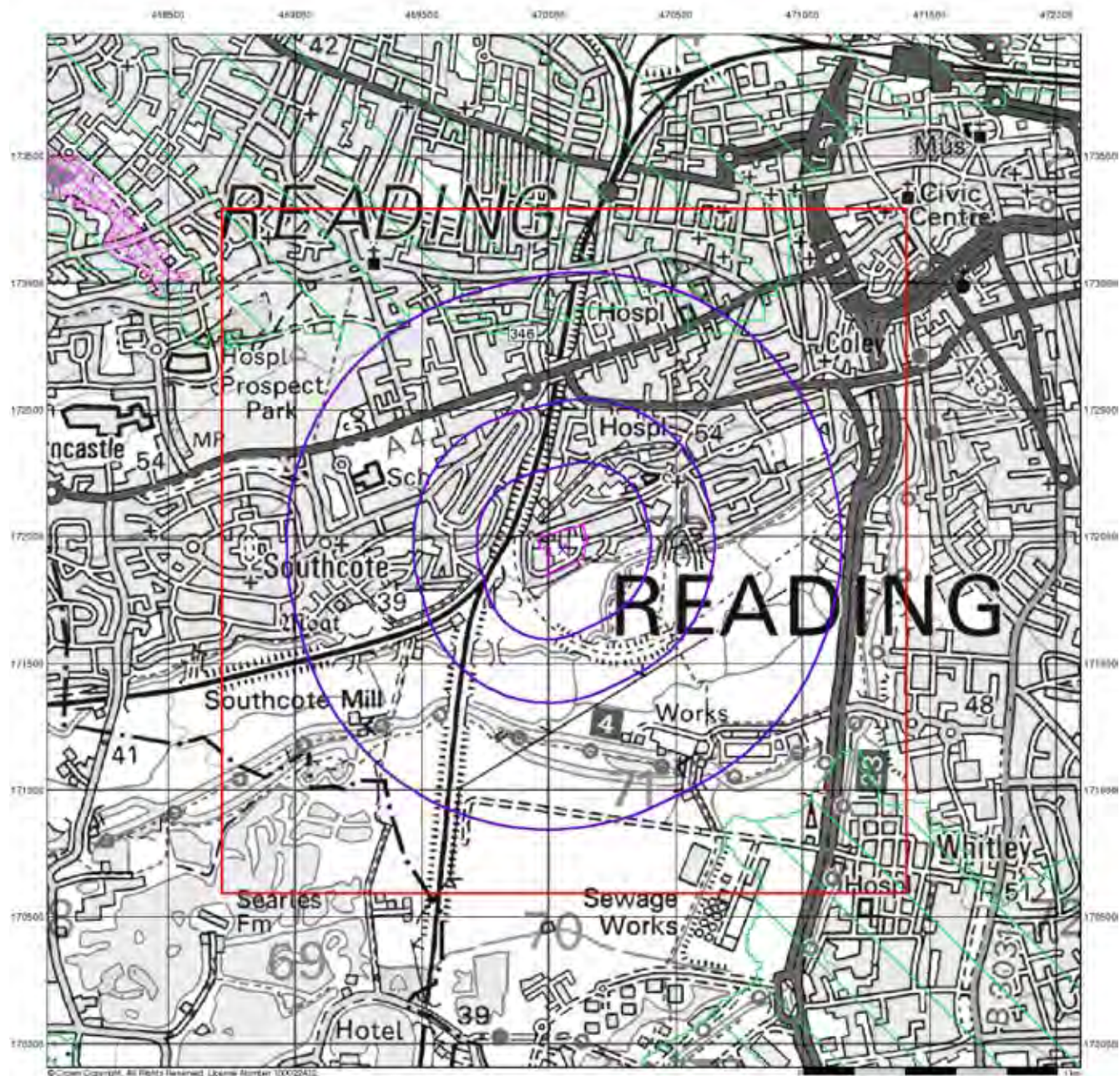
Order Number: 233825467_1_1
 Customer Ref: GE18760
 National Grid Reference: 470060, 171950
 Slice: A
 Site Area (Ha): 2.26
 Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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 Fax: 0844 844 9951
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Geo-Environmental Sensitive Land Uses

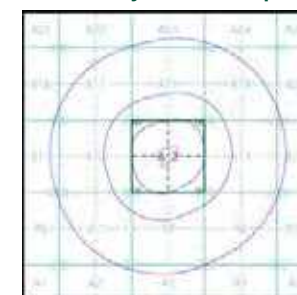
General

- Designated Site
- Designated Buffer
- Sewing Hydrograph Point
- River
- Main Road

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

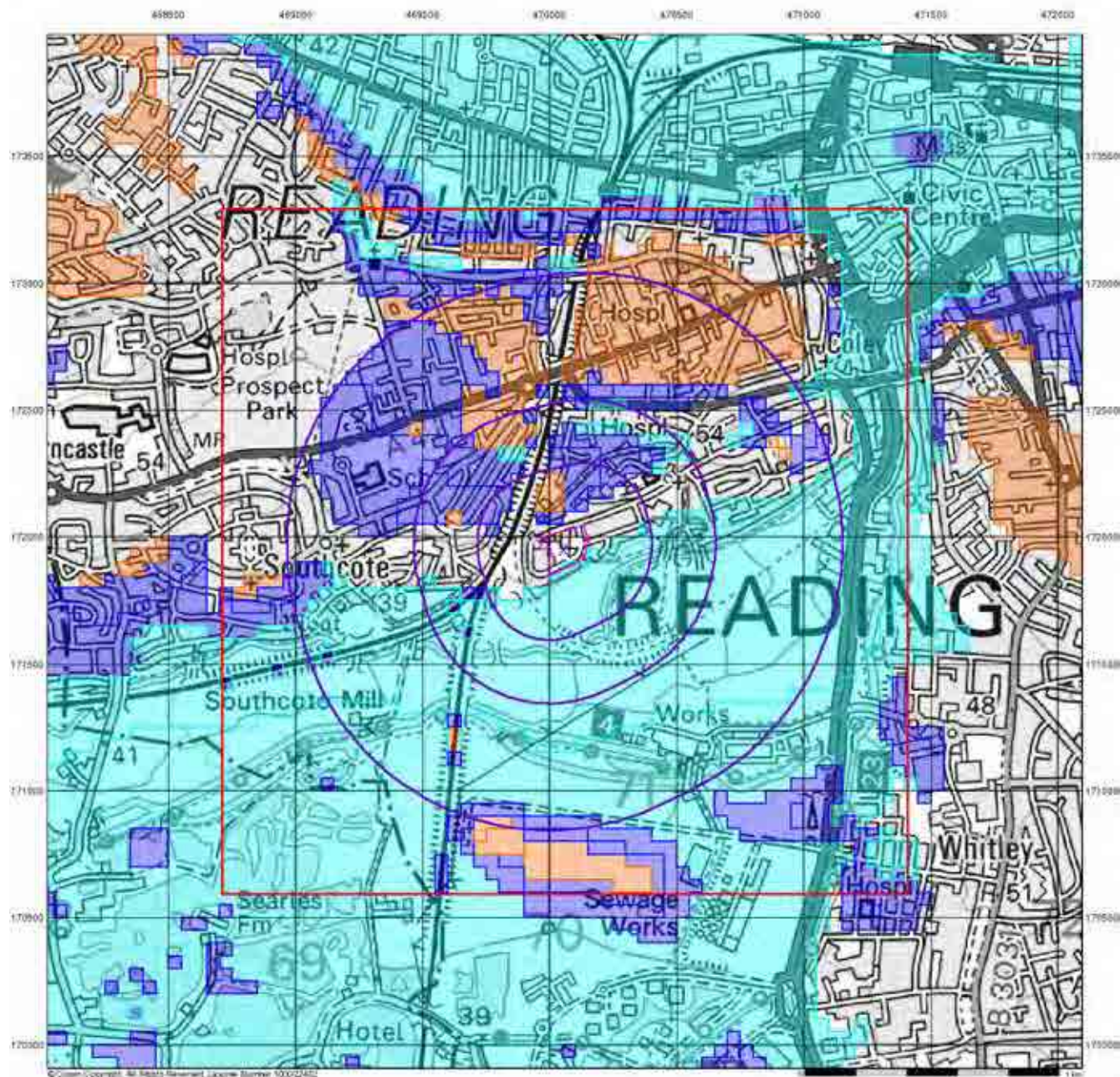
Order Number: 233825467_1_1
 Customer Ref: GE18760
 National Grid Reference: 470060, 171950
 Slice: A
 Site Area (Ha): 2.26
 Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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 Fax: 0844 844 9951
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Geo-Environmental

BGS Flood GFS Data

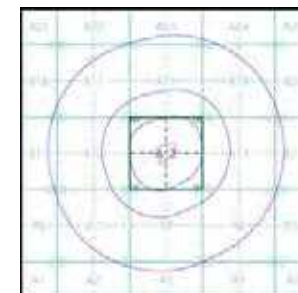
General

- Flooded Site
- Search Buffer(s)
- Sewing Reference Point
- Risk

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 233825467_1_1
 Customer Ref: GE18760
 National Grid Reference: 470060, 171950
 Slice: A
 Site Area (Ha): 2.26
 Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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 Fax: 0844 844 9951
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Geo-Environmental

General

- Specified Site
- Specified Buffer(s)
- Severely of Type at Location
- Pyron
- Bearing Watercourse Road
- Overhead Transmission Line

Agency and Hydrological

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

Hazardous Substances

- COMAH Site
- Explosive Site
- HERS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site

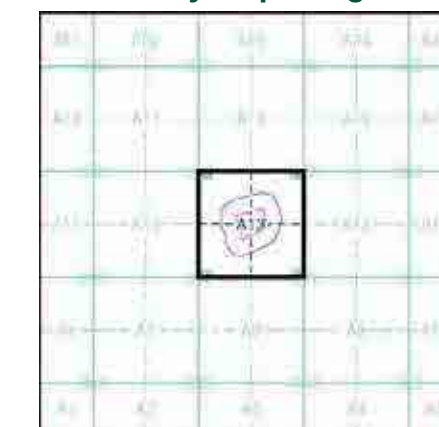
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Burial Rule)
- EA Historic Landfill (Provision)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Location)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Over 100m)
- Registered Landfill Site (Over 100m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A13



Order Details

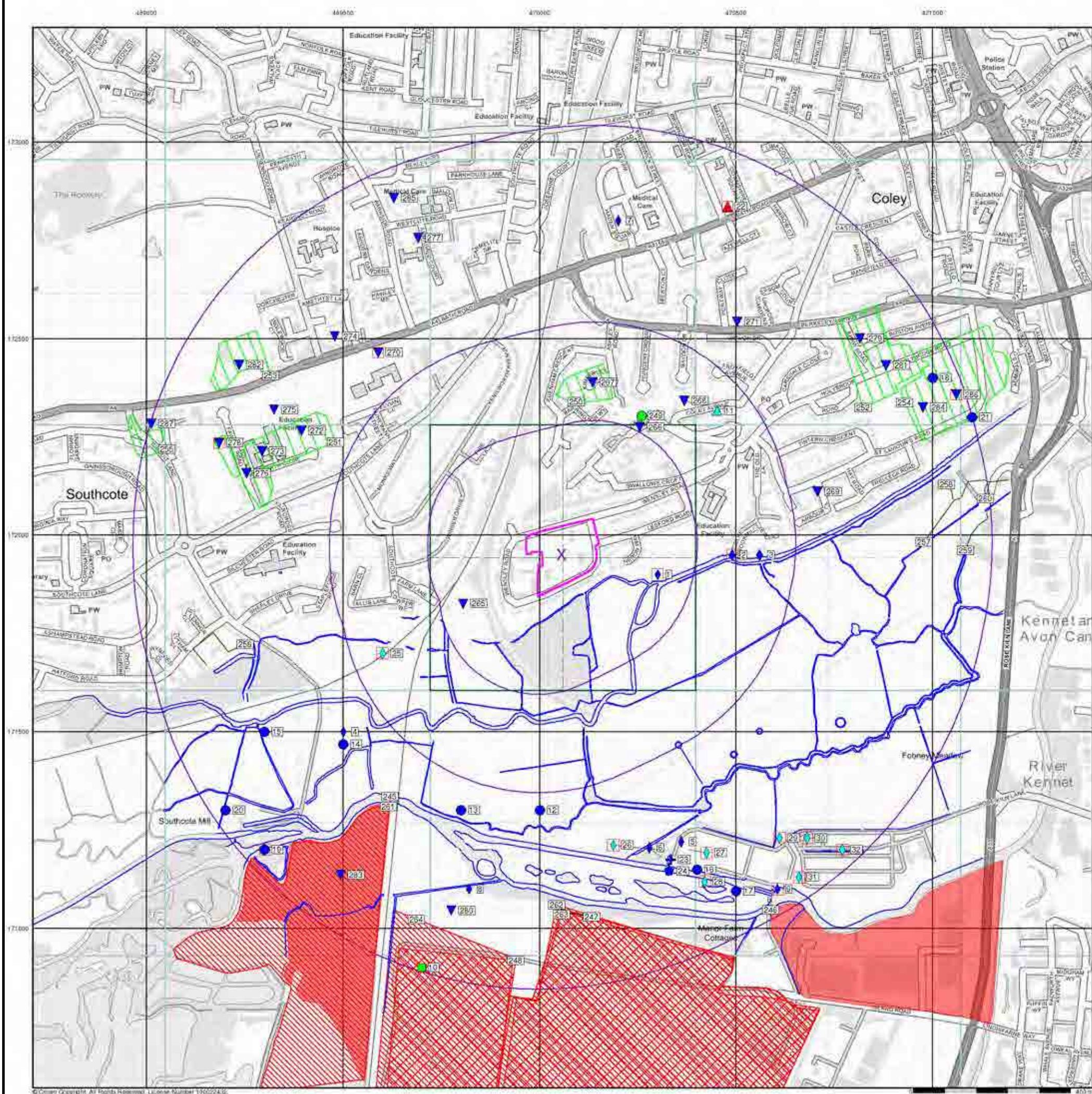
Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Plot Buffer (m): 100

Site Details

Wensley Road, READING, RG1 6DR

Landmark
Information Group

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Web: www.envirocheck.co.uk



Geo-Environmental

General

- Specified Site Specified Buffers X Drawing Reference Point Map E

Agency and Hydrological

- | | | | |
|--|---|--|--|
| | Contaminated Land Register Entry or Notice (Location) | | DOL Recorded Landfill Site (Location) |
| | Contaminated Land Register Entry or Notice | | DOL Recorded Landfill Site |
| | Discharge Consent | | EA Historic Landfill (Reference Point) |
| | Enforcement or Prohibition Notice | | EA Historic Landfill (Map) |
| | Integrated Pollution Control | | Integrated Pollution Control Registered Waste Site |
| | Integrated Pollution Prevention Control | | Licensed Waste Management Facility (Landfill boundary) |
| | Local Authority Integrated Pollution Prevention and Control | | Licensed Waste Management Facility (Location) |
| | Local Authority Pollution Prevention and Control | | Local Authority Recorded Landfill Site (Location) |
| | Local Authority Pollution Prevention and Control | | Local Authority Recorded Landfill Site (Map) |

Waste

- DOG Recorded Landfill Site (Location)
- HOS Recorded Landfill Site
- EA Historic Landfill (Refused Refuse)
- EA Historic Landfill (Refuse)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Peak Refused to 1989)
- Registered Landfill Site (Peak Refused to 1989)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

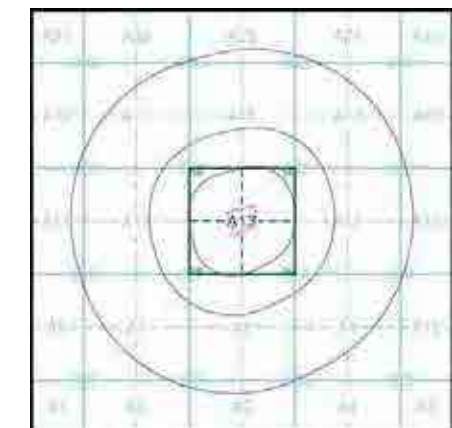
Hazardous Substances

-  COMAH Site
  Explosive Site
  Registered Waste Transfer Site (Quarries)
  LEPPC Site
  Registered Waste Transfer Site
  Registered Waste Treatment or Disposal Site (Landfill)
  Planning Hazardous Substance Consent
  Registered Waste Treatment or Disposal Site
  Planning Hazardous Substance Enforcement
  Registered Waste Treatment or Disposal Site

Geological

- ▼ [DOD-Recorded Mineral Site](#)

Site Sensitivity Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR

Landmark
an information group

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



Geo-Environmental Industrial Land Use Map

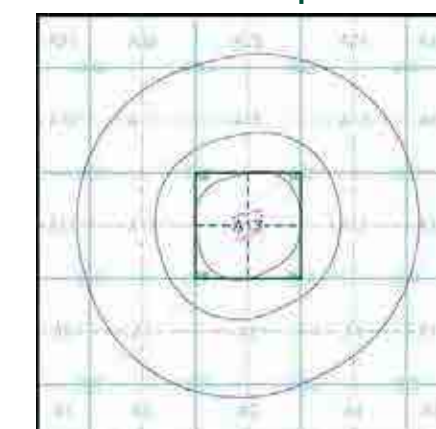
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

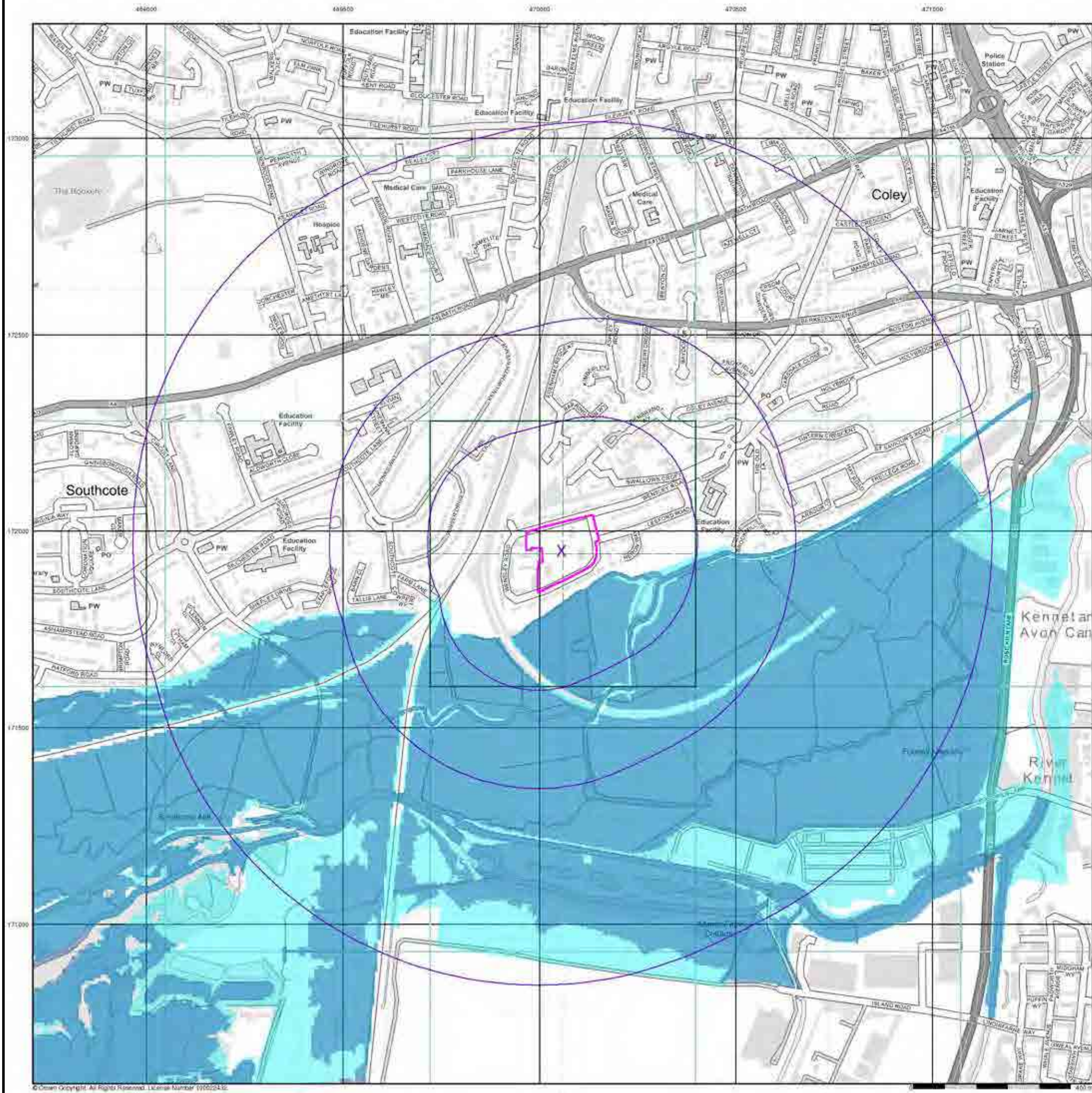
Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR

Landmark
Information Group

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



Geo-Environmental

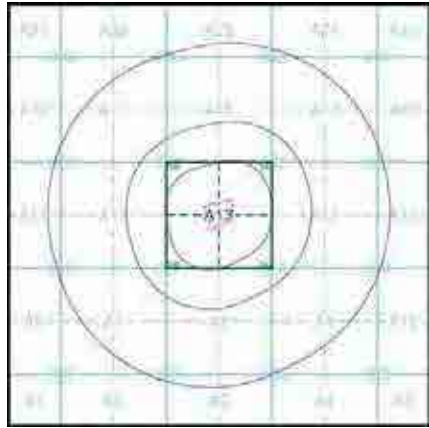
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

Order Number: 233825467_1_1
 Customer Ref: GE18760
 National Grid Reference: 470060, 171950
 Slice: A
 Site Area (Ha): 2.26
 Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



Tel: 0844 844 9952
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Geo-Environmental

General

- Specified Site
- Specified Buffer(s)
- Design Reference Point
- Map ID
- Severest Type at Location

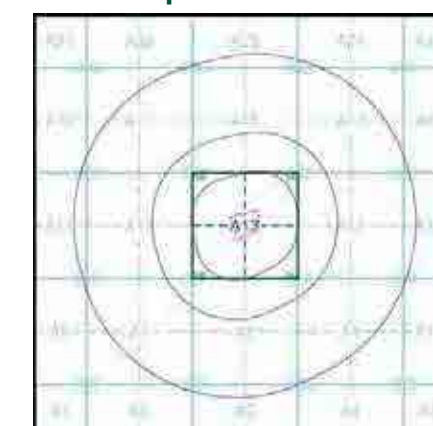
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR

Landmark
Information Group

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



Geo-Environmental

General

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

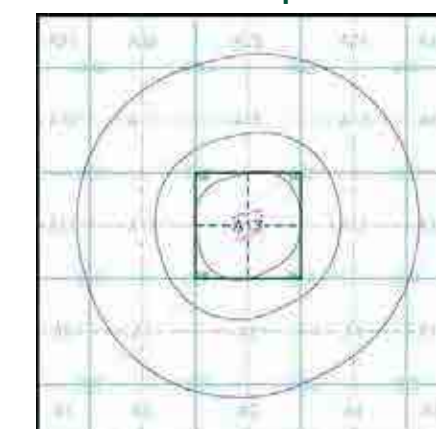
OS Water Network Data

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

Contours (height in meters)

- | | |
|------------------|-----------------|
| Standard Contour | Mean Low Water |
| Master Contour | Mean High Water |
| Spot Height | |

OS Water Network Map - Slice A



Order Details

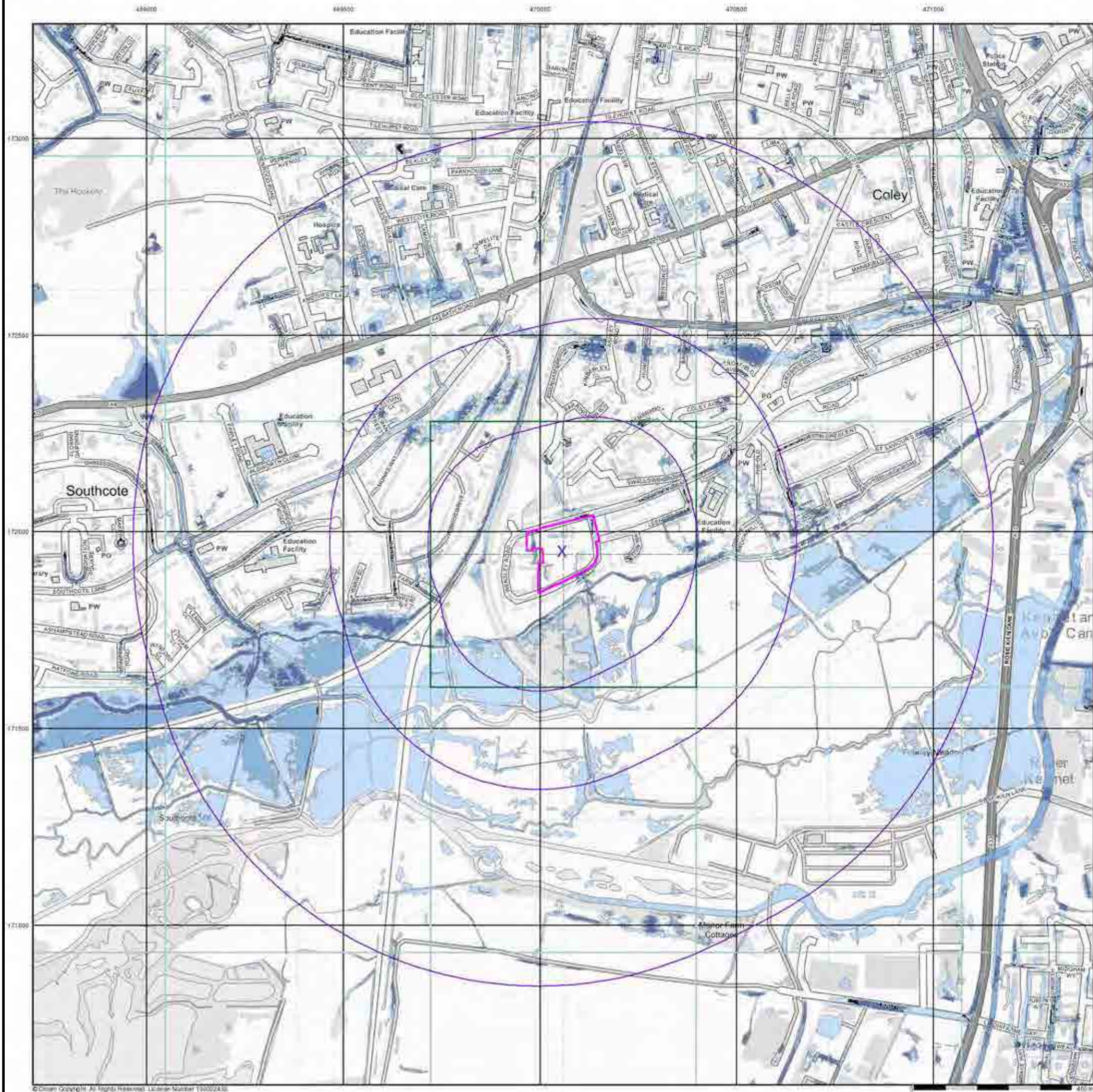
Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR

Landmark
Information Group

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



Geo-Environmental

General

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

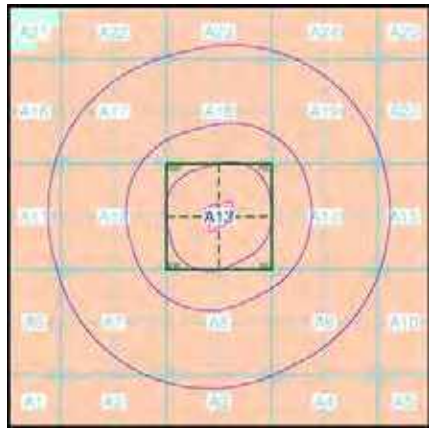
Risk of Flooding from Surface Water

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

Suitability

- See the suitability map below:
- Regional to county
 - County to town
 - Town to street
 - Street to parcels of land
 - Regularity

EANRW Suitability Map - Slice A



Order Details

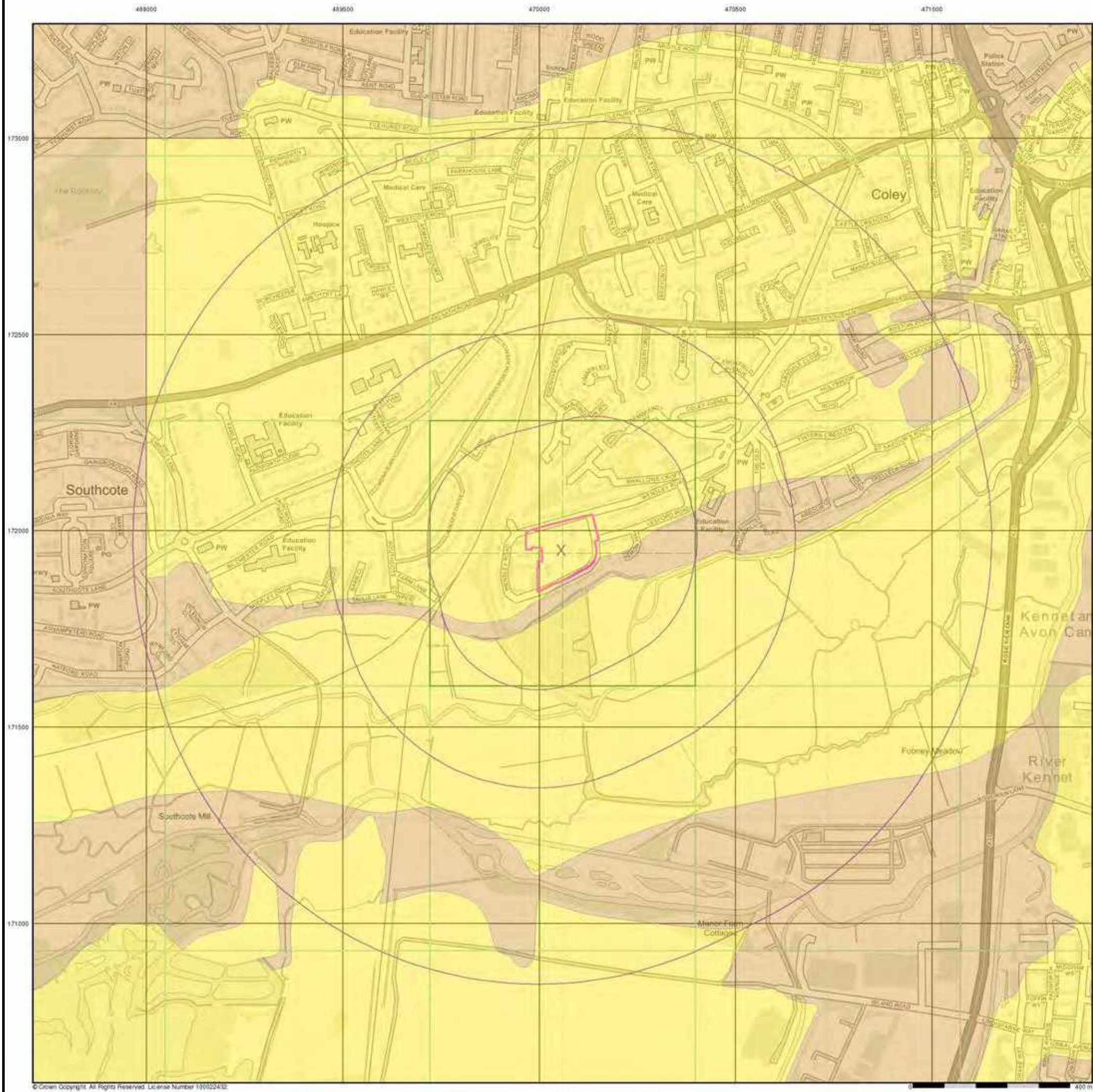
Order Number: 233825467_1_1
 Customer Ref: GE18760
 National Grid Reference: 470060, 171950
 Slice: A
 Site Area (Ha): 2.26
 Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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



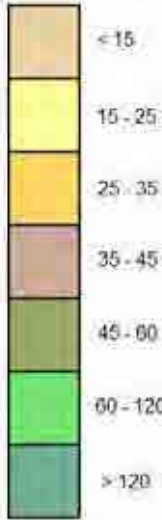
Geo-Environmental

General

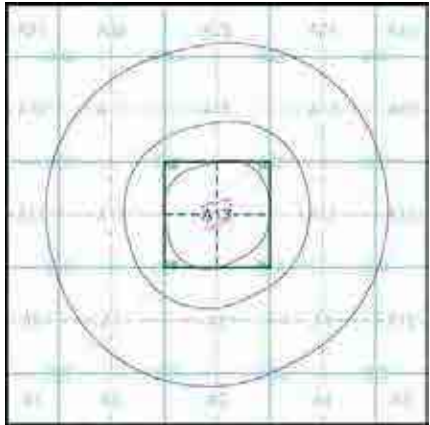
☒ Specified Site ☐ Specified Buffer(s) ☒ Existing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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



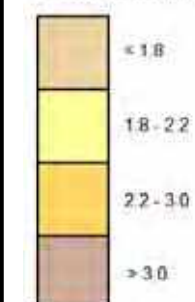
Geo-Environmental

General

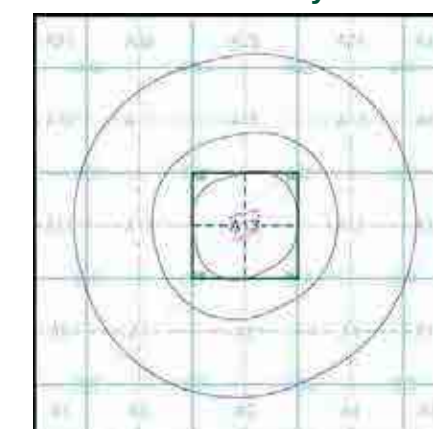
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR

Landmark
Information Group

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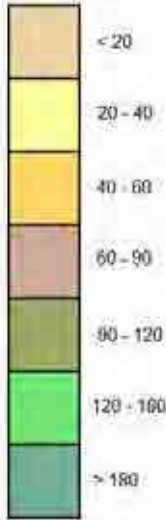
Geo-Environmental

General

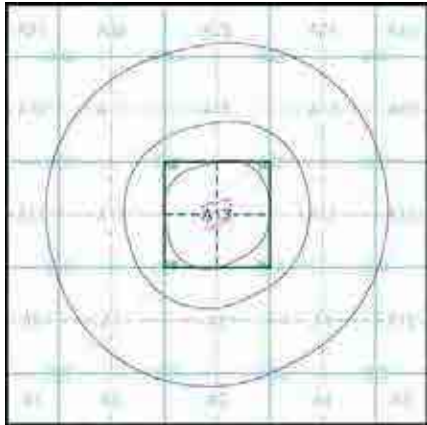
☒ Specified Site ☐ Specified Buffer(s) ☒ Existing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

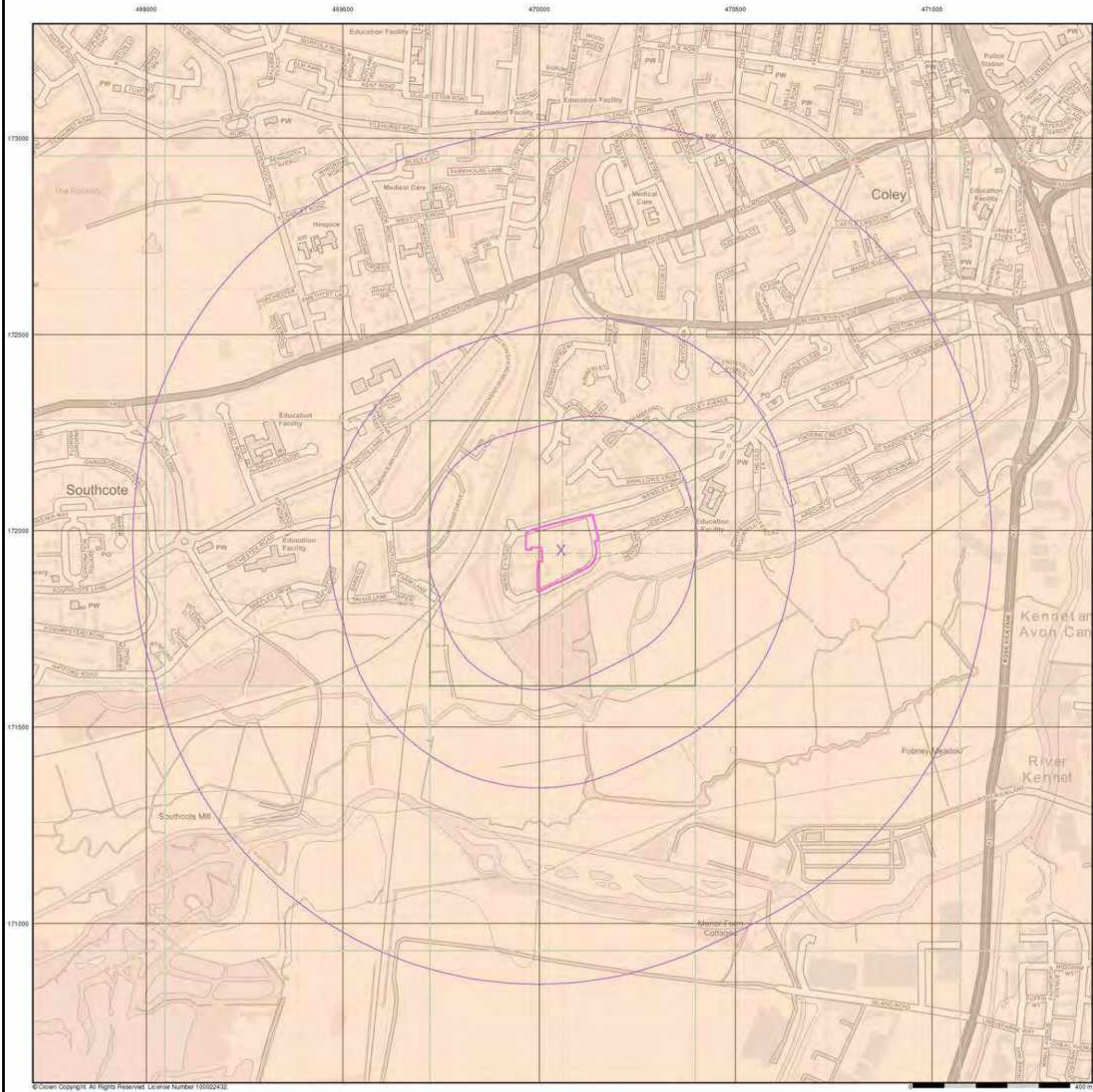
Order Details: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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Web: www.envirocheck.co.uk



