



**Hexagon Theatre
Queens Walk
Reading RG1 7QF**

Desk Study & Ground Investigation



May 2024

J23282A
Rev 1



Ground investigation | Geotechnical consultancy | Contaminated land assessment



Report prepared by

Jack Bonnewell BSc FGS
Geotechnical Engineer

Report checked by

Juliet Fuller BSc MSc DIC FGS
Associate Director

Report approved for
issue by

Steve Branch BSc MSc CGeol FGS FRGS
Managing Director

Rev No	Status	Revision Details	Date	Approved for Issue
0	Final		19 March 2024	
1	Final	Updated gas risk	14 May 2024	

This report has been issued by the GEA office indicated below. Any enquiries regarding the report should be directed to the report project engineer at the office indicated or to Steve Branch in our main Herts office.

✓	Hertfordshire	tel 01727 824666
	Nottinghamshire	tel 01509 674888
	Manchester	tel 0161 209 3032

Geotechnical & Environmental Associates Limited (GEA) disclaims any responsibility to the Client and others in respect of any matters outside the scope of this work. This report has been prepared with reasonable skill, care and diligence within the terms of the contract with the Client and taking account of the manpower, resources, investigation and testing devoted to it in agreement with the Client. This report is confidential to the Client and GEA accepts no responsibility of whatsoever nature to third parties to whom this report or any part thereof is made known, unless formally agreed beforehand. Any such party relies upon the report at their own risk. This report may provide advice based on an interpretation of legislation, guidance notes and codes of practice. GEA does not however provide legal advice and if specific legal advice is required a lawyer should be consulted.

This report is intended as a Ground Investigation Report (GIR) as defined in BS EN1997-2, unless specifically noted otherwise. The report is not a Geotechnical Design Report (GDR) as defined in EN1997-2 and recommendations made within this report are for guidance only.

© Geotechnical & Environmental Associates Limited 2024

Ref J23282A
Rev 1
14 May 2024

Contents

Executive Summary

Part 1: Investigation Report

1.0	Introduction.....	1
2.0	The Site	3
3.0	Exploratory Work.....	6
4.0	Ground Conditions	6

Part 2: Design Basis Report

5.0	Ground Model	10
6.0	Advice & Recommendations	10
7.0	Outstanding Risks & Issues.....	12

Appendix



Executive summary

This executive summary contains an overview of the key findings and conclusions. No reliance should be placed on any part of the executive summary until the whole of the report has been read. Other sections of the report may contain information that puts into context the findings that are summarised in the executive summary.

Brief

This report describes the findings of a site investigation carried out by Geotechnical and Environmental Associates Limited (GEA) on the instructions of Momentum Structural Engineers on behalf of Reading Borough Council, with respect to the proposed construction of a new studio theatre and rehearsal space on the site of the existing back of house building. The purpose of the investigation has been to research the history of the site with respect to possible contaminative uses, to determine the ground conditions, to provide an indication of the presence of contamination and to provide information to assist with the design of shallow foundations.

A desk study report has previously been produced for the site by GEA (ref J23282 Rev 0, dated 18 December 2023) and the findings are included herein for completeness.

Desk Study Findings

The earliest map studied, dated 1879, shows the site to have been occupied by houses with rear gardens, with a school bordering the site to the southwest, which is no longer annotated on the 1899 map. The site remained unchanged, other than a bakery shown to have replaced the school by the time of the 1957 map. Between 1962 and 1970 the site and surrounding residential streets had been cleared, and earthworks are shown on the map, presumably to accommodate the construction of the Hexagon Theatre, which was completed in 1977. The site has since remained essentially unchanged.

From the time of the maps dated 1878 to 1900, the surrounding area was primarily residential with commercial buildings around such as a sawmill, a brewery, a few coal yards within 100 m, and a coach manufactory roughly 90 m away. By 1899, the coal yards were no longer being used and by 1911, the coach manufactory was no longer, but a fire station is now shown on the maps 120 m to the east which is no longer shown by 1912. Between the maps dated 1956 and 1965 the saw mill had been replaced by a car park, garages were located 120 m to the northwest and 120 m to the east. Between 1968 and 1991, the surrounding area was largely established in the existing configuration with the A329 constructed to the western border of the site.

Ground conditions

The investigation has confirmed the expected ground conditions in that, beneath a nominal thickness of made ground, a limited thickness of the Taplow Gravel Member was encountered which was in turn underlain by the Seaford Chalk Formation and Newhaven Chalk Formation.

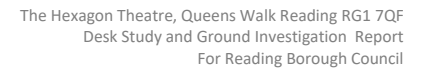
The made ground generally comprised an initial layer of light brown clayey gravelly sand with brick, metallic fragments, flint, ceramic fragments, and ash to depths between 0.30 m and 0.50 m. Below the initial layer, in Borehole No 2 only, the made ground comprised dark greyish brown sandy slightly gravelly clay with gravel of brick, flint, ash concrete and occasional metallic fragments to a depth of 1.00 m. Within Trial Pit No 1 between 0.25 m and 0.35 m brownish yellow and white gravelly clay with gravel of flint and chalk was encountered, conjectured to be reworked Taplow Gravel Member. The Taplow Gravel Member was only encountered within Borehole No 1, immediately below the made ground as a light orange-brown slightly clayey gravelly sand with gravel of fine to medium sub angular flint to a depth of 0.40 m. The Seaford Chalk Formation and Newhaven Chalk Formation was recovered as a structureless chalk, comprising a damp off white, slightly gravelly clay to the maximum depth of the investigation at 5.45 m. Groundwater was encountered within Borehole No 1 at 4.00 m within the Seaford Chalk Formation and Newhaven Chalk Formation.

Contamination testing has indicated that the samples tested do not contain any elevated chemical concentrations with respect to the adopted commercial end use. All of the samples tested were found to be free from asbestos.

Recommendations

Moderate width pad or strip foundations bearing on the chalk may be designed to apply a net allowable bearing pressure of 200 kN/m².

There should be no requirement for remediation of ground contamination.



Geotechnical and Environmental Associates Limited (GEA) has been commissioned by Momentum Structural Engineers on behalf of Reading Borough Council, to carry out a desk study and ground investigation at The Hexagon Theatre, Queens Walk Reading RG1 7QF.

The proposed development comprises the construction of a new studio theatre and rehearsal space on the site of the existing back of house building, whilst retaining a small section that currently accommodates the existing toilets. The drawing opposite shows the proposed layout.

The principal technical objectives of the work carried out were as follows:

-  to check the history of the site with respect to previous contaminative uses;
-  to provide an assessment of the risk of encountering UXO;
-  to determine the ground conditions;
-  to provide an indication of the degree of soil contamination present; and
-  to assess the risk that any such contamination may pose to the proposed development, its users, or the wider environment.





1.3 Scope of Work

In order to meet the above objectives, a desk study was carried out, followed by a ground investigation. The desk study comprised:

-  a review of historical Ordnance Survey (OS) maps and environmental searches sourced from the Envirocheck database;
-  a preliminary UXO risk assessment by First Line Defence;
-  a review of readily available geology maps; and
-  a walkover survey of the site carried out in conjunction with the fieldwork.

In the light of this desk study an intrusive ground investigation was carried out which comprised, in summary, the following activities:

-  two opendrive sampler boreholes advanced to a depth of up to 5.45 m;
-  standard penetration tests (SPTs) carried out at regular intervals within the boreholes to provide quantitative data on the strength of the soils;
-  four hand excavated trial pits to expose the existing foundations;
-  three core holes to determine the construction of existing building slab and subbase build up;
-  five in-situ CBR tests;
-  testing of selected soil samples for contamination purposes; and
-  provision of a report presenting and interpreting the above data, together with our advice and recommendations with respect to the proposed development.

This report includes a contaminated land assessment which has been undertaken by a suitably qualified and competent professional in accordance with the methodology presented by the Environment Agency in their Land contamination risk assessment (LCRM)¹ published 19 April 2021. This involves identifying, making decisions on, and taking appropriate action to deal with, land contamination in a way that is consistent with government policies and legislation within the United Kingdom. Risk management is divided into three stages; Risk Assessment, Options Appraisal and Remediation, and each stage comprises three tiers. The Risk Assessment stage includes preliminary risk assessment (PRA), generic quantitative risk assessment (GQRA) and detailed quantitative risk assessment (DQRA) and this report includes the PRA and GQRA.

The exploratory methods adopted in this investigation have been selected on the basis of the constraints of the site including but not limited to access and space limitations, together with any budgetary or timing constraints. Where it has not been possible to reasonably use an EC7 compliant investigation technique a practical alternative has been adopted to obtain indicative soil parameters and any interpretation is based upon engineering experience, local precedent where applicable and relevant published information.

¹ <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>



2.0 The Site

2.1 Site Description

The site is located in centre of Reading, approximately 700 m southwest of Reading railway station and is occupied by The Hexagon multi-purpose theatre and associated car parks. The site is bounded to the west by the A329 dual carriageway, to the southeast by Lavender Place Community Gardens, to the northeast by Broad Street Mall, and to the north by a student accommodation and hotel building.



A walkover of the site was carried out by a geotechnical engineer from GEA at the time of the fieldwork. The site is roughly square in shape and measures about 60 m east to west by around 60 m north to south and is occupied by the Hexagon Theatre and associated hardstanding. No significant areas of soft landscaping are present on site, although a small area of soft landscaping is present towards the southwestern corner and comprises a rough vegetated area with a few sparse trees.

The site is generally level, but the surrounding area slopes up towards the south. The adjacent road to the west is at a slightly higher level and there is a pedestrianised walkway on a podium to the east.

2.2 Site History

The site history has been researched by reference to internet sources and historical Ordnance Survey (OS) maps obtained from the Envirocheck database.

The earliest map studied, dated 1879, shows the site to have been occupied by houses with rear gardens, with a school bordering the site to the southwest, which is no longer annotated on the 1899 map. The site remained unchanged, other than a bakery shown to have replaced the school by the time of the 1957 map. Between 1962 and 1970 the site and surrounding residential streets had been cleared, and earthworks are shown on the map, presumably to accommodate the construction of the Hexagon Theatre, which was completed in 1977. The site has since remained essentially unchanged.

From the time of the maps dated 1878 to 1900, the surrounding area was primarily residential with commercial buildings around such as a sawmill, a brewery, a few coal yards within 100 m, and a coach manufactory roughly 90 m away. By 1899, the coal yards were no longer being used and by 1911, the coach manufactory was no longer, but a fire station is now shown on the maps 120 m to the east which is no longer shown by 1912. Between the maps dated 1956 and 1965 the saw mill had been replaced by a car park, garages were located 120 m to the northwest and 120 m to the east. Between 1968 and 1991, the surrounding area was largely established in the existing configuration with the A329 constructed to the western border of the site.

2.3 Other Information

A search of public registers and databases has been made via the Envirocheck database and relevant extracts from the search are appended. Full results of the search can be provided if required.

The Envirocheck report has not indicated any recorded landfill sites or areas of potentially infilled land within 500 m of the site. There are no waste management facilities or waste treatment or disposal sites within 500 m.



There are no contemporary trade directory entries listed on site but a further ten within 100 m of the site. The most notable contemporary trade directories are summarised below.

Distance [Direction]	Location	Entry	Active / Inactive
71m (N)	54, Broad Street Mall	Photographic Processors	Inactive
117m (NE)	23-25, Oxford Road	Copying & Duplicating Services	Inactive
121m (SE)	35, Castle Street	Carpet, Curtain & Upholstery cleaners	Inactive
127m (SW)	30, Anstey Road	Cleaning Servies – Domestic	Inactive
128m (NE)	22-23, Broad Street Mall	Electrical Goods Sales, Manufacturers & Wholesalers	Inactive
139m (NW)	109a, Oxford Road	Hardware	Inactive
139m (NW)	109, Oxford Road	Printers	Inactive
147m (NW)	137, Oxford Road	Meat- Wholesale	Inactive
145m (N)	Zenith House	Cash Registers & Check-out equipment	Inactive
150m (NW)	82, Oxford Road	Printers	Active

An obsolete fuel filling station is recorded within 190 m of the site, and the nearest active fuel station is 481 m from the site.

The site is not located within an area of sensitive land, but roughly 150 m to the northeast is a nitrate vulnerable zone.

Reference to records compiled by Public Health England and BGS indicates that the site falls within an intermediate probability radon area where it is estimated that 1 to 3% of homes are at or above action level. However according to the BGS and Public Health England, no radon protective measures are necessary in the construction of new buildings or extensions.

2.4 Preliminary UXO Risk Assessment

A Preliminary UXO Risk Assessment has been completed by 1st Line Defence (report ref PA19024-00, dated 17th November 2023), and the report is included in the appendix. The risk assessment has been carried out in accordance with the guidelines provided by CIRIA², which state that the likelihood of encountering and detonating UXO below a site should be assessed along with establishing the consequences that may arise. The first phase comprises a preliminary risk assessment, which should be undertaken at an early stage of the development planning. If such an assessment identifies a high level of risk, then a detailed risk assessment should be carried out by a UXO specialist, which will identify an appropriate course of action with regard to risk mitigation.

The report indicates that, during World War II (WWII), the site was located within the County Borough of Reading, which sustained an overall very low bomb density with 5 items of ordnance recorded across the 9,105-acre borough. The report reports a significant air raid that occurred on the 10th of February 1943, when a single Luftwaffe aircraft machine-gunned and bombed the town centre, resulting in 41 deaths and over 100 injuries. The bomb strikes of this raid repeatedly fell 45m east of the site. Wartime-era aerial imagery, dated 1944 and 1947, showed no major signs of bomb damage such as rubble, debris, cratering, scattered earth, or indentations in the ground. Based on these findings, the risk from UXO is not considered to be significantly elevated above the “background risk” of finding UXO in this part of the UK, and therefore it is recommended that no further research is undertaken.

2.5 Geology

The British Geological Survey (BGS) map of the area indicates that the site is directly underlain by a layer of Taplow Gravel Member followed by the Seaford Chalk Formation and Newhaven Chalk Formation.

A search of the BGS borehole database has found the record of a borehole drilled on the site in 1965, prior to the construction of the theatre. The borehole was drilled from a level of 44.9 m OD and encountered approximately 1.0 m of made ground over brown sandy gravelly clay of the Taplow Gravel Member to a depth of 4.3 m, underlain by chalk.