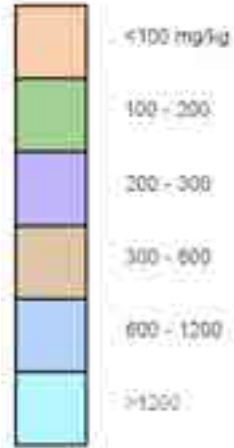
Geo-Environmental

General

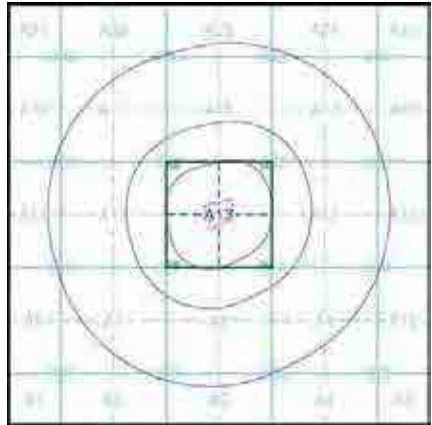
Selected Site Spreading Buffer(s) **X** Existing Reference Entry

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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



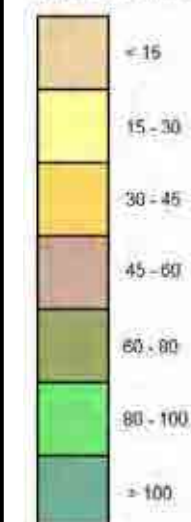
Geo-Environmental

General

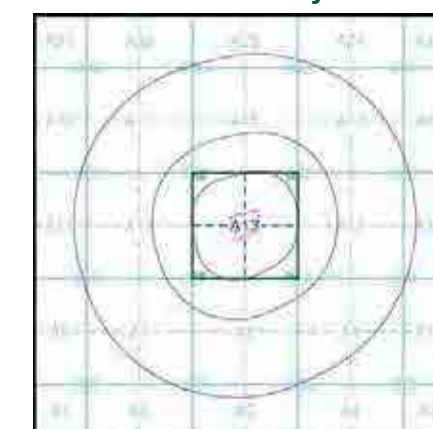
Specified Site Specified Buffer (m) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR

Landmark
Information Group

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

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
		Faults		

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	BGGR	Beenham Grange Gravel Member	Sand and Gravel	Not Supplied - Devensian
	LASI	Langley Silt Member	Clay and Silt	Not Supplied - Devensian
	KPGR	KEMPTON PARK GRAVEL MEMBER	Sand and Gravel	Not Supplied - Devensian
	LHGR	Lynch Hill Gravel Member	Sand and Gravel	Not Supplied - Wolstonian
	TPGR	TAPLOW GRAVEL MEMBER	Sand and Gravel	Not Supplied - Wolstonian
	BHT	Boyn Hill Gravel Member	Sand and Gravel	Not Supplied - Hoxnian
	WIHG	Winter Hill Gravel	Sand and Gravel	Not Supplied - Anglian
	HEAD	Head	Gravel, Sand, Silt and Clay	Not Supplied - Quaternary
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Not Supplied - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LC	London Clay Formation	Clay, Silt and Sand	Not Supplied - Ypresian
	LMBE	Lambeth Group	Clay, Silt and Sand	Not Supplied - Thanetian
	SNCK	Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)	Chalk	Not Supplied - Coniacian



Geology 1:50,000 Maps

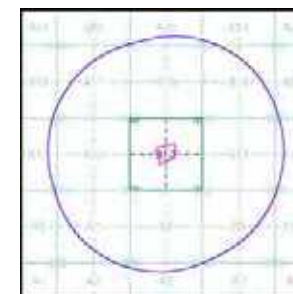
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID: 1
Map Sheet No: 268
Map Name: Reading
Map Date: 2000
Bedrock Geology: Available
Superficial Geology: Available
Artificial Geology: Available
Faults: Not Supplied
Landslip: Not Available
Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

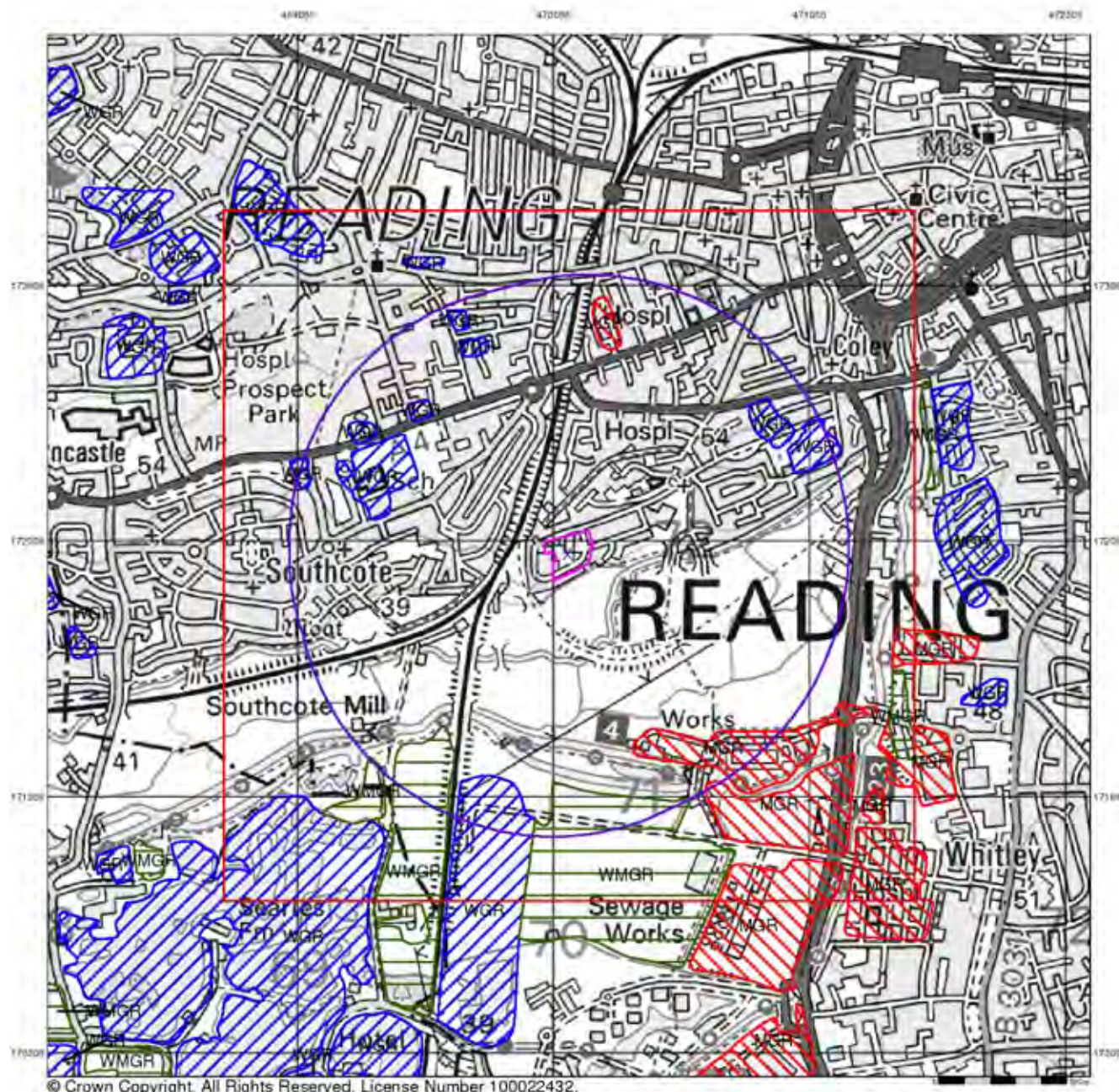
Order Number: 233825467_1_1
Customer Reference: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details:

Wensley Road, READING, RG1 6DR



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



Geo-Environmental

Artificial Ground and Landslip

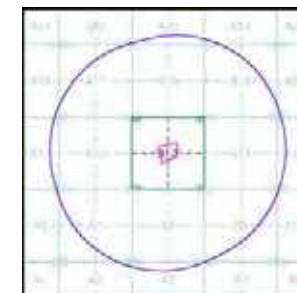
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

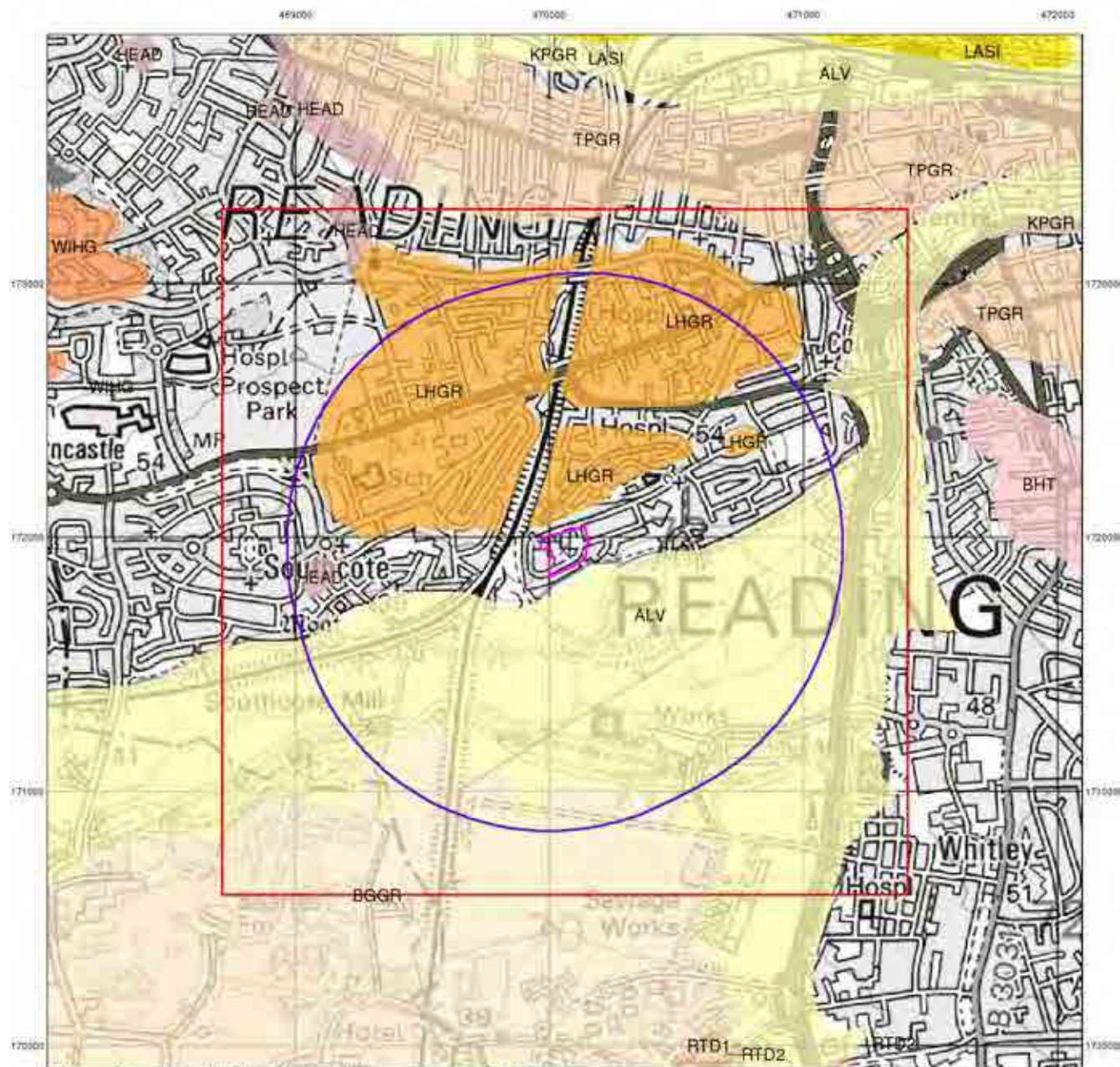
Order Number: 233825467_1_1
 Customer Reference: GE18760
 National Grid Reference: 470060, 171950
 Slice: A
 Site Area (Ha): 2.26
 Search Buffer (m): 1000

Site Details:

Wensley Road, READING, RG1 6DR



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 Fax: 0844 844 9951
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Geo-Environmental

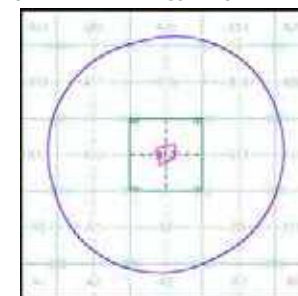
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

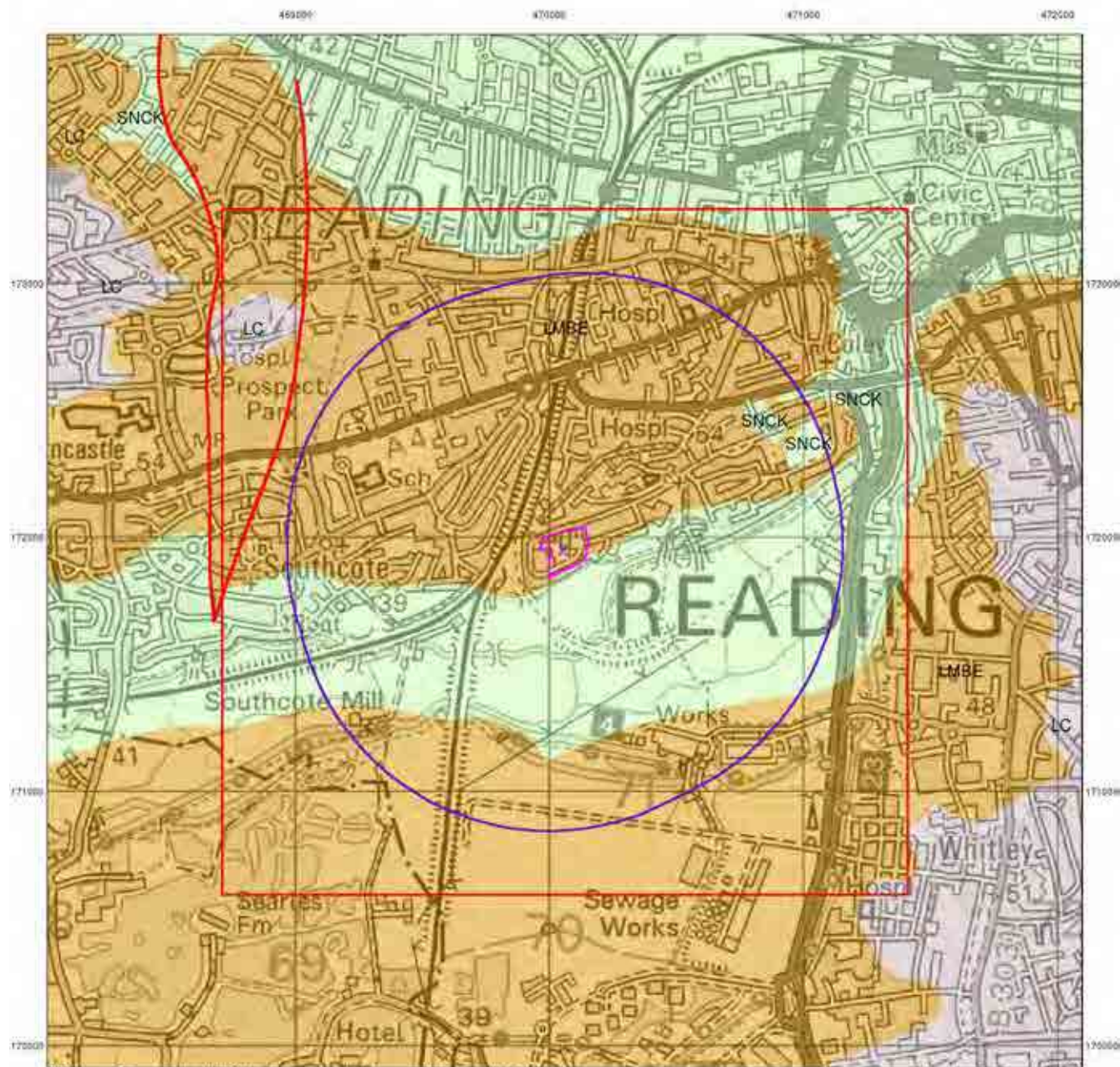
Order Number: 233825467_1_1
 Customer Reference: GE18760
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Landmark
 INFORMATION GROUP

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Geo-Environmental

Bedrock and Faults

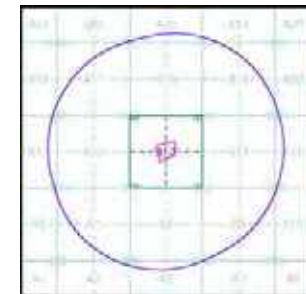
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

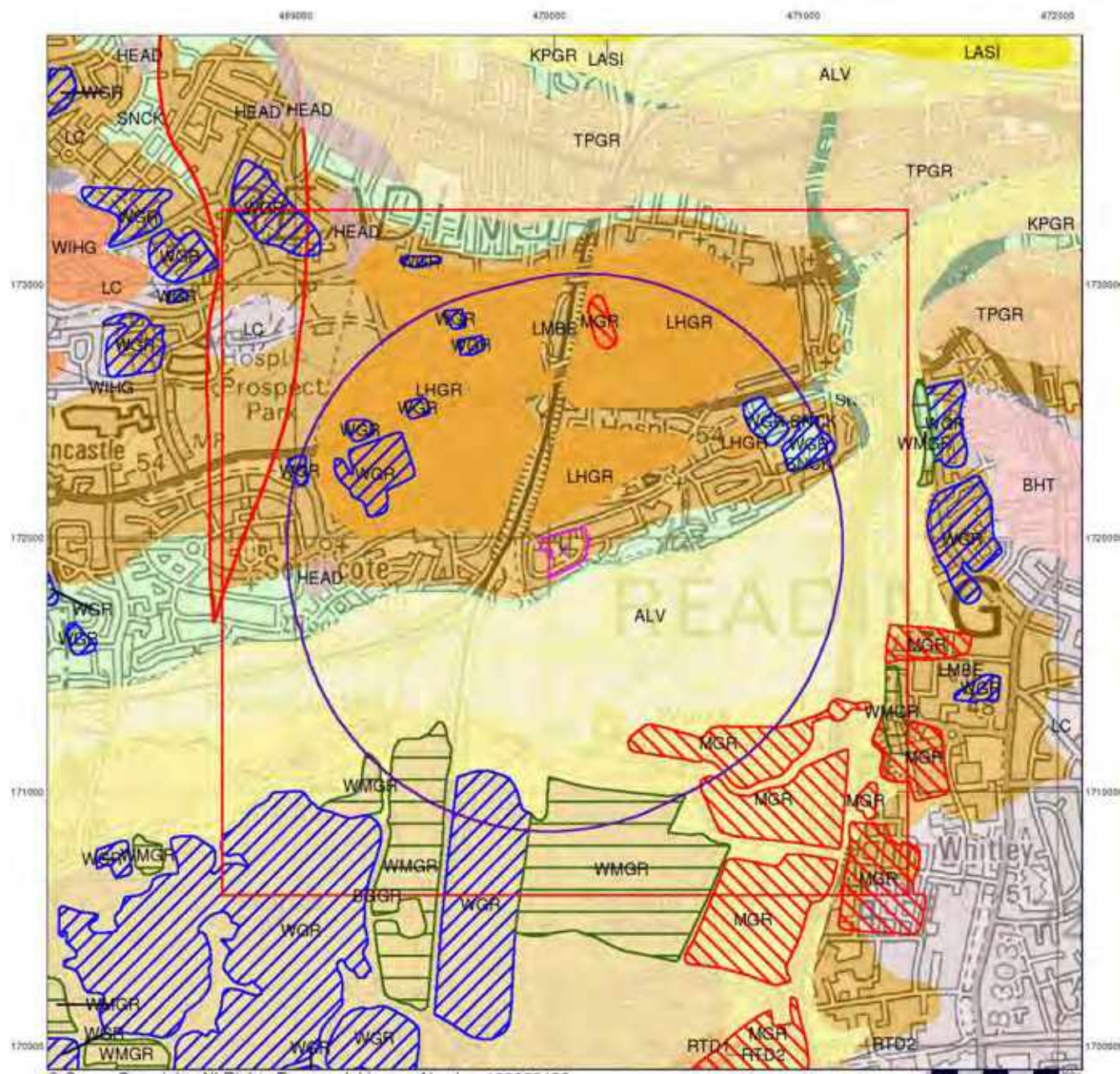
Order Number: 233825467_1_1
 Customer Reference: GE18760
 National Grid Reference: 470060, 171950
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Geo-Environmental

Combined Surface Geology

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

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

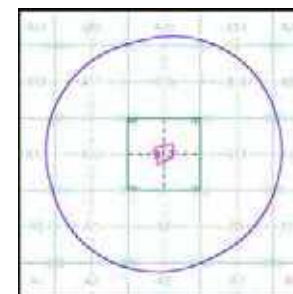
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

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Historical Mapping Legends

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

	Quarry		Gravel Pit		Sand Pit
	Clay Pit		Shingle		Refuse Heap
	Sloping Masonry		Flat Rock		
	Marsh		Reeds		Osiers
	Rough Pasture		Furze		Wood
	Mixed Wood		Brushwood		Orchard
	Fir		Ford		Stepping Stones
	Ferry		Waterfall		Lock
	Trig. Station		Altitude at Trig. Station		
	B.M. 325.9		Bench Mark		Surface Level
	Arrow denotes flow of water		Antiquities (site of)		
	Cutting		Embankment		
	Railway crossing Road		Level Crossing		Road crossing Railway
	Railway crossing River or Canal		Road over single stream		Road over River or Canal
	County Boundary (Geographical)		County & Civil Parish Boundary		Administrative County & Civil Parish Boundary
	County Borough Boundary (England)		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		S.L. 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

	Inactive Quarry, Chalk Pit or Clay Pit		Active Quarry, Chalk Pit or Clay Pit
	Rock		Boulders
	Cliff		Slopes
	Roofed Building		Glazed Roof Building
	Sloping Masonry		Archway
	Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)
	Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)
	Orchard Tree		Scrub
	Coppice, Osier		Reeds
	Rough Grassland		Heath
	Direction of water flow		Bench Mark
	Cave Entrance		Triangulation Station
	Electricity Transmission Line		Electricity Pylon
	County Boundary (Geographical)		County & Civil Parish Boundary
	County Boundary		Boundary post/stone
	Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)		
	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
	EI 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

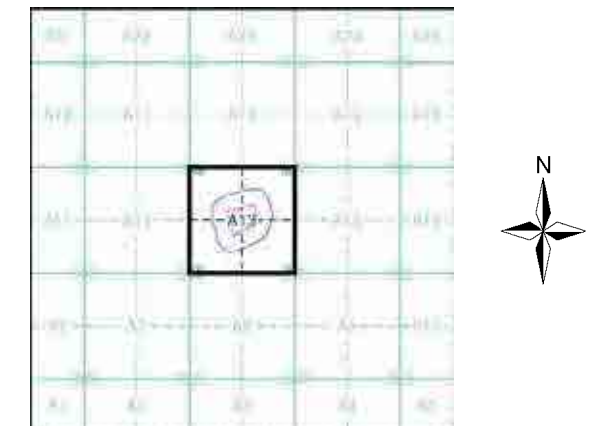
	Cliff		Slopes
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Positioned Boulder		Scree
	Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)
	Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)
	Orchard Tree		Scrub
	Coppice, Osier		Reeds
	Rough Grassland		Heath
	Direction of water flow		Triangulation Station
	Electricity Transmission Line		Electricity Pylon
	Bench Mark		Buildings with Building Seed
	Roofed Building		Glazed Roof Building
	Civil parish/community boundary		
	District boundary		
	County boundary		
	Boundary post/stone		
	Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)		
	Bks Barracks		P Pillar, Pole or Post
	Bty Battery		PO Post Office
	Cem Cemetery		PC Public Convenience
	Chy Chimney		Pp Pump
	Cis Cistern		Ppg Sta Pumping Station
	Disntd Rly Dismantled Railway		PW Place of Worship
	El Gen Sta Electricity Generating Station		Sewage Ppg Sta Sewage Pumping Station
	EI P Electricity Pole, Pillar		SB, S Br Signal Box or Bridge
	El Sub Sta Electricity Sub Station		SP, SL Signal Post or Light
	FB Filter Bed		Spr Spring
	Fn / D Fn Fountain / Drinking Ftn.		Tk Tank or Track
	Gas Gov Gas Valve Compound		Tr Trough
	GVC Gas Governor		Wd Pp Wind Pump
	GP Guide Post		Wr Pt, Wr T Water Point, Water Tap
	MH Manhole		Wks Works (building or area)
	MP, MS Mile Post or Mile Stone		W Well



Geo-Environmental Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Berkshire	1:2,500	1878 - 1879	2
Berkshire	1:2,500	1899	3
Berkshire	1:2,500	1912	4
Berkshire	1:2,500	1932	5
Ordnance Survey Plan	1:1,250	1959 - 1965	6
Ordnance Survey Plan	1:2,500	1961 - 1967	7
Additional SIMs	1:1,250	1965 - 1993	8
Ordnance Survey Plan	1:1,250	1967 - 1976	9
Ordnance Survey Plan	1:2,500	1971	10
Ordnance Survey Plan	1:1,250	1972 - 1976	11
Supply of Unpublished Survey Information	1:2,500	1974	12
Additional SIMs	1:2,500	1988 - 1989	13
Large-Scale National Grid Data	1:1,250	1993	14
Large-Scale National Grid Data	1:1,250	1995	15
Large-Scale National Grid Data	1:1,250	1996	16
Historical Aerial Photography	1:2,500	1999	17

Historical Map - Segment A13



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 100

Site Details

Wensley Road, READING, RG1 6DR



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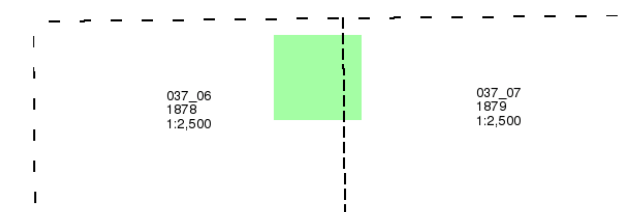
Geo-Environmental Berkshire

Published 1878 - 1879

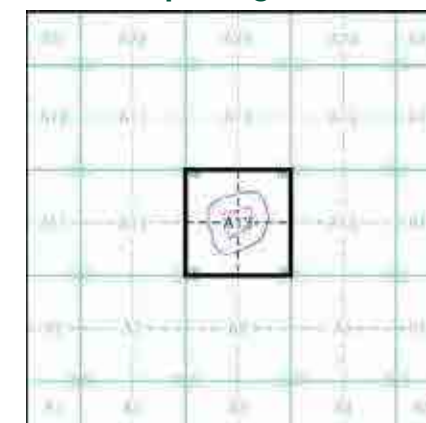
Source map scale - 1:2,500

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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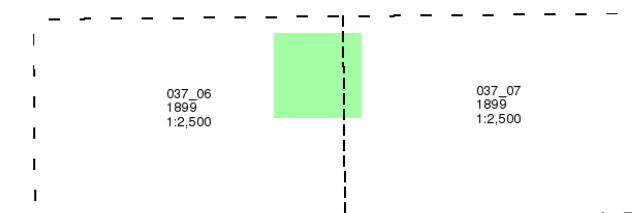
Geo-Environmental Berkshire

Published 1899

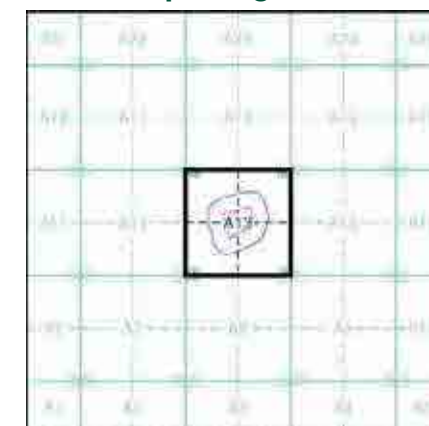
Source map scale - 1:2,500

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)



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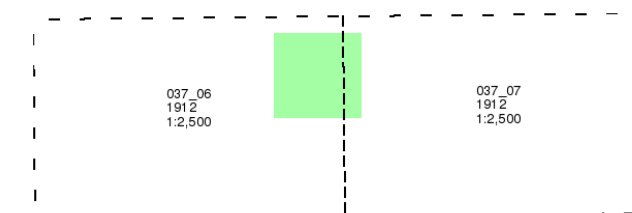
Geo-Environmental Berkshire

Published 1912

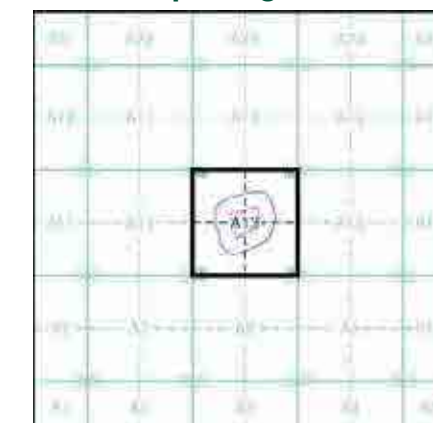
Source map scale - 1:2,500

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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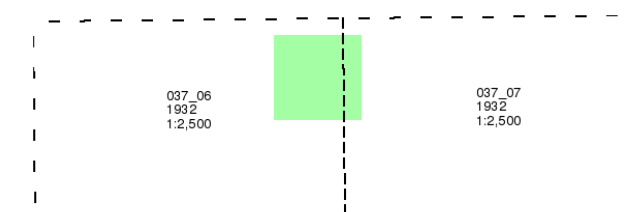
Geo-Environmental Berkshire

Published 1932

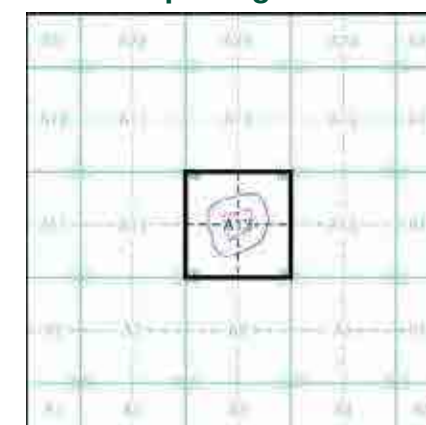
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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Geo-Environmental Ordnance Survey Plan

Published 1959 - 1965

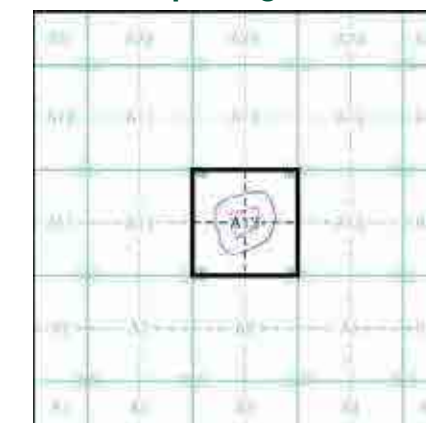
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Customer Ref: GE18760
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Slice: A
Site Area (Ha): 2.26
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Geo-Environmental Ordnance Survey Plan

Published 1961 - 1967

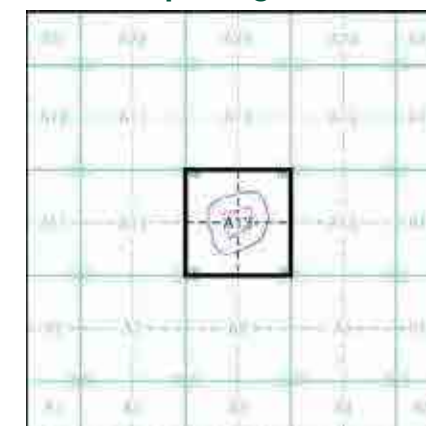
Source map scale - 1:2,500

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)

SU6972 1962 12,500	SU7072 1961 12,500
SU6971 1967 12,500	SU7071 1967 12,500

Historical Map - Segment A13



Order Details

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Geo-Environmental Additional SIMs

Published 1965 - 1993

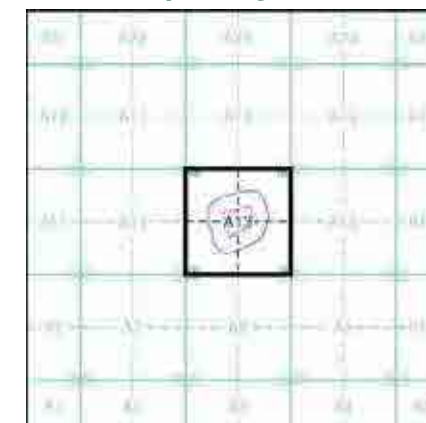
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SU7072SW
1993
1:1,250
SU7071NW
1965
1:1,250

Historical Map - Segment A13



Order Details

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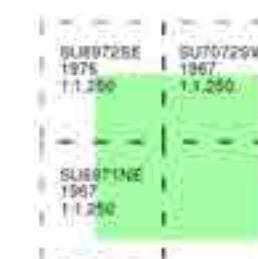
Geo-Environmental Ordnance Survey Plan

Published 1967 - 1976

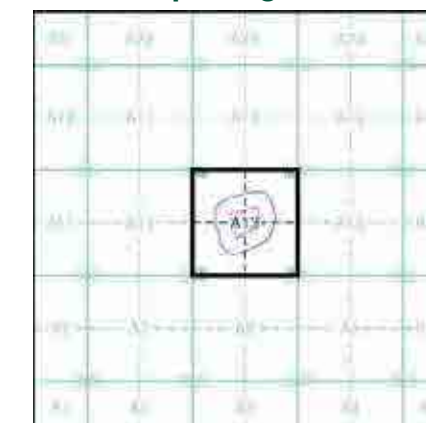
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