2.6 Hydrology and Hydrogeology

The Taplow Gravel Member is classified by the Environment Agency as a secondary A aquifer which comprises permeable layers that can support local water supplies and may form an important source of base flow to rivers.

The Seaford Chalk Formation and Newhaven Chalk Formation is classified by the Environment Agency as a Principal Aquifer, referring by the porous rock layers that provide significant quantities of drinking water, and water for business needs.

The nearest surface water feature is a stream, located 201 m to the southeast.

A groundwater abstraction well is located within 250 m of the site, located 200 m to the north of the site, operated by Primark Stores Limited.

The site is not located within a Groundwater Protection Zone and is not within an area with potential for groundwater flooding to occur. The site is however in an area with potential for groundwater flooding to occur at the surface.

The site is entirely covered by a mixture of concrete hardstanding and buildings. Infiltration of rainwater is generally restricted to surface water drains, such that the majority of surface runoff will drain into combined sewers in the road/area.

The proposed development will not change the area of hardstanding on the site. This will, in theory, not change the amount of runoff or volume of water received into the existing sewer system, or that could have a potentially adverse impact on the surrounding area. There should not, therefore, be any requirement for any mitigation measures.

2.7 Preliminary Risk Assessment

Part IIA of the Environmental Protection Act 1990, which was inserted into that Act by Section 57 of the Environment Act 1995, provides the main regulatory regime for the identification and remediation of contaminated land. The determination of contaminated sites is based on a “suitable for use” approach which involves managing the risks posed by contaminated land by making risk-based decisions. This risk assessment is carried out based on a source-pathway-receptor approach.

2.7.1 Source

The site was initially developed with houses prior to 1879, before undergoing redevelopment with the existing theatre in 1977. Prior to the redevelopment with the theatre the site and adjacent area was subject to earthworks. As a result, much of the made ground which would have resulted from the demolition of the previous buildings will have been removed.

With the anticipated removal of the made ground, sufficient quantities of relatively recently deposited methanogenic materials are unlikely to be present, such that no sources of soil gas have been identified on site. There are no historical or existing landfill sites, or records of any infilled land, within the vicinity of the site, such that a risk of soil gas migrating onto the site has not been identified.

2.7.2 Receptor

The development of the site will result in end users representing moderate sensitivity receptors. As the site is directly underlain by a Secondary A Aquifer, the Taplow Gravel which is underlain by the Seaford Chalk Formation and Newhaven Chalk Formation, which is a principal aquifer, the groundwater represents a highly sensitive receptor. Buried services are likely to come into contact with any contaminants present within the soils through which they pass, and site workers are potential receptors during construction or maintenance works.

2.7.3 Pathway

The Taplow Gravel is of relatively high permeability, which will provide a pathway for any contamination to reach the Seaford Chalk Formation and Newhaven Chalk Formation. Within the site, end users will be largely isolated from direct contact with any contaminants present within the made ground by the presence of the buildings and the extent of the hardstanding. Buried services may be exposed to any contaminants present within the soil through direct contact and site workers will encounter the soils during construction works. There is thus considered to be a low to moderate potential for a contaminant pathway to be present between any potential contaminant source and a target for the contaminant.



2.7.4 Preliminary Risk Appraisal

On the basis of the above it is considered that there is a LOW risk of there being a contaminant linkage at this site that could result in a requirement for remediation work.

As there is not considered to be a potential for hazardous ground gases or vapours to be present on or migrating towards the site, there should be no need to consider ground gas exclusion systems, or ground gas monitoring at this site, as outlined in Table A1 of RB17³.

3.0 Exploratory Work

In order to meet the objectives described in Section 1.2, two opendrive sampler boreholes were advanced to a depth of up to 5.45 m. A third borehole was attempted at two locations, but was aborted due to being unable to penetrate the surface concrete which was in excess of 200 mm thick. In addition, four hand excavated trial pits were carried out externally to expose the existing foundations along with three core holes excavated internally to determine the construction of existing building slab and subbase build up. Five equivalent CBR tests were carried out with the use of a TRL-DCP.

During boring, disturbed samples were obtained from the boreholes for subsequent laboratory examination and testing. A selection of the samples recovered from the boreholes was submitted to a soil mechanics laboratory for a programme of geotechnical testing and an analytical laboratory for a programme of contamination testing.

All of the above work was carried out under the supervision of a geotechnical engineer from GEA. The borehole records are appended, together with a site plan indicating the exploratory positions. The Ordnance Datum (OD) levels shown on the borehole and trial pit records have been interpolated from spot heights shown on a site survey (ref 5544-MOM-XX-XX-SK-S-231023 P02 dated 24 October 2023) which was provided by Momentum. Structural Engineers.

3.1 Sampling Strategy

The borehole locations were determined by the engineer from GEA on site based upon access restrictions/ available space on site and considerations with due regard to the location of buried services.

Three samples of the made ground have been tested for the presence of contamination. The analytical suite of testing was selected to identify a range of typical industrial contaminants for the purposes of general coverage. The analytical suite for the soil included a range of metals, speciation of total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAH), total cyanide and monohydric phenols. The analyses were carried out at an MCERTs accredited laboratory with the majority of the testing suite accredited to MCERTS standards. A summary of the MCERTs accreditation and test methods are included with the attached results and further details are available upon request.

3 Card, G, Wilson S, Mortimer S (2012), *A Pragmatic Approach to Ground Gas Risk Assessment*. CL:AIRE Research Bulletin RB17. CL:AIRE, London, UK. ISSN 2047-6450 (online)



4.0 Ground Conditions

The investigation has confirmed the expected ground conditions in that, beneath a nominal thickness of made ground, the Taplow Gravel Member was encountered which was in turn underlain by the Seaford Chalk Formation and Newhaven Chalk Formation.

4.1 Concrete slabs

Within the building, the concrete slabs were cored using a 200 mm to 300 mm diameter barrel and were found to comprise a light grey reinforced concrete with 5 mm diameter reinforcement bars and / or a light grey unreinforced concrete to thickness of between 440 mm and 860 mm.

The table below summaries the findings:

Location	Concrete Slab and subbase profile
TP5	0 to 50 mm: Light grey unreinforced CONCRETE SCREED. 50 mm to 320 mm: Light grey reinforced CONCRETE. 320 mm to 322 mm: Plastic membrane. 322 mm to 860 mm: Light grey unreinforced CONCRETE. 860 mm to 950 mm: Structureless CHALK.
TP6	0 to 50 mm: Light grey unreinforced CONCRETE SCREED. 50 mm to 260 mm: Light grey unreinforced CONCRETE. 260 mm to 262 mm: Plastic membrane. 262 mm to 440 mm: Light grey unreinforced CONCRETE. 440 mm to 680 mm: Light brown slightly gravelly SAND. Gravel of flint. 680 mm to 690 mm: Structureless CHALK.
TP7	0 to 380 mm: Light grey reinforced CONCRETE. 380 mm to 382 mm: Plastic membrane. 382 mm to 680 mm: Light grey unreinforced CONCRETE. 680 mm to 850 mm: Unknown- Concrete thickness proved by drill probe (unable to extract core).

4.2 Made Ground

The made ground generally comprised an initial layer of light brown clayey gravelly sand with brick, metallic fragments, flint, ceramic fragments and ash to depths between 0.30 m and 0.50 m. Below which, in Borehole No2 only, the made ground comprised a dark greyish brown sandy slightly gravelly clay with brick, flint, ash concrete and occasional metallic fragments to a depth of 1.00 m. Within Trial Pit No 1 between 0.25 m and 0.35 m a brownish yellow and white gravelly clay with gravel of flint and chalk was encountered, conjectured to be reworked Taplow Gravel Member.

Apart from the presence of fragments of extraneous material noted above, no visual or olfactory evidence of contamination was observed during the fieldwork. Three samples of the made ground have been analysed for a range of contaminants and the results are detailed within Section 4.6.

4.3 Taplow Gravel Member

The Taplow Gravel Member was only encountered within Borehole No 1, immediately below the made ground as a light orange-brown slightly clayey gravelly sand with gravel of fine to medium sub angular flint to a depth of 0.40 m.

The BGS borehole identified on the site encountered 4 m of Taplow Gravel, but this borehole was drilled from a level of 44.9 m OD in 1965, prior to the earthworks and construction of the theatre in the 1970s. It therefore appears that around 4 m to 5m depth of soil was removed from site since that time, as the site level is now 39.7 m OD, and the Taplow Gravel Member is largely absent.

4.4 Seaford Chalk Formation and Newhaven Chalk Formation

On the basis of the inspection of recovered samples, the chalk has been classified in accordance with CIRIA Report C574 (2002), *Engineering in Chalk*⁴. The Seaford Chalk Formation and Newhaven Chalk Formation was recovered as a structureless chalk, comprising a damp off white, slightly gravelly clay to the maximum depth of the investigation at 5.45 m. The sampling of the chalk from the open-drive boreholes is likely to have resulted in disturbance of the chalk and therefore the recovered samples will not be indicative of the in-situ condition. Chalk samples had a natural moisture content of between 21.1 % and 33.0 %.

A single chalk sample from Borehole No 2 was found to be medium intact dry density at 1.65 Mg/ m³ and a saturation moisture content of 24 %.



4.5 Groundwater

Groundwater was encountered at a depth of 4.00 m within Borehole No 1 in the chalk.

4.6 Soil Contamination

The table below sets out the values measured within the three samples analysed; all concentrations are in mg/kg unless otherwise stated.

Determinant	BH1 0.20 m	BH2 0.40 m	BH2 0.80 m
pH	9.5	10.5	8.1
Arsenic	11	11	6.2
Cadmium	0.5	< 0.2	0.2
Chromium	< 1.8	< 1.8	< 1.8
Lead	56	38	38
Mercury	< 0.3	< 0.3	< 0.3
Selenium	< 1.0	< 1.0	< 1.0
Copper	15	15	13
Nickel	9.2	11	6.3
Zinc	99	290	47
Total Cyanide	< 1.0	< 1.0	< 1.0
Total Phenols	< 1.0	< 1.0	< 1.0
Total PAH	19.9	8.57	1.55
Sulphide	5	14	8.4
Benzo(a)anthracene	1.5	0.7	0.11
Chrysene	1.8	0.77	0.17

Determinant	BH1 0.20 m	BH2 0.40 m	BH2 0.80 m
Benzo(b)fluoranthene	2	1.1	0.19
Dibenz(a,h)anthracene	0.24	0.14	< 0.05
Benzo(a)pyrene	1.8	0.98	0.1
Naphthalene	0.09	< 0.05	< 0.05
TPH	230	160	< 10
TPH (C8 - C10)	< 1.0	< 1.0	< 1.0
TPH (C10 - C12)	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	< 10	13	< 10
TPH (C21 - C35)	120	84	< 10
TPH Total C8 - C35	120	97	< 10
Total Organic Carbon %	2	1.4	1.6

Note: Figure in **bold** indicates concentration in excess of risk-based soil guideline values, as discussed in Part 2 of this report

In addition, the three samples of the made ground were screened for the presence of asbestos and none was detected.

4.6.1 Generic Quantitative Risk Assessment

The use of a risk-based approach has been adopted to provide an initial screening of the test results to assess the need for subsequent site-specific risk assessments. Contaminants of concern are those that have values in excess of generic human health risk-based guideline values, which are either the CLEA⁵ Soil Guideline Values where available, the Suitable 4 Use Values⁶ (S4UL) produced by LQM/CIEH calculated using the CLEA UK Version 1.07⁷ software, or the DEFRA Category 4 Screening values⁸, assuming a commercial end use. The key generic assumptions for this end use are as follows:

- that groundwater will not be a critical risk receptor;

⁵ Updated Technical Background to the CLEA Model (Science Report SC050021/SR3) Jan 2009 and Soil Guideline Value reports for specific contaminants; all DEFRA and Environment Agency.

⁶ The LQM/CIEH S4ULs for Human Health Risk Assessment S4UL3065 November 2014

⁷ Contaminated Land Exposure Assessment (CL|EA) Software Version 1.071 Environment Agency 2015

⁸ CL:AIRE (2013) Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination Final Project Report SP1010 and DEFRA (2014) Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination Policy Companion Document SP1010



- that the critical receptor for human health will be a working female aged 16 to 65 years old;
- that the exposure duration will be 49 years;
- that the critical exposure pathways will be direct soil and indoor dust ingestion, skin contact with soils and dust, and inhalation of dust and vapours; and
- that the building type equates to a three-storey office.

With the exception of groundwater which is considered separately, it is considered that these assumptions are acceptable for this generic assessment of this site with regards to the proposed commercial development.

The tables of generic screening values derived by GEA and an explanation of how each value has been derived are included in the Appendix.

Where contaminant concentrations are measured at concentrations below the generic screening value it is considered that they pose an acceptable level of risk and thus further consideration of these contaminant concentrations is not required. However, where concentrations are measured in excess of these generic screening values there is considered to be a potential that they could pose an unacceptable risk and thus further action will be required which could include;

- additional testing to zone the extent of the contaminated material and thus reduce the uncertainty with regard to its potential risk;
- site-specific risk assessment to refine the assessment criteria and allow an assessment to be made as to whether the concentration present would pose an unacceptable risk at this site; or
- soil remediation or risk management to mitigate the risk posed by the contaminant to a degree that it poses an acceptable risk.

The results of the chemical analyses have indicated that the samples tested do not contain any elevated chemical concentrations with respect to the adopted commercial end use. All of the samples tested were found to be free from asbestos.

4.7 Soil Gas

The investigation has indicated very low concentrations of TOC (<2%) in the limited thickness of made ground which generally comprised clayey sand with brick, flint and the occasional metal fragment. In view of the absence of an off site source of landfill gas, and given that the thickness of made ground was consistently less than 3 m and the TOC was less than 2%, the site is most likely to be considered as Characteristic Situation 1 (CS1) and no protection measures are necessary.

4.8 Existing Foundations

The findings of the trial pits are summarised in the table below. Sketches and photographs of each pit are included in the Appendix.