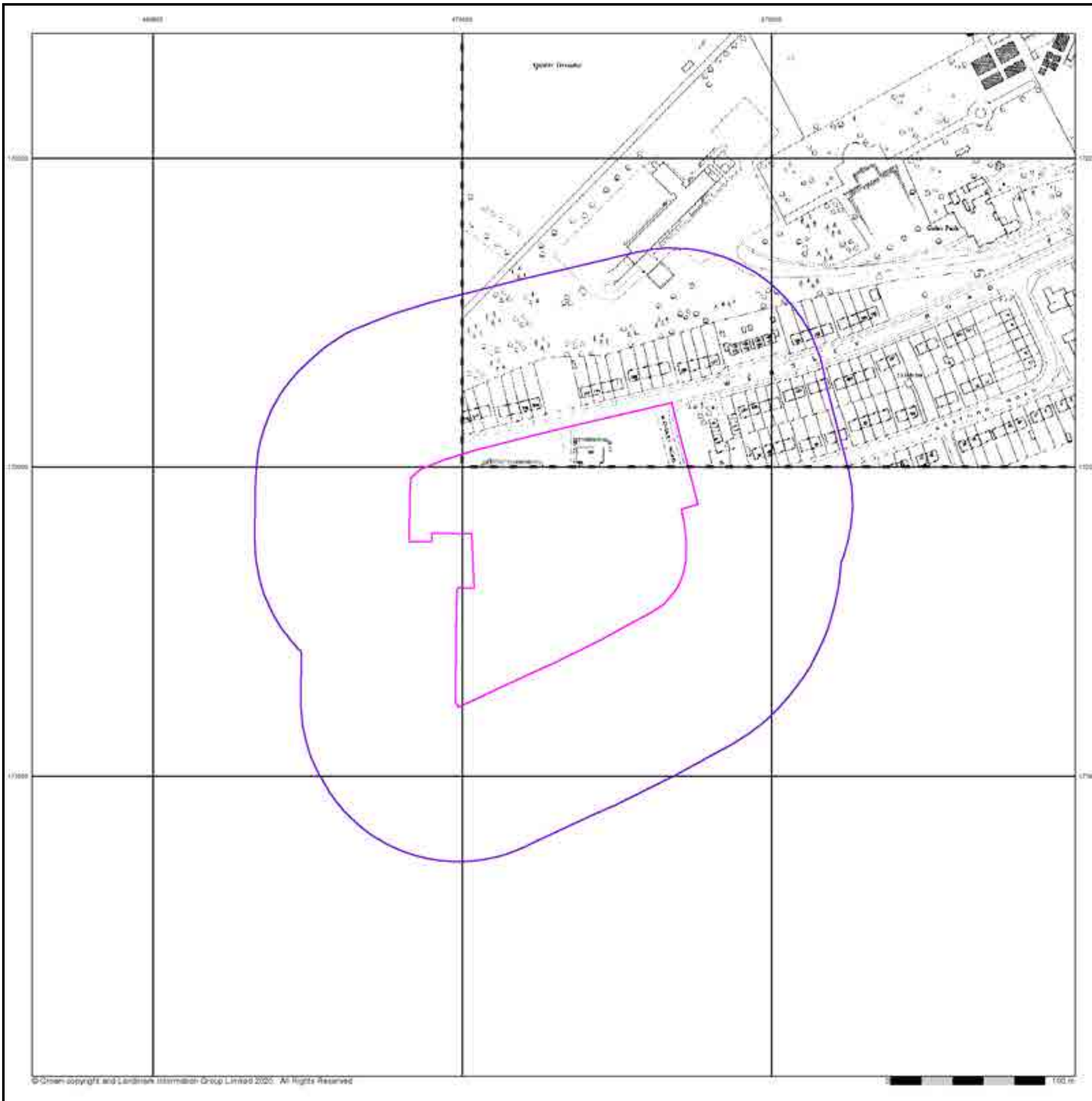
Order Number: 233825467_1_1
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Geo-Environmental Ordnance Survey Plan

Published 1971

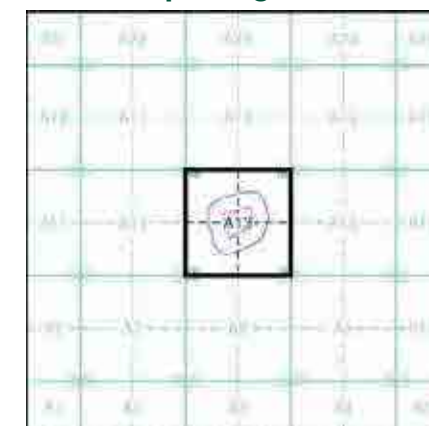
Source map scale - 1:2,500

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Map Name(s) and Date(s)

SU7072
1971
1:2,500

Historical Map - Segment A13



Order Details

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Geo-Environmental Ordnance Survey Plan

Published 1972 - 1976

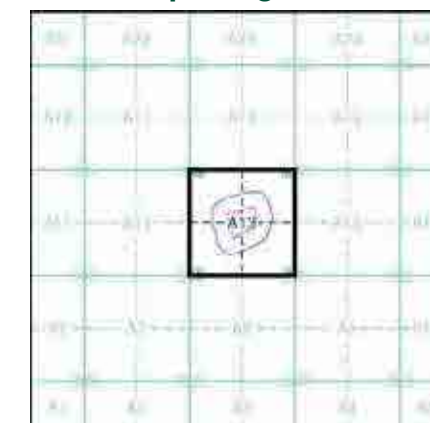
Source map scale - 1:1,250

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)

SU7072SW
1972
1:1,250
SU8971NE
1976
1:1,250

Historical Map - Segment A13



Order Details

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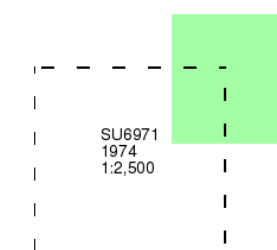
Geo-Environmental Supply of Unpublished Survey Information

Published 1974

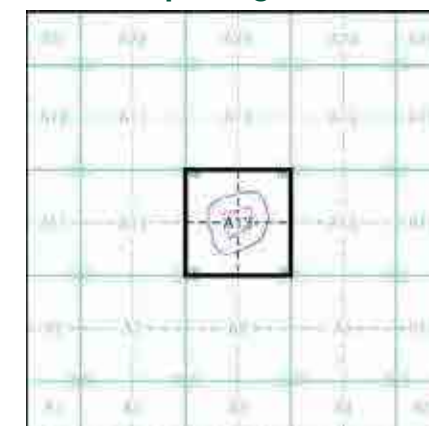
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 100

Site Details

Wensley Road, READING, RG1 6DR



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



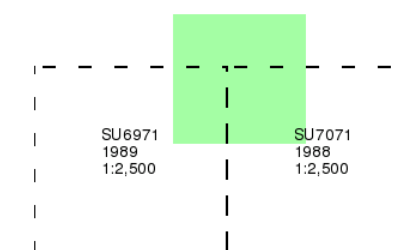
Geo-Environmental Additional SIMs

Published 1988 - 1989

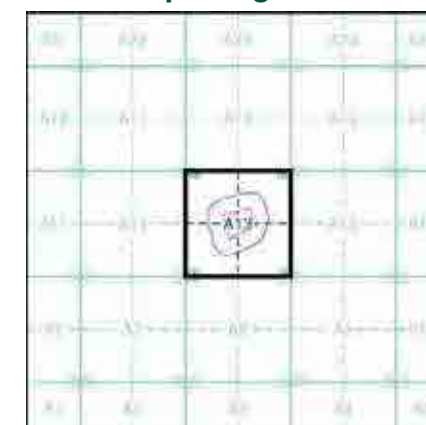
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
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Slice: A
Site Area (Ha): 2.26
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Site Details

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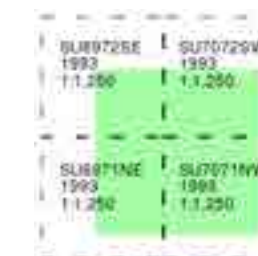
Geo-Environmental Large-Scale National Grid Data

Published 1993

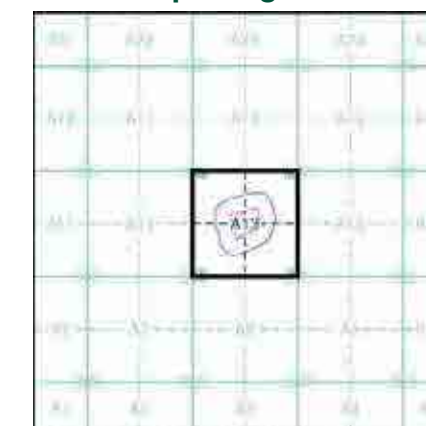
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

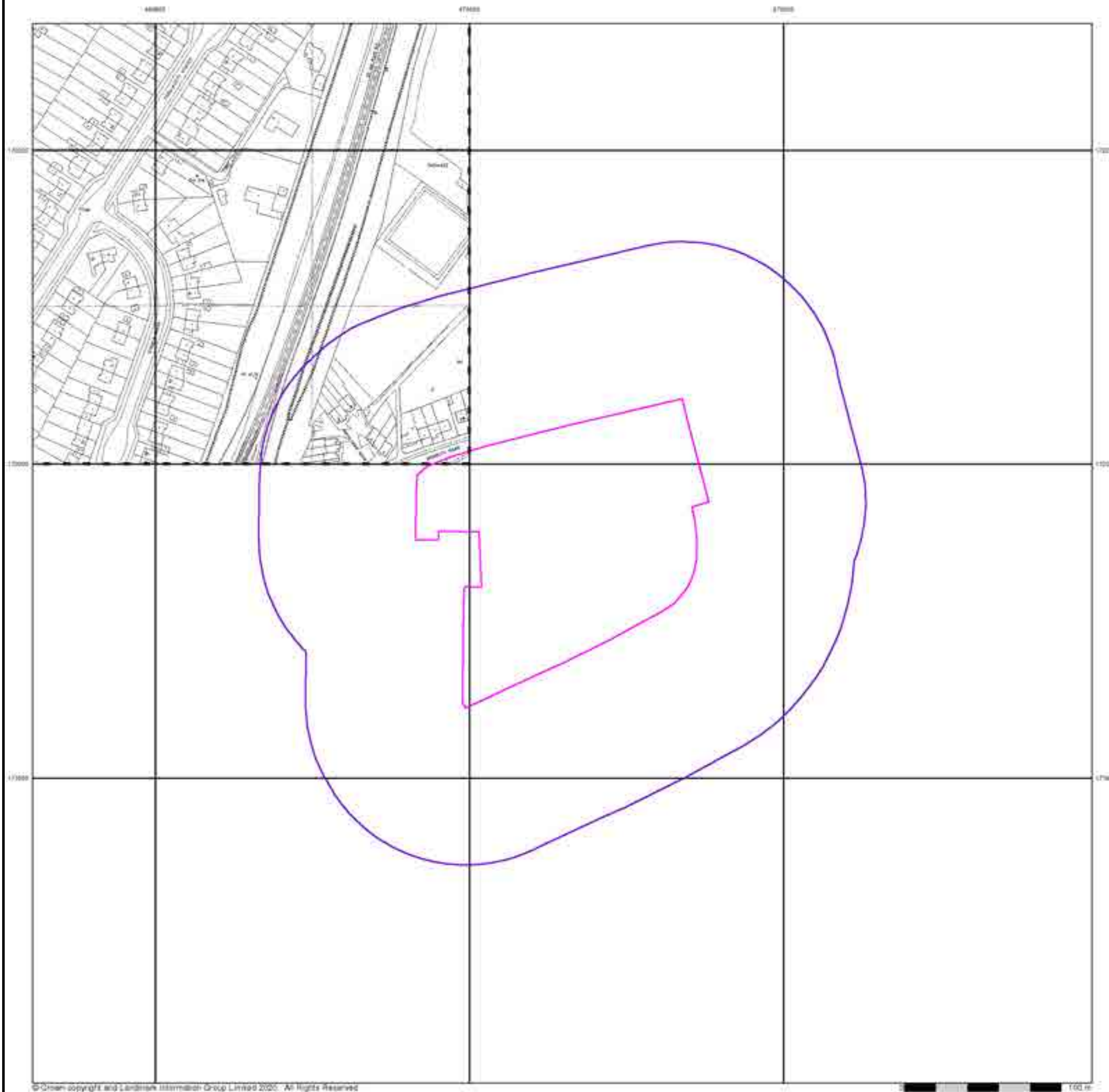
Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
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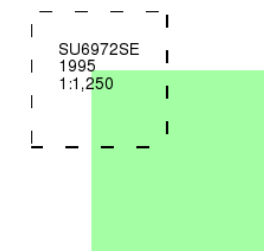
Geo-Environmental Large-Scale National Grid Data

Published 1995

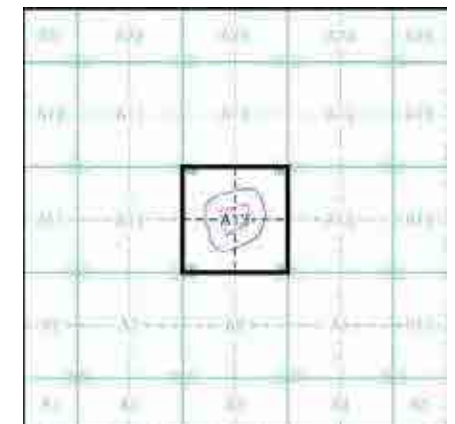
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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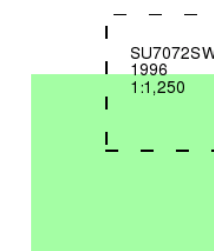
Geo-Environmental Large-Scale National Grid Data

Published 1996

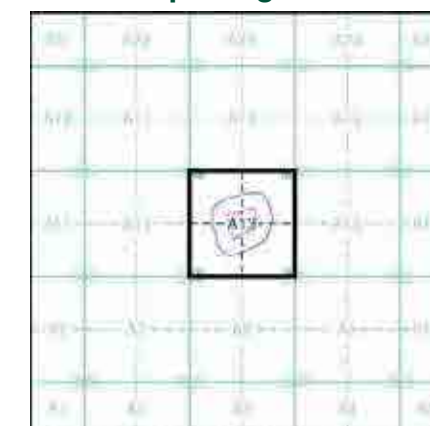
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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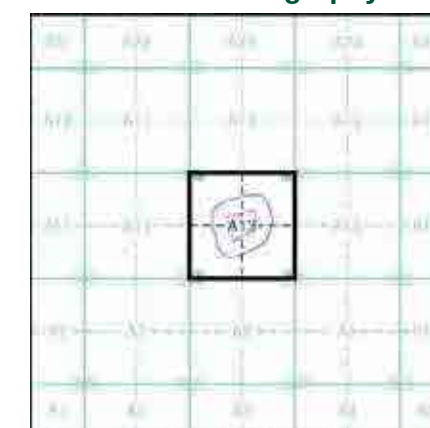


Geo-Environmental Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 233825467_1_1
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Search Buffer (m): 100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
			Pole
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

1:10,000 Raster Mapping

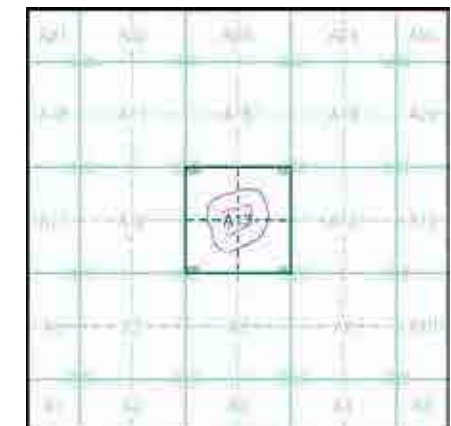
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Geo-Environmental Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Berkshire	1:10,560	1883	3
Berkshire	1:10,560	1900	4
Berkshire	1:10,560	1901	5
Berkshire	1:10,560	1913 - 1914	6
Berkshire	1:10,560	1932 - 1933	7
Berkshire	1:10,560	1938	8
Berkshire	1:10,560	1938	9
Historical Aerial Photography	1:10,560	1948 - 1949	10
Ordnance Survey Plan	1:10,000	1961 - 1962	11
Ordnance Survey Plan	1:10,000	1968	12
Ordnance Survey Plan	1:10,000	1973 - 1976	13
Ordnance Survey Plan	1:10,000	1979	14
Ordnance Survey Plan	1:10,000	1983	15
Ordnance Survey Plan	1:10,000	1990 - 1992	16
Reading	1:10,000	1990	17
Ordnance Survey Plan	1:10,000	1995	18
10K Raster Mapping	1:10,000	1999	19
10K Raster Mapping	1:10,000	2006	20
VectorMap Local	1:10,000	2020	21

Historical Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

Non-fireproof Building Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale Hydroelectric Power Station

Radio Station, drawn to scale Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry Open-pit Salt Mine

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Small Bridge Double-track Railroad Tunnel Pipe (Culvert)

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

180 180 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

Factory or Mill Chimney Factory or Mill with Chimney Factory or Mill without Chimney Mine or Open Pit Mine

Operating Shaft or Mine Non-Operating Shaft or Mine Salt Mine Tailings Pile

Pit Stone Quarry Gas Pump or Service Station Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick Small Hydroelectric Power Station Power Station Transformer Station

Cemetery Burial Mound (height in metres) Triangulation Point on Burial Mound Triangulation Point

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

Telegraph/Telephone Lines Main Highway Highway under Construction Improved Dirt Road (former truck road)

Small Bridge Pipe (Culvert) Tunnel Dismantled Railroad Railroad Under Construction

Double-track Railroad with First Class Station

Shore Embankment River or Ditch with Embankment Direction and velocity of current Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

Heavy (Index) Contour Line Contour Line and Value Half Contour Line Spot Elevation Value

Coniferous Deciduous Mixed Scrub

Key to Numbers on Mapping

SU67SE_Reading

No.	Description
36	Water Works

SU77SW_Reading

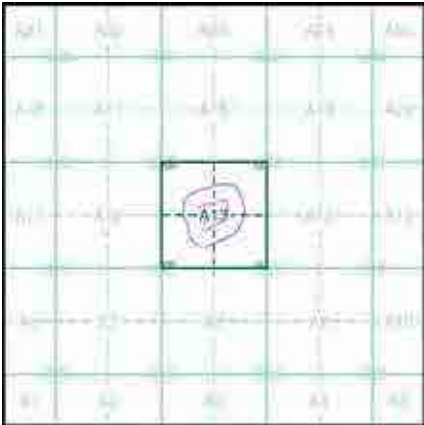
No.	Description
38	Water Works



Geo-Environmental
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Berkshire	1:10,560	1883	3
Berkshire	1:10,560	1900	4
Berkshire	1:10,560	1901	5
Berkshire	1:10,560	1913 - 1914	6
Berkshire	1:10,560	1932 - 1933	7
Berkshire	1:10,560	1938	8
Berkshire	1:10,560	1938	9
Historical Aerial Photography	1:10,560	1948 - 1949	10
Ordnance Survey Plan	1:10,000	1961 - 1962	11
Ordnance Survey Plan	1:10,000	1968	12
Ordnance Survey Plan	1:10,000	1973 - 1976	13
Ordnance Survey Plan	1:10,000	1979	14
Ordnance Survey Plan	1:10,000	1983	15
Ordnance Survey Plan	1:10,000	1990 - 1992	16
Reading	1:10,000	1990	17
Ordnance Survey Plan	1:10,000	1995	18
10K Raster Mapping	1:10,000	1999	19
10K Raster Mapping	1:10,000	2006	20
VectorMap Local	1:10,000	2020	21

Russian Map - Slice A



Order Details

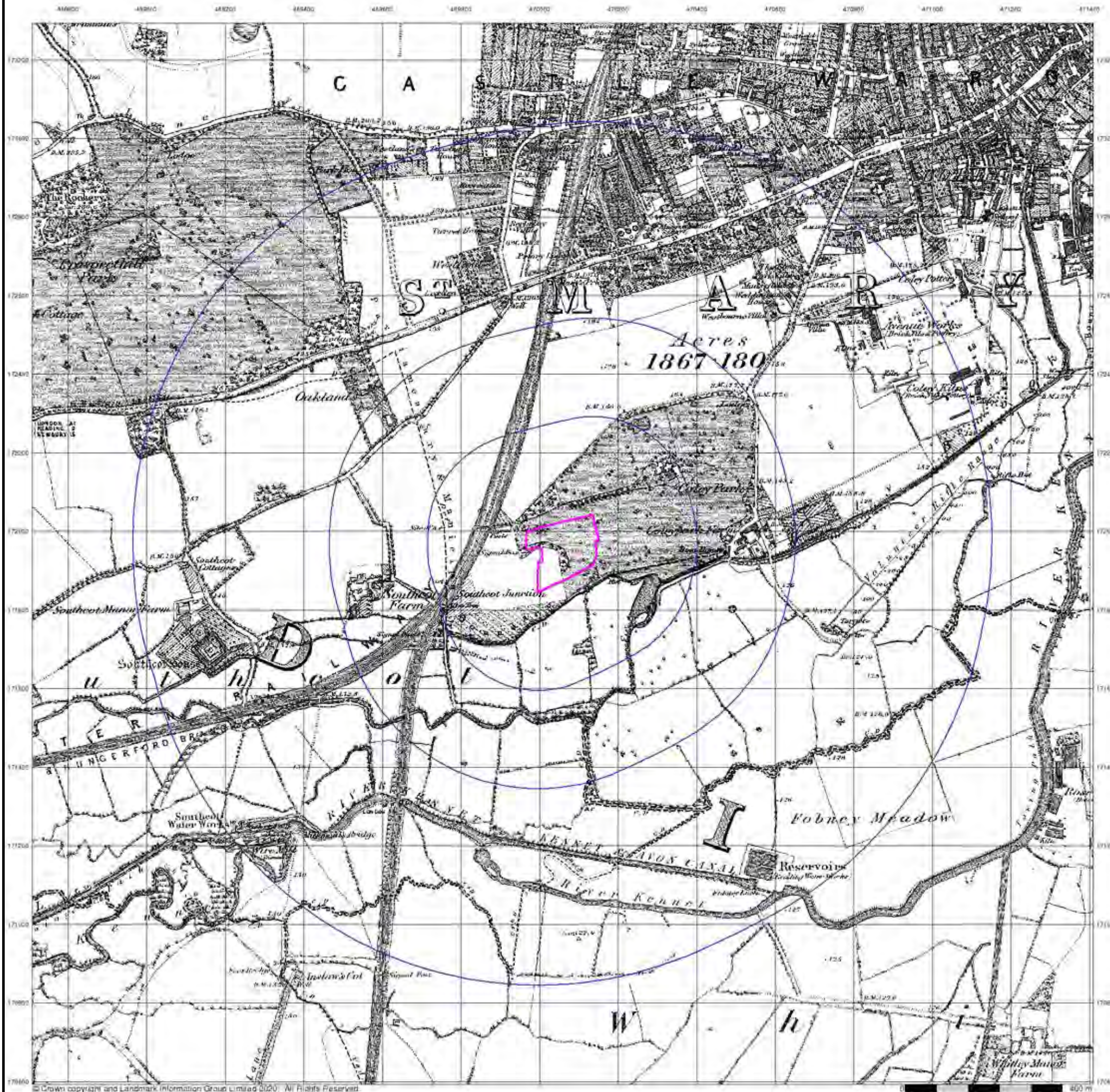
Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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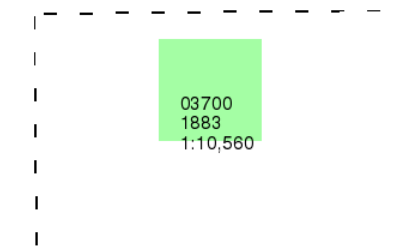
**Geo-Environmental
Berkshire**

Published 1883

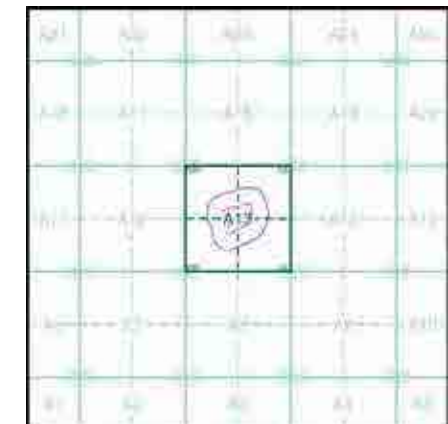
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Wensley Road, READING, RG1 6DR

Landmark
INFORMATION SERVICE

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



Geo-Environmental Berkshire

Published 1900

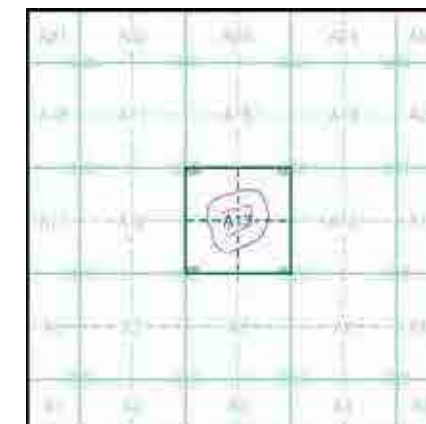
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

037NW 1900 1:10,560	037NE 1900 1:10,560
037SW 1900 1:10,560	037SE 1900 1:10,560

Historical Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
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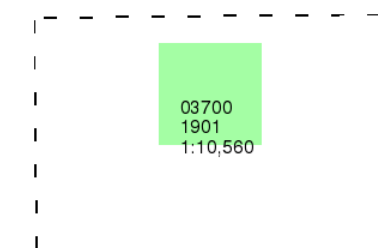
Geo-Environmental Berkshire

Published 1901

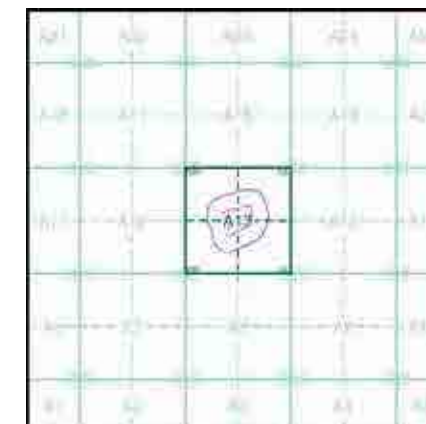
Source map scale - 1:10,560

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

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Historical Map - Slice A



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Geo-Environmental Berkshire

Published 1913 - 1914

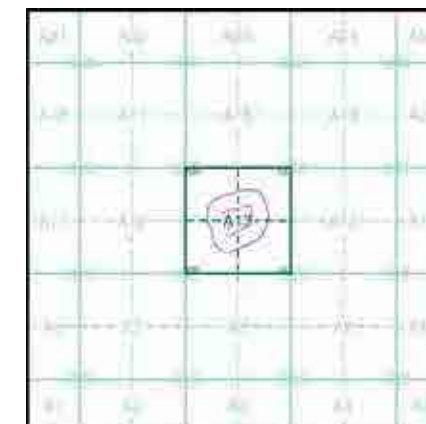
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

037NW 1914 1:10,560	037NE 1913 1:10,560
037SW 1913 1:10,560	037SE 1913 1:10,560

Historical Map - Slice A



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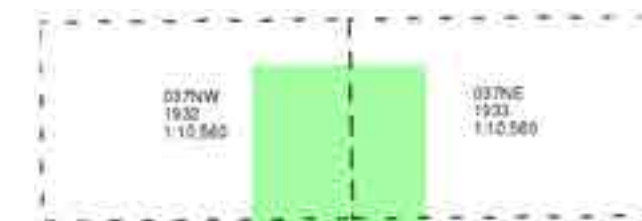
Geo-Environmental Berkshire

Published 1932 - 1933

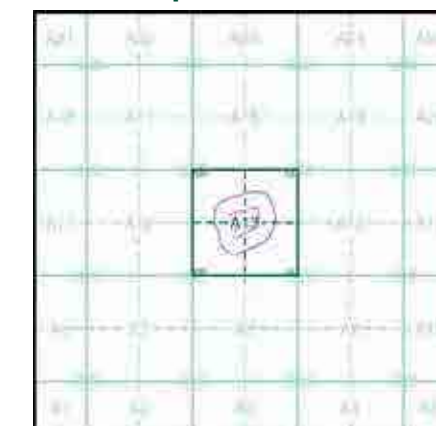
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



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Geo-Environmental Berkshire

Published 1938

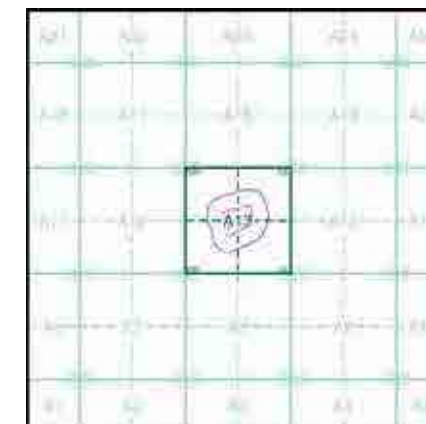
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

037NW 1938 1:10,560	037NE 1938 1:10,560
037SW 1938 1:10,560	037SE 1938 1:10,560

Historical Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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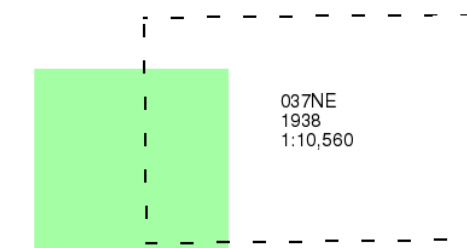


Published 1938

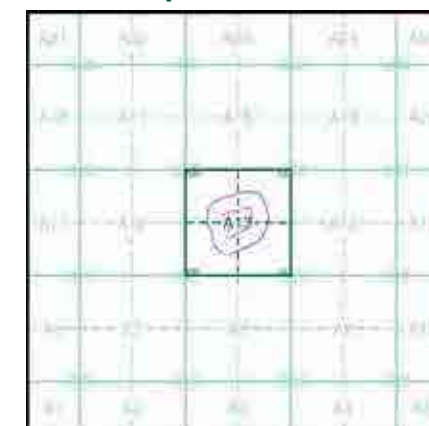
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	233825467_1_1
Customer Ref:	GE18760
National Grid Reference:	470060, 171950
Slice:	A
Site Area (Ha):	2.26
Search Buffer (m):	1000

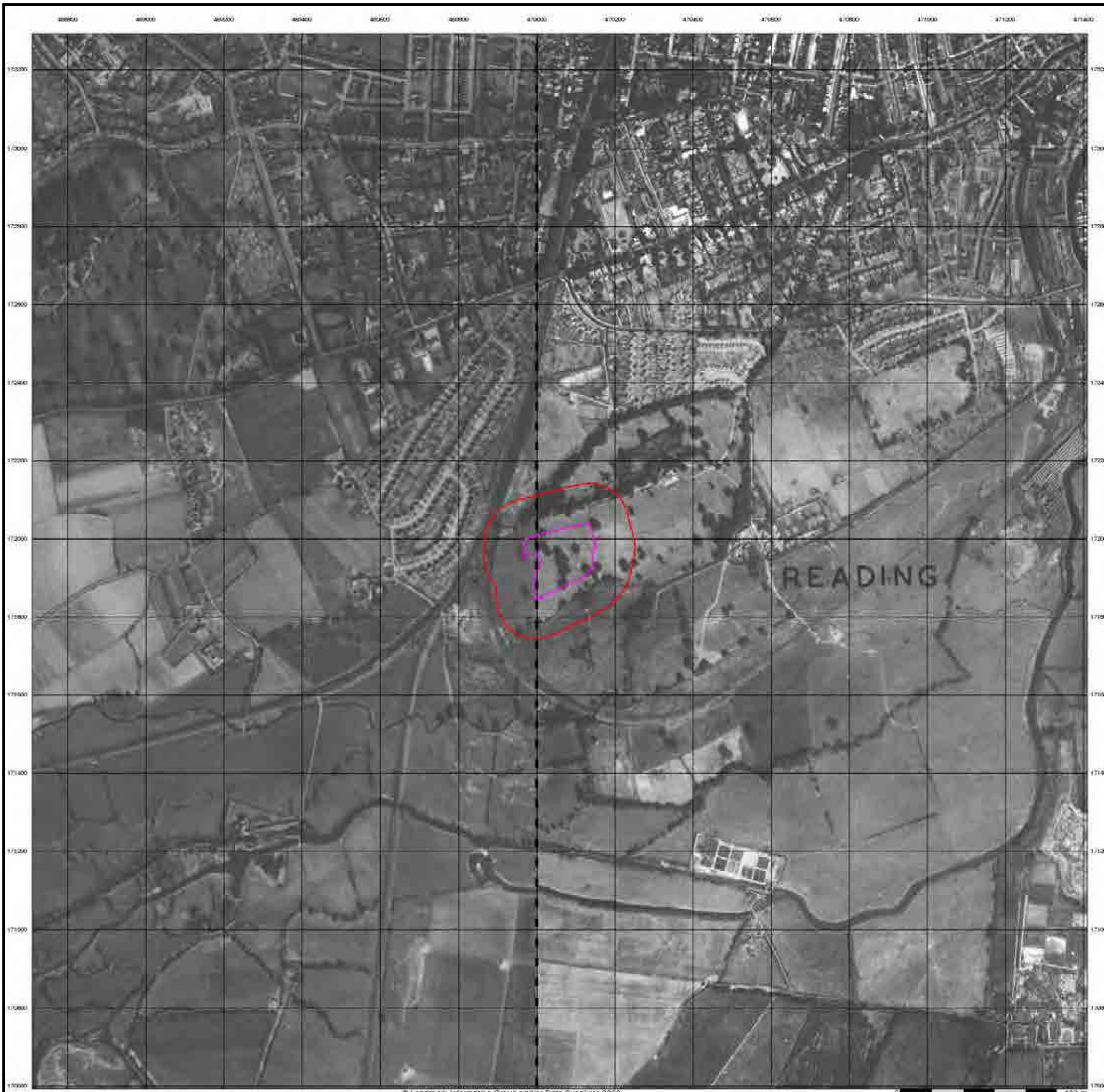
Site Details

Wensley Road, READING, RG1 6DR

[illegible]

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Geo-Environmental Historical Aerial Photography

Published 1948 - 1949

Source map scale - 1:10,560

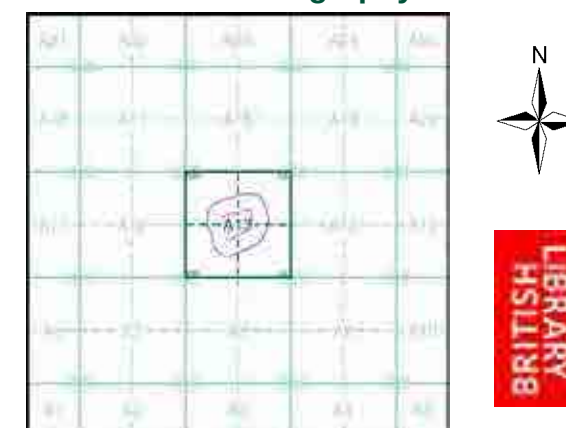
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the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

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Map Name(s) and Date(s)

	SU67SE			SU77SW	
	1949			1948	
	1:10,560			1:10,560	

Historical Aerial Photography - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

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Geo-Environmental Ordnance Survey Plan

Published 1961 - 1962

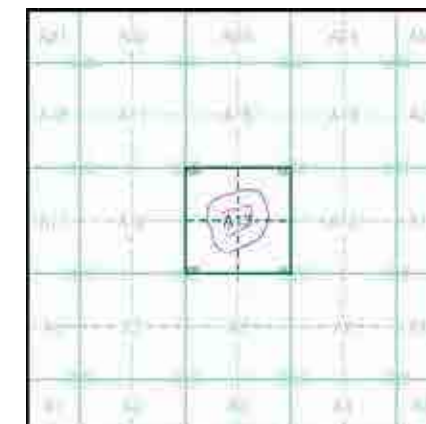
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SU67SE 1961 1:10,560	SU77SW 1962 1:10,560
----------------------------	----------------------------

Historical Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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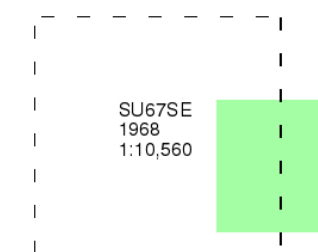
Geo-Environmental Ordnance Survey Plan

Published 1968

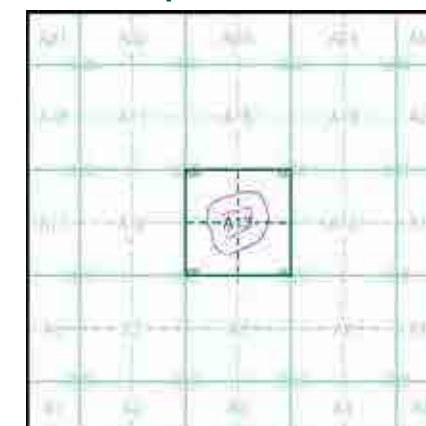
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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Geo-Environmental Ordnance Survey Plan

Published 1973 - 1976

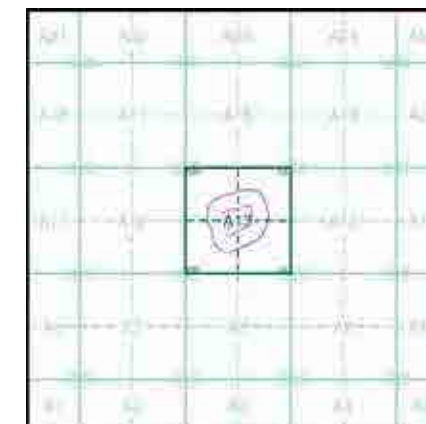
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SU67SE 1976 1:10,000		SU77SW 1973 1:10,000
----------------------------	--	----------------------------

Historical Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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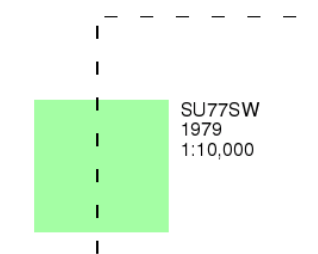
Geo-Environmental Ordnance Survey Plan