Trial Pit No	Structure	Foundation detail	Bearing Stratum
1	External column to Hexagon Theatre	Mass concrete strip / trench fill Top 0.33 m Base >1.20 m (Not proven) Lateral projection 1200 mm	Assumed to be structureless chalk, recovered as a damp off white, slightly gravelly clay
2	External column to Hexagon Theatre	Mass concrete strip / trench fill Top 0.33 m Base >1.00 m (Not proven) Lateral projection 1200 mm	Assumed to be structureless chalk, recovered as a damp off white, slightly gravelly clay
3	External column to Hexagon Theatre	(Unable to penetrate concrete at surface > 200 mm thickness)	Not encountered.
4	External column to beneath raised walkway	Mass concrete strip / trench fill Top 0.05 m Base >1.25 m (Not proven) Lateral projection 50 mm	Assumed to be structureless chalk, recovered as a damp off white, slightly gravelly clay



Part 2: Design Basis Report

This section of the report provides an interpretation of the findings detailed in Part 1, in the form of a ground model, and then provides advice and recommendations with respect to the proposed development.

5.0 Ground Model

It is understood that the proposals include the construction of a new studio theatre and rehearsal space on the site of the existing back of house building, whilst retaining a small section that currently accommodates the existing toilets. The proposed loads are not known but are anticipated to be light.

On the basis of the fieldwork, the ground conditions at this site can be characterised as follows:

-  beneath a nominal thickness of made ground, the Taplow Gravel Member is locally present which is in turn underlain by the Seaford Chalk Formation and Newhaven Chalk Formation;
-  the made ground generally comprises light brown clayey gravelly sand with brick, metal, flint, ceramics and ash and extends to a depth of up to 1.0 m;
-  the Taplow Gravel Member comprises light orange-brown slightly clayey gravelly sand with gravel of fine to medium sub angular flint to a depth of 0.40 m and has been removed from the majority of the site;
-  the Seaford Chalk Formation and Newhaven Chalk Formation is present as a structureless chalk, recovered as a damp off white, slightly gravelly clay to the maximum depth of the investigation at 5.45 m;
-  groundwater was encountered within the Seaford Chalk Formation and Newhaven Chalk Formation at a depth of 4.00 m in Borehole No 1;
-  no elevated concentrations of contaminants were measured in the made ground and no asbestos was detected.

9 Chapman T, Anderson S, and Windle J (2007) *Reuse of Foundations*, CIRIA Report C653
10 Butcher AP, Powell JJM, and Skinner HD (2006) *Reuse of Foundations for Urban Sites – A best practice handbook & Proceedings of the International Conference*. BRE Press

6.0 Advice & Recommendations

Spread foundations bearing on the Seaford Chalk Formation and Newhaven Chalk Formation should provide a suitable bearing stratum for light to moderate loads.

6.1 Spread Foundations

Moderate width pad or strip foundations will need to bypass the made ground and bear within the chalk, with a minimum penetration of 300 mm into the chalk achieved. Foundations at this depth may be designed to apply a net allowable bearing pressure of 200 kN/m². This value incorporates an adequate factor of safety against bearing capacity failure and should ensure that settlement remains within normal tolerable limits.

6.2 Low Carbon Options

There are a number of alternative foundation options that could be considered to minimise the carbon footprint of the proposed works.

Where possible, consideration could be given to the re-use of the existing foundations, which it is assumed given the age of the building will have completed any long-term settlement and from the observations made on site, appear to have behaved satisfactorily. Therefore, in the absence of any previous movement, it should be possible to apply an additional 10 % of load to the existing foundations without the requirement for any significant improvement or detailed assessment. The reuse of existing foundations is not specifically covered in current codes and standards. However, there are a number of guidance documents^{9,10} available, which should be referred to when assessing the feasibility of re-using foundations, as part of a construction stage foundation design. If this approach is adopted, it is recommended that a settlement analysis be carried out.

Where new foundations are required, cement free spread foundations comprising trenches filled with used car tyres that are placed and filled with pea shingle gravel have been successfully used in the UK¹¹, and are Building Control approved. Such foundations can also result in a significant cost saving compared with using concrete, since the tyres can usually be obtained for free. The tyres must be completely buried to prevent degradation caused by exposure to UV light, or they can be painted if they are to be left exposed at surface.

11 <https://www.lowimpact.org/posts/learning-car-tyre-foundations>



6.3 Shallow Excavations

On the basis of the borehole findings, it is considered that it will generally be feasible to form relatively shallow excavations terminating within the Seaford Chalk Formation and Newhaven Chalk Formation without the requirement for lateral support, although localised instabilities may occur where more granular material or groundwater is encountered.

Significant inflows of groundwater into shallow excavations are not generally anticipated, although seepages may be encountered from perched water tables within the made ground, although such inflows should be suitably controlled by sump pumping.

If deeper excavations are considered or if excavations are to remain open for prolonged periods it is recommended that provision be made for battered side slopes or lateral support. Where personnel are required to enter excavations, a risk assessment should be carried out and temporary lateral support or battering of the excavation sides considered in order to comply with normal safety requirements.

6.4 Ground Floor Slab

The site clearance is likely to result in removal of the limited thickness of made ground, such that formation level for the floor slab will be within the structureless chalk, and a ground bearing slab should; be suitable. The chalk is considered to be frost susceptible and as such the ground floor slabs of unheated or poorly insulated buildings should be constructed over a layer of well compacted, free draining material of at least 300 mm thickness. The formation should not be exposed during construction for more than five consecutive days if the mean daily air temperature is below freezing. It would be prudent to proof roll formation level and infill any soft spots with suitably compacted granular material, particularly if made ground is present at formation.

6.5 Effect of Sulphates

The results of sulphate analysis on the made ground are summarised in the table below. The guidelines contained Table C2 of BRE Special Digest 1:SD Third Edition (2005) should be followed in the design of foundation concrete. This assumes static groundwater water condition at the site.

Stratum	No of samples	pH	SO ₄ (mg/l)		Design Sulphate Class	ACEC Class
			Range	Characteristic Value		
Made Ground	3	8.1 to 10.5	92.1 to 224	224	DS-1	AC-1s

Chalk does not contain sulphates and therefore does not require laboratory testing to determine the appropriate concrete class, as such DS-1 & AC-1s are considered suitable.

6.6 Contamination Risk Assessment

Contamination testing has not indicated any elevated contaminant concentrations within the three samples of the made ground tested with respect to a commercial end use.

Very low contaminant concentrations were measured within the samples, at or below expected background concentrations. Therefore, no risk is envisaged to end users, buried services, adjacent sites, or groundwater receptors. A risk of landfill gas is not envisaged and gas protection measures are not required.

6.7 Waste Disposal

Under the Waste Framework Directive, waste is classified as being either Hazardous or Non-Hazardous and landfills receiving waste are classified as accepting hazardous or non-hazardous wastes or the non-hazardous sub-category of inert waste in accordance with the Waste Directive. Waste classification is a staged process, and this investigation represents the preliminary sampling exercise of that process. Once the extent and location of the waste that is to be removed has been defined, further sampling and testing may be necessary. The results from this ground investigation should be used to help define the sampling plan for such further testing, which could include WAC leaching tests where the totals analysis indicates the soil to be a hazardous waste or inert waste from a contaminated site. It should however be noted that the Environment Agency guidance WM3¹² states that landfill WAC analysis, specifically leaching test results, must not be used for waste classification purposes.

Any spoil arising from excavations or landscaping works, which is not to be re-used in accordance with the CL:AIRE¹³ guidance, will need to be disposed of to a licensed tip. Waste going to landfill is subject to landfill tax at either the standard rate of £102.10 per

12 Environment Agency 2015. *Guidance on the classification and assessment of waste*. Technical Guidance WM3 First Edition

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



tonne (about £190.00 per m³) or at the lower rate of £3.25 per tonne (roughly £6.00 per m³). However, the classifications for tax purposes and disposal purposes differ and currently all made ground and topsoil is taxable at the 'standard' rate and only naturally occurring soil and stones, which are accurately described as such in terms of the 2011 Order, would qualify for the 'lower rate' of landfill tax.

Based on the technical guidance provided by the EA it is considered likely that the soils encountered during this ground investigation, as represented by the chemical analyses carried out, would be generally classified as follows.

Soil Type	Waste Classification (Waste Code)	WAC Testing Required Prior to Landfill Disposal?	Current applicable rate of Landfill Tax
Made ground	Non-hazardous (17 05 04)	No	£102.10/tonne (Standard rate)
Natural soils	Should be inert non-hazardous (17 05 04)	No	£102.10/tonne (Standard rate)

Under the requirements of the Waste Directive all waste needs to be pre-treated prior to disposal. The pre-treatment process must be physical, thermal, chemical, or biological, including sorting. It must change the characteristics of the waste in order to reduce its volume, hazardous nature, facilitate handling or enhance recovery. The waste producer can carry out the treatment, but they will need to provide documentation to prove that this has been carried out. Alternatively, the treatment can be carried out by an approved contractor. The Environment Agency has issued a position paper¹⁴ which states that in certain circumstances, segregation at source may be considered as pre-treatment and thus excavated material may not have to be treated prior to landfilling if the soils can be segregated onsite prior to excavation by sufficiently characterising the soils in situ prior to excavation.

The above opinion with regard to the classification of the excavated soils is provided for guidance only and should be confirmed by the receiving landfill once the soils to be discarded have been identified. The local waste regulation department of the Environment Agency (EA) should be contacted to obtain details of tips that are licensed to accept the soil represented by the test results. The tips will be able to provide costs for disposing of this material but may require further testing.

7.0 Outstanding Risks & Issues

This section of the report aims to highlight areas where further work is required as a result of limitations on the scope of this investigation, or where issues have been identified by this investigation that warrant further consideration. The scope of risks and issues discussed in this section is by no means exhaustive but covers the main areas where additional work may be required.

7.1 Site-Specific Risks

If during ground works any visual or olfactory evidence of contamination is identified it is recommended that further investigation be carried out and that the risk assessment is reviewed.

These areas of doubt should be drawn to the attention of prospective contractors and further investigation will be required or sufficient contingency should be provided to cover the outstanding risks.

7.2 General Risks

The ground is a heterogeneous natural material and variations will inevitably arise between the locations at which it is investigated. This report provides an assessment of the general ground conditions based on the discrete points at which the ground was sampled, but there may be ground conditions (including soil, rock, gas and groundwater) elsewhere on site that have not been revealed by this investigation and therefore could not have been taken into account in this report. The ground conditions should be subject to review as the development proceeds to ensure that any variations from the Ground Model are properly assessed by a suitably qualified person.

Where any conclusions and recommendations contained in this report have been based upon information provided by others, it has been assumed that all relevant information has been provided by those parties and that such information is accurate. Any such information has not been independently verified by GEA, unless otherwise stated in the report. GEA accepts no liability for any inaccurate conclusions, assumptions or actions taken resulting from any inaccurate information supplied to GEA from others.

14 Environment Agency 23 Oct 2007 *Regulatory Position Statement Treating non-hazardous waste for landfill - Enforcing the new requirement*



Appendix

a. Field Work

Site Plan
Borehole Records
Trial Pit Records
CBR Test Results

b. Lab Testing

Geotechnical Test Results
SPT & Cohesion/Depth Graph
Chemical Test Results
Generic Risk Based Screening Values

c. Desk Study

Risk Assessment Tables
Envirocheck Extracts
Historical Maps
UXO Preliminary Risk Assessment