Published 1979

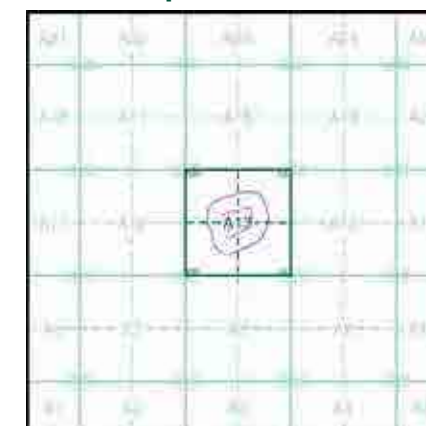
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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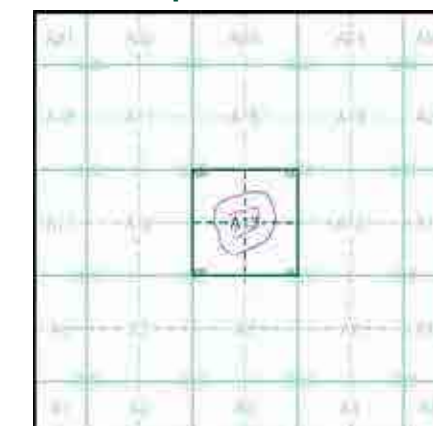
Published 1983

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SU67SE
1983
1:10,000



Order Details

Order Number:	233825467_1_1
Customer Ref:	GE18760
National Grid Reference:	470060, 171950
Slice:	A
Site Area (Ha):	2.26
Search Buffer (m):	1000

Site Details

Wensley Road, READING, RG1 6DR

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Geo-Environmental Ordnance Survey Plan

Published 1990 - 1992

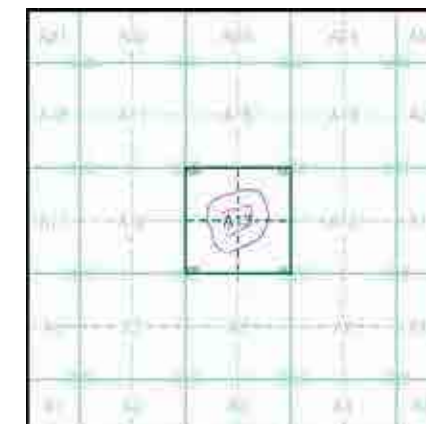
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SU67SE 1992 1:10,000	SU77SW 1990 1:10,000
----------------------------	----------------------------

Historical Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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Geo-Environmental Reading

Published 1990

Source map scale - 1:10,000

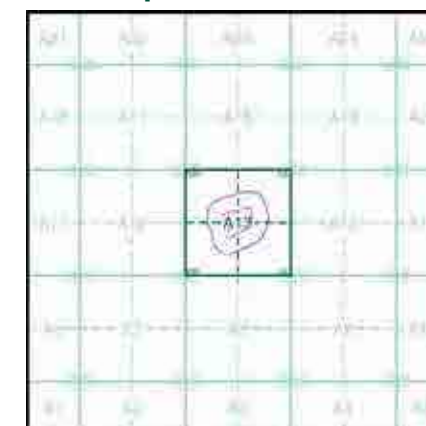
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

SU67SE	SU77SW
1990	1990
1:10,000	1:10,000

Russian Map - Slice A



Order Details

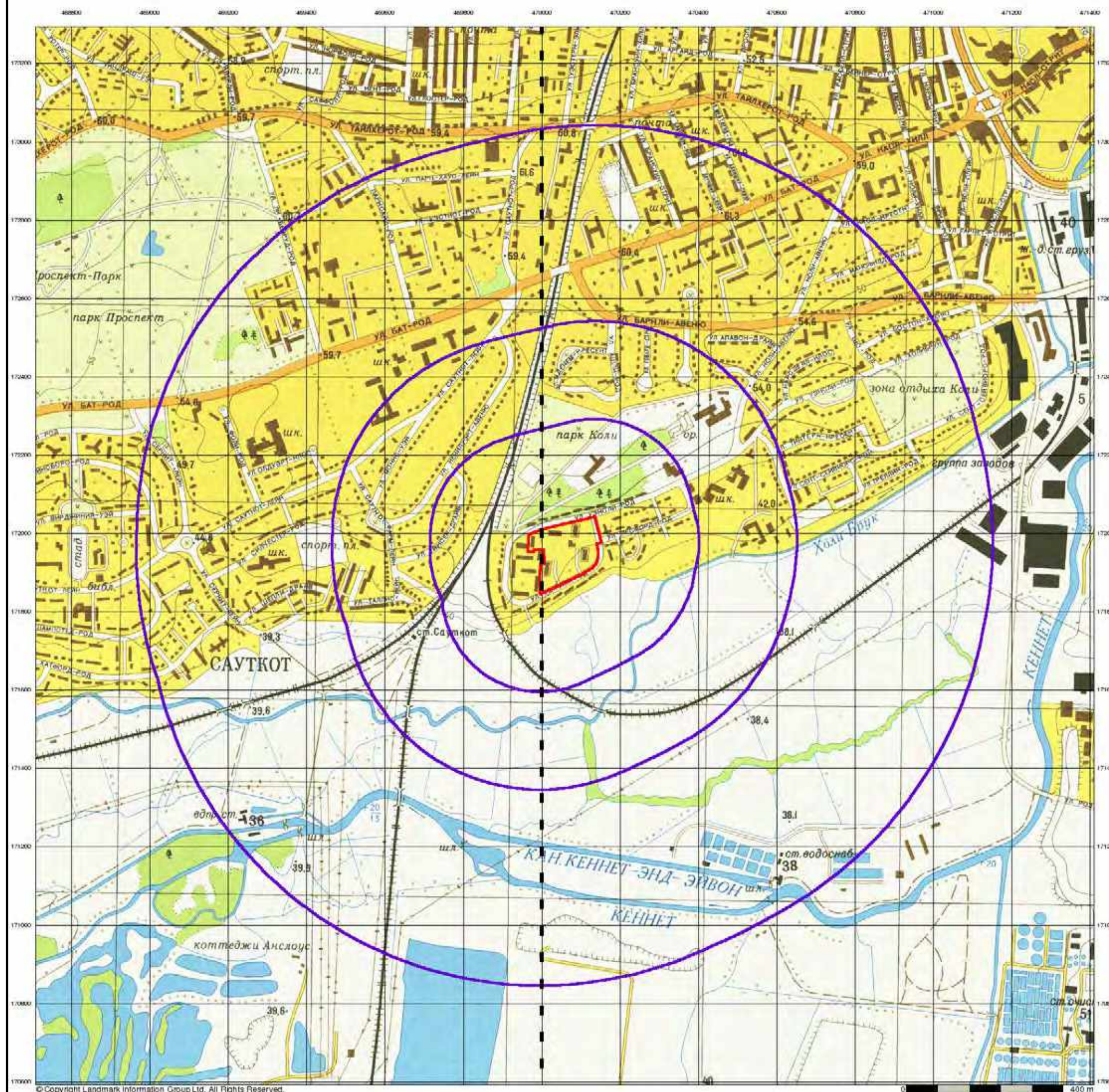
Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

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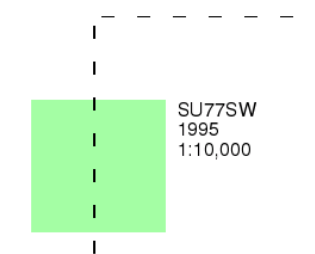
Geo-Environmental Ordnance Survey Plan

Published 1995

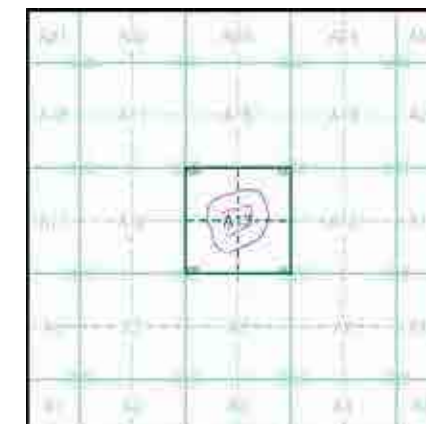
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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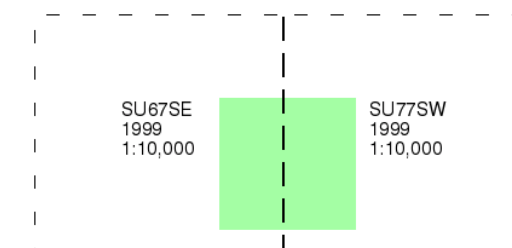
Geo-Environmental 10k Raster Mapping

Published 1999

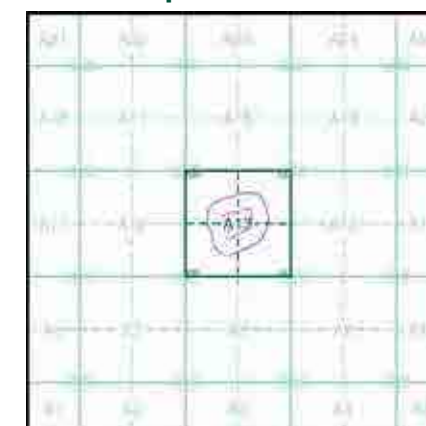
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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Geo-Environmental 10k Raster Mapping

Published 2006

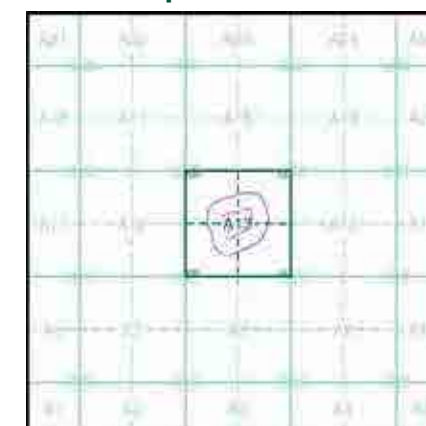
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SU67SE 2006 1:10,000		SU77SW 2006 1:10,000
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Historical Map - Slice A



Order Details

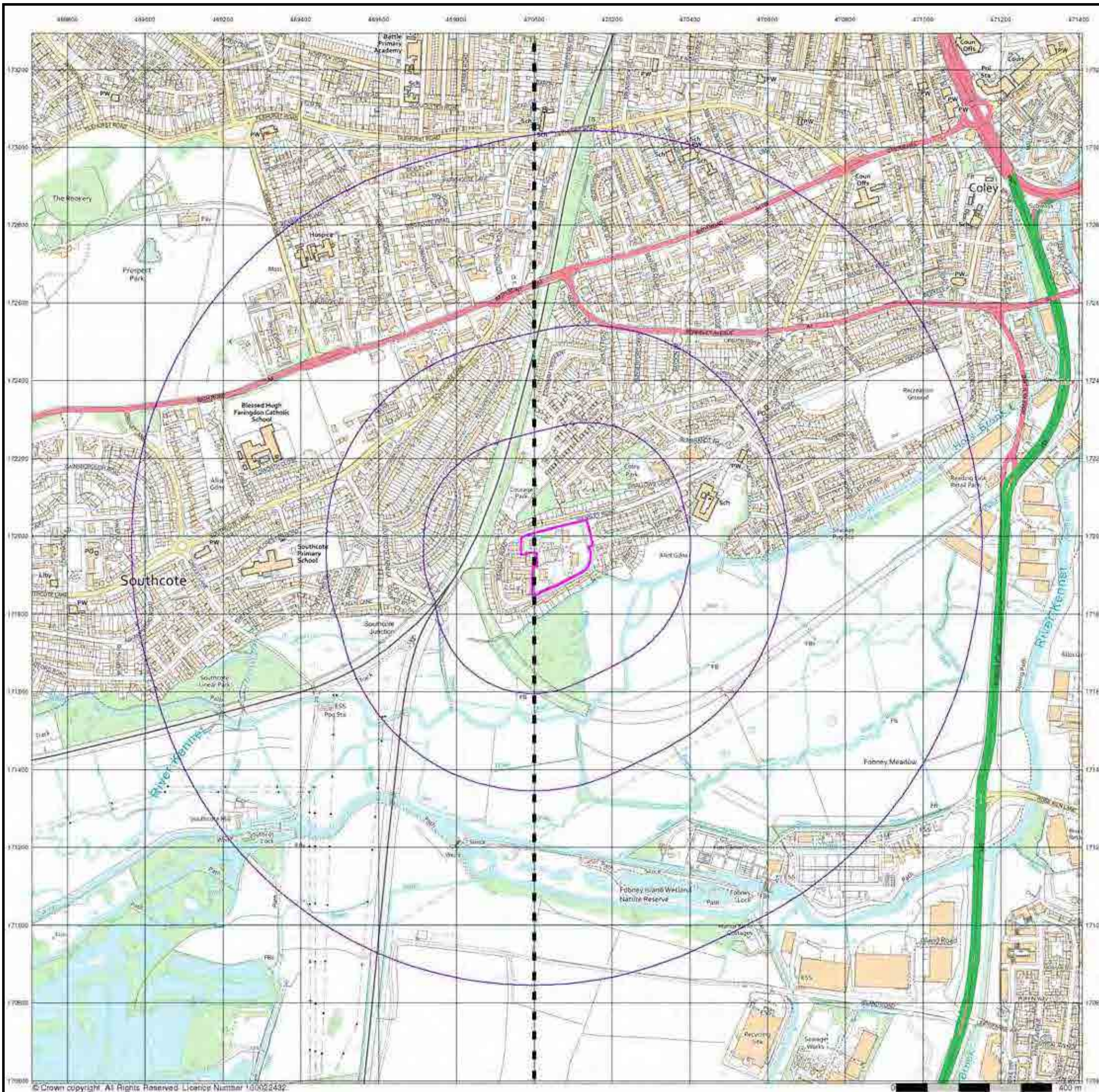
Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

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Geo-Environmental VectorMap Local

Published 2020

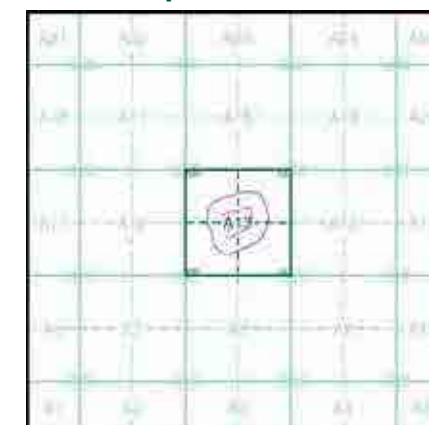
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SU67SE 2020 Variable		SU77SW 2020 Variable
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Historical Map - Slice A



Order Details

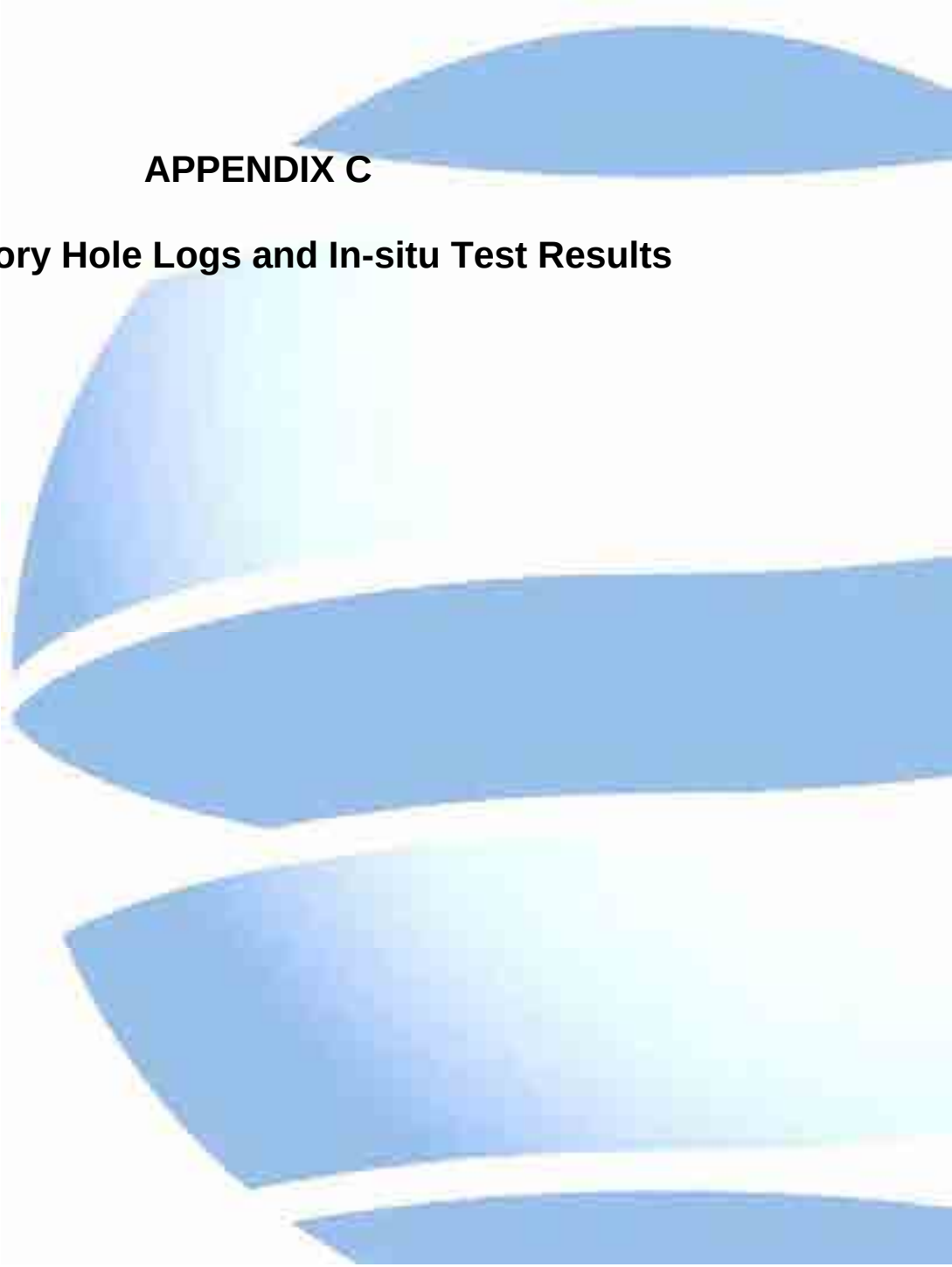
Order Number: 233825467_1_1
Customer Ref: GE18760
National Grid Reference: 470060, 171950
Slice: A
Site Area (Ha): 2.26
Search Buffer (m): 1000

Site Details

Wensley Road, READING, RG1 6DR



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The background of the page features a series of overlapping, wavy blue shapes that create a sense of depth and movement. These shapes are in various shades of blue, from a deep navy to a lighter, almost white blue, and they curve and flow across the lower half of the page.

APPENDIX C

Exploratory Hole Logs and In-situ Test Results



Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP01

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 469993.02 - 171997.13
Level: 49.66

Date
25/02/2020

Location: Reading

Dimensions (m): 1.80

Depth
3.10

0.45

Scale
1:25

Logged
KOD

Client: Reading Borough Council

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.30	ES					Grass over dark brown slightly sandy gravelly SILT with brick fragments, some tarmac fragments and abundant roots 1-5mm and rootlets. MADE GROUND	
	0.90 1.00	ES D		0.80	48.86		Firm orangish brown slightly gravelly sandy CLAY with black flecking, some orange and dark brown staining and some roots 1-2mm and rootlets. Sand is fine. Gravel is fine to medium sub rounded flint. LYNCH HILL GRAVEL	1
	1.50 1.50	D PP	PP=1.5kg/cm2					
	2.00 2.00	D PP	PP=1.3kg/cm2	2.20	47.46		Firm orangish brown slightly gravelly very sandy CLAY with black flecking, some orange staining. Sand is fine. Gravel is fine to medium sub rounded flint. LYNCH HILL GRAVEL	2
	2.50	D						
	3.00	D		3.00	46.66		Pale orangish brown fine SAND with black flecking. LAMBETH GROUP	3
				3.10	46.56		End of Pit at 3.10m	
								4
								5

Water Strikes	
Depth Strike	Rose to (mm)

Remarks

Stability Sides stable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP02

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470001.10 - 171985.39
Level: 49.65

Date
26/02/2020

Location: Reading

Dimensions (m): 1.90

Depth
3.00

0.45

Scale
1:25

Logged
KOD

Client: Reading Borough Council

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.30	49.35		Grass over dark brown gravelly SILT with roots 1-10mm and rootlets. TOPSOIL	
	0.40	B						
	0.40	ES						
	0.50	D		0.60	49.05		Brown to orangish brown slightly sandy gravelly CLAY with roots 1-3mm and rootlets. Sand is fine. Gravel is fine to coarse sub rounded flint. (POTENTIALLY REWORKED) LYNCH HILL GRAVEL	
	0.90	B						
	1.00	D						
				1.20	48.45		Brown and orangish brown slightly sandy gravelly CLAY with orange staining, some clay lenses and roots 1-3mm and rootlets. Sand is fine. Gravel is fine to coarse sub rounded flint. (POTENTIALLY REWORKED) LYNCH HILL GRAVEL	1
	1.50	D						
	2.00	D						
	2.00	PP	PP=1.1kg/cm2					2
	2.50	D		2.60	47.05		Firm orangish brown slightly gravelly very sandy CLAY with orange staining and some black staining and black flecking. Sand is fine. Gravel is fine to medium sub rounded flint. LYNCH HILL GRAVEL <i>Some rootlets</i>	
	3.00	D		3.00	46.65		Pale orangish brown and pale greyish brown mottled medium SAND with orange staining and some black flecking. LAMBETH GROUP	3
							End of Pit at 3.00m	4
								5

Water Strikes	
Depth Strike	Notes to (img)

Remarks

Stability Sides stable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

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Trial Pit Log

Trial Pit No
TP03
Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470112.55 - 172008.94
Level: 47.45

Date
25/02/2020

Location: Reading

Dimensions (m): 2.00
0.45
Depth 3.00

Scale
1:25

Logged
KOD

Client: Reading Borough Council

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.30	47.14		Grass over dark brown sandy SILT with abundant rootlets and some brick fragments MADE GROUND	
	0.50 0.50	D ES		0.70	46.74		Brown slightly sandy very gravelly CLAY with frequent rootlets. Sand is fine to medium. Gravel is fine to medium sub rounded flint. LYNCH HILL GRAVEL	
	1.00	D		1.10	46.34		Brown slightly clayey sandy GRAVEL. Sand is medium. Gravel is fine to medium sub rounded flint. LYNCH HILL GRAVEL	1
	1.50	D					Pale orangish brown medium SAND with some clay lenses. LAMBETH GROUP	
	2.00	D						2
	2.50	D		2.60	44.84		Orangish brown slightly gravelly medium SAND with rare clay lenses. LAMBETH GROUP	
	3.00	D		3.00	44.44		End of Pit at 3.00m	3
								4
								5

Water Strikes	
Depth Strike	Rose to (m)

Remarks

Stability Sides stable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP04

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470108.62 - 171976.62
Level: 45.85

Date
25/02/2020

Location: Reading

Dimensions (m): 1.90

Depth
2.50

0.45

Scale
1:25

Logged
KOD

Client: Reading Borough Council

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.30	45.55		Grass over over dark brown Gravelly SILT with abundant roots 1-4mm and rootlets. TOPSOIL	
	0.40	ES					Brown slightly sandy clayey GRAVEL with roots 1-4mm and rootlets. Sand is medium. Gravel is fine to medium sub rounded flint. LYNCH HILL GRAVEL	
	0.50	B		0.70	45.15		Orangish brown fine SAND with black flecking, some orange and dark brown staining and roots 1-3mm. LAMBETH GROUP	1
	1.00	B						
	1.00	B		1.30	44.55		Pale orangish brown to pale greyish brown medium SAND with orange staining, black flecking and rare clay lenses. LAMBETH GROUP	2
	1.50	D						
	2.00	D						
	2.50	D		2.50	43.35		End of Pit at 2.50m	3
								4
								5

Water Strikes		Remarks	
Depth Strike	Rises to (m/deg)		
		Pit collapsed	
		Stability	Sides unstable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

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Trial Pit Log

Trial Pit No

TP05

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470128.51 - 171979.09
Level: 45.90

Date
25/02/2020

Location: Reading

Dimensions (m): 1.90

Depth
2.30

0.45



Scale
1:25

Logged
KOD

Client: Reading Borough Council

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES					Grass over dark brown gravelly SILT with brick fragments, rare plastic and abundant roots 1-20mm and rootlets. MADE GROUND	
	0.40	B		0.30	45.60		Brown slightly sandy gravelly CLAY with rootlets and roots 1-10mm. Sand is fine. Gravel is fine sub angular flint.	
	0.40	ES					LYNCH HILL GRAVEL	
	0.50	D		0.60	45.30		Brown to orangish brown slightly gravelly clayey fine SAND with some roots 1-5mm, reddish orange and brown staining. LAMBETH GROUP	
	1.00	B						1
	1.00	D		1.10	44.80		Pale orangish brown and pale greyish brown fine to medium SAND with orange staining. LAMBETH GROUP	
	1.50	D						
	2.00	D						2
	2.30	D		2.30	43.60		End of Pit at 2.30m	
								3
								4
								5

Remarks Pit collapsed

Stability Sides unstable





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

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Trial Pit Log

Trial Pit No
TP06
Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470105.55 - 171920.94
Level: 44.29

Date
26/02/2020

Location: Reading

Dimensions (m): 2.00
0.45
Depth 3.10

Scale
1:25

Logged
KOD

Client: Reading Borough Council

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.35 0.40	43.94 43.89		Grass over dark brown gravelly SILT with roots 1-3mm and abundant rootlets. MADE GROUND	
	0.70	ES		0.90	43.39		Orangish brown medium SAND MADE GROUND Brown sandy gravelly CLAY with brick fragments and some rootlets. MADE GROUND	
	1.00 1.00	D ES		1.20	43.09		Brown slightly sandy gravelly CLAY with some rootlets. Sand is fine. Gravel is fine to medium sub rounded flint. LYNCH HILL GRAVEL	1
	1.50	D		1.80	42.49		Orangish brown medium SAND with orange staining and black flecking. LAMBETH GROUP	
	2.00 2.00	D PP	PP=1.8kg/cm2	2.40	41.89		Firm orangish brown and pale grey mottled slightly gravelly sandy CLAY with reddish orange and orange staining. Sand is medium. Gravel is fine sub angular flint. LAMBETH GROUP	2
	2.50	D		3.00	41.19		Orangish brown and pale greyish brown mottled medium SAND with black flecking and some orange staining. LAMBETH GROUP	3
	3.10						End of Pit at 3.10m	4
								5

Depth Strike	Notes to (img)

Remarks

Stability Localised spalling





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

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Trial Pit Log

Trial Pit No

TP08

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470035.40 - 171878.35
Level: 46.16

Date
25/02/2020

Location: Reading

Dimensions (m): 1.70

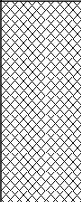
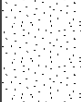
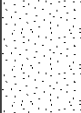
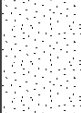
Depth
2.50

2.60

Scale
1:25

Logged
KOD

Client: Reading Borough Council

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES					Grass over dark brown sandy SILT with brick fragments some roots 1-5mm and abundant rootlets. MADE GROUND	
	0.80	B		0.70	45.46		Pale orangish brown fine SAND with black flecking and some orange staining. LAMBETH GROUP	
	0.80	ES		0.90	45.26		Roots 1-5mm and rootlets Pale orangish brown medium SAND with black flecking and some orange staining. LAMBETH GROUP	1
	1.00	D						
	1.50	D						
	2.00	D						2
	2.50	D		2.50	43.66		End of Pit at 2.50m	3
								4
								5

Water Strikes	
Depth Strike	Rose to (mlog)

Remarks

Stability Localised spalling





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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS01

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 469979E - 171980N

Hole Type
WLS

Location: Reading

Level: 48.70

Scale
1:25

Client: Reading Borough Council

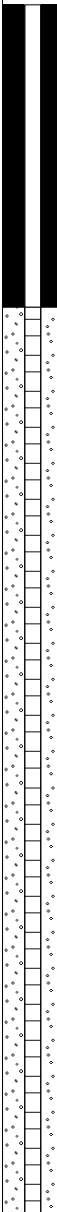
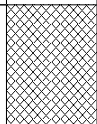
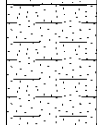
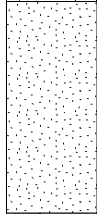
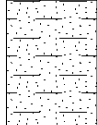
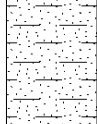
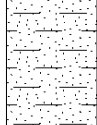
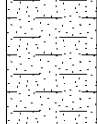
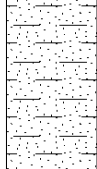
Dates: 26/02/2020

Logged By
KOD

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.50	ES	1.4kg/cm2	1.00	47.70		Tarmacadam over clayey gravelly SAND with abundant brick and concrete rubble. Gravel is fine to coarse sub angular flint. MADE GROUND	1	
					1.30	47.40		Firm orangish brown slightly gravelly sandy CLAY with brick fragments some black staining and some rootlets. MADE GROUND		
		1.40 1.50 1.50	ES D PP			Firm to stiff orangish brown slightly gravelly sandy CLAY with black flecking, reddish brown staining and some black stained rotting rootlets. Sand is fine. Gravel is fine sub angular flint. LYNCH HILL GRAVEL				
		2.00 2.00	D PP	2.0kg/cm2						
		2.50 2.50	D PP	3.2kg/cm2						
		2.80		45.90			Pale greyish brown fine SAND with some orange staining. LAMBETH GROUP	3		
		3.00	D	3.20	45.50		Stiff orangish brown and pale grey mottled slightly gravelly very sandy CLAY with black flecking. LAMBETH GROUP			
		3.50 3.50	D PP	3.0kg/cm2	3.70	45.00			Orangish brown and pale grey mottled slightly gravelly clayey SAND with black flecking. LAMBETH GROUP	4
		4.00	D	4.10	44.60		Stiff pale grey and orangish brown mottled sandy CLAY with orange and reddish brown staining and some black flecking. LAMBETH GROUP			
		4.50 4.50	D PP	2.0kg/cm2						
		5.00 5.00	D PP	2.8kg/cm2	5.00	43.70		End of Borehole at 5.00m	5	
		Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks		
		Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to			



 Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net		Borehole Log				Borehole No. WS02 Sheet 1 of 1	
Project Name: Wensley Road, Reading		Project No. GE18760		Co-ords: 470040E - 172009N		Hole Type WLS	
Location: Reading		Level: 48.85		Scale 1:25		Logged By KOD	
Client: Reading Borough Council		Dates: 26/02/2020					

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES	1.0kg/cm2	0.40	48.45		Grass over dark brown gravelly SILT with abundant rootlets some roots 1-3mm and some brick fragments. MADE GROUND	1
	0.50	D						Firm brown slightly gravelly sandy CLAY with roots 1-2mm, rootlets and some black flecking. Sand is fine. Gravel is fine to medium sub rounded flint LYNCH HILL GRAVEL	
	0.50	ES							
	0.50	PP							
		1.00	D		1.10	47.75		Orangish brown slightly clayey medium SAND with black flecking and some orange and dark brown staining. LAMBETH GROUP	2
		1.50	D					Orangish brown medium SAND with black flecking and orange staining. LAMBETH GROUP	
		2.00	D		1.80	47.05		<u>Becomes clayey</u> Pale greyish brown and pale orangish brown fine to medium SAND with black flecking, orange staining and some 1-3mm clay lenses. LAMBETH GROUP	
		2.50	D						
		3.00	D						
		3.50	D						
	4.00	D		4.00	44.85		End of Borehole at 4.00m	4	
								5	

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	
						Refusal at 4.0 on hard layer





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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS03

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470026E - 171973N

Hole Type
WLS

Location: Reading

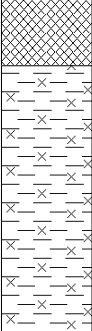
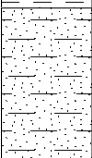
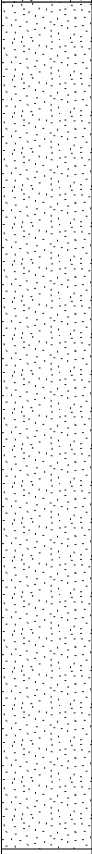
Level: 47.93

Scale
1:25

Client: Reading Borough Council

Dates: 26/02/2020

Logged By
KOD

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30	47.63		Grass over dark brown gravelly SILT with abundant rootlets and some brick fragments. Gravel is fine to medium sub angular flint. MADE GROUND	1
		0.50	ES					Orangish brown slightly gravelly silty CLAY with brick fragments, roots 1-2mm and rootlets. Gravel is fine to medium sub angular flint. MADE GROUND	
		1.00 1.00	D ES		0.80	47.13		Orangish brown slightly gravelly silty CLAY with abundant roots 1-5mm, rootlets and rotting roots. Gravel is fine to medium sub angular flint. LYNCH HILL GRAVEL	
		1.50	D						2
		2.00	D		1.70	46.23		Pale orangish brown medium SAND with black flecking, orange staining and 1-10mm orangish brown clay lenses. LAMBETH GROUP	
		2.50	D		2.20	45.73		Pale orangish brown to pale greyish brown fine to medium SAND with black flecking and orange staining. LAMBETH GROUP	
		3.00	D						3
		3.50	D						
		4.00	D						
		4.50	D						4
		5.00	D		5.00	42.93		End of Borehole at 5.00m	

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





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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS04

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470061E - 171987N

Hole Type
WLS

Location: Reading

Level: 47.41

Scale
1:25

Client: Reading Borough Council

Dates: 26/02/2020

Logged By
KOD

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05			0.05	47.36		Tarmacadam	
		0.10			0.10	47.31		MADE GROUND	
								Tarmacadam base course.	
								MADE GROUND	
		0.30			0.30	47.11		Brick, sand and flint gravel.	
								MADE GROUND	
		0.40	ES					Brown to orangish brown slightly silty gravelly SAND with brick fragments, concrete rubble, black flecking and rare rootlets.	
								MADE GROUND	
								Very silty	
		0.80			0.80	46.61		Orangish brown slightly clayey medium SAND with black flecking and orange staining.	
		1.00	D					LAMBETH GROUP	1
		1.20			1.20	46.21		Pale orangish brown and pale greyish brown mottled fine to medium SAND with black flecking and orange staining.	
		1.50	D					LAMBETH GROUP	
		2.00	D						2
		2.50	D						
		3.00	D						3
		3.50	D		3.50	43.91		End of Borehole at 3.50m	4
									5
Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks			
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to				
						Refusal at 3.5 on hard layer. Hole collapsed to 2.9.			





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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS05

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470125E - 171999N

Hole Type
WLS

Location: Reading

Level: 47.06

Scale
1:25

Client: Reading Borough Council

Dates: 26/02/2020

Logged By
KOD

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.40	46.66		Grass over dark brown gravelly SILT with some brick fragments, some concrete rubble, roots 1-10mm and rootlets. MADE GROUND	1
		0.50 0.50	D ES					Orangish brown slightly gravelly very clayey fine SAND with some orange staining and some rootlets. LAMBETH GROUP	
		1.00	D		1.20	45.86		Orangish brown fine SAND with rare rootlets with dark brown to black staining. LAMBETH GROUP	2
		1.50	D						
		2.00	D		2.20	44.86		Orangish brown to yellowish brown becoming pale grey fine to medium SAND with black flecking and orange staining. LAMBETH GROUP	3
		2.50	D						
		3.00	D		3.70	43.36		End of Borehole at 3.70m	4
		3.50	D						
Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks			
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to				
						Refusal at 3.7 on hard layer			





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Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Borehole Log

Borehole No.

WS06

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470048E - 171919N

Hole Type
WLS

Location: Reading

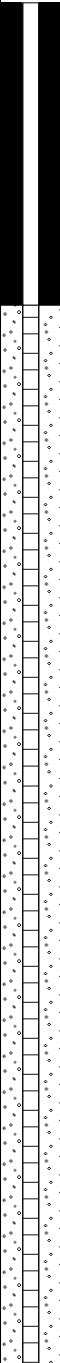
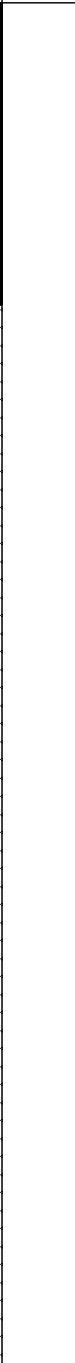
Level: 46.40

Scale
1:25

Client: Reading Borough Council

Dates: 26/02/2020

Logged By
KOD

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.10	46.30		Tarmacadam	
								MADE GROUND	
								Brown sandy gravelly CLAY and concrete rubble.	
								MADE GROUND	
		0.90	ES		0.85	45.55		Grey gravelly SAND with black staining and some brick fragments.	
		1.10	D		1.00	45.40		MADE GROUND	
		1.10	ES					Orangish brown slightly gravelly clayey SAND with black flecking.	
								LYNCH HILL GRAVEL	
		1.50	D						
					1.70	44.70		Orangish brown and pale greyish brown fine to medium SAND with black flecking and orange staining.	
		2.00	D					LAMBETH GROUP	2
		2.50	D						
		3.00	D						3
		3.50	D						
		4.00	D						4
		4.50	D		4.50	41.90		End of Borehole at 4.50m	5
Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks			
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to				
						Refusal at 4.5m bgl on hard layer.			





Geo-Environmental

Probe Log

Borehole No.