appendix a

Field Work

Site Plan
Borehole Records
Trial Pit Records
CBR Test Results

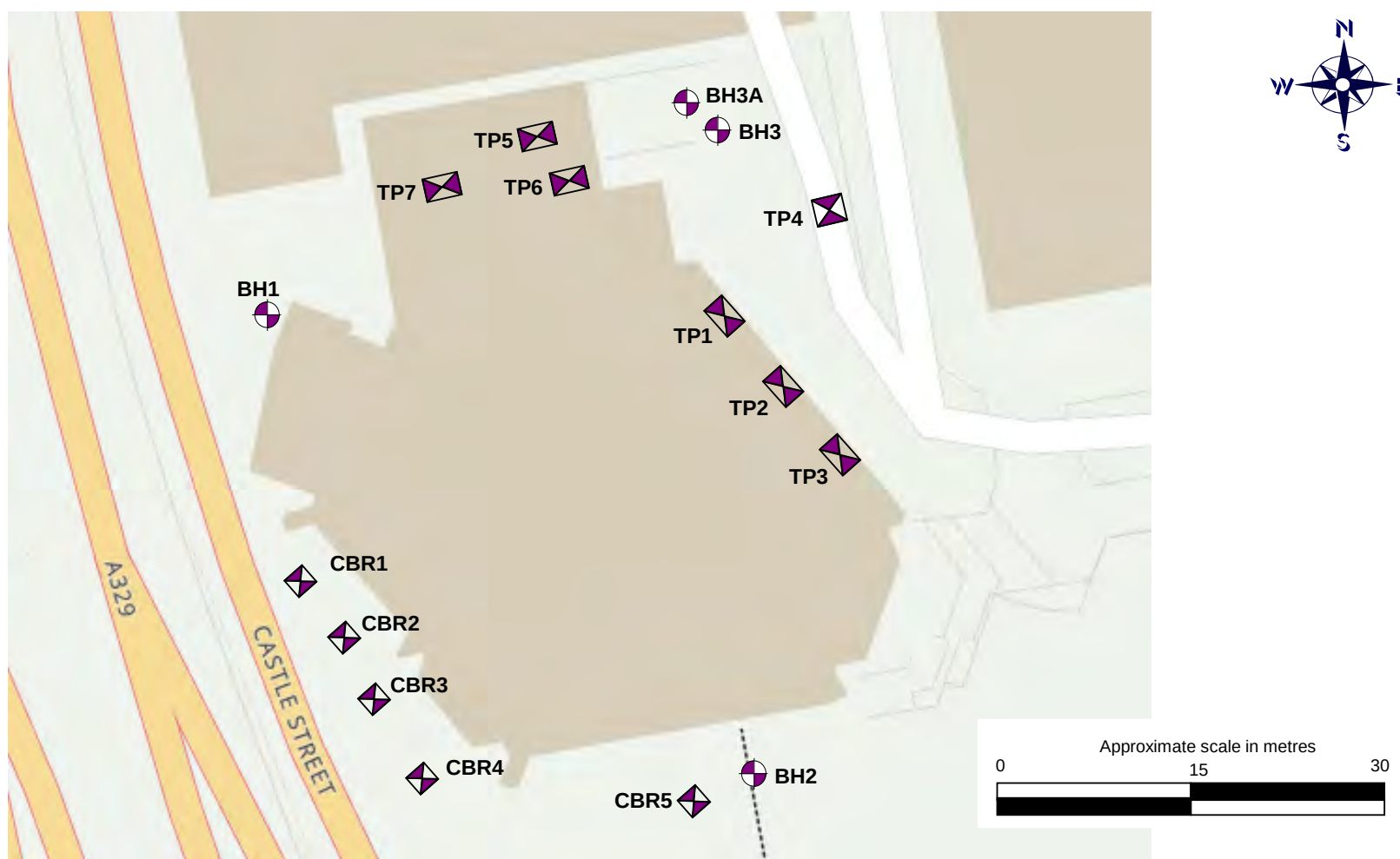
Site Hexagon Theatre, Reading, RG1 7QF

Client Reading Borough Council

Engineer Momentum Engineering

Job Number
J23282

Sheet
1 / 1



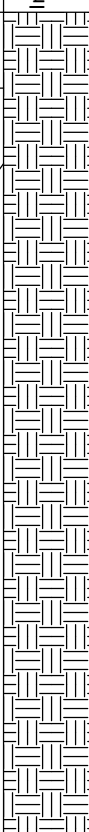
Project Hexagon Theatre, Queens Walk, Reading, RG1 7QF				BOREHOLE No BH1
Job No J23282	Date 14-11-23 14-11-23	Ground Level (m TBM) 39.66	Co-Ordinates ()	
Client Reading Borough Council		Engineer Momentum Engineering		Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA				Instrument / Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	
0.20	ES1			39.36		0.30	MADE GROUND. (Dark greyish brown clayey gravelly sand. Gravel of fine to coarse sub angular to angular flint, brick, chalk and occasional ceramic fragments and ash). Light orange-brown slightly clayey gravelly SAND. Gravel of fine to medium sub angular flint. Structureless CHALK recovered as damp off white, slightly gravelly CLAY. Gravel is of fine to coarse grained, medium to high density, weak off white chalk set in a putty matrix.	
				39.26		0.40		
0.60	D1							
0.80	D2	1,2/2,2,2,3 N60 = 14						
1.40	D3							
1.80	D4							
2.20	D5	2,3/2,3,4,3 N60 = 19						
2.80	D6						2.50 Flints	
3.30	D7	2,3/3,3,4,4 N60 = 22				(5.05)		
3.90	D8	2,3/4,3,3,4 N60 = 22						
4.40	D9							
4.80	D10	2,3/3,4,4,4 N60 = 24						
				34.21		5.45		

Boring Progress and Water Observations						GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	
						Services avoidance pit excavated to 1.20 m. Groundwater encountered at 4.0 m.

All dimensions in metres Scale 1:50	Method/ Plant Used Opendrive sampler	Logged By JB
--	--	-----------------

Project Hexagon Theatre, Queens Walk, Reading, RG1 7QF				BOREHOLE No BH2	
Job No J23282	Date 14-11-23 14-11-23	Ground Level (m TBM) 39.93	Co-Ordinates ()		
Client Reading Borough Council		Engineer Momentum Engineering		Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA			Instrument / Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	
0.40	ES1	3,4/4,4,5,4 N60 = 27	39.43		(0.50) 0.50	MADE GROUND. (Light brown slightly clayey gravelly sand. Gravel of fine to coarse sub angular to angular brick, flint, metallic fragments and ash).	
0.80	ES2				(0.50) 1.00	MADE GROUND. (Dark greyish brown sandy slightly gravelly clay. Gravel of fine to coarse sub angular to angular brick, flint, ash, concrete and metallic fragments).	
1.20	D1			Structureless CHALK recovered as damp off white, slightly gravelly CLAY. Gravel is of fine to coarse grained, medium to high density, weak off white chalk set in a putty matrix.			
1.60	D2						
2.40	D3						
2.80	D4						
3.30	D5	2,3/3,2,2,3 N60 = 16			(4.45)	2.60 Flints	
3.80	D6	3,3/10,6,5,5 N60 = 42					
4.40	D7						
4.80	D8	8,5/6,6,5,5 N60 = 35					
		34.48			5.45		

Boring Progress and Water Observations						GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	
						Services avoidance pit excavated to 1.20 m. No groundwater encountered.

All dimensions in metres Scale 1:50	Method/ Plant Used Opendrive sampler	Logged By JB
--	--	-----------------



All dimensions in metres Scale 1:50	Method/ Plant Used Opendrive sampler	Logged By JB
--	---	-----------------

Report ID: CABLE PERCUSSION | Project: J23282-HEXAGON THEATRE.GPJ | Library: GEA LIBRARY.GLB | Date: 18 March 2024

Site: Hexagon Theatre, Reading, RG1 7QF

Client Reading Borough Council

Engineer Momentum Engineering

Job Number

J23282

Sheet

1 of 1

Dates

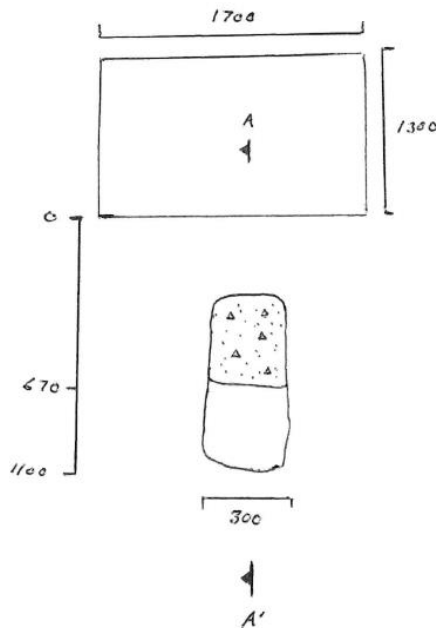
24/11/2023

Excavation Method

Manual

Dimensions

As per drawing (mm)

Ground Level (mOD)
Location
Plan view:

Section line A-A' :

Soil log (mm):

0-150: Tarmac.

150-550: MADE GROUND. (Brown clayey gravelly sand. Gravel of fine to coarse sub angular to angular flint, chalk and brick).

550-1000: Structureless CHALK recovered as damp off white, slightly gravelly CLAY. Gravel is of fine to coarse grained, medium to high density, weak off white chalk set in a putty matrix.

Remarks:

All dimensions in millimetres. Samples at 0.20 m & 0.75 m. Unable to excavate deeper due to density of chalk. No groundwater encountered, trial pit backfilled with arisings. Base of foundation not exposed >1.00 m deep.

Scale:

NTS

Logged by:

JB

Site: Hexagon Theatre, Reading, RG1 7QF

Client Reading Borough Council

Engineer Momentum Engineering

Job Number

J23282

Sheet

1 of 1

Dates

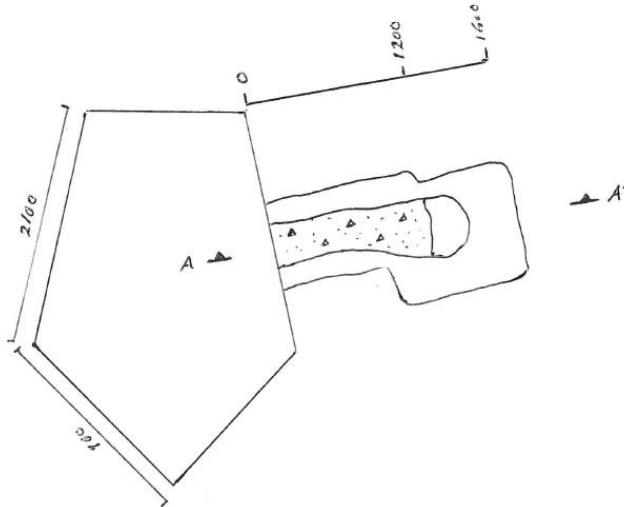
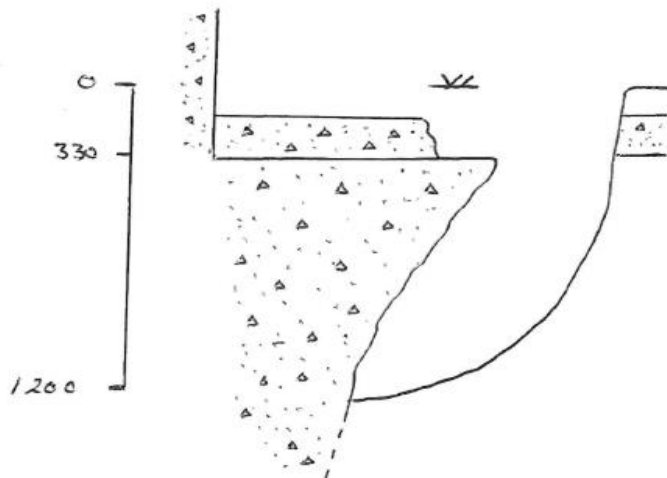
24/11/2023

Excavation Method

Manual

Dimensions

As per drawing (mm)

Ground Level (mOD)
Location
Plan view:

Section line A-A' :

Soil log (mm):

0-45: Paving slabs.

45-100: MADE GROUND. (Yellow sand).

100-230: CONCRETE.

230-350: MADE GROUND. (Brownish yellow and white gravelly clay. Gravel consists of fine to coarse sub angular flint and chalk.

350-1200: Structureless CHALK recovered as damp off white, slightly gravelly CLAY. Gravel is of fine to coarse grained, medium to high density, weak off white chalk set in a putty matrix.

Remarks:

All dimensions in millimetres. Samples at 0.25 m & 0.80 m.

No groundwater encountered, trial pit backfilled with arisings. Base of foundation not exposed >1.20 m deep.

Scale:

NTS

Logged by:

JB

Site: Hexagon Theatre, Reading, RG1 7QF

Client Reading Borough Council

Engineer Momentum Engineering

Job Number

J23282

Sheet

1 of 1

Dates

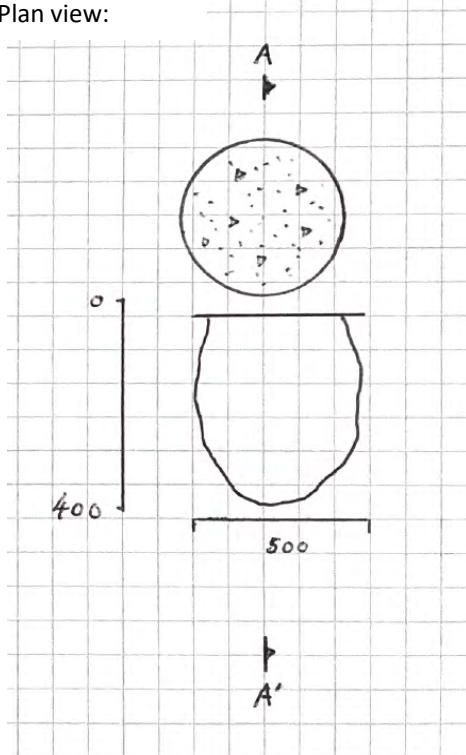
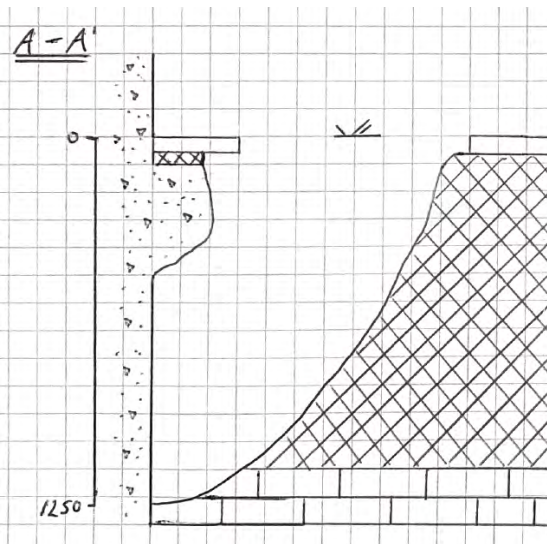
19/01/2024

Excavation Method

Manual

Dimensions

As per drawing (mm)

Ground Level (mOD)
Location
Plan view:

Section line A-A' :

Soil log (mm):

0-50: Concrete slabs.

50-100: MADE GROUND. (Yellowish brown sand).

100-1100: MADE GROUND. (Brown gravelly sand. Gravel of fine to coarse sub angular to angular flint, brick and C concrete).

100-1250: Structureless CHALK recovered as damp off white, slightly gravelly CLAY. Gravel is of fine to coarse grained, medium to high density, weak off white chalk set in a putty matrix.

Remarks:

All dimensions in millimetres.

No groundwater encountered, trial pit backfilled with arisings. Base of foundation not exposed >1.25 m deep.

Scale:

NTS

Logged by:

JB

			Geotechnical & Environmental Associates www.gea-ltd.co.uk			Insitu DCP Test Results		
SiteHexagon Theatre, Queens Walk, Reading, RG1 7QF						Job Number J23282		
ClientReading Borough Council						Sheet		
EngineerMomentum Engineering						1 / 1'		
CBR 1 - 0.062 m to 0.400 m								
Test No 1			Test No 1					
Blows No.	Penetration mm	Equivalent CBR %	Blows No.	Penetration mm	Equivalent CBR %			
1	62	3	27	370	6			
2	121	3	29	382	39			
3	129	28	34	383	1749			
4	131	133	39	385	805			
9	142	119	44	392	198			
11	165	19	64	400	805			
12	210	4						
13	223	16						
14	237	15						
15	241	61						
17	252	43						
19	272	22						
21	283	43						
23	300	26						
25	318	25						

			Geotechnical & Environmental Associates www.gea-ltd.co.uk			Insitu DCP Test Results		
Site	Hexagon Theatre, Queens Walk, Reading, RG1 7QF							Job Number J23282
Client	Reading Borough Council							Sheet 1 / 2
Engineer	Momentum Engineering							
CBR 2 - 0.042 m to 0.640 m								
Test No 1			Test No 1					
Blows No.	Penetration mm	Equivalent CBR %	Blows No.	Penetration mm	Equivalent CBR %			
1	42	4	21	320	6	116	460	4
2	73	6	26	330	133	121	470	133
3	93	10	31	335	288	126	473	511
4	121	7	36	340	288	131	500	44
5	145	8	41	352	108	136	509	149
6	170	8	46	365	99	141	520	119
7	176	39	51	371	235	146	530	133
8	199	9	56	380	149	156	543	215
9	210	20	61	384	370	166	574	81
10	223	16	66	387	511	171	584	133
11	237	15	76	392	627	176	600	78
13	256	23	86	407	183	181	617	73
15	293	11	96	410	1111	186	630	99
17	310	26	106	423	215	191	643	99
19	317	71	111	444	58	196	664	58

			Geotechnical & Environmental Associates www.gea-ltd.co.uk			Insitu DCP Test Results		
Site Hexagon Theatre, Queens Walk, Reading, RG1 7QF						Job Number J23282		
Client Reading Borough Council						Sheet 2 / 2		
Engineer Momentum Engineering								
CBR 2 - 0.640 m to 0.900 m								
Test No 1			Test No 1					
Blows No.	Penetration mm	Equivalent CBR %	Blows No.	Penetration mm	Equivalent CBR %			
196	683	1						
201	712	40						
206	737	48						
211	800	48						
214	817	17						
217	850	41						
220	880	20						
223	900	22						

			Geotechnical & Environmental Associates www.gea-ltd.co.uk			Insitu DCP Test Results		
Site	Hexagon Theatre, Queens Walk, Reading, RG1 7QF							Job Number J23282
Client	Reading Borough Council							Sheet 1 / 2
Engineer	Momentum Engineering							
CBR 3 - 0.043 m to 0.4110 m								
Test No 1			Test No 1					
Blows No.	Penetration mm	Equivalent CBR %	Blows No.	Penetration mm	Equivalent CBR %			
1	43	4	24	250	6	79	392	4
2	55	18	25	261	20	84	398	235
3	62	33	26	273	18	89	400	805
4	73	20	27	280	33	94	405	288
5	85	18	30	310	22	99	410	288
6	101	13	33	325	48	109	411	3802
7	113	18	36	333	96			
8	121	28	39	341	96			
9	130	25	44	355	91			
12	142	61	49	361	235			
15	150	96	54	371	133			
18	157	112	59	381	133			
21	202	14	64	385	370			
22	230	7	69	392	198			
23	236	39	74	398	235			

 Geotechnical & Environmental Associates www.gea-ltd.co.uk						Insitu DCP Test Results		
SiteHexagon Theatre, Queens Walk, Reading, RG1 7QF ClientReading Borough Council EngineerMomentum Engineering								Job Number J23282 Sheet 1 / 1'
CBR 4 - 0.065 m to 0.924 m								
Test No 1			Test No 1					
Blows No.	Penetration mm	Equivalent CBR %	Blows No.	Penetration mm	Equivalent CBR %			
1	65	3	22	384	6	63	630	4
3	114	8	23	392	28	66	665	18
5	122	61	24	412	10	69	700	18
7	131	54	25	425	16	72	730	22
9	140	54	26	440	14	75	796	9
11	145	103	27	450	22	78	810	51
13	165	22	28	455	48	81	857	13
14	203	5	31	467	61	84	903	14
15	232	7	34	478	67	86	925	20
16	260	7	37	485	112			
17	275	14	40	493	96			
18	290	14	45	510	73			
19	318	7	50	532	55			
20	345	7	55	560	42			
21	370	8	60	600	28			

			Geotechnical & Environmental Associates www.gea-ltd.co.uk			Insitu DCP Test Results		
Site	Hexagon Theatre, Queens Walk, Reading, RG1 7QF							Job Number J23282
Client	Reading Borough Council							Sheet
Engineer	Momentum Engineering							1 / 1'
CBR 5 - 0.095 m to 0.904 m								
Test No 1			Test No 1					
Blows No.	Penetration mm	Equivalent CBR %	Blows No.	Penetration mm	Equivalent CBR %			
1	95	2	26	459	6	101	785	4
2	187	2	31	467	170	104	810	27
3	232	4	36	483	78	107	825	48
4	265	6	41	497	91	110	847	31
5	300	5	46	506	149	113	875	24
6	335	5	51	513	198	116	904	23
7	342	33	56	526	99			
8	352	22	66	540	198			
9	362	22	76	578	65			
11	384	20	81	617	29			
13	396	39	86	635	69			
15	412	28	89	670	18			
17	413	627	92	780	5			
19	423	48	95	725				
21	444	21	98	770	14			



appendix b

Lab Testing

Geotechnical Test Results
SPT & Cohesion/Depth Graph
Chemical Test Results
Generic Risk Based Screening Values

GEOLABS Limited
Bucknalls Lane
Garston
Watford
Hertfordshire
WD25 9XX

Tel: +44(0) 1923 892 190
Fax: +44(0) 1923 892 191
email: admin@geolabs.co.uk
web: www.geolabs.co.uk

Geotechnical & Environmental Associates Limited

Widbury Barn
Widbury Hill
Ware
Hertfordshire
SG12 7QE

29 January 2024

Report No : GEO/39641/01

Page 1 of 1

For the attention of Mr J Bonnewell

Our ref **GEO / 39641**

Your Ref **J23282**

Project **HEXAGON THEATRE**

Date samples received 22/12/2023
Date written instructions received 09/01/2024
Date testing commenced 10/01/2024
Date of sample disposal 26/02/2024

Further to your instructions we have pleasure in enclosing the results of the tests you requested in the attached figures.

LABORATORY TEST REPORT

Item No	Test Quantity	Description
1	~	Geotechnical Test Summary
~	7	Water Content
2	1	Saturation Water Content

Any opinions or interpretations expressed herein are outside the scope of UKAS accreditation. All results contained in this report are provisional unless signed by an approved signatory. The results contained in this report relate only to samples received in the laboratory and are tested 'as received' unless otherwise stated. This report should not be reproduced, except in full, without the written approval of the laboratory. The results reported are applicable only to the test items received by the laboratory.

All the necessary data required by the documented test procedures has been recorded and will be stored for a period of not less than 6 years. This data will be issued to yourselves at your request. All samples will be disposed of after the date shown above. Written confirmation will be required to retain the samples beyond this period and a storage charge may be applied.

We trust that the above meets your requirements and should you require any further information or assistance, please do not hesitate to contact us.

Yours faithfully
on behalf of **GEOLABS Limited**



S Burke
Senior Technician



SUMMARY OF GEOTECHNICAL TESTING

Sample details					Classification Tests					Density Tests		Undrained Triaxial Compression				Chemical Tests			Other tests and comments
Location	Depth (m)	Sample Ref	Type	Description	WC	LL	PL	PI	<425 µm	Bulk	Dry	Condition	Cell Pressure	Deviator Stress	Shear Stress	pH	2:1 W/S SO4	W/S Mg	
					%	%	%	%	%	Mg/m³	Mg/m³		kPa	kPa	kPa		g/L	mg/L	
BH1	0.80	10	D	White structureless CHALK.	25.6														
BH1	1.80	12	D	White structureless CHALK.	25.8														
BH1	3.30	15	D	White structureless CHALK.	27.4														
BH1	4.80	18	D	White structureless CHALK.	33.0														
BH2	1.20	1	D	White structureless CHALK with small pockets of brown and orangish brown clay.	21.1														
BH2	2.40	3	D	White structureless CHALK.	25.3														
BH2	3.80	6	D	White structureless CHALK.	26.4														

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed)

Checked and Approved by



S Burke - Senior Technician
29/01/2024

Project Number:

GEO / 39641

Project Name:

HEXAGON THEATRE
J23282



GL Version 22.220908-1125

Tested by SB Checked and Approved by <i>S Burke</i> S Burke - Senior Technician 29/01/2024	Project Number: GEO / 39641 Project Name: HEXAGON THEATRE J23282	GEOLABS®
---	--	------------------------

		Client		Geotechnical & Environmental Associates Limited					TEST RESTRICTION	
		Project No.		39641						
		Project Name		HEXAGON THEATRE						
The following tests have been scheduled on the above project and <u>CANNOT</u> be performed for the reason stated. If alternative instructions or samples are available for the restricted tests, please supply details.										
Laboratory ID	Location	Sample Ref.	Depth (m)		Type	Test(s) Scheduled			Reason for Restriction	Description
613794	BH2	1	1.20		D	SMC			No suitable lump to carry out test.	Cream structureless CHALK.
613803	BH1	10	0.80		D	SMC			No suitable lump to carry out test.	Cream structureless CHALK.
613805	BH1	12	1.80		D	SMC			No suitable lump to carry out test.	Cream structureless CHALK.
613808	BH1	15	3.30		D	SMC			No suitable lump to carry out test.	Cream structureless CHALK.
613796	BH2	3	2.40		D	SMC			No suitable lump to carry out test.	Cream structureless CHALK.
506284										Cream structureless CHALK.
Comments / remarks										Test restriction raised by 