DP1

Sheet 1 of 2

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 469978.60 - 171980.44

Hole Type
DP

Location: Reading

Level: 48.70

Scale
1:25

Client: Reading Borough Council

Dates: - 26/02/2020

Logged By

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
1					
	2				
	2				
	2				
	2				
	2				
	2				
	2				
	2				
	2				
	2				
	3				
2	3				
	3				
	5				
	5				
	6				
	6				
	6				
	6				
	6				
	6				
3	6				
	5				
	5				
	5				
	4				
	5				
	4				
	4				
	4				
	4				
4	4				
	3				
	3				
	3				
	3				
	3				
	4				
	5				
	6				
5	7				

Remarks

Fall Height 1

Cone Base Diameter 44

Hammer Wt 50.0

Final Depth 8.00

Probe Type DPL

Log Scale 1:25





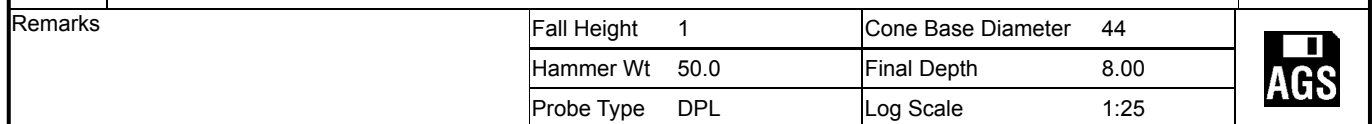
Borehole No.

Sheet 2 of 2

Hole Type
DP

Scale
1:25

Logged By





Geo-Environmental

Probe Log

Borehole No.

DP2

Sheet 1 of 1

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470061.28 - 171986.85

Hole Type
DP

Location: Reading

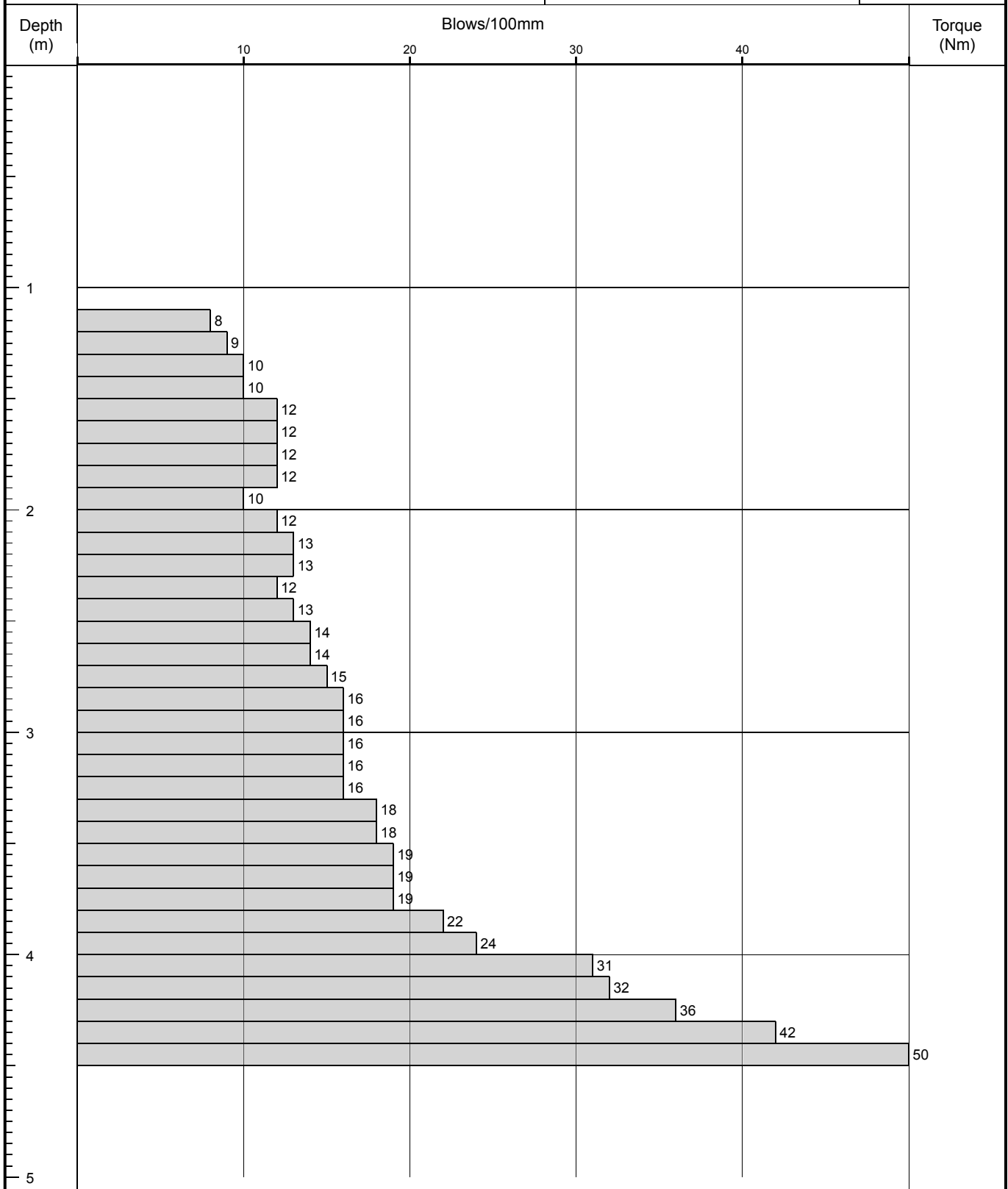
Level: 47.41

Scale
1:25

Client: Reading Borough Council

Dates: - 26/02/2020

Logged By



Remarks

Fall Height 1

Cone Base Diameter 44

Hammer Wt 50.0

Final Depth 4.40

Probe Type DPL

Log Scale 1:25





Geo-Environmental

Probe Log

Borehole No.

DP3

Sheet 1 of 2

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470125.19 - 171999.13

Hole Type
DP

Location: Reading

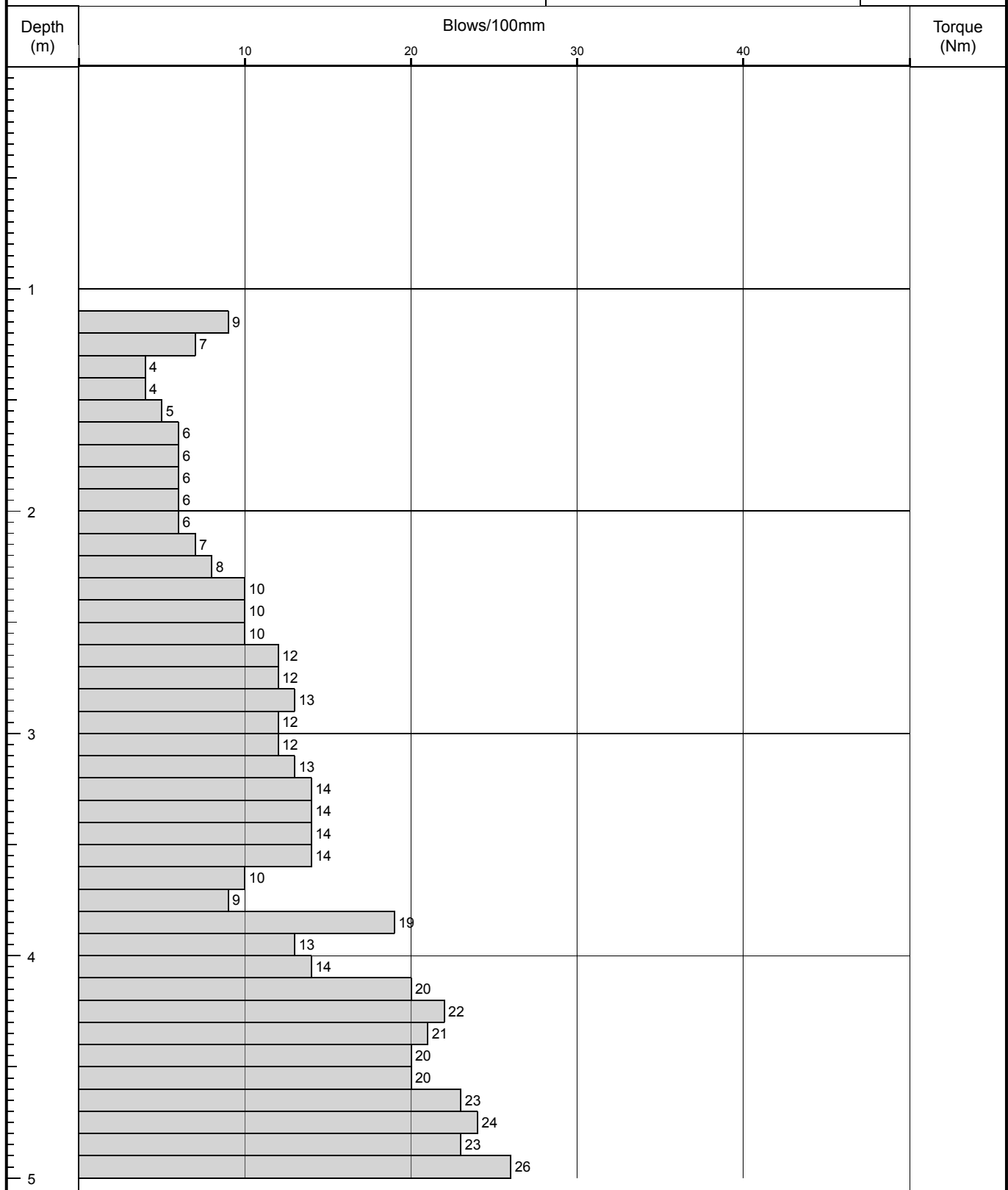
Level: 47.06

Scale
1:25

Client: Reading Borough Council

Dates: - 26/02/2020

Logged By



Remarks

Fall Height 1

Cone Base Diameter 44

Hammer Wt 50.0

Final Depth 5.30

Probe Type DPL

Log Scale 1:25





Geo-Environmental

Probe Log

Borehole No.

DP3

Sheet 2 of 2

Project Name: Wensley Road, Reading

Project No.
GE18760

Co-ords: 470125.19 - 171999.13

Hole Type
DP

Location: Reading

Level: 47.06

Scale
1:25

Client: Reading Borough Council

Dates: - 26/02/2020

Logged By

Depth (m)	Blows/100mm				Torque (Nm)
	10	20	30	40	
					50
	27				
	28				
	35				
6					
7					
8					
9					
10					

Remarks

Fall Height 1

Cone Base Diameter 44

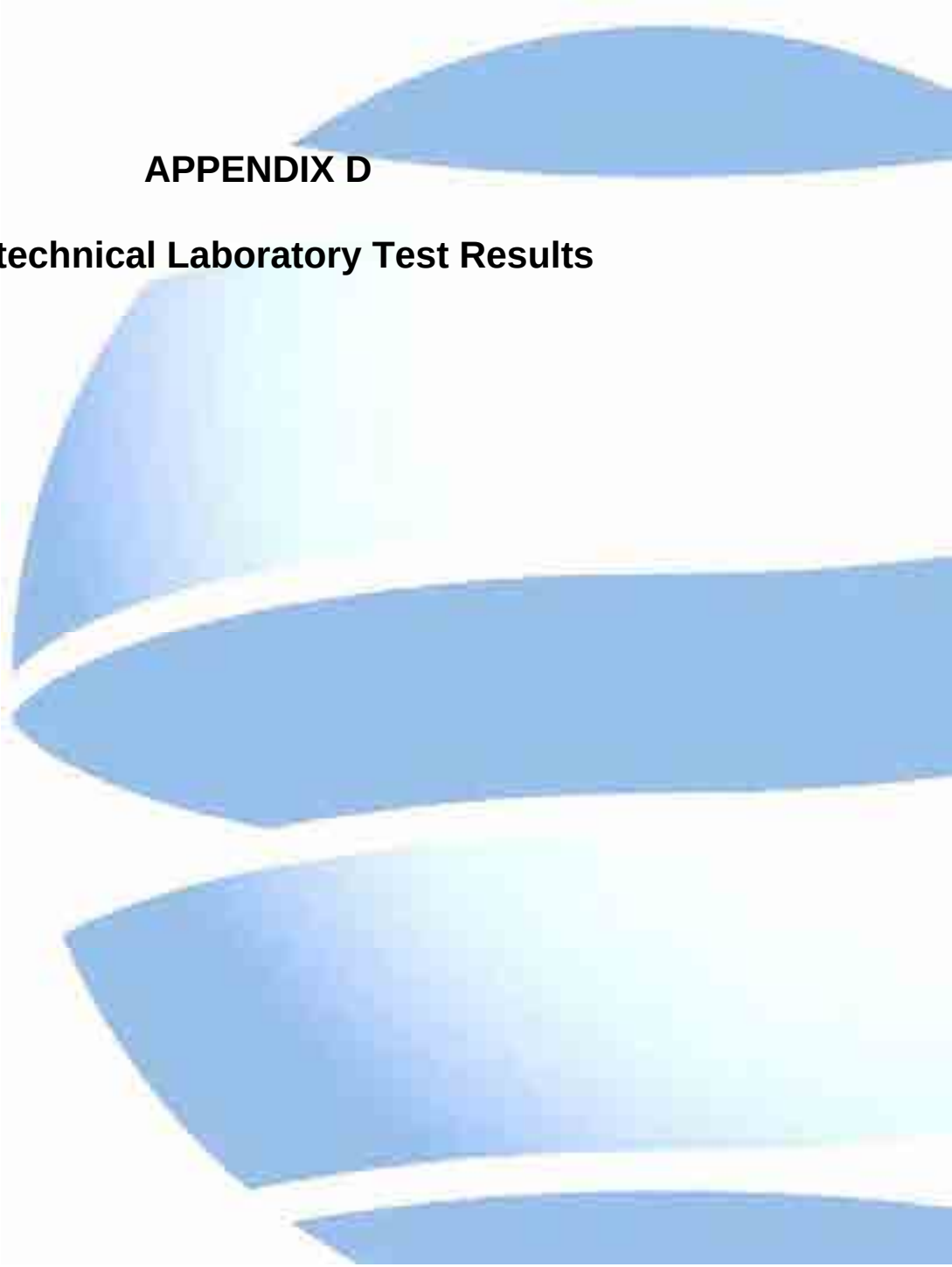
Hammer Wt 50.0

Final Depth 5.30

Probe Type DPL

Log Scale 1:25





APPENDIX D

Geotechnical Laboratory Test Results

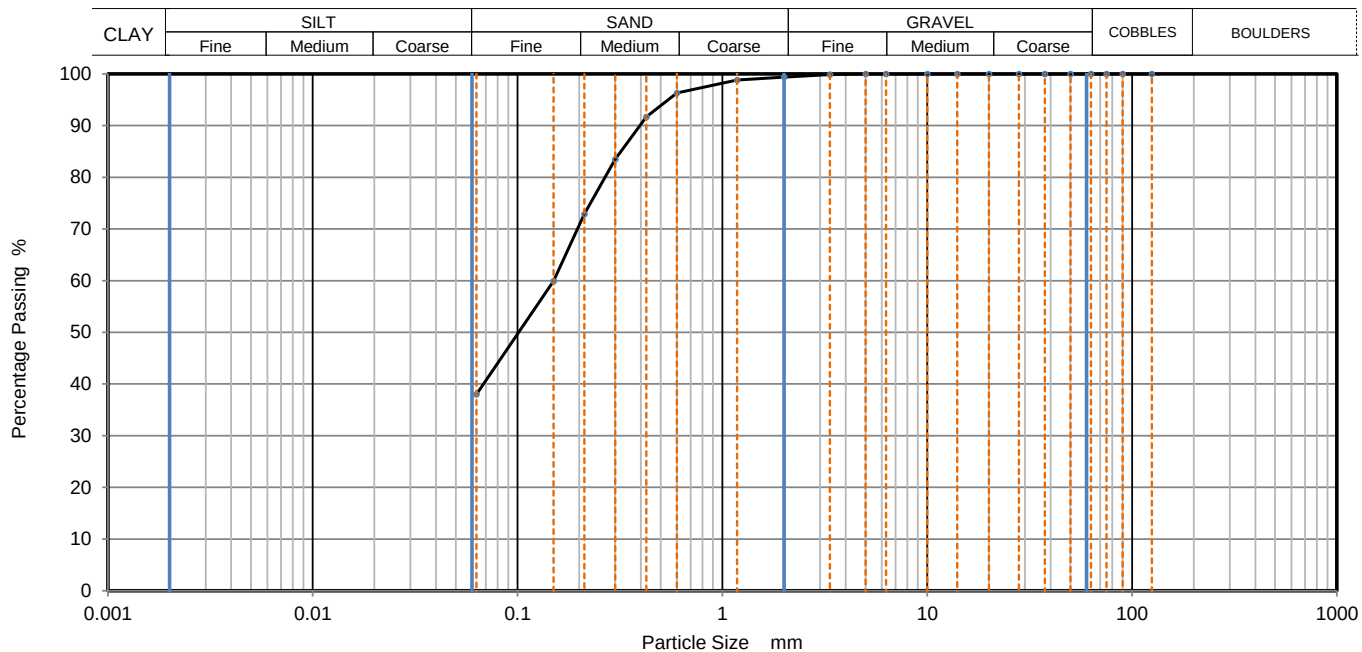
2519



PARTICLE SIZE DISTRIBUTION

Job Ref	27969
Borehole/Pit No.	TP01
Sample No.	4
Depth Top	1.50 m
Depth Base	- m
Sample Type	D
Samples received	27/02/2020
Schedules received	28/02/2020
Project started	02/03/2020
Date tested	16/03/2020

Site Name	Wensley Road, Reading		
Project No.	GE18760	Client	GESL
Soil Description	Orangish brown silty sandy CLAY with occasional rootlets and rare fine gravel		
Test Method	BS1377:Part 2: 1990, clause 9.0		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	99		
0.6	96		
0.425	92		
0.3	84		
0.212	73		
0.15	60		
0.063	38		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.6
Sand	61.4
Fines <0.063mm	38.0

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

Remarks
Preparation and testing in accordance with BS1377 unless noted below



K4 Soils Laboratory
Unit 8, Olds Close, Watford, Herts, WD18 9RU
Email: james@k4soils.com
Tel: 01923 711288

Checked and Approved

Initials: J.P
Date: 20/03/2020

2519

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

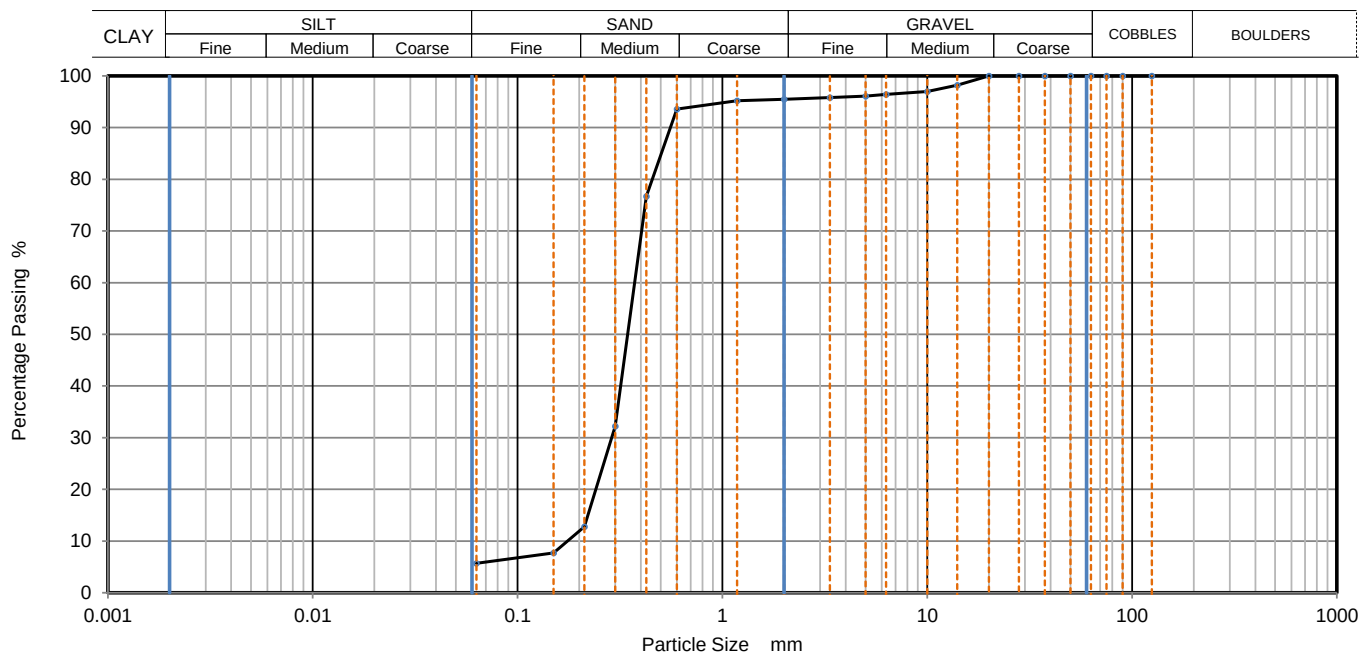
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

Job Ref	27969
Borehole/Pit No.	TP03
Sample No.	5
Depth Top	1.50 m
Depth Base	- m
Sample Type	D
Samples received	27/02/2020
Schedules received	28/02/2020
Project started	02/03/2020
Date tested	13/03/2020

Site Name	Wensley Road, Reading		
Project No.	GE18760	Client	GESL
Soil Description	Orangish brown slightly gravelly clayey SAND (gravel is fm and sub-angular)		
Test Method	BS1377:Part 2: 1990, clause 9.0		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	97		
6.3	96		
5	96		
3.35	96		
2	96		
1.18	95		
0.6	94		
0.425	77		
0.3	32		
0.212	13		
0.15	8		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	4.5
Sand	89.8
Fines <0.063mm	5.7

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	2.1
Curvature Coefficient	1.3

Remarks
Preparation and testing in accordance with BS1377 unless noted below



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Checked and Approved

Initials: J.P

Date: 20/03/2020

2519

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

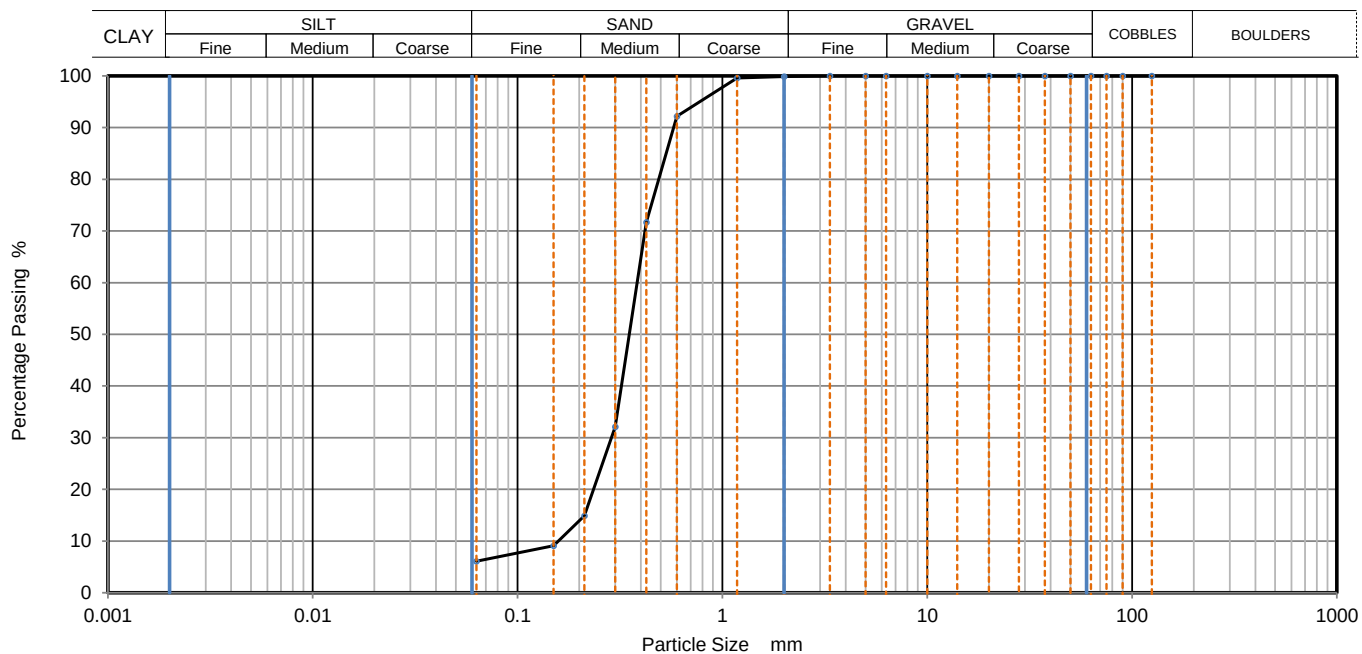
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

Job Ref	27969
Borehole/Pit No.	WS04
Sample No.	5
Depth Top	2.00 m
Depth Base	- m
Sample Type	D
Samples received	27/02/2020
Schedules received	28/02/2020
Project started	02/03/2020
Date tested	13/03/2020

Site Name	Wensley Road, Reading		
Project No.	GE18760	Client	GESL
Soil Description	Orangish brown clayey SAND		
Test Method	BS1377:Part 2: 1990, clause 9.0		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	92		
0.425	72		
0.3	32		
0.212	15		
0.15	9		
0.063	6		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	0.1
Sand	93.8
Fines <0.063mm	6.1

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	2.4
Curvature Coefficient	1.4

Remarks
Preparation and testing in accordance with BS1377 unless noted below



K4 Soils Laboratory
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Checked and Approved

Initials: J.P

Date: 20/03/2020

2519

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

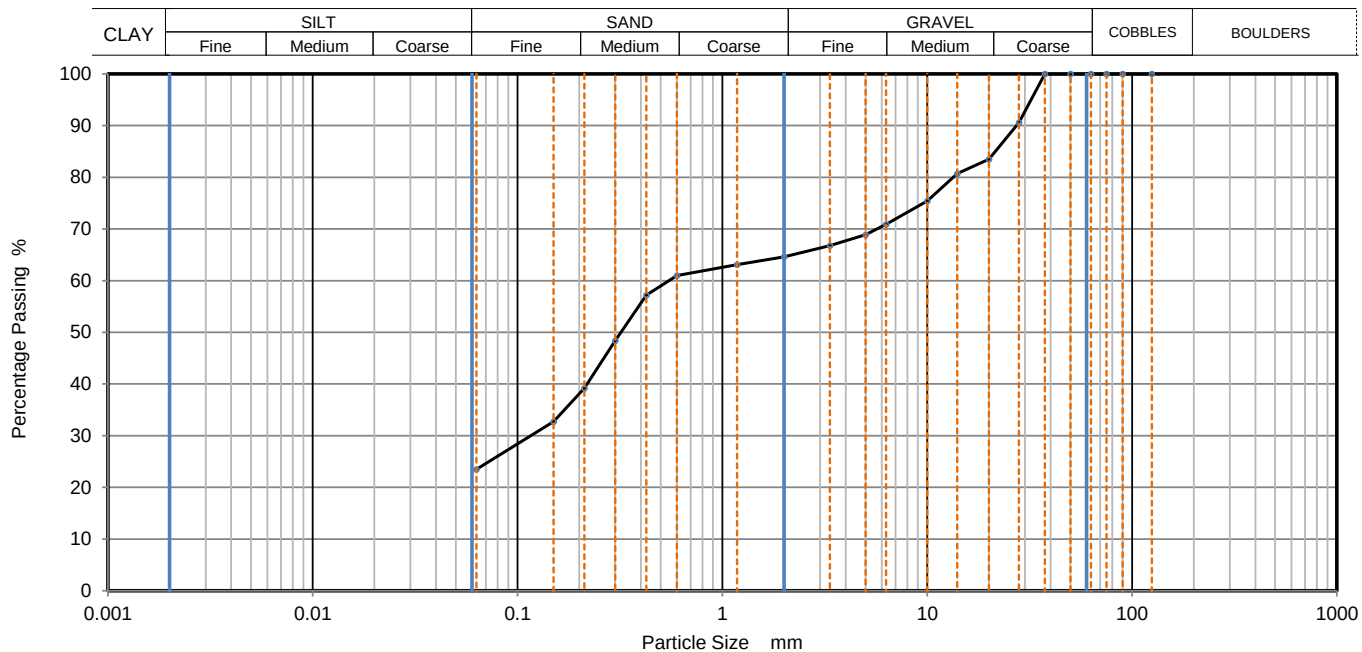
MSF-5-R3



PARTICLE SIZE DISTRIBUTION

Job Ref	27969
Borehole/Pit No.	WS05
Sample No.	4
Depth Top	1.00 m
Depth Base	- m
Sample Type	D
Samples received	27/02/2020
Schedules received	28/02/2020
Project started	02/03/2020
Date tested	16/03/2020

Site Name	Wensley Road, Reading		
Project No.	GE18760	Client	GESL
Soil Description	Brown very clayey very gravelly SAND (gravel is fmc and sub-rounded)		
Test Method	BS1377:Part 2: 1990, clause 9.0		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	91		
20	84		
14	81		
10	75		
6.3	71		
5	69		
3.35	67		
2	65		
1.18	63		
0.6	61		
0.425	57		
0.3	48		
0.212	39		
0.15	33		
0.063	24		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	35.4
Sand	41.2
Fines <0.063mm	23.5

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

Remarks
Preparation and testing in accordance with BS1377 unless noted below



K4 Soils Laboratory
Unit 8, Olds Close, Watford, Herts, WD18 9RU
Email: james@k4soils.com
Tel: 01923 711288

Checked and Approved

Initials: J.P
Date: 20/03/2020

2519

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

MSF-5-R3



California Bearing Ratio (CBR)

Job Ref 27969

Borehole/Pit No. TP02

Site Name Wensley Road, Reading

Sample No. 3

Project No. GE18760

Client

GESL

Depth Top 0.40 m

Soil Description

Brown slightly gravelly sandy silty CLAY with occasional roots (gravel is fmc and angular)

Depth Base - m

Sample Type B

Samples received 27/02/2020

Schedules received 28/02/2020

Test Method BS1377 : Part 4 : 1990, clause 7

Project Started 02/03/2020

Date Tested 13/03/2020

Specimen Preparation

Condition REMOULDED

Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details

Period of soaking 6 days

Time to surface 3 days

Amount of swell recorded -0.50 mm

Material retained on 20mm sieve removed 0.34 %

Initial Specimen details Bulk density 2.02 Mg/m³

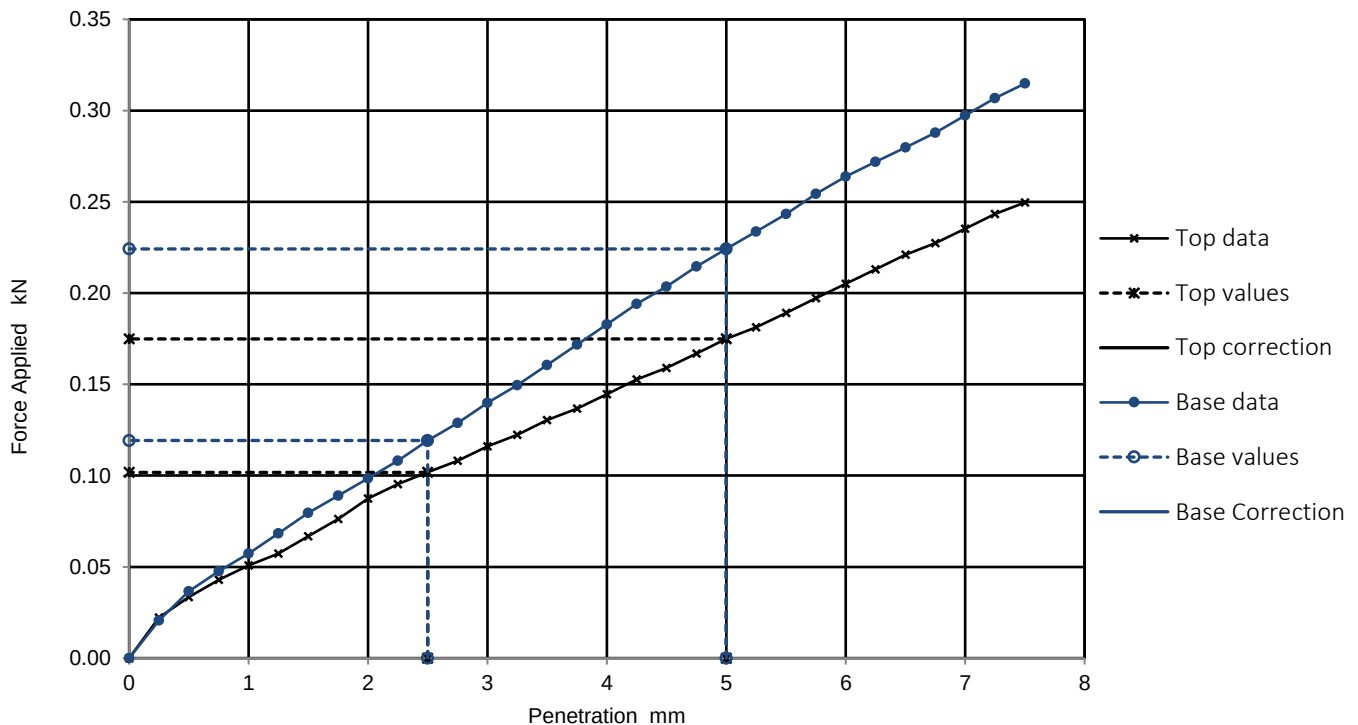
Dry density 1.72 Mg/m³

Moisture content 17 %

Surcharge applied 6 kg

4 kPa

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	0.77	0.87	0.87	N/A
No	0.90	1.1	1.1	

Moisture Content %
19
17

Remarks

1



Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU

Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 20/03/2020



California Bearing Ratio (CBR)

Job Ref 27969

Borehole/Pit No. TP04

Site Name Wensley Road, Reading

Sample No. 4

Project No. GE18760

Client

GESL

Depth Top 0.50 m

Soil Description

Brown slightly clayey gravelly SAND (gravel is fmc and sub-angular to sub-rounded)

Depth Base - m

Sample Type B

Samples received 27/02/2020

Schedules received 28/02/2020

Test Method BS1377 : Part 4 : 1990, clause 7

Project Started 02/03/2020

Date Tested 16/03/2020

Specimen Preparation

Condition REMOULDED

Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details

Not soaked

Period of soaking - days

Time to surface - days

Amount of swell recorded - mm

Material retained on 20mm sieve removed 7.0 %

Initial Specimen details

Bulk density 2.30 Mg/m³

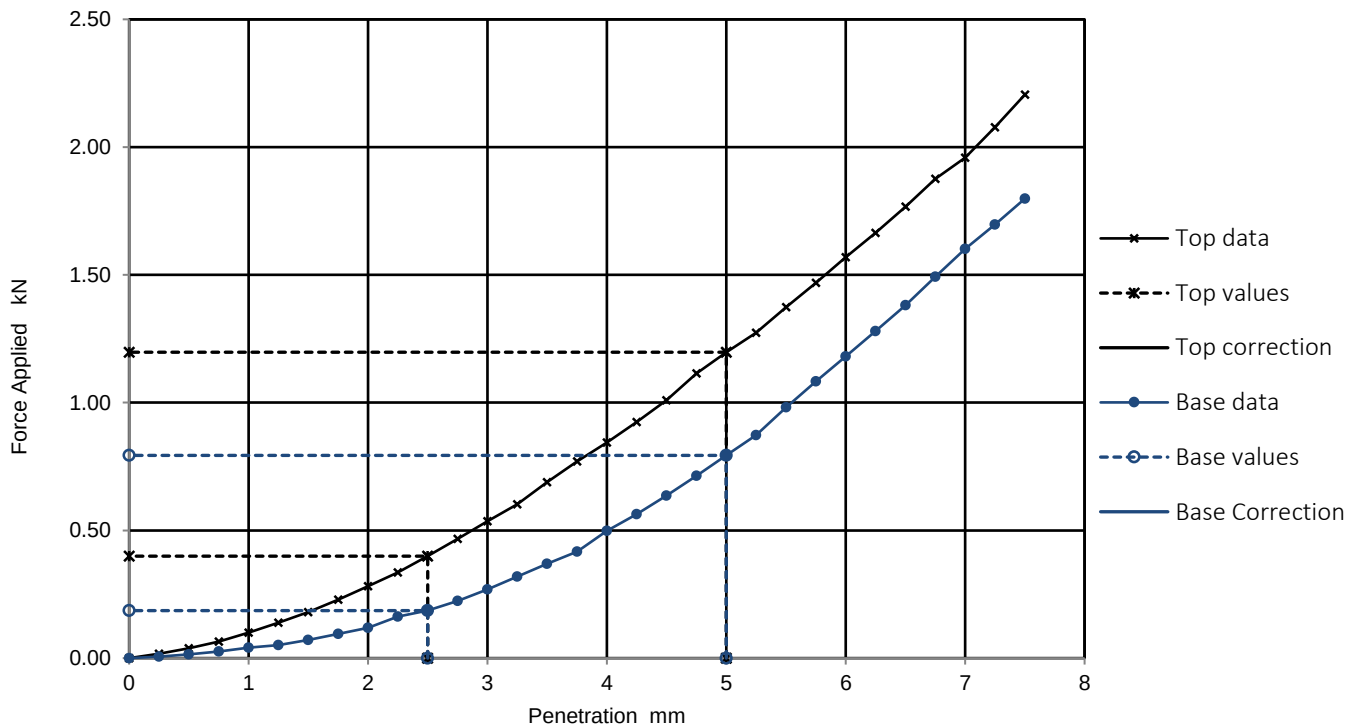
Dry density 2.12 Mg/m³

Moisture content 8.7 %

Surcharge applied 4 kg

2 kPa

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	3.0	6.0	6.0	N/A
No	1.4	4.0	4.0	