 GEA		Geotechnical & Environmental Associates www.gea-ltd.co.uk		Generic Risk-Based Soil Screening Values																																																																																																																																																																																																																																					
SiteHexagon Theatre, Queens Walk, Reading, RG1 7QF				Job Number J23282																																																																																																																																																																																																																																					
ClientReading Borough Council				Sheet 1 / 2																																																																																																																																																																																																																																					
EngineerMomentum Engineering																																																																																																																																																																																																																																									
Proposed End Use Commercial																																																																																																																																																																																																																																									
Soil Organic Matter content % 2.5																																																																																																																																																																																																																																									
<table><tr><th>Contaminant</th><th>Screening Value mg/kg</th><th>Data Source</th></tr><tr><td colspan="3">Metals</td></tr><tr><td>Arsenic</td><td>640</td><td>C4SL</td></tr><tr><td>Cadmium</td><td>410</td><td>C4SL</td></tr><tr><td>Chromium (III)</td><td>8600</td><td>S4UL</td></tr><tr><td>Chromium (VI)</td><td>49</td><td>C4SL</td></tr><tr><td>Copper</td><td>68,000</td><td>S4UL</td></tr><tr><td>Lead</td><td>2330</td><td>C4SL</td></tr><tr><td>Elemental Mercury</td><td>26</td><td>S4UL</td></tr><tr><td>Inorganic Mercury</td><td>1100</td><td>S4UL</td></tr><tr><td>Nickel</td><td>980</td><td>S4UL</td></tr><tr><td>Selenium</td><td>13000</td><td>SGV</td></tr><tr><td>Zinc</td><td>730,000</td><td>S4UL</td></tr><tr><td colspan="3">Anions</td></tr><tr><td>Soluble Sulphate</td><td>500 mg/l</td><td>Structures</td></tr><tr><td>Sulphide</td><td>50</td><td>Structures</td></tr><tr><td>Chloride</td><td>400</td><td>Structures</td></tr><tr><td colspan="3">Others</td></tr><tr><td>Organic Carbon (%)</td><td>10</td><td>Methanogenic potential</td></tr><tr><td>Total Cyanide</td><td>12000</td><td>WRAS</td></tr><tr><td>Total Mono Phenols</td><td>3200</td><td>SGV</td></tr><tr><td colspan="3">PAH</td></tr><tr><td>Naphthalene</td><td>460.00</td><td>S4UL</td></tr><tr><td>Acenaphthylene</td><td>97,000</td><td>S4UL</td></tr><tr><td>Acenaphthene</td><td>97,000</td><td>S4UL</td></tr><tr><td>Fluorene</td><td>68,000</td><td>S4UL</td></tr><tr><td>Phenanthrene</td><td>22,000</td><td>S4UL</td></tr><tr><td>Anthracene</td><td>540,000</td><td>S4UL</td></tr><tr><td>Fluoranthene</td><td>23,000</td><td>S4UL</td></tr><tr><td>Pyrene</td><td>54,000</td><td>S4UL</td></tr><tr><td>Benzo(a)anthracene</td><td>170.0</td><td>S4UL</td></tr><tr><td>Chrysene</td><td>350</td><td>S4UL</td></tr><tr><td>Benzo(b)fluoranthene</td><td>44.0</td><td>S4UL</td></tr><tr><td>Benzo(k)fluoranthene</td><td>1,200.0</td><td>S4UL</td></tr><tr><td>Benzo(a)pyrene</td><td>42.40</td><td>C4SL</td></tr><tr><td>Indeno(1 2 3 cd)pyrene</td><td>510.0</td><td>S4UL</td></tr><tr><td>Dibenz(a h)anthracene</td><td>3.60</td><td>S4UL</td></tr><tr><td>Benzo (g h i)perylene</td><td>4,000</td><td>S4UL</td></tr><tr><td>Total PAH Screen</td><td>605.7</td><td>B(a)P / 0.15</td></tr></table>			Contaminant	Screening Value mg/kg	Data Source	Metals			Arsenic	640	C4SL	Cadmium	410	C4SL	Chromium (III)	8600	S4UL	Chromium (VI)	49	C4SL	Copper	68,000	S4UL	Lead	2330	C4SL	Elemental Mercury	26	S4UL	Inorganic Mercury	1100	S4UL	Nickel	980	S4UL	Selenium	13000	SGV	Zinc	730,000	S4UL	Anions			Soluble Sulphate	500 mg/l	Structures	Sulphide	50	Structures	Chloride	400	Structures	Others			Organic Carbon (%)	10	Methanogenic potential	Total Cyanide	12000	WRAS	Total Mono Phenols	3200	SGV	PAH			Naphthalene	460.00	S4UL	Acenaphthylene	97,000	S4UL	Acenaphthene	97,000	S4UL	Fluorene	68,000	S4UL	Phenanthrene	22,000	S4UL	Anthracene	540,000	S4UL	Fluoranthene	23,000	S4UL	Pyrene	54,000	S4UL	Benzo(a)anthracene	170.0	S4UL	Chrysene	350	S4UL	Benzo(b)fluoranthene	44.0	S4UL	Benzo(k)fluoranthene	1,200.0	S4UL	Benzo(a)pyrene	42.40	C4SL	Indeno(1 2 3 cd)pyrene	510.0	S4UL	Dibenz(a h)anthracene	3.60	S4UL	Benzo (g h i)perylene	4,000	S4UL	Total PAH Screen	605.7	B(a)P / 0.15	<table><tr><th>Contaminant</th><th>Screening Value mg/kg</th><th>Data Source</th></tr><tr><td colspan="3">Hydrocarbons</td></tr><tr><td>Banded TPH (8-10)</td><td>12462</td><td>Calc1</td></tr><tr><td>Banded TPH (10-12)</td><td>43077</td><td>Calc1</td></tr><tr><td>Banded TPH (12-16)</td><td>56923</td><td>Calc1</td></tr><tr><td>Banded TPH (16-21)</td><td>43077</td><td>Calc1</td></tr><tr><td>Banded TPH (21-35)</td><td>43077</td><td>Calc1</td></tr><tr><td>Benzene</td><td>50</td><td>C4SL</td></tr><tr><td>Toluene</td><td>2200</td><td>SGV</td></tr><tr><td>Ethyl Benzene</td><td>48000</td><td>SGV</td></tr><tr><td>Xylene</td><td>1300</td><td>SGV</td></tr><tr><td>Aliphatic C5-C6</td><td>5900</td><td>S4UL</td></tr><tr><td>Aliphatic C6-C8</td><td>17000</td><td>S4UL</td></tr><tr><td>Aliphatic C8-C10</td><td>4800</td><td>S4UL</td></tr><tr><td>Aliphatic C10-C12</td><td>23000</td><td>S4UL</td></tr><tr><td>Aliphatic C12-C16</td><td>82000</td><td>S4UL</td></tr><tr><td>Aliphatic C16-C35</td><td>1,700,000</td><td>S4UL</td></tr><tr><td>Aromatic C6-C7</td><td>See Benzene</td><td>S4UL</td></tr><tr><td>Aromatic C7-C8</td><td>See Toluene</td><td>S4UL</td></tr><tr><td>Aromatic C8-C10</td><td>8100</td><td>S4UL</td></tr><tr><td>Aromatic C10-C12</td><td>28000</td><td>S4UL</td></tr><tr><td>Aromatic C12-C16</td><td>37000</td><td>S4UL</td></tr><tr><td>Aromatic C16-C21</td><td>28000</td><td>S4UL</td></tr><tr><td>Aromatic C21-C35</td><td>28000</td><td>S4UL</td></tr><tr><td>PRO (C₅ –C₁₀)</td><td>38050</td><td>Calc2</td></tr><tr><td>DRO (C₁₂ –C₂₈)</td><td>1,847,000</td><td>Calc2</td></tr><tr><td>Lube Oil (C₂₈ –C₄₄)</td><td>1,728,000</td><td>Calc2</td></tr><tr><td>TPH</td><td>750</td><td>Trigger to consider speciated testing</td></tr><tr><td colspan="3">Chlorinated Solvents</td></tr><tr><td>1,1,1 trichloroethane (TCA)</td><td>1300</td><td>S4UL</td></tr><tr><td>tetrachloroethane (PCA)</td><td>250</td><td>S4UL</td></tr><tr><td>tetrachloroethene (PCE)</td><td>55</td><td>C4SL</td></tr><tr><td>trichloroethene (TCE)</td><td>1.5</td><td>C4SL</td></tr><tr><td>1,2-dichloroethane (DCA)</td><td>17</td><td>C4SL</td></tr><tr><td>vinyl chloride (Chloroethene)</td><td>1.4</td><td>C4SL</td></tr><tr><td>tetrachloromethane (Carbon tetra</td><td>6.3</td><td>S4UL</td></tr><tr><td>trichloromethane (Chloroform)</td><td>170</td><td>S4UL</td></tr></table>			Contaminant	Screening Value mg/kg	Data Source	Hydrocarbons			Banded TPH (8-10)	12462	Calc1	Banded TPH (10-12)	43077	Calc1	Banded TPH (12-16)	56923	Calc1	Banded TPH (16-21)	43077	Calc1	Banded TPH (21-35)	43077	Calc1	Benzene	50	C4SL	Toluene	2200	SGV	Ethyl Benzene	48000	SGV	Xylene	1300	SGV	Aliphatic C5-C6	5900	S4UL	Aliphatic C6-C8	17000	S4UL	Aliphatic C8-C10	4800	S4UL	Aliphatic C10-C12	23000	S4UL	Aliphatic C12-C16	82000	S4UL	Aliphatic C16-C35	1,700,000	S4UL	Aromatic C6-C7	See Benzene	S4UL	Aromatic C7-C8	See Toluene	S4UL	Aromatic C8-C10	8100	S4UL	Aromatic C10-C12	28000	S4UL	Aromatic C12-C16	37000	S4UL	Aromatic C16-C21	28000	S4UL	Aromatic C21-C35	28000	S4UL	PRO (C ₅ –C ₁₀)	38050	Calc2	DRO (C ₁₂ –C ₂₈)	1,847,000	Calc2	Lube Oil (C ₂₈ –C ₄₄)	1,728,000	Calc2	TPH	750	Trigger to consider speciated testing	Chlorinated Solvents			1,1,1 trichloroethane (TCA)	1300	S4UL	tetrachloroethane (PCA)	250	S4UL	tetrachloroethene (PCE)	55	C4SL	trichloroethene (TCE)	1.5	C4SL	1,2-dichloroethane (DCA)	17	C4SL	vinyl chloride (Chloroethene)	1.4	C4SL	tetrachloromethane (Carbon tetra	6.3	S4UL	trichloromethane (Chloroform)	170	S4UL
Contaminant	Screening Value mg/kg	Data Source																																																																																																																																																																																																																																							
Metals																																																																																																																																																																																																																																									
Arsenic	640	C4SL																																																																																																																																																																																																																																							
Cadmium	410	C4SL																																																																																																																																																																																																																																							
Chromium (III)	8600	S4UL																																																																																																																																																																																																																																							
Chromium (VI)	49	C4SL																																																																																																																																																																																																																																							
Copper	68,000	S4UL																																																																																																																																																																																																																																							
Lead	2330	C4SL																																																																																																																																																																																																																																							
Elemental Mercury	26	S4UL																																																																																																																																																																																																																																							
Inorganic Mercury	1100	S4UL																																																																																																																																																																																																																																							
Nickel	980	S4UL																																																																																																																																																																																																																																							
Selenium	13000	SGV																																																																																																																																																																																																																																							
Zinc	730,000	S4UL																																																																																																																																																																																																																																							
Anions																																																																																																																																																																																																																																									
Soluble Sulphate	500 mg/l	Structures																																																																																																																																																																																																																																							
Sulphide	50	Structures																																																																																																																																																																																																																																							
Chloride	400	Structures																																																																																																																																																																																																																																							
Others																																																																																																																																																																																																																																									
Organic Carbon (%)	10	Methanogenic potential																																																																																																																																																																																																																																							
Total Cyanide	12000	WRAS																																																																																																																																																																																																																																							
Total Mono Phenols	3200	SGV																																																																																																																																																																																																																																							
PAH																																																																																																																																																																																																																																									
Naphthalene	460.00	S4UL																																																																																																																																																																																																																																							
Acenaphthylene	97,000	S4UL																																																																																																																																																																																																																																							
Acenaphthene	97,000	S4UL																																																																																																																																																																																																																																							
Fluorene	68,000	S4UL																																																																																																																																																																																																																																							
Phenanthrene	22,000	S4UL																																																																																																																																																																																																																																							
Anthracene	540,000	S4UL																																																																																																																																																																																																																																							
Fluoranthene	23,000	S4UL																																																																																																																																																																																																																																							
Pyrene	54,000	S4UL																																																																																																																																																																																																																																							
Benzo(a)anthracene	170.0	S4UL																																																																																																																																																																																																																																							
Chrysene	350	S4UL																																																																																																																																																																																																																																							
Benzo(b)fluoranthene	44.0	S4UL																																																																																																																																																																																																																																							
Benzo(k)fluoranthene	1,200.0	S4UL																																																																																																																																																																																																																																							
Benzo(a)pyrene	42.40	C4SL																																																																																																																																																																																																																																							
Indeno(1 2 3 cd)pyrene	510.0	S4UL																																																																																																																																																																																																																																							
Dibenz(a h)anthracene	3.60	S4UL																																																																																																																																																																																																																																							
Benzo (g h i)perylene	4,000	S4UL																																																																																																																																																																																																																																							
Total PAH Screen	605.7	B(a)P / 0.15																																																																																																																																																																																																																																							
Contaminant	Screening Value mg/kg	Data Source																																																																																																																																																																																																																																							
Hydrocarbons																																																																																																																																																																																																																																									
Banded TPH (8-10)	12462	Calc1																																																																																																																																																																																																																																							
Banded TPH (10-12)	43077	Calc1																																																																																																																																																																																																																																							
Banded TPH (12-16)	56923	Calc1																																																																																																																																																																																																																																							
Banded TPH (16-21)	43077	Calc1																																																																																																																																																																																																																																							
Banded TPH (21-35)	43077	Calc1																																																																																																																																																																																																																																							
Benzene	50	C4SL																																																																																																																																																																																																																																							
Toluene	2200	SGV																																																																																																																																																																																																																																							
Ethyl Benzene	48000	SGV																																																																																																																																																																																																																																							
Xylene	1300	SGV																																																																																																																																																																																																																																							
Aliphatic C5-C6	5900	S4UL																																																																																																																																																																																																																																							
Aliphatic C6-C8	17000	S4UL																																																																																																																																																																																																																																							
Aliphatic C8-C10	4800	S4UL																																																																																																																																																																																																																																							
Aliphatic C10-C12	23000	S4UL																																																																																																																																																																																																																																							
Aliphatic C12-C16	82000	S4UL																																																																																																																																																																																																																																							
Aliphatic C16-C35	1,700,000	S4UL																																																																																																																																																																																																																																							
Aromatic C6-C7	See Benzene	S4UL																																																																																																																																																																																																																																							
Aromatic C7-C8	See Toluene	S4UL																																																																																																																																																																																																																																							
Aromatic C8-C10	8100	S4UL																																																																																																																																																																																																																																							
Aromatic C10-C12	28000	S4UL																																																																																																																																																																																																																																							
Aromatic C12-C16	37000	S4UL																																																																																																																																																																																																																																							
Aromatic C16-C21	28000	S4UL																																																																																																																																																																																																																																							
Aromatic C21-C35	28000	S4UL																																																																																																																																																																																																																																							
PRO (C ₅ –C ₁₀)	38050	Calc2																																																																																																																																																																																																																																							
DRO (C ₁₂ –C ₂₈)	1,847,000	Calc2																																																																																																																																																																																																																																							
Lube Oil (C ₂₈ –C ₄₄)	1,728,000	Calc2																																																																																																																																																																																																																																							
TPH	750	Trigger to consider speciated testing																																																																																																																																																																																																																																							
Chlorinated Solvents																																																																																																																																																																																																																																									
1,1,1 trichloroethane (TCA)	1300	S4UL																																																																																																																																																																																																																																							
tetrachloroethane (PCA)	250	S4UL																																																																																																																																																																																																																																							
tetrachloroethene (PCE)	55	C4SL																																																																																																																																																																																																																																							
trichloroethene (TCE)	1.5	C4SL																																																																																																																																																																																																																																							
1,2-dichloroethane (DCA)	17	C4SL																																																																																																																																																																																																																																							
vinyl chloride (Chloroethene)	1.4	C4SL																																																																																																																																																																																																																																							
tetrachloromethane (Carbon tetra	6.3	S4UL																																																																																																																																																																																																																																							
trichloromethane (Chloroform)	170	S4UL																																																																																																																																																																																																																																							
Notes																																																																																																																																																																																																																																									
Concentrations measured below these screening values may be considered to represent 'uncontaminated conditions' which pose a 'LOW' risk to human health. Concentrations measured in excess of these values indicate a potential risk which require further, site specific risk assessment.																																																																																																																																																																																																																																									
C4SL - Defra Category 4 Screening value based on Low Level of Toxicological Risk																																																																																																																																																																																																																																									
SGV - Soil Guideline Value, derived from the CLEA model and published by Environment Agency 2009 - where not superseded by C4SL																																																																																																																																																																																																																																									
S4UL - LQM/CIEH Suitable for use Level (2015) based on 'minimal' level of risk																																																																																																																																																																																																																																									
Calc1 - sum of thresholds for Ali & Aro fractions - assuming a 35% Aro:65% Ali ratio as is commonly encountered in the soil																																																																																																																																																																																																																																									
Calc2 - sum of nearest available carbon range specified including BTEX for PRO fraction																																																																																																																																																																																																																																									
Total PAH based on B(a)P / 0.15 - GEA experience indicates that Benzo(a) pyrene rarely exceeds 15% of the total PAH concentration																																																																																																																																																																																																																																									

 GEA Geotechnical & Environmental Associates www.gea-ltd.co.uk		Generic Risk-Based Soil Screening Values	
Site	Hexagon Theatre, Queens Walk, Reading, RG1 7QF		Job Number J23282
Client	Reading Borough Council		Sheet 2 / 2
Engineer	Momentum Engineering		
Proposed End Use Commercial			
The key generic assumptions for this end use are as follows; ☐ that groundwater will not be a critical risk receptor; ☐ that the critical receptor for human health will be a working female aged 16 to 65 years old; ☐ that the exposure duration will be 49 years; ☐ that the building type equates to a three-storey office. ☐ that the critical exposure pathways will be direct soil and indoor dust ingestion, skin contact with soils and dust, and inhalation of dust and vapours; Where contaminant concentrations are measured at concentrations below the generic screening value it is considered that they pose an acceptable level of risk and thus further consideration of these contaminant concentrations is not required. However, where concentrations are measured in excess of the generic screening value there is considered to be a potential that they could pose an unacceptable risk and thus further action will be required which could include: ☐ additional testing to zone the extent of the contaminated material and thus reduce the uncertainty with regard to its potential risk; ☐ site specific risk assessment to refine the assessment criteria and allow an assessment to be made as to whether the concentration present would pose an unacceptable risk at this site; or ☐ soil remediation or risk management to mitigate the risk posed by the contaminant to a degree that it poses an acceptable risk.			



Jack Bonnewell
Geotechnical & Environmental Associates
Widbury Barn
Widbury Hill
Ware
Hertfordshire
SG127QE

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

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

e: jack@gea-ltd.co.uk

Analytical Report Number : 23-75665

Project / Site name:	Hexagon Theatre	Samples received on:	14/12/2023
Your job number:	J23282	Samples instructed on / Analysis started on:	19/12/2023
Your order number:		Analysis completed by:	28/12/2023
Report Issue Number:	1	Report issued on:	28/12/2023
Samples Analysed:	3 soil samples		

Signed: 

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

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

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

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

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

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.

Analytical Report Number: 23-75665
Project / Site name: Hexagon Theatre

Lab Sample Number				2915352	2915353	2915354
Sample Reference				BH1	BH2	BH3
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.40	0.80
Date Sampled				11/12/2023	11/12/2023	11/12/2023
Time Taken				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
Moisture Content	%	0.01	NONE	11	12	12
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	JBH	JBH	JBH

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.5	10.5	8.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	790	3200	590
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0921	0.224	0.18
Sulphide	mg/kg	1	MCERTS	5	14	8.4
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	14	23	12
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2	1.4	1.6

Total Phenols

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

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.09	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.19	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.21	0.07	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.14	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.9	0.48	0.18
Anthracene	mg/kg	0.05	MCERTS	0.41	0.15	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	3.7	1.3	0.28
Pyrene	mg/kg	0.05	MCERTS	3.1	1.3	0.27
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.5	0.7	0.11
Chrysene	mg/kg	0.05	MCERTS	1.8	0.77	0.17
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2	1.1	0.19
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1	0.54	0.08
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.8	0.98	0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.89	0.52	0.07
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.24	0.14	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.96	0.56	0.1

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	19.9	8.57	1.55
-----------------------------	-------	-----	-----------	------	------	------

Analytical Report Number: 23-75665
Project / Site name: Hexagon Theatre

Lab Sample Number	2915352	2915353	2915354
Sample Reference	BH1	BH2	BH2
Sample Number	None Supplied	None Supplied	None Supplied
Depth (m)	0.20	0.40	0.80
Date Sampled	11/12/2023	11/12/2023	11/12/2023
Time Taken	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	11	6.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	< 0.2	0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	15	16	14
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	15	13
Lead (aqua regia extractable)	mg/kg	1	MCERTS	56	38	38
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9.2	11	6.3
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	99	290	47

Petroleum Hydrocarbons

TPH C10 - C40 _{EH, CU, 1D, TOTAL}	mg/kg	10	MCERTS	230	160	< 10
TPH (C8 - C10) _{HS, 1D, TOTAL}	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0
TPH (C10 - C12) _{EH, CU, 1D, TOTAL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH (C12 - C16) _{EH, CU, 1D, TOTAL}	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0
TPH (C16 - C21) _{EH, CU, 1D, TOTAL}	mg/kg	10	MCERTS	< 10	13	< 10
TPH (C21 - C35) _{EH, CU, 1D, TOTAL}	mg/kg	10	MCERTS	120	84	< 10
TPH Total C8 - C35 _{EH, CU+HS, 1D, TOTAL}	mg/kg	10	NONE	120	97	< 10

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

Analytical Report Number : 23-75665
Project / Site name: Hexagon Theatre

* 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 *
2915352	BH1	None Supplied	0.2	Brown loam with gravel and vegetation.
2915353	BH2	None Supplied	0.4	Brown loam with gravel and vegetation.
2915354	BH2	None Supplied	0.8	Brown loam with gravel and vegetation.

Analytical Report Number : 23-75665
Project / Site name: Hexagon Theatre

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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
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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-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
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. Refer to CoA for analyte specific accreditation.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
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
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
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
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
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
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
TPH Banding in Soil by FID	Determination of hexane extractable hydrocarbons in soil by GC-FID.	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

Analytical Report Number : 23-75665
Project / Site name: Hexagon Theatre

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

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

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

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Sample Deviation Report



Analytical Report Number : 23-75665

Project / Site name: Hexagon Theatre

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

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

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH1	None Supplied	S	2915352	c	Sulphide in soil	L010-PL	c
BH1	None Supplied	S	2915352	c	Total cyanide in soil	L080-PL	c
BH2	None Supplied	S	2915353	c	Sulphide in soil	L010-PL	c
BH2	None Supplied	S	2915353	c	Total cyanide in soil	L080-PL	c
BH3	None Supplied	S	2915354	c	Sulphide in soil	L010-PL	c
BH3	None Supplied	S	2915354	c	Total cyanide in soil	L080-PL	c



appendix c

Desk Study

Risk Assessment Tables
Envirocheck Extracts
Historical Maps
UXO Preliminary Risk Assessment

The Hexagon Theatre, Queens Walk Reading RG1 7QF
Desk Study and Ground Investigation Report
For Reading Borough Council

appendix c

**Classification of Consequence**

Classification	Definition	Examples
Severe (4)	Short term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Catastrophic damage to buildings / property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definitions of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to short-term human health risk if buildings are occupied).
Medium (3)	Chronic damage to Human Health ("significant harm" as defined in DETR, 2000). Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution). A significant change in a particular ecosystem, or organism forming part of such ecosystem (note: the definitions of ecological systems within Draft Circular on Contaminated Land, DETR, 2000).	Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer Death of a species within a designated nature reserve.
Mild (2)	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ("significant harm" as defined in the Draft Circular of Contaminated Land, DETR, 2000). Damage to sensitive buildings / structures / services or the environment.	Pollution of non-classified groundwater Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor (1)	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discolouration of concrete.

Classification of Probability

Classification	Probability
High likelihood (4)	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely (3)	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low likelihood (2)	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such an event would take place, and is less likely in the shorter term.
Unlikely (1)	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

		Risk Assessment Matrix			
		Consequence			
		Severe	Medium	Mild	Minor
Probability	High likelihood	Very high risk (16)	High risk (12)	Moderate risk (8)	Moderate / low risk (4)
	Likely	High risk (12)	Moderate risk (9)	Moderate / low risk (6)	Low risk (3)
	Low likelihood	Moderate risk (8)	Moderate / low risk	Low risk (3)	Very low risk (2)
	Unlikely	Moderate / low risk (4)	Low risk (3)	Very low risk (2)	Very low risk (1)

	Description of the assessed risks and likely action required
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 undertaken already) 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 undertaken already) is required and remedial 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 relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low 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 a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

325443622_1_1

Customer Reference:

J23282

National Grid Reference:

471120, 173270

Slice:

A

Site Area (Ha):

0.48

Search Buffer (m):

1000

Site Details:

The Hexagon, Queens Walk

READING

RG1 7QF

Client Details:

Mr S Branch

GEA Ltd

Widbury Barn

Widbury Hill

Ware

Herts

SG12 7QE

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	46
Hazardous Substances	-
Geological	49
Industrial Land Use	72
Sensitive Land Use	127
Data Currency	128
Data Suppliers	134
Useful Contacts	135

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.

Copyright Notice

© Landmark Information Group Limited 2023. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.

A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

© Environment Agency & United Kingdom Research and Innovation 2023. © Natural Resources Wales & United Kingdom Research and Innovation 2023.

Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

Scottish Natural Heritage Copyright

Contains SNH information licensed under the Open Government Licence v3.0.

Ove Arup Copyright Notice

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Stantec Copyright Notice

The cavity data presented has been extracted from the PBA (now Stantec UK Ltd) enhanced version of the original DEFRA national cavity databases. Stantec UK Ltd retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by Stantec UK Ltd. In no event shall Stantec UK Ltd or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Natural Resources Wales Copyright Notice

Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved. Contains Ordnance Survey Data. Ordnance Survey Licence number 100019741. Crown Copyright and Database Right. Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved. Some features of this information are based on digital spatial data licensed from the Centre for Ecology & Hydrology © NERC (CEH). Defra, Met Office and DARD Rivers Agency © Crown copyright. © Cranfield University. © James Hutton Institute. Contains OS data © Crown copyright and database right 2023. Land & Property Services © Crown copyright and database right.

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	pg 1				1
Discharge Consents	pg 1		3	2	26
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 9		1	1	8
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 11		Yes		
Pollution Incidents to Controlled Waters	pg 11		7	18	66
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 26				5
River Quality	pg 27			1	2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 28			1	
Substantiated Pollution Incident Register	pg 28				2
Water Abstractions	pg 29		1	2	8 (*22)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 37	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 37	1	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 37	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 37	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 37		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 37		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 38		9	20	39

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 46				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 46				3
Local Authority Landfill Coverage	pg 46	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 46				6
Potentially Infilled Land (Water)	pg 47			5	11
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 48				1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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 49	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 49	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 50		1	26	17
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	pg 57	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 58		4	8	21
Natural Cavities	pg 63		14	15	14
Non Coal Mining Areas of Great Britain	pg 69	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 70	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 70		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 70	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 70	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 70	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 71		Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 71	Yes	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 72		28	98	283
Fuel Station Entries	pg 106		1	1	6
Points of Interest - Commercial Services	pg 107			45	71
Points of Interest - Education and Health	pg 116				7
Points of Interest - Manufacturing and Production	pg 117		3	5	43
Points of Interest - Public Infrastructure	pg 121		3	12	32
Points of Interest - Recreational and Environmental	pg 125			2	11
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 127		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	A13NE (S)	0	1	471119 173268
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	83	1	471000 173250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	101	1	471000 173200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	181	1	470900 173250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	227	1	471119 173000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	284	1	471350 173500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	301	1	470900 173000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	327	1	471119 172900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	486	1	471500 172900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	487	1	471000 172750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	490	1	471450 172850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	492	1	471550 172950
1	Contaminated Land Register Entries and Notices Location: George Street Allotments, George Street, Reading, Rg1 7nt Notice Type: Remediation Statement - Remediation Work Completed Reference: Not Supplied Dated: 23rd February 2011 Positional Accuracy: Manually positioned to the address or location Boundary Quality: Good	A17SE (NW)	677	2	470531 173688
2	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Reading, Vastern Roadreadingvastern Road Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1779 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 31st March 1997 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	245	3	471000 173002

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Reading, Bennet Roadreadingbennet Road Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1767 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 13th October 2015 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holly Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	246	3	471000 173001
2	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Reading, Bennet Roadreadingbennet Road Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1767 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: Holly Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	246	3	471000 173001
3	Discharge Consents Operator: Geoffrey Osbourne Building Ltd Property Type: Undefined Or Other Location: 17/23 King Street, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.3315 Permit Version: 1 Effective Date: 12th June 1989 Issued Date: 12th June 1989 Revocation Date: 27th June 1991 Discharge Type: Unknown Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A14NW (E)	444	3	471600 173300
4	Discharge Consents Operator: H&G Simmonds Ltd, The Brewery, Reading, Berks Property Type: MAKING OF BEVERAGES/BREWERIES/SOFT DRINKS Location: The Brewery, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctrc.0211 Permit Version: 1 Effective Date: 19th December 1955 Issued Date: 19th December 1955 Revocation Date: 12th June 1990 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: Kennet Status: Authorisation revoked Positional Accuracy: Manually corrected supplier location	A14SW (E)	446	3	471600 173200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Factory Premises, Kings Road, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0294 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revoked Positional Accuracy: Manually corrected supplier location	A14NW (E)	589	3	471700 173500
6	Discharge Consents Operator: Reading Transport Ltd. Property Type: LAND TRANSPORT + VIA PIPELINES/FREIGHT Location: Reading Berkshire Rg1 7hp Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CATM.3308 Permit Version: 1 Effective Date: 6th July 1998 Issued Date: 6th July 1998 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Abattoir Ditch Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A18SW (N)	618	3	470880 173880
7	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Premises, Kings Rd, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0296 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revoked Positional Accuracy: Manually corrected supplier location	A14NE (E)	644	3	471800 173300
7	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Premises, Kings Rd, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0295 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revoked Positional Accuracy: Manually corrected supplier location	A14NE (E)	644	3	471800 173300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Premises, Kings Rd, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0297 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revoked Positional Accuracy: Manually corrected supplier location	A14NE (E)	644	3	471800 173300
7	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Premises, Kings Rd, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0298 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revoked Positional Accuracy: Manually corrected supplier location	A14NE (E)	644	3	471800 173300
7	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Premises, Kings Rd, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0299 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revoked Positional Accuracy: Manually corrected supplier location	A14NE (E)	644	3	471800 173300
7	Discharge Consents Operator: Huntley & Palmers Ltd, King'S Road, Reading, Berks Property Type: Undefined Or Other Location: Factory At Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cctr.0508 Permit Version: 1 Effective Date: 22nd March 1962 Issued Date: 22nd March 1962 Revocation Date: 3rd April 1987 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: Kennet Status: Authorisation revoked Positional Accuracy: Manually corrected supplier location	A14NE (E)	644	3	471800 173300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Reading Transport Ltd. Property Type: LAND TRANSPORT + VIA PIPELINES/FREIGHT Location: Reading Berkshire Rg1 7hp Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CATM.3307 Permit Version: 1 Effective Date: 6th July 1998 Issued Date: 6th July 1998 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Abattoir Ditch Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	660	3	470780 173880
9	Discharge Consents Operator: Network Rail Infrastructure Limited Property Type: GROUNDWATER REMEDIATION SITES/CIVIL ENGINEERING Location: Cow Lane Bridge Cow Lane Reading Berkshire Rg1 8na Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Eprhb3597rh Permit Version: 1 Effective Date: 1st June 2018 Issued Date: 10th May 2018 Revocation Date: 31st July 2019 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of River Thames Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	732	3	470595 173839
10	Discharge Consents Operator: The Occupier Property Type: Undefined Or Other Location: Storage Yard, 5/9 Berkeley Avenue, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctwc.2914 Permit Version: 1 Effective Date: 1st December 1988 Issued Date: 1st December 1988 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Alluvium Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A8SE (S)	765	3	471350 172500
11	Discharge Consents Operator: John Graham Construction Limited Property Type: CONSTRUCTION OF BUILDINGS Location: Dewatering Works Serv Kings House Kings House 33 Kings Road Reading Berkshire Rg1 3bu Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Eprdb3097al Permit Version: 1 Effective Date: 7th October 2015 Issued Date: 7th October 2015 Revocation Date: 21st February 2017 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A14NE (E)	783	3	471920 173447