Moisture Content %
8.9
10

Remarks

1



Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU

Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 20/03/2020



California Bearing Ratio (CBR)

Job Ref 27969

Borehole/Pit No. TP04

Site Name Wensley Road, Reading

Sample No. 5

Project No. GE18760

Client

GESL

Depth Top 1.00 m

Soil Description

Light brown slightly clayey slightly gravelly SAND (gravel is fm and sub-rounded to sub-angular)

Depth Base - m

Sample Type B

Samples received 27/02/2020

Schedules received 28/02/2020

Test Method BS1377 : Part 4 : 1990, clause 7

Project Started 02/03/2020

Date Tested 16/03/2020

Specimen Preparation

Condition REMOULDED

Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details

Not soaked

Period of soaking - days

Time to surface - days

Amount of swell recorded - mm

Material retained on 20mm sieve removed 0.0 %

Initial Specimen details Bulk density 1.83 Mg/m³

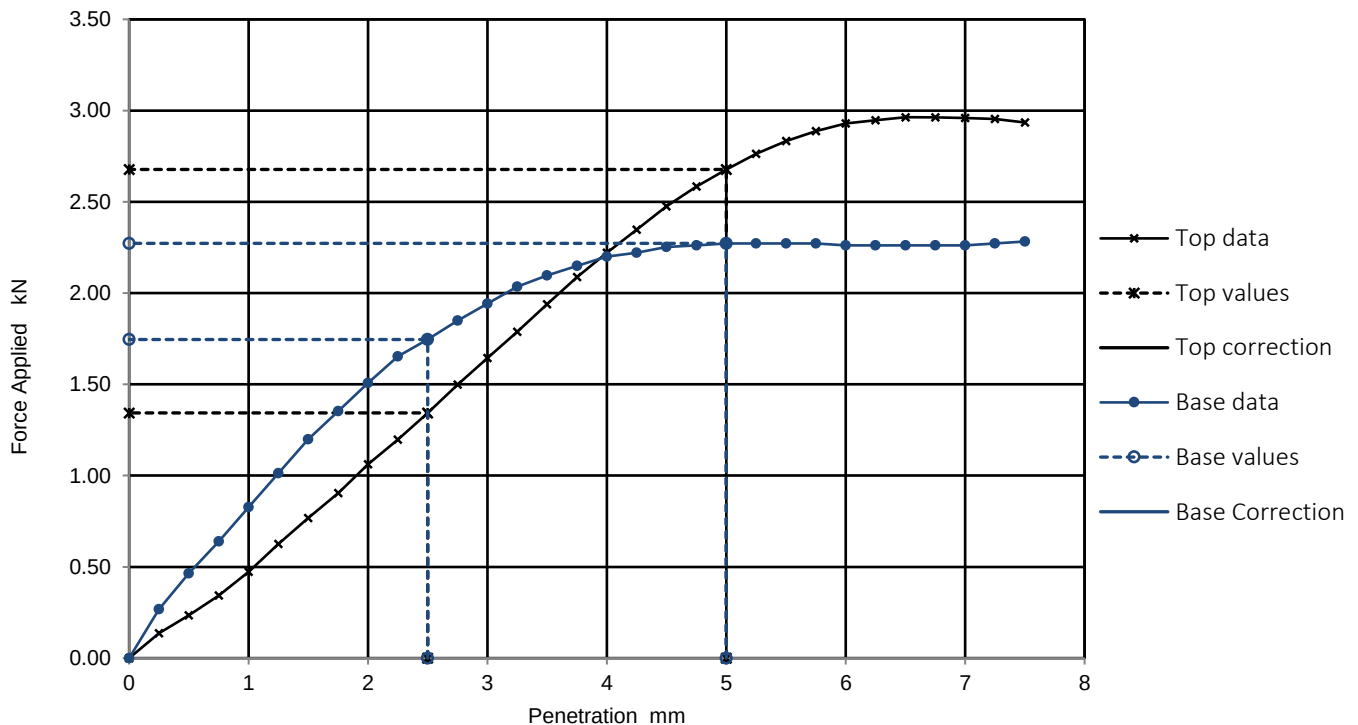
Dry density 1.69 Mg/m³

Moisture content 8.5 %

Surcharge applied 6 kg

4 kPa

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	10	13	13	13
No	13	11	13	

Moisture Content %
9.2
9.0

Remarks

1



Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU

Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 20/03/2020



California Bearing Ratio (CBR)

Job Ref 27969

Borehole/Pit No. TP05

Site Name Wensley Road, Reading

Sample No. 3

Project No. GE18760

Client

GESL

Depth Top 0.40 m

Soil Description

Brown slightly gravelly slightly sandy silty CLAY with occasional roots (gravel is fmc and angular to sub-angular)

Depth Base - m

Sample Type B

Samples received 27/02/2020

Schedules received 28/02/2020

Test Method BS1377 : Part 4 : 1990, clause 7

Project Started 02/03/2020

Date Tested 13/03/2020

Specimen Preparation

Condition REMOULDED

Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details

Period of soaking 6 days

Time to surface 3 days

Amount of swell recorded -1.80 mm

Material retained on 20mm sieve removed 1.4 %

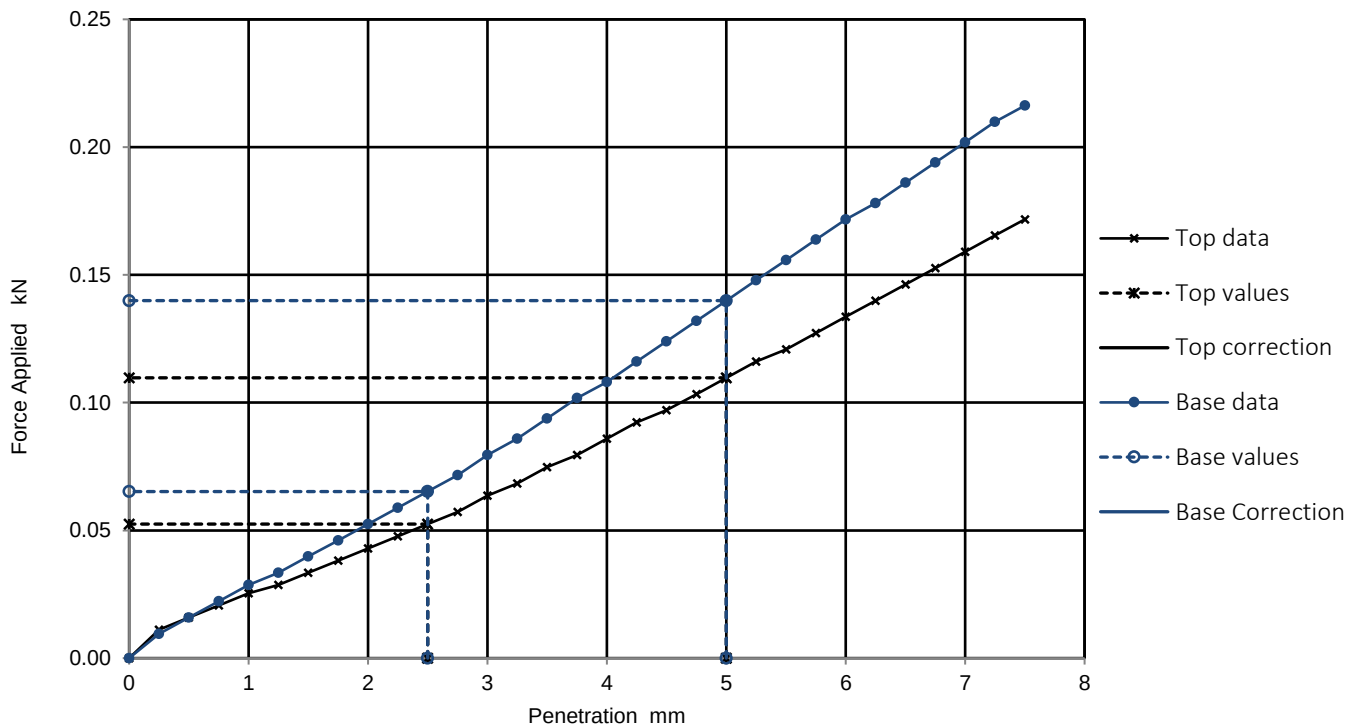
Initial Specimen details Bulk density 2.09 Mg/m³Dry density 1.81 Mg/m³

Moisture content 15 %

Surcharge applied 6 kg

4 kPa

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	0.40	0.55	0.55	N/A
No	0.49	0.70	0.70	

Moisture Content %
15
14

Remarks

1



Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU

Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 20/03/2020



California Bearing Ratio (CBR)

Job Ref 27969

Borehole/Pit No. TP08

Site Name Wensley Road, Reading

Sample No. 2

Project No. GE18760

Client

GESL

Depth Top 0.80 m

Soil Description

Brown slightly gravelly slightly clayey silty SAND (gravel is fmc and sub-angular to sub-rounded)

Depth Base - m

Sample Type B

Samples received 27/02/2020

Schedules received 28/02/2020

Test Method BS1377 : Part 4 : 1990, clause 7

Project Started 02/03/2020

Date Tested 16/03/2020

Specimen Preparation

Condition REMOULDED

Soaking details Not soaked

Details Recompacted with specified standard effort using 2.5kg rammer

Period of soaking - days

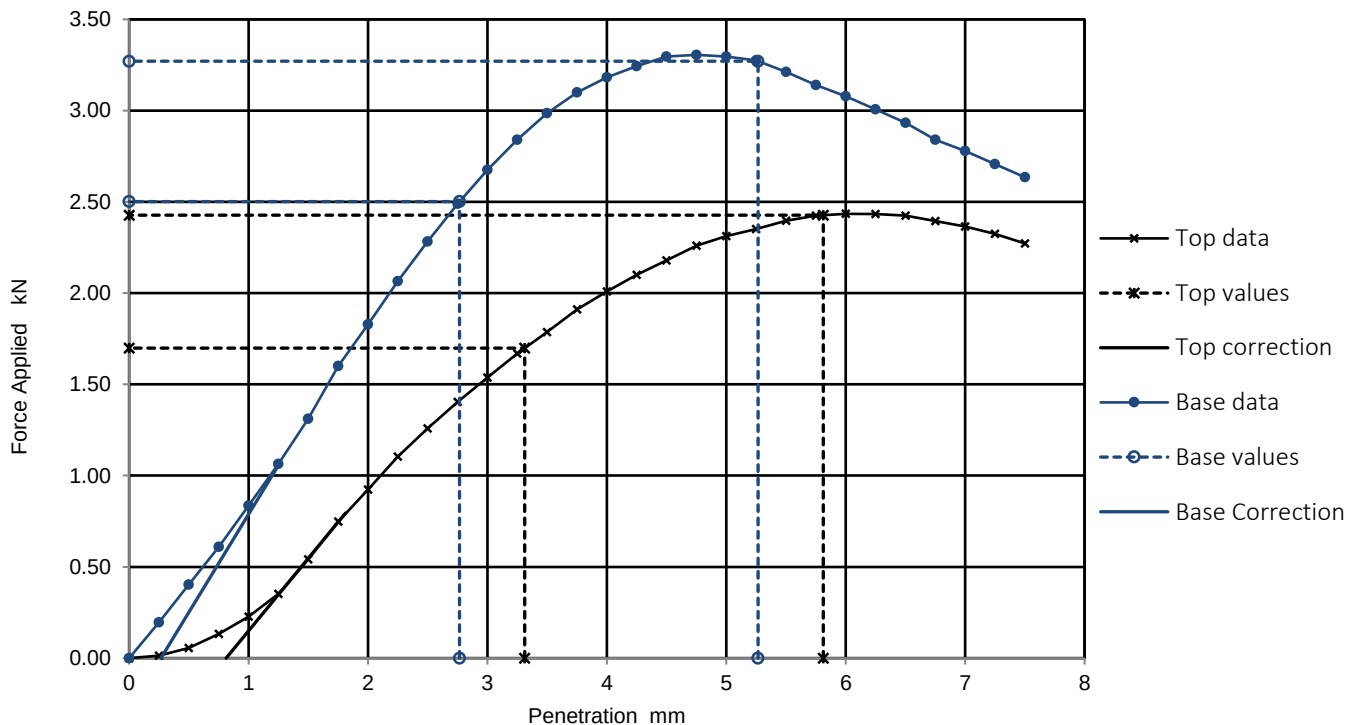
Time to surface - days

Amount of swell recorded - mm

Material retained on 20mm sieve removed 0.22 %

Initial Specimen details	Bulk density	1.86	Mg/m ³	Surcharge applied	4	kg
	Dry density	1.74	Mg/m ³		2	kPa
	Moisture content	6.9	%			

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
Yes	13	12	13	N/A
Yes	19	16	19	

Moisture Content %
7.0
7.0

Remarks

1



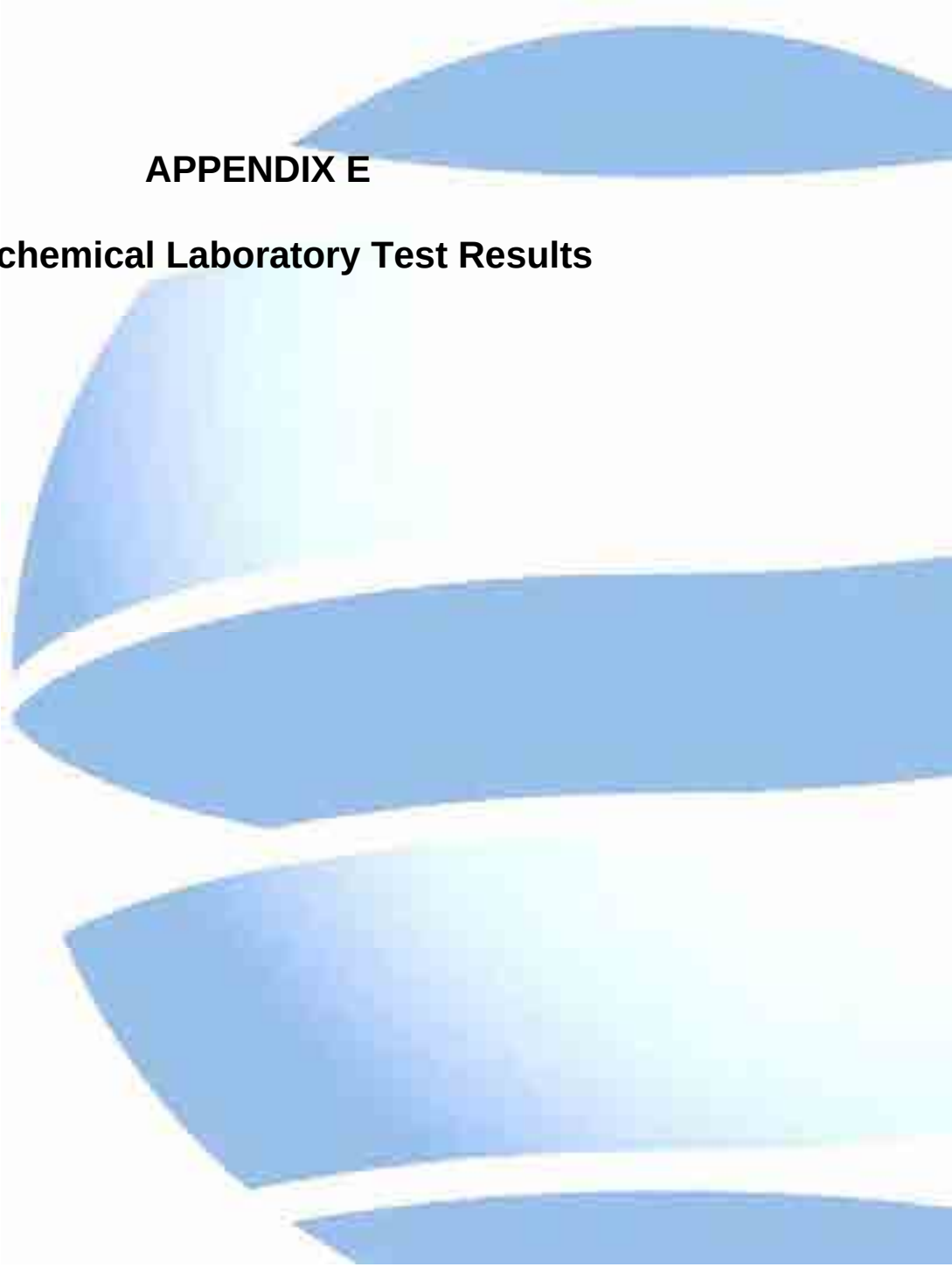
Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU

Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 20/03/2020



APPENDIX E

Geochemical Laboratory Test Results

**Shaun Armitage**

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

t: 01273 832972

e: shaun.armitage@gesl.net

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 : 20-89782

Project / Site name:	Wensley Road, Reading	Samples received on:	28/02/2020
Your job number:	GE18760	Samples instructed on:	28/02/2020
Your order number:	PO-2535	Analysis completed by:	06/03/2020
Report Issue Number:	1	Report issued on:	06/03/2020
Samples Analysed:	17 soil samples		

Signed:

Zina Abdul Razzak
Senior Quality 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

Excel copies of reports are only valid when accompanied by this PDF certificate.

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

Iss No 20-89782-1 Wensley Road, Reading GE18760

This certificate should not be reproduced, except in full, without the express permission of the laboratory.

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

Page 1 of 29



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457570	1457571	1457572	1457573	1457574
Sample Reference				TP01	TP01	TP02	TP03	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.90	0.20	0.20	0.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	25/02/2020	25/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	13	13	18	13	12
Total mass of sample received	kg	0.001	NONE	1.2	1.3	1.2	1.3	1.3

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	7.8	7.3	7.3	7.5
Total Cyanide	mg/kg	1	MCERTS	< 1	-	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	220	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	83	-	27	20	20
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.042	0.0093	0.014	0.0099	0.010
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	41.7	-	13.7	9.9	10.1
Sulphide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	5.2
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	2.5	1.1	2.5	1.2	1.0
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-	96	-	-	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.6	-	1.6	1.3	0.5
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	-	5.9	-	-	-

Total Phenols

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

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.23	-	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.20	-	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.16	-	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.18	-	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.22	-	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.07	-	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	1.06	-	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457570	1457571	1457572	1457573	1457574
Sample Reference				TP01	TP01	TP02	TP03	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.90	0.20	0.20	0.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	25/02/2020	25/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	-	8.3	9.0	6.6
Barium (aqua regia extractable)	mg/kg	1	MCERTS	59	-	45	47	45
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.62	-	0.60	0.60	0.45
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8	-	0.9	0.4	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	-	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16	-	16	14	12
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	-	12	14	8.2
Lead (aqua regia extractable)	mg/kg	1	MCERTS	49	-	32	39	15
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	15	-	13	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	26	-	27	26	20
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	68	-	53	46	32

Magnesium (water soluble)	mg/kg	5	NONE	-	5.4	-	-	-
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Monoaromatics & Oxygenates

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

Petroleum Hydrocarbons

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

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

TPH (C10 - C25)	mg/kg	10	MCERTS	-	-	-	-	-
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Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457570	1457571	1457572	1457573	1457574
Sample Reference				TP01	TP01	TP02	TP03	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.90	0.20	0.20	0.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	25/02/2020	25/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Tribromomethane	µg/kg	1	NONE	< 1.0	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457570	1457571	1457572	1457573	1457574
Sample Reference				TP01	TP01	TP02	TP03	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.90	0.20	0.20	0.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	25/02/2020	25/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
VOCs TICs								
VOCs TICs Compound Name				N/A	NONE	ND	-	-
VOC % Match				%	N/A	NONE	0	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457570	1457571	1457572	1457573	1457574
Sample Reference				TP01	TP01	TP02	TP03	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.90	0.20	0.20	0.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	25/02/2020	25/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	0.23	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	0.20	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.16	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	0.18	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.22	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.07	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457570	1457571	1457572	1457573	1457574
Sample Reference				TP01	TP01	TP02	TP03	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.90	0.20	0.20	0.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	25/02/2020	25/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	ND	-	-	-	-
SVOC % Match	%	N/A	NONE	0	-	-	-	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457575	1457576	1457577	1457578	1457579
Sample Reference				TP06	TP06	TP08	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	1.00	0.20	0.50	1.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	11	7.3	14	9.8	9.5
Total mass of sample received	kg	0.001	NONE	1.2	1.3	1.1	1.1	1.5

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	Chrysotile & Amosite	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	< 0.001	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	< 0.001	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.0	8.3	8.4	8.8	8.8
Total Cyanide	mg/kg	1	MCERTS	< 1	-	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	200	-	-	190
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	34	-	83	2400	83
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.017	0.014	0.041	1.2	0.042
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	16.9	-	41.4	1220	41.7
Sulphide	mg/kg	1	MCERTS	6.5	-	< 1.0	6.7	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	1.1	1.4	2.1	16	1.4
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	-	< 5.0	56	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-	78	-	-	83
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.5	-	1.8	0.6	0.1
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	-	2.2	-	-	< 2.0

Total Phenols

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

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.53	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	0.39	0.89	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	0.50	0.93	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	0.48	0.79	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	0.28	0.37	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	0.36	0.35	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	0.46	0.38	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	0.13	0.14	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	0.31	0.26	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	0.19	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	0.24	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	-	3.34	4.64	< 0.80
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Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457575	1457576	1457577	1457578	1457579
Sample Reference				TP06	TP06	TP08	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	1.00	0.20	0.50	1.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	3.1	-	5.9	9.7	9.5
Barium (aqua regia extractable)	mg/kg	1	MCERTS	21	-	43	99	41
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.22	-	0.40	0.75	0.51
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	-	0.3	1.4	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	-	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	5.6	-	11	31	20
Copper (aqua regia extractable)	mg/kg	1	MCERTS	5.0	-	13	15	7.8
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	-	34	21	99
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	5.4	-	10	42	12
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	9.7	-	18	40	34
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	19	-	66	60	30
Magnesium (water soluble)	mg/kg	5	NONE	-	< 5.0	-	-	5.3

Monoaromatics & Oxygenates

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

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	-	< 2.0	6.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	-	< 8.0	10	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	-	< 8.0	36	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	-	< 10	52	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	-	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	-	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	-	16	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	-	19	15	< 10
TPH (C10 - C25)	mg/kg	10	MCERTS	-	-	-	31	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457575	1457576	1457577	1457578	1457579
Sample Reference				TP06	TP06	TP08	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	1.00	0.20	0.50	1.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457575	1457576	1457577	1457578	1457579
Sample Reference				TP06	TP06	TP08	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	1.00	0.20	0.50	1.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
VOCs TICs								
VOCs TICs Compound Name					N/A	NONE	-	-
VOC % Match				%	N/A	NONE	-	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457575	1457576	1457577	1457578	1457579
Sample Reference				TP06	TP06	TP08	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	1.00	0.20	0.50	1.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	-	-	-	-	-
Naphthalene	mg/kg	0.05	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	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457575	1457576	1457577	1457578	1457579
Sample Reference				TP06	TP06	TP08	WS01	WS01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	1.00	0.20	0.50	1.40
Date Sampled				25/02/2020	25/02/2020	25/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457580	1457581	1457582	1457583	1457584
Sample Reference				WS02	WS03	WS03	WS04	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.50	1.00	0.40	0.90
Date Sampled				26/02/2020	26/02/2020	26/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	12	10	11	8.8	6.9
Total mass of sample received	kg	0.001	NONE	1.2	1.3	1.2	1.1	1.2

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.3	8.2	8.7	11.1	7.8
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	-	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	300	-	190
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	210	62	-	180	35
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.11	0.031	0.036	0.089	0.017
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	106	30.8	-	89.4	17.4
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	1.7	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	1.4	2.2	4.1	130	11
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-	-	110	-	81
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.9	0.6	-	0.4	< 0.1
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	-	-	9.3	-	47

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	-	< 0.80	< 0.80
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Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457580	1457581	1457582	1457583	1457584
Sample Reference				WS02	WS03	WS03	WS04	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.50	1.00	0.40	0.90
Date Sampled				26/02/2020	26/02/2020	26/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.5	9.2	-	6.2	5.6
Barium (aqua regia extractable)	mg/kg	1	MCERTS	43	43	-	47	38
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.53	0.55	-	0.43	0.51
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.6	-	1.5	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	-	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14	15	-	14	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	34	17	-	12	19
Lead (aqua regia extractable)	mg/kg	1	MCERTS	40	38	-	34	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	13	-	12	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	2.0	-	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	23	26	-	22	28
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	48	46	-	34	39
Magnesium (water soluble)	mg/kg	5	NONE	-	-	5.3	-	5.8
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Petroleum Hydrocarbons								
Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	1.2	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	31	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	-	38	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	-	49	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	-	120	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	13	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	-	23	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	-	59	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	-	96	< 10
TPH (C10 - C25)	mg/kg	10	MCERTS	-	-	-	130	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457580	1457581	1457582	1457583	1457584
Sample Reference				WS02	WS03	WS03	WS04	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.50	1.00	0.40	0.90
Date Sampled				26/02/2020	26/02/2020	26/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457580	1457581	1457582	1457583	1457584
Sample Reference				WS02	WS03	WS03	WS04	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.50	1.00	0.40	0.90
Date Sampled				26/02/2020	26/02/2020	26/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
VOCs TICs								
VOCs TICs Compound Name					N/A	NONE	-	-
VOC % Match				%	N/A	NONE	-	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457580	1457581	1457582	1457583	1457584
Sample Reference				WS02	WS03	WS03	WS04	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.50	1.00	0.40	0.90
Date Sampled				26/02/2020	26/02/2020	26/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457580	1457581	1457582	1457583	1457584
Sample Reference				WS02	WS03	WS03	WS04	WS04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.50	1.00	0.40	0.90
Date Sampled				26/02/2020	26/02/2020	26/02/2020	26/02/2020	26/02/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	ND	-
SVOC % Match	%	N/A	NONE	-	-	-	0	-



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457585	1457586			
Sample Reference				WS05	WS06			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	0.90			
Date Sampled				26/02/2020	26/02/2020			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	12	7.2			
Total mass of sample received	kg	0.001	NONE	1.4	1.3			

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-			
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-			
Asbestos Quantification Total	%	0.001	ISO 17025	-	-			

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	7.8			
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1			
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-			
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	22	77			
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.011	0.039			
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	11.2	38.5			
Sulphide	mg/kg	1	MCERTS	< 1.0	4.4			
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	1.4	3.1			
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	72			
Total Sulphur	mg/kg	50	MCERTS	-	-			
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.2	0.4			
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	-	-			

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80			
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Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457585	1457586			
Sample Reference				WS05	WS06			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	0.90			
Date Sampled				26/02/2020	26/02/2020			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.9	6.0			
Barium (aqua regia extractable)	mg/kg	1	MCERTS	47	40			
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.56	0.47			
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.6			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16	14			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	11			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	16	19			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	12			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	27	22			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	41	45			
Magnesium (water soluble)	mg/kg	5	NONE	-	-			
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0			
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0			
Petroleum Hydrocarbons								
Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-	-			
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10			
TPH (C10 - C25)	mg/kg	10	MCERTS	-	-			



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457585	1457586			
Sample Reference				WS05	WS06			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	0.90			
Date Sampled				26/02/2020	26/02/2020			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0			
Chloroethane	µg/kg	1	NONE	-	< 1.0			
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0			
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0			
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0			
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0			
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0			
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0			
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0			
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0			
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0			
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0			
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0			
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0			
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0			
Benzene	µg/kg	1	MCERTS	-	< 1.0			
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0			
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0			
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0			
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0			
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0			
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0			
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0			
Toluene	µg/kg	1	MCERTS	-	< 1.0			
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0			
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0			
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0			
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0			
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0			
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0			
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0			
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0			
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0			
Styrene	µg/kg	1	MCERTS	-	< 1.0			
Tribromomethane	µg/kg	1	NONE	-	< 1.0			
o-Xylene	µg/kg	1	MCERTS	-	< 1.0			
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0			
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0			
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0			
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0			
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0			
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0			
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0			
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0			
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0			
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0			
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0			
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0			
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0			
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0			
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0			
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0			
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0			
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0			
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0			



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457585	1457586			
Sample Reference				WS05	WS06			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	0.90			
Date Sampled				26/02/2020	26/02/2020			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
VOCs TICs								
VOCs TICs Compound Name					N/A	NONE	-	ND
VOC % Match				%	N/A	NONE	-	0



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457585	1457586			
Sample Reference				WS05	WS06			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	0.90			
Date Sampled				26/02/2020	26/02/2020			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	< 0.1			
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2			
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1			
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2			
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2			
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1			
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2			
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1			
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3			
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 0.05			
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3			
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2			
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2			
2-Nitrophenol	mg/kg	0.3	MCERTS	-	< 0.3			
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3			
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3			
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3			
Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05			
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3			
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1			
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1			
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1			
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	< 0.1			
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 0.2			
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1			
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1			
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1			
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	< 0.1			
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05			
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05			
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2			
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2			
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3			
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2			
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2			
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05			
Azobenzene	mg/kg	0.3	MCERTS	-	< 0.3			
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2			
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3			
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05			
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05			
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3			
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2			
Anthraquinone	mg/kg	0.3	MCERTS	-	< 0.3			
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05			
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05			
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3			
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05			
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05			
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05			
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05			
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05			
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05			



Analytical Report Number: 20-89782

Project / Site name: Wensley Road, Reading

Your Order No: PO-2535

Lab Sample Number				1457585	1457586			
Sample Reference				WS05	WS06			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.50	0.90			
Date Sampled				26/02/2020	26/02/2020			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	ND			
SVOC % Match	%	N/A	NONE	-	0			



Analytical Report Number: 20-89782
Project / Site name: Wensley Road, Reading
Your Order No: PO-2535

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-PL 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
1457578	WS01	0.50	150	Loose Fibres	Chrysotile & Amosite	< 0.001	< 0.001

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



Analytical Report Number : 20-89782

Project / Site name: Wensley Road, Reading

* 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 *
1457570	TP01	None Supplied	0.30	Brown loam and clay with gravel and vegetation.
1457571	TP01	None Supplied	0.90	Brown loam and clay with gravel and vegetation.
1457572	TP02	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
1457573	TP03	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
1457574	TP05	None Supplied	0.40	Brown loam and clay with gravel and vegetation.
1457575	TP06	None Supplied	0.70	Brown loam and clay with gravel and vegetation.
1457576	TP06	None Supplied	1.00	Brown loam and clay with gravel and vegetation.
1457577	TP08	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
1457578	WS01	None Supplied	0.50	Brown clay and loam with gravel and brick.
1457579	WS01	None Supplied	1.40	Brown clay and loam with gravel.
1457580	WS02	None Supplied	0.30	Brown clay and loam with gravel and vegetation.
1457581	WS03	None Supplied	0.50	Brown clay and loam with gravel and vegetation.
1457582	WS03	None Supplied	1.00	Brown clay and loam with gravel and vegetation.
1457583	WS04	None Supplied	0.40	Brown loam and sand with gravel and brick.
1457584	WS04	None Supplied	0.90	Brown loam and clay with gravel.
1457585	WS05	None Supplied	0.50	Brown loam and clay with gravel.
1457586	WS06	None Supplied	0.90	Brown clay and loam with gravel.



Analytical Report Number : 20-89782

Project / Site name: Wensley Road, Reading

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

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 disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
DRO (Soil)	Determination of extractable hydrocarbons in soil by GC-MS/FID.	In-house method with silica gel split/clean up.	L076-PL	D	MCERTS
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC.	In-house method based on Secondsite Property Holdings Guidance for Assessing and Managing Potential	L021-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	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.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
PRO (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS

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

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Analytical Report Number : 20-89782

Project / Site name: Wensley Road, Reading

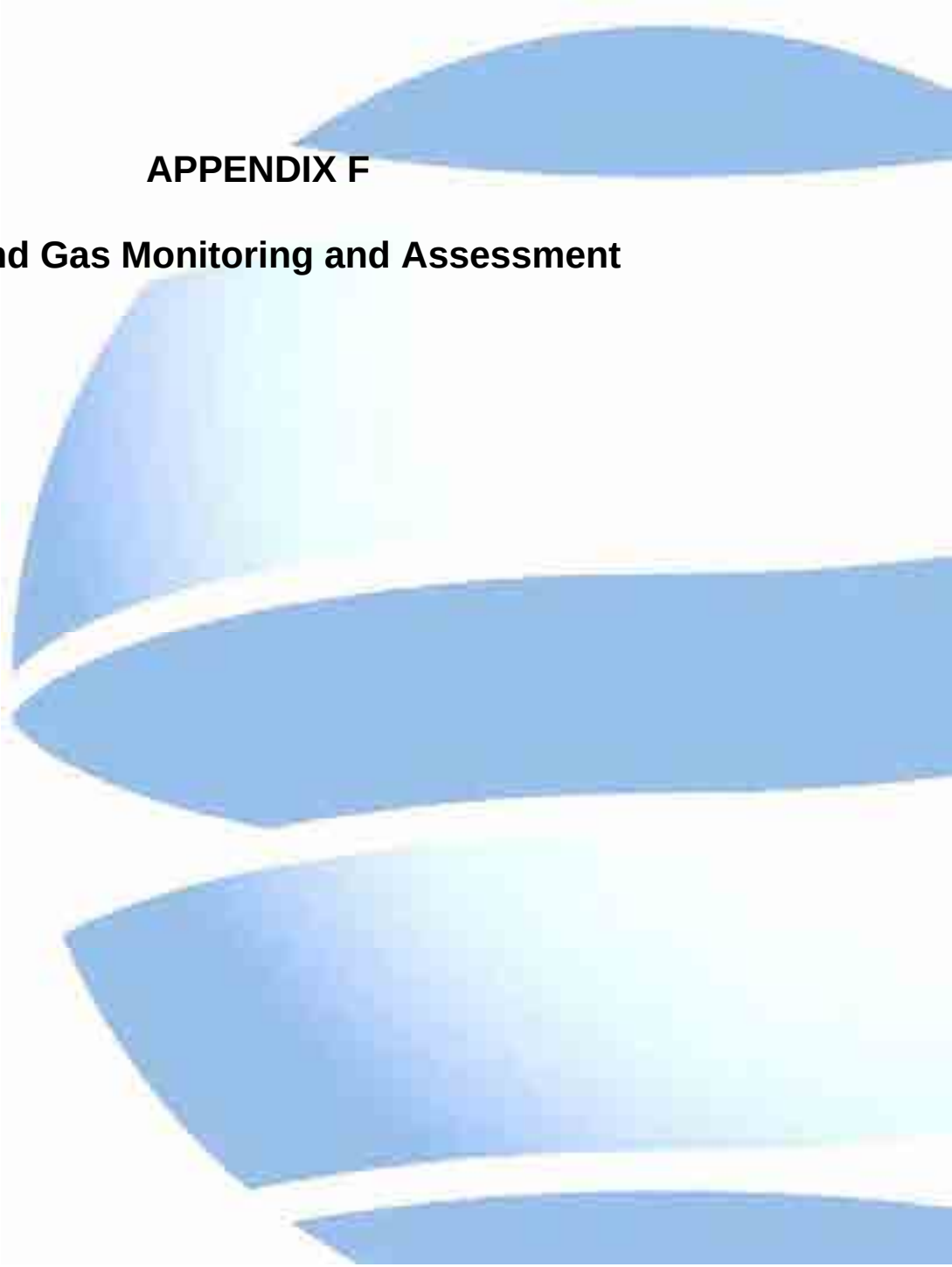
Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
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
Tentatively identified compounds (SVOC) in soil	Determination of semi-volatile organic compounds total ion count in soil by extraction with dichloromethane and hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L064-PL	D	NONE
Tentatively identified compounds (VOC) in soil	Determination of volatile organic compounds total ion count in soil by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073-PL	W	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

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

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

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



APPENDIX F

Ground Gas Monitoring and Assessment

Project: Wensley Road, Reading
 Ref: GE18760
 Client: Reading Borough Council c/o WFBA



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS06	04/03/20	0	0.0	0.0	20.0	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/03/20	10	0.0	3.0	17.6	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/03/20	20	0.0	4.0	16.5	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/03/20	30	0.0	4.1	16.0	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/03/20	60	0.0	4.2	15.8	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/03/20	90	0.0	4.2	15.8	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/03/20	120	0.0	4.2	15.8	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/03/20	180	0.0	4.2	15.8	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/03/20	0	0.0	0.0	20.0	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/03/20	10	0.0	1.7	18.2	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/03/20	20	0.0	1.7	18.2	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/03/20	30	0.0	1.7	18.2	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/03/20	60	0.0	1.7	18.2	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/03/20	90	0.0	1.7	18.2	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/03/20	120	0.0	1.7	18.2	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/03/20	180	0.0	1.7	18.2	0.0	-	1000	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/03/20	0	0.0	0.0	20.0	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/03/20	10	0.0	0.3	19.7	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/03/20	20	0.0	0.4	19.7	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/03/20	30	0.0	0.4	19.7	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/03/20	60	0.0	0.4	19.6	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/03/20	90	0.0	0.4	19.6	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/03/20	120	0.0	0.4	19.6	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/03/20	180	0.0	0.4	19.6	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/03/20	0	0.0	0.0	20.0	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/03/20	10	0.0	1.0	19.0	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/03/20	20	0.0	1.0	18.9	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/03/20	30	0.0	1.0	18.8	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/03/20	60	0.0	1.0	18.8	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/03/20	90	0.0	1.0	18.8	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/03/20	120	0.0	1.0	18.8	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/03/20	180	0.0	1.0	18.8	0.0	-	999	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	03/06/20	0	0.0	0.0	20.9	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	03/06/20	10	0.0	1.3	19.0	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	03/06/20	20	0.0	2.0	17.7	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	03/06/20	30	0.0	2.0	17.7	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	03/06/20	60	0.0	2.0	17.5	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	03/06/20	90	0.0	2.0	17.5	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	03/06/20	120	0.0	2.0	17.5	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	03/06/20	180	0.0	2.0	17.5	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	03/06/20	0								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	03/06/20	10				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	03/06/20	20				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	03/06/20	30				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	03/06/20	60				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Wensley Road, Reading
 Ref: GE18760
 Client: Reading Borough Council c/o WFBA



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS05	03/06/20	90				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	03/06/20	120				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	03/06/20	180				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	03/06/20	0				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	03/06/20	10				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	03/06/20	20				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	03/06/20	30				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	03/06/20	60				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	03/06/20	90				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	03/06/20	120				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	03/06/20	180				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	03/06/20	0	0.0	0.0	20.9	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	03/06/20	10	0.0	5.1	15.2	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	03/06/20	20	0.0	5.3	15.3	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	03/06/20	30	0.0	5.3	15.5	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	03/06/20	60	0.0	5.4	14.9	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	03/06/20	90	0.0	5.4	15.0	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	03/06/20	120	0.0	5.4	15.1	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	03/06/20	180	0.0	5.4	15.0	0.0	-	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS01	06/07/20	0	0.0	0.0	20.9	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	06/07/20	10	0.0	2.4	18.1	0.0	0.0	1002	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	06/07/20	20	0.0	2.4	17.9	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	06/07/20	30	0.0	2.4	17.9	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	06/07/20	60	0.0	2.4	17.6	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	06/07/20	90	0.0	2.4	17.6	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	06/07/20	120	0.0	2.4	17.6	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	06/07/20	180	0.0	2.4	17.6	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	06/07/20	0				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	06/07/20	10				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	06/07/20	20				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	06/07/20	30				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	06/07/20	60				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	06/07/20	90				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	06/07/20	120				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	06/07/20	180				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	06/07/20	0				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	06/07/20	10				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	06/07/20	20				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	06/07/20	30				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	06/07/20	60				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	06/07/20	90				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	06/07/20	120				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	06/07/20	180				-	-	-	-	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	06/07/20	0	0.0	0.0	20.9	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	06/07/20	10	0.0	4.5	18.0	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Wensley Road, Reading
Ref: GE18760
Client: Reading Borough Council c/o WFBA



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS06	06/07/20	20	0.0	5.8	14.6	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	06/07/20	30	0.0	5.8	14.5	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	06/07/20	60	0.0	6.0	14.4	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	06/07/20	90	0.0	6.0	14.4	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	06/07/20	120	0.0	6.0	14.4	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	06/07/20	180	0.0	6.0	14.4	0.0	0.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS01	05/08/20	0	0.0	0.0	20.7	0.0	0.7	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/08/20	10	0.0	1.7	19.2	0.0	0.7	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/08/20	20	0.0	2.1	17.8	0.0	0.7	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/08/20	30	0.0	2.2	17.6	0.0	0.7	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/08/20	60	0.0	2.2	17.4	0.0	0.7	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/08/20	90	0.0	2.2	17.3	0.0	0.7	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/08/20	120	0.0	2.2	17.3	0.0	0.7	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/08/20	180	0.0	2.2	17.3	0.0	0.7	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/08/20	0	0.0	0.0	20.5	0.0	0.2	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/08/20	10	0.0	0.9	20.4	0.0	0.2	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/08/20	20	0.0	1.3	20.1	0.0	0.2	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/08/20	30	0.0	1.3	19.9	0.0	0.2	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/08/20	60	0.0	1.3	19.8	0.0	0.2	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/08/20	90	0.0	1.3	19.8	0.0	0.2	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/08/20	120	0.0	1.3	19.8	0.0	0.2	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/08/20	180	0.0	1.3	19.8	0.0	0.2	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/08/20	0	0.0	0.0	20.7	0.0	0.7	1005	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/08/20	10	0.0	0.9	20.7	0.0	0.7	1005	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/08/20	20	0.0	1.4	20.0	0.0	0.7	1005	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/08/20	30	0.0	1.5	19.8	0.0	0.7	1005	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/08/20	60	0.0	1.7	19.6	0.0	0.7	1005	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/08/20	90	0.0	1.7	19.5	0.0	0.7	1005	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/08/20	120	0.0	1.7	19.5	0.0	0.7	1005	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/08/20	180	0.0	1.7	19.5	0.0	0.7	1005	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/08/20	0	0.0	0.0	20.8	0.0	1.0	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/08/20	10	0.0	1.7	19.6	0.0	1.0	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/08/20	20	0.0	2.4	18.4	0.0	1.0	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/08/20	30	0.0	2.8	17.9	0.0	1.0	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/08/20	60	0.0	3.7	16.9	0.0	1.0	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/08/20	90	0.0	4.0	16.5	0.0	1.0	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/08/20	120	0.0	4.3	16.1	0.0	1.0	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/08/20	180	0.0	4.8	15.6	0.0	1.0	1006	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/09/20	0	0.0	0.0	20.9	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/09/20	10	0.0	2.3	17.7	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/09/20	20	0.0	2.3	17.7	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/09/20	30	0.0	2.3	17.7	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/09/20	60	0.0	2.3	17.7	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/09/20	90	0.0	2.3	17.7	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/09/20	120	0.0	2.3	17.7	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Wensley Road, Reading
Ref: GE18760
Client: Reading Borough Council c/o WFBA



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS01	04/09/20	180	0.0	2.3	17.7	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/09/20	0	0.0	0.0	20.9	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/09/20	10	0.0	2.1	18.3	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/09/20	20	0.0	2.1	18.3	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/09/20	30	0.0	2.1	18.3	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/09/20	60	0.0	2.1	18.3	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/09/20	90	0.0	2.1	18.3	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/09/20	120	0.0	2.1	18.3	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/09/20	180	0.0	2.1	18.3	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/09/20	0								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/09/20	10								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/09/20	20								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/09/20	30								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/09/20	60								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/09/20	90								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/09/20	120								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/09/20	180								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/09/20	0	0.0	0.0	20.9	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/09/20	10	0.0	6.5	14.1	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	04/09/20	20	0.0	6.5	14.0	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	04/09/20	30	0.0	6.6	13.9	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	04/09/20	60	0.0	6.7	13.9	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	04/09/20	90	0.0	6.7	13.9	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	04/09/20	120	0.0	6.7	13.9	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS06	04/09/20	180	0.0	6.7	13.9	0.0	0.0	1008	Dry	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
WS01	05/10/20	0	0.0	0.0	20.1	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/10/20	10	0.0	1.7	18.7	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/10/20	20	0.0	2.2	17.1	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/10/20	30	0.0	2.3	16.9	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/10/20	60	0.0	2.3	16.7	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/10/20	90	0.0	2.3	16.7	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/10/20	120	0.0	2.3	16.7	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	05/10/20	180	0.0	2.3	16.7	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/10/20	0	0.0	0.0	20.2	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/10/20	10	0.0	0.8	20.2	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/10/20	20	0.0	0.8	19.7	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/10/20	30	0.0	0.9	19.6	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/10/20	60	0.0	0.9	19.6	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/10/20	90	0.0	0.9	19.6	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/10/20	120	0.0	0.9	19.5	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	05/10/20	180	0.0	0.9	19.5	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/10/20	0	0.0	0.0	20.4	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/10/20	10	0.0	1.3	19.8	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/10/20	20	0.0	1.6	19.1	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/10/20	30	0.0	1.7	18.8	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Wensley Road, Reading
 Ref: GE18760
 Client: Reading Borough Council c/o WFBA



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS05	05/10/20	60	0.0	1.7	18.8	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/10/20	90	0.0	1.7	18.8	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/10/20	120	0.0	1.7	18.7	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	05/10/20	180	0.0	1.7	18.7	0.0	0.1	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/10/20	0	0.0	0.0	20.2	0.0	0.5	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/10/20	10	0.0	0.9	20.0	0.0	0.5	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/10/20	20	0.0	1.3	19.0	0.0	0.5	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/10/20	30	0.0	1.5	18.6	0.0	0.5	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/10/20	60	0.0	1.9	18.0	0.0	0.5	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/10/20	90	0.0	2.2	17.6	0.0	0.5	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/10/20	120	0.0	2.5	17.1	0.0	0.5	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	05/10/20	180	0.0	3.6	16.3	0.0	0.5	990	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/11/20	0	0.0	0.0	20.0	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/11/20	10	0.0	0.7	20.0	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/11/20	20	0.0	0.8	19.9	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/11/20	30	0.0	0.9	19.6	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/11/20	60	0.0	0.9	19.6	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/11/20	90	0.0	0.9	19.6	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/11/20	120	0.0	0.9	19.4	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/11/20	180	0.0	0.9	19.4	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/11/20	0	0.0	0.0	20.1	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/11/20	10	0.0	0.9	20.1	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/11/20	20	0.0	1.0	19.9	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/11/20	30	0.0	1.0	19.9	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/11/20	60	0.0	1.0	19.9	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/11/20	90	0.0	1.0	19.9	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/11/20	120	0.0	1.0	19.9	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/11/20	180	0.0	1.0	19.9	0.0	0.2	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/11/20	0	0.0	0.0	20.1	0.0	0.3	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/11/20	10	0.0	1.5	20.1	0.0	0.3	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/11/20	20	0.0	1.5	19.9	0.0	0.3	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/11/20	30	0.0	1.5	19.7	0.0	0.3	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/11/20	60	0.0	1.5	19.1	0.0	0.3	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/11/20	90	0.0	1.5	19.1	0.0	0.3	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/11/20	120	0.0	1.5	19.1	0.0	0.3	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/11/20	180	0.0	1.5	19.1	0.0	0.3	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/11/20	0	0.0	0.0	20.0	0.0	0.5	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/11/20	10	0.0	1.0	20.0	0.0	0.5	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/11/20	20	0.0	1.1	20.1	0.0	0.5	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/11/20	30	0.0	1.3	19.5	0.0	0.5	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/11/20	60	0.0	1.7	18.9	0.0	0.5	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/11/20	90	0.0	1.9	18.0	0.0	0.5	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/11/20	120	0.0	2.2	17.5	0.0	0.5	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/11/20	180	0.0	2.9	17.1	0.0	0.5	1019	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/12/20	0	0.0	0.0	19.7	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Wensley Road, Reading
 Ref: GE18760
 Client: Reading Borough Council c/o WFBA



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS01	04/12/20	10	0.0	1.0	19.7	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/12/20	20	0.0	1.3	19.5	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/12/20	30	0.0	1.3	19.5	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/12/20	60	0.0	1.3	19.5	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/12/20	90	0.0	1.3	19.5	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/12/20	120	0.0	1.3	19.5	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/12/20	180	0.0	1.3	19.5	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/12/20	0	0.0	0.0	20.0	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/12/20	10	0.0	1.2	20.0	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/12/20	20	0.0	1.2	20.0	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/12/20	30	0.0	1.2	20.0	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/12/20	60	0.0	1.2	20.1	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/12/20	90	0.0	1.2	20.1	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/12/20	120	0.0	1.2	20.1	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/12/20	180	0.0	1.2	20.1	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/12/20	0	0.0	0.0	18.9	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/12/20	10	0.0	1.7	18.9	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/12/20	20	0.0	1.7	18.9	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/12/20	30	0.0	1.7	18.9	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/12/20	60	0.0	1.7	18.9	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/12/20	90	0.0	1.7	18.9	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/12/20	120	0.0	1.7	18.9	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/12/20	180	0.0	1.7	18.9	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/12/20	0	0.0	0.0	20.3	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/12/20	10	0.0	0.9	20.3	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/12/20	20	0.0	0.9	20.1	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/12/20	30	0.0	1.4	18.6	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/12/20	60	0.0	1.7	17.9	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/12/20	90	0.0	2.1	17.5	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/12/20	120	0.0	2.6	17.1	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/12/20	180	0.0	3.0	16.8	0.0	-	972	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/01/21	0	0.0	0.1	20.2	0.0	0.1	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/01/21	10	0.0	0.7	20.1	0.0	0.1	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/01/21	20	0.0	1.5	18.0	0.0	0.1	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/01/21	30	0.0	1.7	17.3	0.0	0.1	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/01/21	60	0.0	1.7	16.8	0.0	0.1	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/01/21	90	0.0	1.7	16.8	0.0	0.1	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/01/21	120	0.0	1.8	16.8	0.0	0.1	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/01/21	180	0.0	1.8	16.8	0.0	0.1	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/01/21	0	0.0	0.1	20.1	0.0	0.2	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/01/21	10	0.0	1.4	19.8	0.0	0.2	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/01/21	20	0.0	2.3	18.5	0.0	0.2	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/01/21	30	0.0	2.5	17.9	0.0	0.2	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/01/21	60	0.0	2.7	17.8	0.0	0.2	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/01/21	90	0.0	2.6	17.8	0.0	0.2	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Wensley Road, Reading
 Ref: GE18760
 Client: Reading Borough Council c/o WFBA

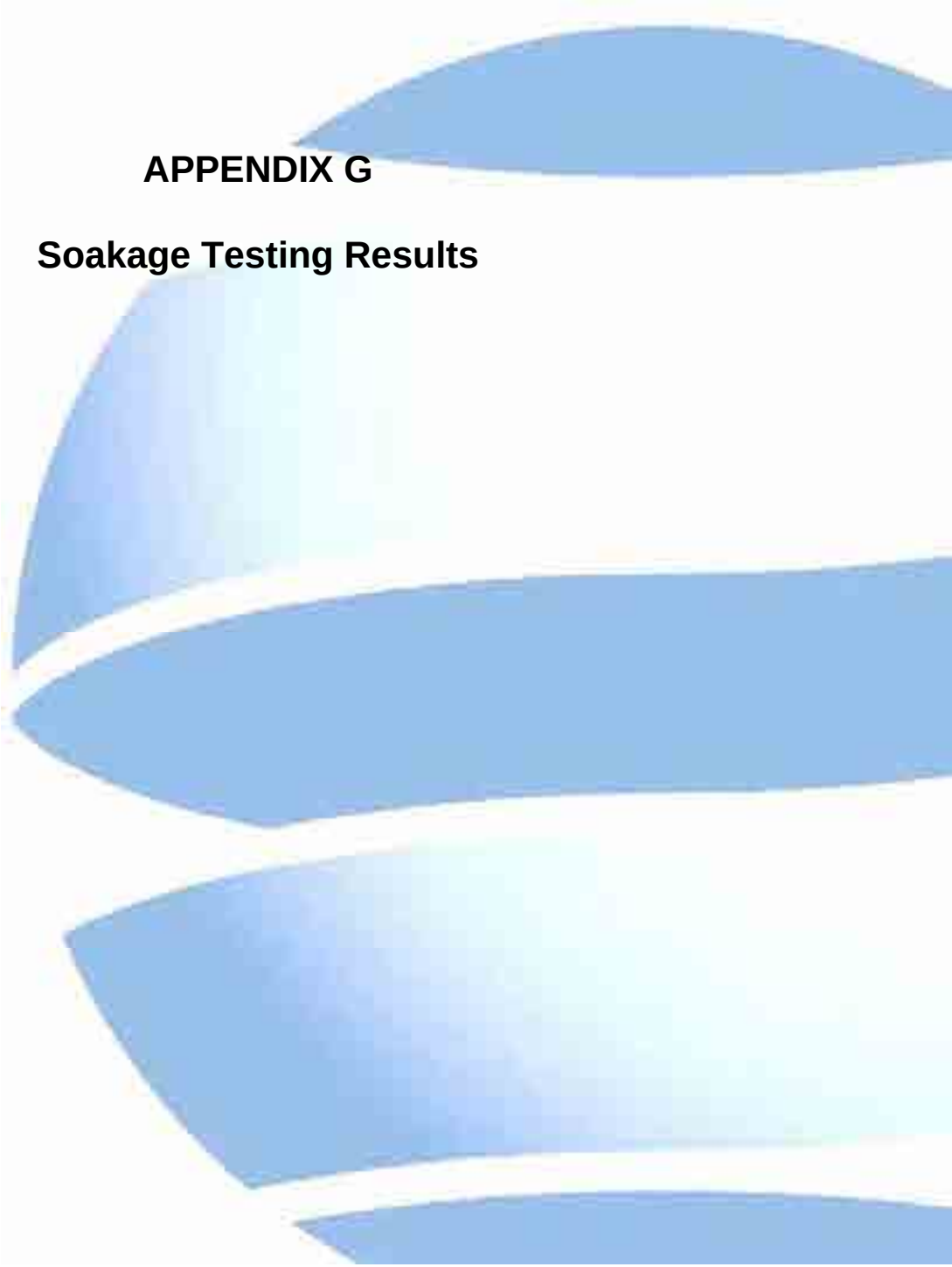


Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS02	04/01/21	120	0.0	2.5	17.8	0.0	0.2	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/01/21	180	0.0	2.6	17.8	0.0	0.2	1010	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/01/21	0	0.0	0.1	20.1	0.0	0.1	1011	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/01/21	10	0.0	1.2	19.9	0.0	0.1	1011	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/01/21	20	0.0	1.9	18.7	0.0	0.1	1011	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/01/21	30	0.0	2.0	18.4	0.0	0.1	1011	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/01/21	60	0.0	2.0	18.3	0.0	0.1	1011	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/01/21	90	0.0	2.0	18.2	0.0	0.1	1011	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/01/21	120	0.0	2.0	18.2	0.0	0.1	1011	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/01/21	180	0.0	2.0	18.2	0.0	0.1	1011	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/01/21	0	0.0	0.0	20.3	0.0	0.5	1012	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/01/21	10	0.0	0.4	20.3	0.0	0.5	1012	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/01/21	20	0.0	0.9	19.9	0.0	0.5	1012	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/01/21	30	0.0	1.2	19.3	0.0	0.5	1012	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/01/21	60	0.0	1.4	19.0	0.0	0.5	1012	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/01/21	90	0.0	1.4	19.0	0.0	0.5	1012	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/01/21	120	0.0	1.5	18.9	0.0	0.5	1012	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/01/21	180	0.0	1.7	18.8	0.0	0.5	1012	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/02/21	0	0.0	0.0	18.2	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/02/21	10	0.0	1.6	18.2	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/02/21	20	0.0	1.6	18.2	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/02/21	30	0.0	1.6	18.2	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/02/21	60	0.0	1.6	18.2	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/02/21	90	0.0	1.9	16.9	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/02/21	120	0.0	1.9	16.9	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	04/02/21	180	0.0	1.9	16.9	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/02/21	0	0.0	0.0	18.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/02/21	10	0.0	2.1	18.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/02/21	20	0.0	2.1	18.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/02/21	30	0.0	2.1	18.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/02/21	60	0.0	2.1	18.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/02/21	90	0.0	2.1	18.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/02/21	120	0.0	2.1	18.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	04/02/21	180	0.0	2.1	18.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/02/21	0	0.0	0.0	19.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/02/21	10	0.0	1.8	19.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/02/21	20	0.0	1.8	19.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/02/21	30	0.0	1.8	19.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/02/21	60	0.0	1.8	19.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/02/21	90	0.0	1.8	19.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/02/21	120	0.0	1.8	19.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	04/02/21	180	0.0	1.8	19.6	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/02/21	0	0.0	0.0	18.5	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/02/21	10	0.0	1.6	18.5	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/02/21	20		1.6	18.5	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN

Project: Wensley Road, Reading
Ref: GE18760
Client: Reading Borough Council c/o WFBA



Location	Date	Time (sec)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	Flow (l/hr)	VOC (ppm)	Pressure (mb)	GWL (m bgl)	GSV/Qhgs		Characteristic Situation		CS1 Limiting Value Check			NHBC			
										CH ₄	CO ₂	BS8485 & C665		Flow	CH ₄	CO ₂	CH ₄		CO ₂	
												CH ₄	CO ₂				GSV	Conc.	GSV	Conc.
WS06	04/02/21	30	0.0	1.6	18.5	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/02/21	60	0.0	1.6	18.5	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/02/21	90	0.0	1.6	18.5	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/02/21	120	0.0	1.7	18.5	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	04/02/21	180	0.0	1.6	18.5	0.0		1003	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/03/21	0	0.0	0.0	20.3	0.0	1.6	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/03/21	10	0.0	1.4	19.9	0.0	1.6	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/03/21	20	0.0	1.7	18.5	0.0	1.6	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/03/21	30	0.0	1.7	17.8	0.0	1.6	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/03/21	60	0.0	1.7	17.2	0.0	1.6	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/03/21	90	0.0	1.7	17.2	0.0	1.6	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/03/21	120	0.0	1.7	17.2	0.0	1.6	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS01	08/03/21	180	0.0	1.7	17.1	0.0	1.6	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	08/03/21	0	0.0	0.0	20.4	0.0	1.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	08/03/21	10	0.0	2.0	20.0	0.0	1.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	08/03/21	20	0.0	2.4	18.9	0.0	1.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	08/03/21	30	0.0	2.5	18.3	0.0	1.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	08/03/21	60	0.0	2.5	17.9	0.0	1.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	08/03/21	90	0.0	2.5	17.8	0.0	1.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	08/03/21	120	0.0	2.5	17.8	0.0	1.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS02	08/03/21	180	0.0	2.5	17.8	0.0	1.0	1015	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/03/21	0								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/03/21	10								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/03/21	20								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/03/21	30								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/03/21	60								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/03/21	90								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/03/21	120								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS05	08/03/21	180								0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	08/03/21	0	0.0	0.0	20.5	0.0	1.1	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	08/03/21	10	0.0	3.9	19.2	0.0	1.1	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	08/03/21	20	0.0	4.7	16.9	0.0	1.1	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	08/03/21	30	0.0	4.8	15.8	0.0	1.1	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	08/03/21	60	0.0	4.9	14.9	0.0	1.1	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	08/03/21	90	0.0	4.9	14.8	0.0	1.1	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	08/03/21	120	0.0	4.9	14.7	0.0	1.1	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
WS06	08/03/21	180	0.0	5.0	14.7	0.0	1.1	1016	Dry	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	AMBER 1
Max values			0.0	6.7	20.9	0.0	1.6	1019.0	0.0	0.000	0.000	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1
Min Vaules			0.0	0.0	13.9	0.0	0.0	972.0	0.0	0.000	0.000	CS1	CS1	NO	NO	NO	GREEN	GREEN	GREEN	GREEN
BH Flow LoD check			0.0	6.7	20.9	0.1	-	-	-	0.000	0.007	CS1	CS1	NO	NO	CO2>CS1 limit	GREEN	GREEN	GREEN	AMBER 1

The background of the page features a decorative design of four horizontal, wavy blue bands. These bands are separated by white space and have a slight gradient, giving them a three-dimensional appearance. The bands are positioned on the right side of the page, with the top band starting near the top right and the bottom band near the bottom right.

APPENDIX G

Soakage Testing Results



Soakaway Test Results (after BRE Digest 365)

Geo-Environmental Services Limited

Unit 7 Danworth Farm, Cuckfield Road,
Hurstpierpoint, West Sussex BN6 9GL
+44(0)1273 832972 www.gesl.net

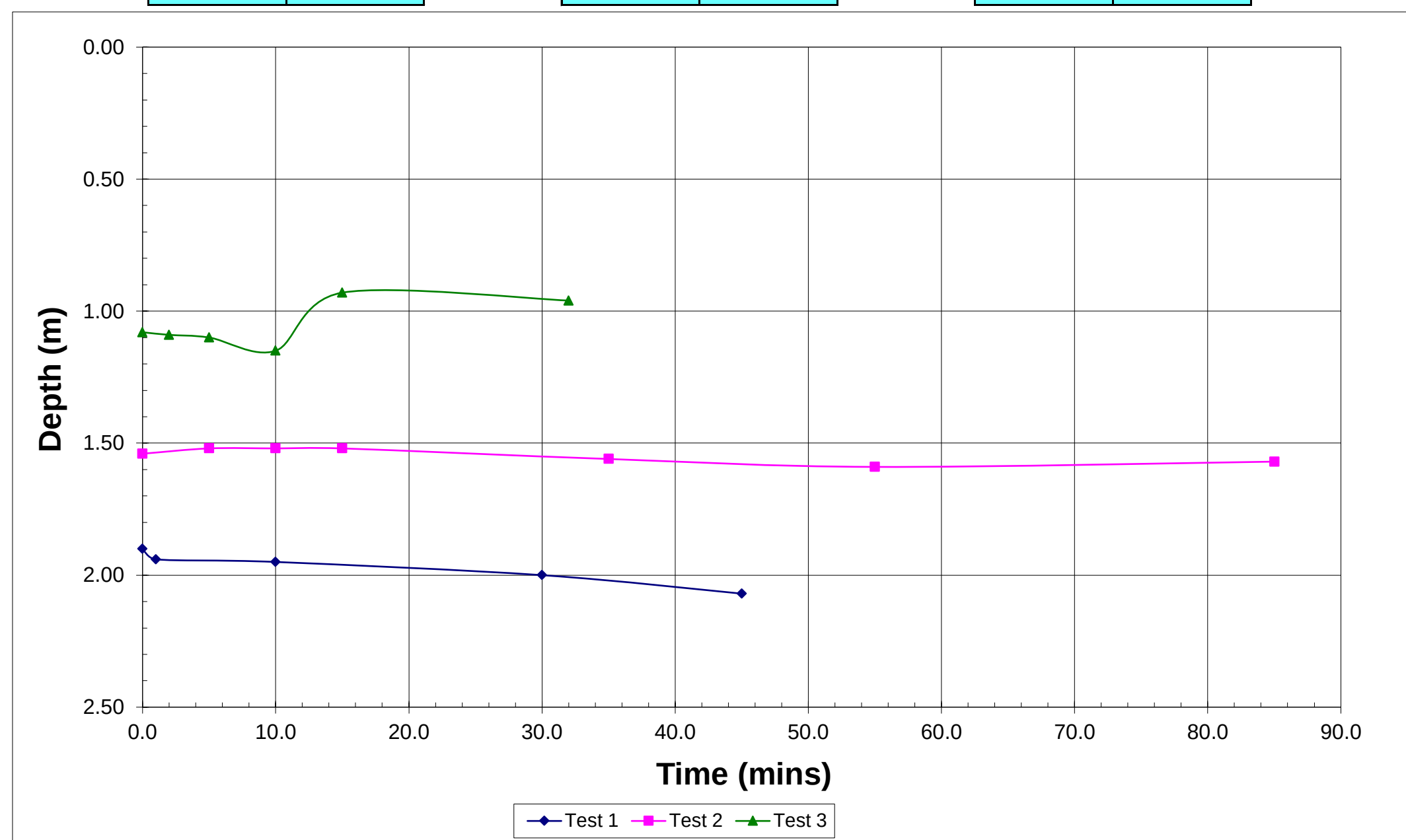
Project Name : Wensley Road, Reading

Client : Reading Borough Council

Job No. : GE18760

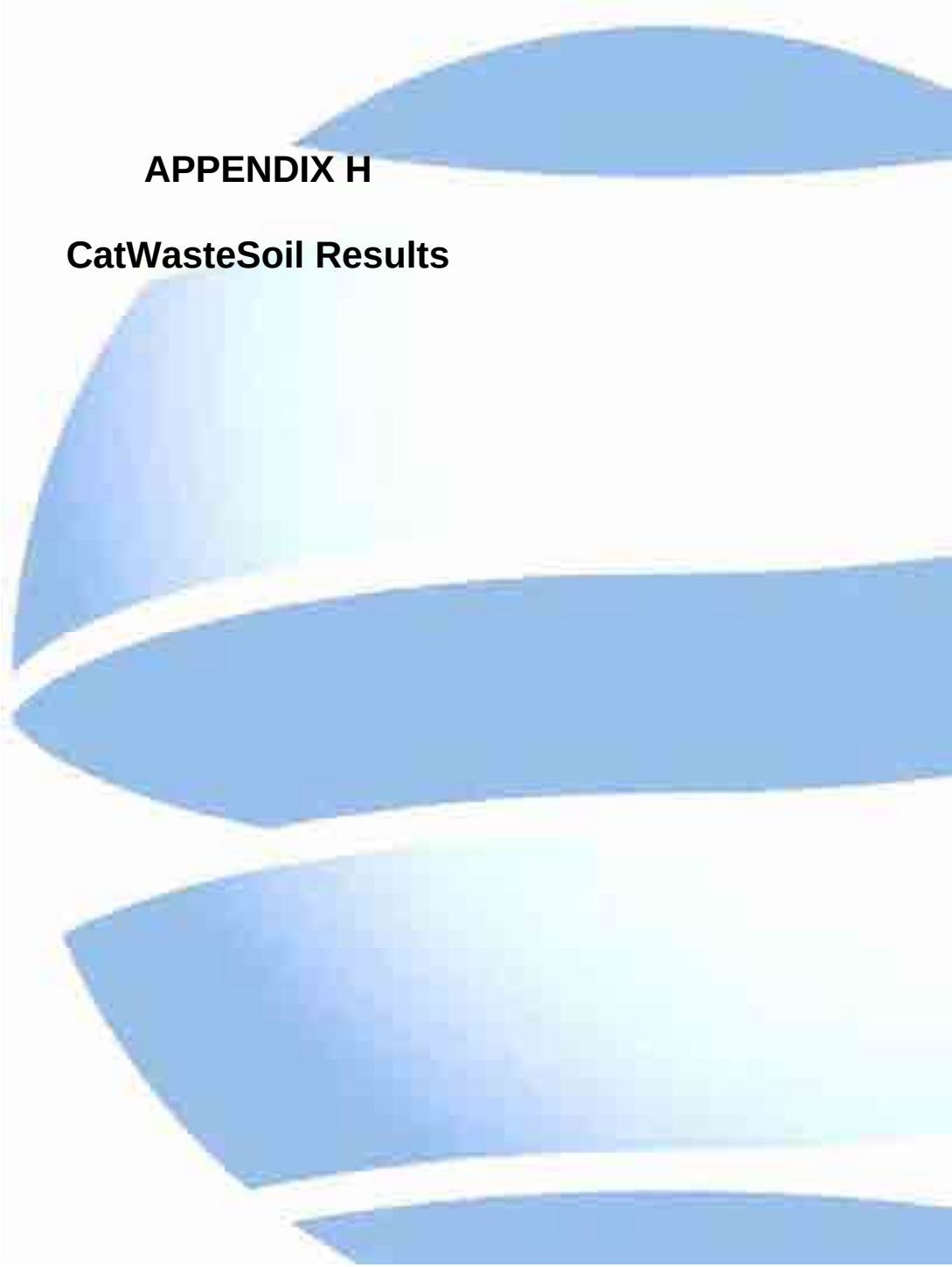
Date : 25/02/2020

Pit reference	TP03
Pit depth (m)	3.00
Pit width (m)	0.45
Pit length (m)	1.90
Depth to standing water (m)	

[illegible][illegible][illegible]

Max. depth (m)	3.00	3.00	3.00
Effective depth (m)	1.10	1.46	1.92
75% effective depth (m)	2.18	1.91	1.56
50% effective depth (m)	2.45	2.27	2.04
25% effective depth (m)	2.73	2.64	2.52
t75 (min)			
t50 (min)			
t25 (min)			
Vp 75-25	0.47	0.62	0.82
ap 50	3.44	4.286	5.367
tp 75-25	0.00	0.00	0.00

Soil infiltration rate (m/s)	Incomplete drainage cycle	Incomplete drainage cycle	Incomplete drainage cycle
Soil infiltration rate (mm/hr)	Incomplete drainage cycle	Incomplete drainage cycle	Incomplete drainage cycle



APPENDIX H

CatWasteSoil Results

Site Name	Wensley Road, Reading
Location	Berkshire, RG1 6DR
Site ID	GE18760
Job Number	GE18760
Date	3/25/2020
User Name	laura.legate@gesl.net
Company Name	Geo-Environmental Services Limited

Hole ID	Sample Depth	Hazardous Waste Y/N	HP1	HP2	HP3	HP4	HP5	HP6	HP7	HP8	HP9	HP10	HP11	HP12	HP13	HP14	HP15	HP16
WS04	0.90	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS05	0.50	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP05	0.40	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS01	1.40	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP01	0.30	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP03	0.20	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP06	0.70	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP08	0.20	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS01	0.50	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS02	0.30	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS03	0.50	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS04	0.40	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS06	0.90	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP02	0.20	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

Site Name	Wensley Road, Reading
Location	Berkshire, RG1 6DR
Site ID	GE18760
Job Number	GE18760
Date	3/25/2020
User Name	laura.legate@gesl.net
Company Name	Geo-Environmental Services Limited

Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
WS04	0.90	pH	0.00000	N				
WS04	0.90	Benzene	0.00000	N				H225 test
WS04	0.90	Toluene	0.00000	N				H225 test
WS04	0.90	Ethylbenzene	0.00000	N				H225 test
WS04	0.90	m,p-xylene	0.00000	N				H226 test
WS04	0.90	o-xylene	0.00000	N				H226 test
WS04	0.90	Naphthalene	0.00001	N				H228 test
WS04	0.90	Acenaphthylene	0.00001	N				
WS04	0.90	Acenaphthene	0.00001	N				
WS04	0.90	Fluorene	0.00001	N				
WS04	0.90	Phenanthrene	0.00001	N				
WS04	0.90	Anthracene	0.00001	N				
WS04	0.90	Fluoranthene	0.00001	N				
WS04	0.90	Pyrene	0.00001	N				
WS04	0.90	Benzo(a)anthracene	0.00001	N				
WS04	0.90	Chrysene	0.00001	N				
WS04	0.90	Benzo(b)fluoranthene	0.00001	N				
WS04	0.90	Benzo(k)fluoranthene	0.00001	N				
WS04	0.90	Benzo(a)pyrene	0.00001	N				
WS04	0.90	Indeno(1,2,3-cd)pyrene	0.00001	N				
WS04	0.90	Di-benz(a,h)anthracene	0.00001	N				
WS04	0.90	Benzo(g,h,i)perylene	0.00001	N				
WS04	0.90	Methyl-tert-butyl ether	0.00000	N				H225 test
WS04	0.90	hydrocarbon/oil with marker	0.00100	N				H225 test
WS04	0.90	Arsenic	0.00086	N				
WS04	0.90	Boron	0.00069	N				
WS04	0.90	Cadmium	0.00004	N				
WS04	0.90	Hexavalent Chromium	0.00040	N				
WS04	0.90	Chromium (Total)	0.00190	N				
WS04	0.90	Copper	0.00477	N				
WS04	0.90	Lead	0.00270	N				
WS04	0.90	Mercury	0.00003	N				
WS04	0.90	Nickel	0.00448	N				
WS04	0.90	Selenium	0.00038	N				
WS04	0.90	Zinc	0.00000	N				
WS04	0.90	Zincx	0.00963	N				
WS04	0.90	Vanadium	0.00500	N				
WS04	0.90	Free Cyanide	0.00010	N				H224 test
WS05	0.50	pH	0.00000	N				
WS05	0.50	Benzene	0.00000	N				H225 test
WS05	0.50	Toluene	0.00000	N				H225 test
WS05	0.50	Ethylbenzene	0.00000	N				H225 test
WS05	0.50	m,p-xylene	0.00000	N				H226 test
WS05	0.50	o-xylene	0.00000	N				H226 test
WS05	0.50	Naphthalene	0.00001	N				H228 test
WS05	0.50	Acenaphthylene	0.00001	N				
WS05	0.50	Acenaphthene	0.00001	N				

Site Name	Wensley Road, Reading
Location	Berkshire, RG1 6DR
Site ID	GE18760
Job Number	GE18760
Date	3/25/2020
User Name	laura.legate@gesl.net
Company Name	Geo-Environmental Services Limited

Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
WS05	0.50	Fluorene	0.00001	N				
WS05	0.50	Phenanthrene	0.00001	N				
WS05	0.50	Anthracene	0.00001	N				
WS05	0.50	Fluoranthene	0.00001	N				
WS05	0.50	Pyrene	0.00001	N				
WS05	0.50	Benzo(a)anthracene	0.00001	N				
WS05	0.50	Chrysene	0.00001	N				
WS05	0.50	Benzo(b)fluoranthene	0.00001	N				
WS05	0.50	Benzo(k)fluoranthene	0.00001	N				
WS05	0.50	Benzo(a)pyrene	0.00001	N				
WS05	0.50	Indeno(1,2,3-cd)pyrene	0.00001	N				
WS05	0.50	Di-benz(a,h)anthracene	0.00001	N				
WS05	0.50	Benzo(g,h,i)perylene	0.00001	N				
WS05	0.50	Methyl-tert-butyl ether	0.00000	N				H225 test
WS05	0.50	hydrocarbon/oil with marker	0.00100	N				H225 test
WS05	0.50	Arsenic	0.00121	N				
WS05	0.50	Boron	0.00093	N				
WS05	0.50	Cadmium	0.00004	N				
WS05	0.50	Hexavalent Chromium	0.00040	N				
WS05	0.50	Chromium (Total)	0.00175	N				
WS05	0.50	Copper	0.00377	N				
WS05	0.50	Lead	0.00160	N				
WS05	0.50	Mercury	0.00003	N				
WS05	0.50	Nickel	0.00395	N				
WS05	0.50	Selenium	0.00038	N				
WS05	0.50	Zinc	0.00000	N				
WS05	0.50	Zincx	0.01012	N				
WS05	0.50	Vanadium	0.00482	N				
WS05	0.50	Free Cyanide	0.00010	N				H224 test
TP05	0.40	pH	0.00000	N				
TP05	0.40	Benzene	0.00000	N				H225 test
TP05	0.40	Toluene	0.00000	N				H225 test
TP05	0.40	Ethylbenzene	0.00000	N				H225 test
TP05	0.40	m,p-xylene	0.00000	N				H226 test
TP05	0.40	o-xylene	0.00000	N				H226 test
TP05	0.40	Naphthalene	0.00001	N				H228 test
TP05	0.40	Acenaphthylene	0.00001	N				
TP05	0.40	Acenaphthene	0.00001	N				
TP05	0.40	Fluorene	0.00001	N				
TP05	0.40	Phenanthrene	0.00001	N				
TP05	0.40	Anthracene	0.00001	N				
TP05	0.40	Fluoranthene	0.00001	N				
TP05	0.40	Pyrene	0.00001	N				
TP05	0.40	Benzo(a)anthracene	0.00001	N				
TP05	0.40	Chrysene	0.00001	N				
TP05	0.40	Benzo(b)fluoranthene	0.00001	N				
TP05	0.40	Benzo(k)fluoranthene	0.00001	N				

Site Name	Wensley Road, Reading
Location	Berkshire, RG1 6DR
Site ID	GE18760
Job Number	GE18760
Date	3/25/2020
User Name	laura.legate@gesl.net
Company Name	Geo-Environmental Services Limited

Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
TP05	0.40	Benzo(a)pyrene	0.00001	N				
TP05	0.40	Indeno(1,2,3-cd)pyrene	0.00001	N				
TP05	0.40	Di-benz(a,h)anthracene	0.00001	N				
TP05	0.40	Benzo(g,h,i)perylene	0.00001	N				
TP05	0.40	Methyl-tert-butyl ether	0.00000	N				H225 test
TP05	0.40	hydrocarbon/oil with marker	0.00100	N				H225 test
TP05	0.40	Arsenic	0.00101	N				
TP05	0.40	Boron	0.00069	N				
TP05	0.40	Cadmium	0.00004	N				
TP05	0.40	Hexavalent Chromium	0.00040	N				
TP05	0.40	Chromium (Total)	0.00117	N				
TP05	0.40	Copper	0.00206	N				
TP05	0.40	Lead	0.00150	N				
TP05	0.40	Mercury	0.00003	N				
TP05	0.40	Nickel	0.00290	N				
TP05	0.40	Selenium	0.00038	N				
TP05	0.40	Zinc	0.00000	N				
TP05	0.40	Zincx	0.00790	N				
TP05	0.40	Vanadium	0.00357	N				
TP05	0.40	Free Cyanide	0.00010	N				H224 test
WS01	1.40	pH	0.00000	N				
WS01	1.40	Benzene	0.00000	N				H225 test
WS01	1.40	Toluene	0.00000	N				H225 test
WS01	1.40	Ethylbenzene	0.00000	N				H225 test
WS01	1.40	m,p-xylene	0.00000	N				H226 test
WS01	1.40	o-xylene	0.00000	N				H226 test
WS01	1.40	Naphthalene	0.00001	N				H228 test
WS01	1.40	Acenaphthylene	0.00001	N				
WS01	1.40	Acenaphthene	0.00001	N				
WS01	1.40	Fluorene	0.00001	N				
WS01	1.40	Phenanthrene	0.00001	N				
WS01	1.40	Anthracene	0.00001	N				
WS01	1.40	Fluoranthene	0.00001	N				
WS01	1.40	Pyrene	0.00001	N				
WS01	1.40	Benzo(a)anthracene	0.00001	N				
WS01	1.40	Chrysene	0.00001	N				
WS01	1.40	Benzo(b)fluoranthene	0.00001	N				
WS01	1.40	Benzo(k)fluoranthene	0.00001	N				
WS01	1.40	Benzo(a)pyrene	0.00001	N				
WS01	1.40	Indeno(1,2,3-cd)pyrene	0.00001	N				
WS01	1.40	Di-benz(a,h)anthracene	0.00001	N				
WS01	1.40	Benzo(g,h,i)perylene	0.00001	N				
WS01	1.40	Methyl-tert-butyl ether	0.00000	N				H225 test
WS01	1.40	hydrocarbon/oil with marker	0.00100	N				H225 test
WS01	1.40	Arsenic	0.00146	N				
WS01	1.40	Boron	0.00093	N				
WS01	1.40	Cadmium	0.00004	N				

Site Name	Wensley Road, Reading
Location	Berkshire, RG1 6DR
Site ID	GE18760
Job Number	GE18760
Date	3/25/2020
User Name	laura.legate@gesl.net
Company Name	Geo-Environmental Services Limited

Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
WS01	1.40	Hexavalent Chromium	0.00040	N				
WS01	1.40	Chromium (Total)	0.00234	N				
WS01	1.40	Copper	0.00196	N				
WS01	1.40	Lead	0.00000	N				
WS01	1.40	Leadx	0.00990	N				
WS01	1.40	Mercury	0.00003	N				
WS01	1.40	Nickel	0.00316	N				
WS01	1.40	Selenium	0.00038	N				
WS01	1.40	Zinc	0.00000	N				
WS01	1.40	Zincx	0.00741	N				
WS01	1.40	Vanadium	0.00607	N				
WS01	1.40	Free Cyanide	0.00010	N				H224 test
TP01	0.30	pH	0.00000	N				
TP01	0.30	Benzene	0.00000	N				H225 test
TP01	0.30	Toluene	0.00000	N				H225 test
TP01	0.30	Ethylbenzene	0.00000	N				H225 test
TP01	0.30	m,p-xylene	0.00000	N				H226 test
TP01	0.30	o-xylene	0.00000	N				H226 test
TP01	0.30	Naphthalene	0.00001	N				H228 test
TP01	0.30	Acenaphthylene	0.00001	N				
TP01	0.30	Acenaphthene	0.00001	N				
TP01	0.30	Fluorene	0.00001	N				
TP01	0.30	Phenanthrene	0.00001	N				
TP01	0.30	Anthracene	0.00001	N				
TP01	0.30	Fluoranthene	0.00002	N				
TP01	0.30	Pyrene	0.00002	N				
TP01	0.30	Benzo(a)anthracene	0.00002	N				
TP01	0.30	Chrysene	0.00002	N				
TP01	0.30	Benzo(b)fluoranthene	0.00002	N				
TP01	0.30	Benzo(k)fluoranthene	0.00001	N				
TP01	0.30	Benzo(a)pyrene	0.00001	N				
TP01	0.30	Indeno(1,2,3-cd)pyrene	0.00001	N				
TP01	0.30	Di-benz(a,h)anthracene	0.00001	N				
TP01	0.30	Benzo(g,h,i)perylene	0.00001	N				
TP01	0.30	2 - chlorophenol	0.00001	N				
TP01	0.30	Vinyl chloride	0.00000	N				H220 test
TP01	0.30	Cis-1,2-dichloroethene	0.00000	N				H225 test
TP01	0.30	Trans -1, 2-dichloroethene	0.00000	N				H225 test
TP01	0.30	1,1,1,2-tetrachloroethane	0.00000	N				
TP01	0.30	1,1,2,2-tetrachloroethane	0.00000	N				
TP01	0.30	Hexachlorobutadiene	0.00000	N				
TP01	0.30	Trichloroethene	0.00000	N				
TP01	0.30	chlorobenzene	0.00000	N				H226 test
TP01	0.30	1,2 - dichlorobenzene	0.00000	N				
TP01	0.30	1,3 - dichlorobenzene	0.00000	N				
TP01	0.30	1,4 - dichlorobenzene	0.00000	N				
TP01	0.30	1,2,3 - trichlorobenzene	0.00000	N				

Site Name	Wensley Road, Reading
Location	Berkshire, RG1 6DR
Site ID	GE18760
Job Number	GE18760
Date	3/25/2020
User Name	laura.legate@gesl.net
Company Name	Geo-Environmental Services Limited

Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
TP01	0.30	1,2,4 - trichlorobenzene	0.00000	N				
TP01	0.30	1,2,4 - trimethylbenzene	0.00000	N				H226 test
TP01	0.30	1,3,5 - trimethylbenzene	0.00000	N				H226 test
TP01	0.30	Aniline	0.00001	N				
TP01	0.30	Phenol	0.00002	N				
TP01	0.30	2,4 - dichlorophenol	0.00003	N				
TP01	0.30	2,4,6 - trichlorophenol	0.00001	N				
TP01	0.30	Methyl-tert-butyl ether	0.00000	N				H225 test
TP01	0.30	hydrocarbon/oil with marker	0.00100	N				H225 test
TP01	0.30	Arsenic	0.00169	N				
TP01	0.30	Boron	0.00185	N				
TP01	0.30	Cadmium	0.00004	N				
TP01	0.30	Hexavalent Chromium	0.00040	N				
TP01	0.30	Chromium (Total)	0.00175	N				
TP01	0.30	Copper	0.00377	N				
TP01	0.30	Lead	0.00490	N				
TP01	0.30	Mercury	0.00003	N				
TP01	0.30	Nickel	0.00395	N				
TP01	0.30	Selenium	0.00038	N				
TP01	0.30	Zinc	0.00000	N				
TP01	0.30	Zincx	0.01679	N				
TP01	0.30	Vanadium	0.00464	N				
TP01	0.30	Free Cyanide	0.00010	N				H224 test
TP03	0.20	pH	0.00000	N				
TP03	0.20	Benzene	0.00000	N				H225 test
TP03	0.20	Toluene	0.00000	N				H225 test
TP03	0.20	Ethylbenzene	0.00000	N				H225 test
TP03	0.20	m,p-xylene	0.00000	N				H226 test
TP03	0.20	o-xylene	0.00000	N				H226 test
TP03	0.20	Naphthalene	0.00001	N				H228 test
TP03	0.20	Acenaphthylene	0.00001	N				
TP03	0.20	Acenaphthene	0.00001	N				
TP03	0.20	Fluorene	0.00001	N				
TP03	0.20	Phenanthrene	0.00001	N				
TP03	0.20	Anthracene	0.00001	N				
TP03	0.20	Fluoranthene	0.00001	N				
TP03	0.20	Pyrene	0.00001	N				
TP03	0.20	Benzo(a)anthracene	0.00001	N				
TP03	0.20	Chrysene	0.00001	N				
TP03	0.20	Benzo(b)fluoranthene	0.00001	N				
TP03	0.20	Benzo(k)fluoranthene	0.00001	N				
TP03	0.20	Benzo(a)pyrene	0.00001	N				
TP03	0.20	Indeno(1,2,3-cd)pyrene	0.00001	N				
TP03	0.20	Di-benz(a,h)anthracene	0.00001	N				
TP03	0.20	Benzo(g,h,i)perylene	0.00001	N				
TP03	0.20	Methyl-tert-butyl ether	0.00000	N				H225 test
TP03	0.20	hydrocarbon/oil with marker	0.00100	N				H225 test

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Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
TP03	0.20	Arsenic	0.00138	N				
TP03	0.20	Boron	0.00093	N				
TP03	0.20	Cadmium	0.00004	N				
TP03	0.20	Hexavalent Chromium	0.00040	N				
TP03	0.20	Chromium (Total)	0.00146	N				
TP03	0.20	Copper	0.00352	N				
TP03	0.20	Lead	0.00390	N				
TP03	0.20	Mercury	0.00003	N				
TP03	0.20	Nickel	0.00343	N				
TP03	0.20	Selenium	0.00038	N				
TP03	0.20	Zinc	0.00000	N				
TP03	0.20	Zincx	0.01136	N				
TP03	0.20	Vanadium	0.00464	N				
TP03	0.20	Free Cyanide	0.00010	N				H224 test
TP06	0.70	pH	0.00000	N				
TP06	0.70	Benzene	0.00000	N				H225 test
TP06	0.70	Toluene	0.00000	N				H225 test
TP06	0.70	Ethylbenzene	0.00000	N				H225 test
TP06	0.70	m,p-xylene	0.00000	N				H226 test
TP06	0.70	o-xylene	0.00000	N				H226 test
TP06	0.70	Naphthalene	0.00001	N				H228 test
TP06	0.70	Acenaphthylene	0.00001	N				
TP06	0.70	Acenaphthene	0.00001	N				
TP06	0.70	Fluorene	0.00001	N				
TP06	0.70	Phenanthrene	0.00001	N				
TP06	0.70	Anthracene	0.00001	N				
TP06	0.70	Fluoranthene	0.00001	N				
TP06	0.70	Pyrene	0.00001	N				
TP06	0.70	Benzo(a)anthracene	0.00001	N				
TP06	0.70	Chrysene	0.00001	N				
TP06	0.70	Benzo(b)fluoranthene	0.00001	N				
TP06	0.70	Benzo(k)fluoranthene	0.00001	N				
TP06	0.70	Benzo(a)pyrene	0.00001	N				
TP06	0.70	Indeno(1,2,3-cd)pyrene	0.00001	N				
TP06	0.70	Di-benz(a,h)anthracene	0.00001	N				
TP06	0.70	Benzo(g,h,i)perylene	0.00001	N				
TP06	0.70	Methyl-tert-butyl ether	0.00000	N				H225 test
TP06	0.70	hydrocarbon/oil with marker	0.00100	N				H225 test
TP06	0.70	Arsenic	0.00048	N				
TP06	0.70	Boron	0.00116	N				
TP06	0.70	Cadmium	0.00004	N				
TP06	0.70	Hexavalent Chromium	0.00040	N				
TP06	0.70	Chromium (Total)	0.00023	N				
TP06	0.70	Copper	0.00126	N				
TP06	0.70	Lead	0.00120	N				
TP06	0.70	Mercury	0.00003	N				
TP06	0.70	Nickel	0.00142	N				

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Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
TP06	0.70	Selenium	0.00038	N				
TP06	0.70	Zinc	0.00000	N				
TP06	0.70	Zincx	0.00469	N				
TP06	0.70	Vanadium	0.00173	N				
TP06	0.70	Free Cyanide	0.00010	N				H224 test
TP08	0.20	pH	0.00000	N				
TP08	0.20	Benzene	0.00000	N				H225 test
TP08	0.20	Toluene	0.00000	N				H225 test
TP08	0.20	Ethylbenzene	0.00000	N				H225 test
TP08	0.20	m,p-xylene	0.00000	N				H226 test
TP08	0.20	o-xylene	0.00000	N				H226 test
TP08	0.20	Naphthalene	0.00001	N				H228 test
TP08	0.20	Acenaphthylene	0.00001	N				
TP08	0.20	Acenaphthene	0.00001	N				
TP08	0.20	Fluorene	0.00001	N				
TP08	0.20	Phenanthrene	0.00004	N				
TP08	0.20	Anthracene	0.00001	N				
TP08	0.20	Fluoranthene	0.00005	N				
TP08	0.20	Pyrene	0.00005	N				
TP08	0.20	Benzo(a)anthracene	0.00003	N				
TP08	0.20	Chrysene	0.00004	N				
TP08	0.20	Benzo(b)fluoranthene	0.00005	N				
TP08	0.20	Benzo(k)fluoranthene	0.00001	N				
TP08	0.20	Benzo(a)pyrene	0.00003	N				
TP08	0.20	Indeno(1,2,3-cd)pyrene	0.00002	N				
TP08	0.20	Di-benz(a,h)anthracene	0.00001	N				
TP08	0.20	Benzo(g,h,i)perylene	0.00002	N				
TP08	0.20	Methyl-tert-butyl ether	0.00000	N				H225 test
TP08	0.20	hydrocarbon/oil with marker	0.00100	N				H225 test
TP08	0.20	Arsenic	0.00091	N				
TP08	0.20	Boron	0.00069	N				
TP08	0.20	Cadmium	0.00004	N				
TP08	0.20	Hexavalent Chromium	0.00040	N				
TP08	0.20	Chromium (Total)	0.00102	N				
TP08	0.20	Copper	0.00327	N				
TP08	0.20	Lead	0.00340	N				
TP08	0.20	Mercury	0.00003	N				
TP08	0.20	Nickel	0.00264	N				
TP08	0.20	Selenium	0.00038	N				
TP08	0.20	Zinc	0.00000	N				
TP08	0.20	Zincx	0.01630	N				
TP08	0.20	Vanadium	0.00321	N				
TP08	0.20	Free Cyanide	0.00010	N				H224 test
WS01	0.50	pH	0.00000	N				
WS01	0.50	Benzene	0.00000	N				H225 test
WS01	0.50	Toluene	0.00000	N				H225 test
WS01	0.50	Ethylbenzene	0.00000	N				H225 test

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Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
WS01	0.50	m,p-xylene	0.00000	N				H226 test
WS01	0.50	o-xylene	0.00000	N				H226 test
WS01	0.50	Naphthalene	0.00005	N				H228 test
WS01	0.50	Acenaphthylene	0.00001	N				
WS01	0.50	Acenaphthene	0.00001	N				
WS01	0.50	Fluorene	0.00001	N				
WS01	0.50	Phenanthrene	0.00009	N				
WS01	0.50	Anthracene	0.00001	N				
WS01	0.50	Fluoranthene	0.00009	N				
WS01	0.50	Pyrene	0.00008	N				
WS01	0.50	Benzo(a)anthracene	0.00004	N				
WS01	0.50	Chrysene	0.00004	N				
WS01	0.50	Benzo(b)fluoranthene	0.00004	N				
WS01	0.50	Benzo(k)fluoranthene	0.00001	N				
WS01	0.50	Benzo(a)pyrene	0.00003	N				
WS01	0.50	Indeno(1,2,3-cd)pyrene	0.00001	N				
WS01	0.50	Di-benz(a,h)anthracene	0.00001	N				
WS01	0.50	Benzo(g,h,i)perylene	0.00001	N				
WS01	0.50	Methyl-tert-butyl ether	0.00000	N				H225 test
WS01	0.50	Petrol	0.00001	N				
WS01	0.50	Diesel	0.00310	N				
WS01	0.50	hydrocarbon/oil with marker	0.00670	N				H225 test
WS01	0.50	Arsenic	0.00149	N				
WS01	0.50	Boron	0.00324	N				
WS01	0.50	Cadmium	0.00004	N				
WS01	0.50	Hexavalent Chromium	0.00040	N				
WS01	0.50	Chromium (Total)	0.00395	N				
WS01	0.50	Copper	0.00377	N				
WS01	0.50	Lead	0.00210	N				
WS01	0.50	Mercury	0.00003	N				
WS01	0.50	Nickel	0.01107	N				
WS01	0.50	Selenium	0.00038	N				
WS01	0.50	Zinc	0.00000	N				
WS01	0.50	Zincx	0.01481	N				
WS01	0.50	Vanadium	0.00714	N				
WS01	0.50	Free Cyanide	0.00010	N				H224 test
WS02	0.30	pH	0.00000	N				
WS02	0.30	Benzene	0.00000	N				H225 test
WS02	0.30	Toluene	0.00000	N				H225 test
WS02	0.30	Ethylbenzene	0.00000	N				H225 test
WS02	0.30	m,p-xylene	0.00000	N				H226 test
WS02	0.30	o-xylene	0.00000	N				H226 test
WS02	0.30	Naphthalene	0.00001	N				H228 test
WS02	0.30	Acenaphthylene	0.00001	N				
WS02	0.30	Acenaphthene	0.00001	N				
WS02	0.30	Fluorene	0.00001	N				
WS02	0.30	Phenanthrene	0.00001	N				

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Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
WS02	0.30	Anthracene	0.00001	N				
WS02	0.30	Fluoranthene	0.00001	N				
WS02	0.30	Pyrene	0.00001	N				
WS02	0.30	Benzo(a)anthracene	0.00001	N				
WS02	0.30	Chrysene	0.00001	N				
WS02	0.30	Benzo(b)fluoranthene	0.00001	N				
WS02	0.30	Benzo(k)fluoranthene	0.00001	N				
WS02	0.30	Benzo(a)pyrene	0.00001	N				
WS02	0.30	Indeno(1,2,3-cd)pyrene	0.00001	N				
WS02	0.30	Di-benz(a,h)anthracene	0.00001	N				
WS02	0.30	Benzo(g,h,i)perylene	0.00001	N				
WS02	0.30	Methyl-tert-butyl ether	0.00000	N				H225 test
WS02	0.30	hydrocarbon/oil with marker	0.00100	N				H225 test
WS02	0.30	Arsenic	0.00130	N				
WS02	0.30	Boron	0.00116	N				
WS02	0.30	Cadmium	0.00004	N				
WS02	0.30	Hexavalent Chromium	0.00040	N				
WS02	0.30	Chromium (Total)	0.00146	N				
WS02	0.30	Copper	0.00854	N				
WS02	0.30	Lead	0.00400	N				
WS02	0.30	Mercury	0.00003	N				
WS02	0.30	Nickel	0.00343	N				
WS02	0.30	Selenium	0.00038	N				
WS02	0.30	Zinc	0.00000	N				
WS02	0.30	Zinc	0.01185	N				
WS02	0.30	Vanadium	0.00411	N				
WS02	0.30	Free Cyanide	0.00010	N				H224 test
WS03	0.50	pH	0.00000	N				
WS03	0.50	Benzene	0.00000	N				H225 test
WS03	0.50	Toluene	0.00000	N				H225 test
WS03	0.50	Ethylbenzene	0.00000	N				H225 test
WS03	0.50	m,p-xylene	0.00000	N				H226 test
WS03	0.50	o-xylene	0.00000	N				H226 test
WS03	0.50	Naphthalene	0.00001	N				H228 test
WS03	0.50	Acenaphthylene	0.00001	N				
WS03	0.50	Acenaphthene	0.00001	N				
WS03	0.50	Fluorene	0.00001	N				
WS03	0.50	Phenanthrene	0.00001	N				
WS03	0.50	Anthracene	0.00001	N				
WS03	0.50	Fluoranthene	0.00001	N				
WS03	0.50	Pyrene	0.00001	N				
WS03	0.50	Benzo(a)anthracene	0.00001	N				
WS03	0.50	Chrysene	0.00001	N				
WS03	0.50	Benzo(b)fluoranthene	0.00001	N				
WS03	0.50	Benzo(k)fluoranthene	0.00001	N				
WS03	0.50	Benzo(a)pyrene	0.00001	N				
WS03	0.50	Indeno(1,2,3-cd)pyrene	0.00001	N				

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Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
WS03	0.50	Di-benz(a,h.)anthracene	0.00001	N				
WS03	0.50	Benzo(g,h,i)perylene	0.00001	N				
WS03	0.50	Methyl-tert-butyl ether	0.00000	N				H225 test
WS03	0.50	hydrocarbon/oil with marker	0.00100	N				H225 test
WS03	0.50	Arsenic	0.00141	N				
WS03	0.50	Boron	0.00139	N				
WS03	0.50	Cadmium	0.00004	N				
WS03	0.50	Hexavalent Chromium	0.00040	N				
WS03	0.50	Chromium (Total)	0.00161	N				
WS03	0.50	Copper	0.00427	N				
WS03	0.50	Lead	0.00380	N				
WS03	0.50	Mercury	0.00003	N				
WS03	0.50	Nickel	0.00343	N				
WS03	0.50	Selenium	0.00075	N				
WS03	0.50	Zinc	0.00000	N				
WS03	0.50	Zincx	0.01136	N				
WS03	0.50	Vanadium	0.00464	N				
WS03	0.50	Free Cyanide	0.00010	N				H224 test
WS04	0.40	pH	0.00000	N				
WS04	0.40	Benzene	0.00000	N				H225 test
WS04	0.40	Toluene	0.00000	N				H225 test
WS04	0.40	Ethylbenzene	0.00000	N				H225 test
WS04	0.40	m,p-xylene	0.00000	N				H226 test
WS04	0.40	o-xylene	0.00000	N				H226 test
WS04	0.40	Naphthalene	0.00001	N				H228 test
WS04	0.40	Acenaphthylene	0.00001	N				
WS04	0.40	Acenaphthene	0.00001	N				
WS04	0.40	Fluorene	0.00001	N				
WS04	0.40	Phenanthrene	0.00001	N				
WS04	0.40	Anthracene	0.00001	N				
WS04	0.40	Fluoranthene	0.00001	N				
WS04	0.40	Pyrene	0.00001	N				
WS04	0.40	Benzo(a)anthracene	0.00001	N				
WS04	0.40	Chrysene	0.00001	N				
WS04	0.40	Benzo(b)fluoranthene	0.00001	N				
WS04	0.40	Benzo(k)fluoranthene	0.00001	N				
WS04	0.40	Benzo(a)pyrene	0.00001	N				
WS04	0.40	Indeno(1,2,3-cd)pyrene	0.00001	N				
WS04	0.40	Di-benz(a,h.)anthracene	0.00001	N				
WS04	0.40	Benzo(g,h,i)perylene	0.00001	N				
WS04	0.40	2 - chlorophenol	0.00001	N				
WS04	0.40	Vinyl chloride	0.00000	N				H220 test
WS04	0.40	Cis-1,2-dichloroethene	0.00000	N				H225 test
WS04	0.40	Trans -1, 2-dichloroethene	0.00000	N				H225 test
WS04	0.40	1,1,1,2-tetrachloroethane	0.00000	N				
WS04	0.40	1,1,2,2-tetrachloroethane	0.00000	N				
WS04	0.40	Hexachlorobutadiene	0.00000	N				

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Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
WS04	0.40	Trichloroethene	0.00000	N				
WS04	0.40	chlorobenzene	0.00000	N				H226 test
WS04	0.40	1,2 - dichlorobenzene	0.00000	N				
WS04	0.40	1,3 - dichlorobenzene	0.00000	N				
WS04	0.40	1,4 - dichlorobenzene	0.00000	N				
WS04	0.40	1,2,3 - trichlorobenzene	0.00000	N				
WS04	0.40	1,2,4 - trichlorobenzene	0.00000	N				
WS04	0.40	1,2,4 - trimethylbenzene	0.00000	N				H226 test
WS04	0.40	1,3,5 - trimethylbenzene	0.00000	N				H226 test
WS04	0.40	Aniline	0.00001	N				
WS04	0.40	Phenol	0.00002	N				
WS04	0.40	2,4 - dichlorophenol	0.00003	N				
WS04	0.40	2,4,6 - trichlorophenol	0.00001	N				
WS04	0.40	Methyl-tert-butyl ether	0.00000	N				H225 test
WS04	0.40	Petrol	0.00001	N				
WS04	0.40	Diesel	0.01300	N				
WS04	0.40	hydrocarbon/oil with marker	0.02160	N				H225 test
WS04	0.40	Arsenic	0.00095	N				
WS04	0.40	Boron	0.00347	N				
WS04	0.40	Cadmium	0.00004	N				
WS04	0.40	Hexavalent Chromium	0.00040	N				
WS04	0.40	Chromium (Total)	0.00146	N				
WS04	0.40	Copper	0.00301	N				
WS04	0.40	Lead	0.00340	N				
WS04	0.40	Mercury	0.00003	N				
WS04	0.40	Nickel	0.00316	N				
WS04	0.40	Selenium	0.00038	N				
WS04	0.40	Zinc	0.00000	N				
WS04	0.40	Zincx	0.00840	N				
WS04	0.40	Vanadium	0.00393	N				
WS04	0.40	Free Cyanide	0.00010	N				H224 test
WS06	0.90	pH	0.00000	N				
WS06	0.90	Benzene	0.00000	N				H225 test
WS06	0.90	Toluene	0.00000	N				H225 test
WS06	0.90	Ethylbenzene	0.00000	N				H225 test
WS06	0.90	m,p-xylene	0.00000	N				H226 test
WS06	0.90	o-xylene	0.00000	N				H226 test
WS06	0.90	Naphthalene	0.00001	N				H228 test
WS06	0.90	Acenaphthylene	0.00001	N				
WS06	0.90	Acenaphthene	0.00001	N				
WS06	0.90	Fluorene	0.00001	N				
WS06	0.90	Phenanthrene	0.00001	N				
WS06	0.90	Anthracene	0.00001	N				
WS06	0.90	Fluoranthene	0.00001	N				
WS06	0.90	Pyrene	0.00001	N				
WS06	0.90	Benzo(a)anthracene	0.00001	N				
WS06	0.90	Chrysene	0.00001	N				

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Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
WS06	0.90	Benzo(b)fluoranthene	0.00001	N				
WS06	0.90	Benzo(k)fluoranthene	0.00001	N				
WS06	0.90	Benzo(a)pyrene	0.00001	N				
WS06	0.90	Indeno(1,2,3-cd)pyrene	0.00001	N				
WS06	0.90	Di-benz(a,h)anthracene	0.00001	N				
WS06	0.90	Benzo(g,h,i)perylene	0.00001	N				
WS06	0.90	2 - chlorophenol	0.00001	N				
WS06	0.90	Vinyl chloride	0.00000	N				H220 test
WS06	0.90	Cis-1,2-dichloroethene	0.00000	N				H225 test
WS06	0.90	Trans -1, 2-dichloroethene	0.00000	N				H225 test
WS06	0.90	1,1,1,2-tetrachloroethane	0.00000	N				
WS06	0.90	1,1,2,2-tetrachloroethane	0.00000	N				
WS06	0.90	Hexachlorobutadiene	0.00000	N				
WS06	0.90	Trichloroethene	0.00000	N				
WS06	0.90	chlorobenzene	0.00000	N				H226 test
WS06	0.90	1,2 - dichlorobenzene	0.00000	N				
WS06	0.90	1,3 - dichlorobenzene	0.00000	N				
WS06	0.90	1,4 - dichlorobenzene	0.00000	N				
WS06	0.90	1,2,3 - trichlorobenzene	0.00000	N				
WS06	0.90	1,2,4 - trichlorobenzene	0.00000	N				
WS06	0.90	1,2,4 - trimethylbenzene	0.00000	N				H226 test
WS06	0.90	1,3,5 - trimethylbenzene	0.00000	N				H226 test
WS06	0.90	Aniline	0.00001	N				
WS06	0.90	Phenol	0.00002	N				
WS06	0.90	2,4 - dichlorophenol	0.00003	N				
WS06	0.90	2,4,6 - trichlorophenol	0.00001	N				
WS06	0.90	Methyl-tert-butyl ether	0.00000	N				H225 test
WS06	0.90	hydrocarbon/oil with marker	0.00100	N				H225 test
WS06	0.90	Arsenic	0.00092	N				
WS06	0.90	Boron	0.00139	N				
WS06	0.90	Cadmium	0.00004	N				
WS06	0.90	Hexavalent Chromium	0.00040	N				
WS06	0.90	Chromium (Total)	0.00146	N				
WS06	0.90	Copper	0.00276	N				
WS06	0.90	Lead	0.00190	N				
WS06	0.90	Mercury	0.00003	N				
WS06	0.90	Nickel	0.00316	N				
WS06	0.90	Selenium	0.00038	N				
WS06	0.90	Zinc	0.00000	N				
WS06	0.90	Zincx	0.01111	N				
WS06	0.90	Vanadium	0.00393	N				
WS06	0.90	Free Cyanide	0.00010	N				H224 test
TP02	0.20	pH	0.00000	N				
TP02	0.20	Benzene	0.00000	N				H225 test
TP02	0.20	Toluene	0.00000	N				H225 test
TP02	0.20	Ethylbenzene	0.00000	N				H225 test
TP02	0.20	m,p-xylene	0.00000	N				H226 test

Site Name	Wensley Road, Reading
Location	Berkshire, RG1 6DR
Site ID	GE18760
Job Number	GE18760
Date	3/25/2020
User Name	laura.legate@gesl.net
Company Name	Geo-Environmental Services Limited

Hole ID	Sample Depth	Contaminant	Contaminant Concentration (%)	Hazardous Waste Y/N	Hazard Property	Individual Hazard Statements Exceeded	Cumulative Hazard Statements Exceeded	Additional Hazard Statements (see notes section)
TP02	0.20	o-xylene	0.00000	N				H226 test
TP02	0.20	Naphthalene	0.00001	N				H228 test
TP02	0.20	Acenaphthylene	0.00001	N				
TP02	0.20	Acenaphthene	0.00001	N				
TP02	0.20	Fluorene	0.00001	N				
TP02	0.20	Phenanthrene	0.00001	N				
TP02	0.20	Anthracene	0.00001	N				
TP02	0.20	Fluoranthene	0.00001	N				
TP02	0.20	Pyrene	0.00001	N				
TP02	0.20	Benzo(a)anthracene	0.00001	N				
TP02	0.20	Chrysene	0.00001	N				
TP02	0.20	Benzo(b)fluoranthene	0.00001	N				
TP02	0.20	Benzo(k)fluoranthene	0.00001	N				
TP02	0.20	Benzo(a)pyrene	0.00001	N				
TP02	0.20	Indeno(1,2,3-cd)pyrene	0.00001	N				
TP02	0.20	Di-benz(a,h)anthracene	0.00001	N				
TP02	0.20	Benzo(g,h,i)perylene	0.00001	N				
TP02	0.20	Methyl-tert-butyl ether	0.00000	N				H225 test
TP02	0.20	hydrocarbon/oil with marker	0.00100	N				H225 test
TP02	0.20	Arsenic	0.00127	N				
TP02	0.20	Boron	0.00208	N				
TP02	0.20	Cadmium	0.00004	N				
TP02	0.20	Hexavalent Chromium	0.00040	N				
TP02	0.20	Chromium (Total)	0.00175	N				
TP02	0.20	Copper	0.00301	N				
TP02	0.20	Lead	0.00320	N				
TP02	0.20	Mercury	0.00003	N				
TP02	0.20	Nickel	0.00343	N				
TP02	0.20	Selenium	0.00038	N				
TP02	0.20	Zinc	0.00000	N				
TP02	0.20	Zincx	0.01309	N				
TP02	0.20	Vanadium	0.00482	N				
TP02	0.20	Free Cyanide	0.00010	N				H224 test

Notes - Additional Information on Hazard Properties

Hazardous Property	Description	Hazard Statement	Note
HP1	Explosive	H200, H201, H202, H203, H204, H240 and H241	A waste is assessed for HP1 via test methods, rather than a concentration limit. If you have substances or a mixture containing explosive properties the waste should be tested in accordance with the European Chemical Agency's guidance on the application of the CLP Criteria.
HP2	Oxidising	H270, H271, H272	A waste is assessed for HP2 via test methods, rather than a concentration limit. If you have substances or a mixture containing oxidising properties the waste should be tested in accordance with the European Chemical Agency's guidance on the application of the CLP Criteria.
HP3	Flammable	H220 to H226, H228, H242, H250, H251m H252, H260, H261	A waste is assessed for HP3 via test methods, rather than a concentration limit. If you have substances or a mixture containing flammable properties the waste should be tested in accordance with the European Chemical Agency's guidance on the application of the CLP Criteria. If a waste contains either H220, H221, H260 or H261 a calculation can be performed to identify the minimum amount of that substance that will trigger HP3.
HP5	Specific Target Organ Toxicity (STOT)	H304	Should a waste contain two or more compounds displaying H304 (Asp. Tox 1) and equal or exceed its specific concentration limit of 10%, then a waste will be hazardous by HP5 if its kinematic viscosity exceeds 20.5 mm ² /s. Guidance should be sought from the CLP Criteria.
HP9	Infectious	N/A	A waste is assessed for HP9 via further testing, rather than a concentration limit. In cases where there is the potential for toxins to be present, further testing will be required. For healthcare waste reference should be made to the Department of health guidance: Safe management of healthcare waste.
HP12	Release of acute toxic gas	EUH029, EUH031, EUH032, H260 or H261	A waste is assessed for HP12 via test methods, rather than a concentration limit. If you have substances or a mixture that may release acute toxic gas the waste should be tested in accordance with the European Chemical Agency's guidance on the application of the CLP Criteria.
HP15	Explosive or explosive properties	H205, EUH001, EUH019 or EUH044	A waste is assessed for HP15 via test methods, rather than a concentration limit. If you have substances or a mixture that may exhibit explosive or explosive properties the waste should be tested in accordance with the European Chemical Agency's guidance on the application of the CLP Criteria.
HP16	Persistent organic pollutants	N/A	A waste is considered hazardous if the concentration of one or more compound (persistent organic pollutant) as listed in Appendix C of Environment Agency guidance WM3 is above its assigned concentration limit. For reference for dioxins and furans, this assessment incorporates the use of specific toxicity equivalent factors.