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Mepc Plc Property Type: Undefined Or Other Location: Abbey Gardens, Phase 1, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0662 Permit Version: 1 Effective Date: 11th February 1986 Issued Date: 11th February 1986 Revocation Date: 19th March 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: The Holy Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A14NE (E)	803	3	471940 173450
11	Discharge Consents Operator: Pfa Invest International Property Type: Undefined Or Other Location: The Abbey Gardens Development, Phase Ii, Reading Berks Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctwc.0563 Permit Version: 1 Effective Date: 20th January 1986 Issued Date: 20th January 1986 Revocation Date: 5th September 1997 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 100m	A14NE (E)	813	3	471950 173450
11	Discharge Consents Operator: Pfa Invest International Property Type: Undefined Or Other Location: The Abbey Gardens Development, Phase Ii, Reading Berks Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctwc.0564 Permit Version: 1 Effective Date: 20th January 1986 Issued Date: 20th January 1986 Revocation Date: 11th July 1997 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	A14NE (E)	813	3	471950 173450
12	Discharge Consents Operator: Jarvis Facilities Ltd. Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Permanent Way Staff Accommodation Block, Cow Lane, Reading. Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0130 Permit Version: 2 Effective Date: 12th May 2007 Issued Date: 12th May 2007 Revocation Date: 24th May 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Made Groundoverlying Alluvium Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	791	3	470530 173860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Discharge Consents Operator: Jarvis Facilities Ltd. Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Permanent Way Staff Accommodation Block, Cow Lane, Reading. Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.0130 Permit Version: 1 Effective Date: 10th July 1985 Issued Date: 10th July 1985 Revocation Date: 12th May 2007 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Made Groundoverlying Alluvium Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	791	3	470530 173860
13	Discharge Consents Operator: Thames Water Utilities Limited. Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Metropolitan Water Board (Now Thames Water - Central) Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0445 Permit Version: 1 Effective Date: 16th November 1964 Issued Date: 16th November 1964 Revocation Date: 15th December 1998 Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Thames Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Manually corrected supplier location	A19SW (NE)	814	3	471700 173900
13	Discharge Consents Operator: Thames Water Utilities Limited. Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Metropolitan Water Board (Now Thames Water - Central) Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0446 Permit Version: 1 Effective Date: 16th November 1964 Issued Date: 16th November 1964 Revocation Date: 15th December 1998 Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Thames Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Manually corrected supplier location	A19SW (NE)	814	3	471700 173900
14	Discharge Consents Operator: Mepc Plc Property Type: Undefined Or Other Location: Abbey Garden Development, Phaseiii, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.2738 Permit Version: 1 Effective Date: 15th August 1988 Issued Date: 15th August 1988 Revocation Date: 25th February 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Kennet Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A14NE (E)	879	3	472020 173440

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Discharge Consents Operator: Mepc Projects Ltd Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Blakes Cottages, Reading Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0514 Permit Version: 1 Effective Date: 19th November 1985 Issued Date: 19th November 1985 Revocation Date: 25th April 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Kennet Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A14NE (E)	911	3	472050 173450
15	Discharge Consents Operator: Sir Robert Mcalpine Ltd. Property Type: CONSTRUCTION OF BUILDINGS Location: Nugent House Vastern Road Reading Berkshire Rg1 8db Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CAWM.0103 Permit Version: 2 Effective Date: 15th December 1999 Issued Date: 6th December 1999 Revocation Date: 29th February 2000 Discharge Type: Trade Effluent Discharge: Land/Soakaway Environment: Receiving Water: To The Vastern Ditch Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	880	3	471710 173980
15	Discharge Consents Operator: Sir Robert Mcalpine Ltd. Property Type: CONSTRUCTION OF BUILDINGS Location: Nugent House Vastern Road Reading Berkshire Rg1 8db Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cawm.0103 Permit Version: 1 Effective Date: 15th October 1999 Issued Date: 6th December 1999 Revocation Date: 14th December 1999 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: To The Vastern Ditch Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	880	3	471710 173980
16	Discharge Consents Operator: Rockfort Homes Ltd Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Housing Development, Rose Kiln Lane, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.2920 Permit Version: 1 Effective Date: 1st December 1988 Issued Date: 1st December 1988 Revocation Date: 11th February 1992 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	A8SE (S)	912	3	471200 172320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Reading, Cow Lane Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1771 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 27th January 1997 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Vastern Ditch Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	931	3	470300 173800
18	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	A7NW (SW)	994	3	470200 172800
19	Prosecutions Relating to Controlled Waters Location: Holy Brook, Broad Street, READING, RG1 Prosecution Text: Allowing diesel to enter a water drainage system Prosecution Act: Wra91 S85(1) Hearing Date: 4th May 2006 Verdict: Guilty Fine: 12000 Cost: 2032 Positional Accuracy: Manually positioned within the geographical locality	A14NW (E)	366	3	471514 173350
20	Prosecutions Relating to Controlled Waters Location: Pumping Station, Nugent House, Vastern Road, READING, Berkshire, RG1 8DB Prosecution Text: Environment Action Issue 2 (June / July 1996), Polluting three miles of the River Brent with oil due to a switch failure at the pumping station. Prosecution Act: WRA91 Hearing Date: Not Supplied Verdict: Guilty Fine: 15000 Cost: 460 Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	900	3	471714 174003
21	Local Authority Pollution Prevention and Controls Name: Hobbs Of Reading Location: 102 Oxford Road, Reading, Rg1 7ll Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/DC9/P1 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning Status: Application Not Yet Authorised Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	175	2	470944 173401
22	Local Authority Pollution Prevention and Controls Name: Tilehurst Connect Service Station Location: Tilehurst Road, READING, Berkshire, RG1 Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/32/98/P2 Dated: 24th August 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A12SE (SW)	484	2	470664 173011

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Local Authority Pollution Prevention and Controls Name: Sketchley Dry Cleaners Location: 41 Market Place, Reading, Rg1 2de Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/DC16/P1 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning Status: Application Not Yet Authorised Positional Accuracy: Manually positioned to the address or location	A14NW (E)	536	2	471662 173451
24	Local Authority Pollution Prevention and Controls Name: Berkeley Service Station Location: 10 Berkley Avenue, READING, Berkshire, RG1 6JT Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/34/98/P2 Dated: 1st September 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A8NW (S)	608	2	470970 172632
25	Local Authority Pollution Prevention and Controls Name: Oxford Road Service StationTexaco Location: 150 Oxford Road, READING, Berkshire, RG1 7PJ Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/39/98/P1 Dated: 9th November 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A12NE (W)	636	2	470465 173455
26	Local Authority Pollution Prevention and Controls Name: Save Service Station (Reading) Location: Berkeley Avenue, Reading, Berkshire, RG1 6JE Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/46/98 Dated: 24th August 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A8SW (S)	657	2	471113 172570
27	Local Authority Pollution Prevention and Controls Name: RBC Location: 21 South Street, READING, Berkshire, RG1 4QU Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/01/91/1 Dated: 14th October 1992 Process Type: Local Authority Air Pollution Control Description: PG5/2 Crematoria Status: Authorised Positional Accuracy: Manually positioned to the address or location	A14SE (E)	787	2	471930 173105
28	Local Authority Pollution Prevention and Controls Name: Sprayworks Ltd Location: Unit 5 151-155 Cardiff Road, Reading, RG1 8ES Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/47/99/P2 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles Status: Application Refused Or Cancelled Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	861	2	470714 174072
29	Local Authority Pollution Prevention and Controls Name: Rivermead Accident Repair Centre Ltd Location: 64 Cardiff Road, READING, Berkshire, RG1 8LL Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/50/00/P1 Dated: 22nd August 2000 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles Status: Permitted Positional Accuracy: Manually positioned to the address or location	A18NW (N)	863	2	470796 174110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Local Authority Pollution Prevention and Controls Name: Unimet Enamellers Ltd Location: 183-185 Cardiff Road, READING, Berkshire, RG1 8HD Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PA.R.B/3/91/P1 Dated: 20th January 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/23 Coating of metal and plastic Status: Authorisation certificate surrendered by operator Positional Accuracy: Automatically positioned to the address	A17NE (NW)	991	2	470511 174103
	Nearest Surface Water Feature	A13SE (SE)	201	-	471311 173116
31	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 29th June 1997 Incident Reference: THWE1997029441 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	A13SE (S)	236	3	471170 173000
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Not Supplied Incident Date: 9th June 1997 Incident Reference: THWE1997029353 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	A13SW (SW)	240	3	471005 173005
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed incident Incident Date: 4th April 1999 Incident Reference: THWE1999042768 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 10m	A13SW (SW)	242	3	471000 173005
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Tilehurst, READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 30th March 1996 Incident Reference: WE960084 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	A13SW (SW)	245	3	471005 173000
32	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: 29th June 1993 Incident Reference: WE930212 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	A13SW (SW)	247	3	471000 173000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Other Note: Not Supplied Incident Date: 30th October 1996 Incident Reference: WE960375 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	A13SW (SW)	249	3	471005 172995
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Urban Runoff Note: Confirmed As A Pollution Incident Incident Date: 26th September 1995 Incident Reference: WE950387 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	A13SW (SW)	251	3	471000 172995
33	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: 22nd November 1991 Incident Reference: WE910648 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	A13SE (E)	249	3	471400 173200
34	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: 2nd December 1994 Incident Reference: WE940424 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	A13SE (SE)	284	3	471400 173100
35	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: 10th January 1989 Incident Reference: WE890007 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	A8NE (S)	340	3	471200 172900
35	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: 23rd September 1994 Incident Reference: WE940336 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	A8NE (S)	345	3	471200 172895

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	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: 8th August 1995 Incident Reference: WE950327 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	A8NE (S)	389	3	471200 172850
36	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: General Note: Not Supplied Incident Date: 16th July 1998 Incident Reference: THWE1998039887 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	A14SW (E)	342	3	471500 173250
37	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Confirmed incident Incident Date: 16th April 1999 Incident Reference: THWE1999042637 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 10m	A13SE (SE)	344	3	471400 173000
38	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Duke Street, READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 17th December 1991 Incident Reference: WE910690 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	A14SW (E)	346	3	471480 173130
38	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: 30th November 1993 Incident Reference: WE930397 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	A14SW (SE)	375	3	471500 173100
38	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: 16th October 1992 Incident Reference: WE920594 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	A14SW (SE)	394	3	471520 173100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 22nd July 1997 Incident Reference: THWE1997029089 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	A14SW (E)	347	3	471500 173200
39	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: 4th November 1994 Incident Reference: WE940380 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	A14SW (E)	396	3	471550 173200
39	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: 23rd November 1994 Incident Reference: WE940411 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	A14SW (E)	397	3	471550 173195
40	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: 1st September 1995 Incident Reference: WE950350 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	A8NE (S)	394	3	471200 172845
40	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: 23rd December 1994 Incident Reference: WE940436 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	A8NE (S)	438	3	471200 172800
40	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 October 1995 Incident Reference: WE950400 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	A8NE (S)	443	3	471200 172795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	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: 16th December 1993 Incident Reference: WE930413 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	A14NW (E)	444	3	471600 173300
42	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 November 1993 Incident Reference: WE930375 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	A14SW (E)	469	3	471600 173100
43	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: 20th February 1989 Incident Reference: WE890083 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	A14NW (E)	544	3	471700 173300
43	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 December 1994 Incident Reference: WE940420 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	A14NW (E)	594	3	471750 173300
44	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: 29th April 1993 Incident Reference: WE930142 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	A18SE (NE)	555	3	471400 173800
45	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: 3rd May 1994 Incident Reference: WE940144 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	A14NW (E)	557	3	471700 173395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Duke Street, READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Urban Runoff Note: Confirmed As A Pollution Incident Incident Date: 15th February 1989 Incident Reference: WE890092 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	A14NW (E)	558	3	471700 173400
45	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: General Note: Not Supplied Incident Date: 21st January 1998 Incident Reference: 37294 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	A14NW (E)	562	3	471705 173395
46	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: 10th November 1990 Incident Reference: WE900632 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	593	3	471400 172700
47	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 17th January 1997 Incident Reference: THWE1997031344 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	A14NE (E)	643	3	471800 173295
47	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: 2nd October 1992 Incident Reference: WE920562 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	A14NE (E)	644	3	471800 173300
48	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: 11th September 1995 Incident Reference: WE950365 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	A8NE (S)	655	3	471300 172600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Other Note: Not Supplied Incident Date: 6th March 1996 Incident Reference: WE960052 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	A8NE (S)	660	3	471300 172595
49	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: 19th May 1994 Incident Reference: WE940164 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	A14NE (E)	655	3	471800 173395
49	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: 2nd April 1991 Incident Reference: WE910175 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	A14NE (E)	656	3	471800 173400
50	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: 11th April 1995 Incident Reference: WE950138 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	A14NE (E)	680	3	471800 173495
50	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: 4th September 1990 Incident Reference: WE900553 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	A14NE (E)	682	3	471800 173500
51	Pollution Incidents to Controlled Waters Property Type: Not Given Location: HIGH WYCOMBE Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 11th May 1995 Incident Reference: WE950188 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	A18NW (N)	705	3	471000 174000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 9th April 1998 Incident Reference: 38265 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	A14NE (E)	753	3	471900 173395
52	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: 9th September 1991 Incident Reference: WE910493 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	A14NE (E)	754	3	471900 173400
53	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: 4th August 1995 Incident Reference: WE950314 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	A14NE (E)	777	3	471900 173500
54	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: 4th May 1995 Incident Reference: WE950187 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	A8SE (S)	779	3	471400 172500
54	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: 30th June 1994 Incident Reference: WE940228 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	A8SE (SE)	793	3	471440 172500
55	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: 5th December 1991 Incident Reference: WE910674 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	A19SW (NE)	810	3	471700 173895

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	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: 18th May 1993 Incident Reference: WE930157 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	A19SW (NE)	814	3	471695 173905
55	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 October 1992 Incident Reference: WE920575 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	A19SW (NE)	814	3	471705 173895
55	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 January 1991 Incident Reference: WE910016 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	A19SW (NE)	814	3	471700 173900
55	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: 20th November 1992 Incident Reference: WE920624 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	A19SW (NE)	817	3	471705 173900
55	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: 11th February 1993 Incident Reference: WE930048 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	A19SW (NE)	818	3	471700 173905
55	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: 20th January 1993 Incident Reference: WE930028 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	A19SW (NE)	821	3	471705 173905

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	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: 2nd April 1992 Incident Reference: WE920186 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	A18NE (N)	818	3	471350 174100
57	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	A8SW (S)	832	3	471000 172400
58	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: 10th July 1995 Incident Reference: WE950271 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	A14NE (E)	843	3	472000 173295
58	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: 6th April 1995 Incident Reference: WE950146 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	A14NE (E)	843	3	472000 173300
59	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: 28th November 1991 Incident Reference: WE910657 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	A14NE (E)	852	3	472000 173395
59	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: 5th September 1991 Incident Reference: WE910504 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	A14NE (E)	853	3	472000 173400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Other Note: Not Supplied Incident Date: Not Supplied Incident Reference: WE960163 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	A14NE (E)	854	3	472000 173405
59	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: 29th October 1993 Incident Reference: WE930368 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	A14NE (E)	857	3	472005 173395
59	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Other Note: Not Supplied Incident Date: 16th August 1996 Incident Reference: WE960300 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	A14NE (E)	858	3	472005 173400
59	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Other Note: Not Supplied Incident Date: 21st August 1996 Incident Reference: WE960309 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	A14NE (E)	859	3	472005 173405
60	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: 20th April 1992 Incident Reference: WE920233 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	A8SE (S)	855	3	471300 172395
61	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Reading Bridge Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 8th March 1991 Incident Reference: WE910133 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	A19NW (NE)	885	3	471700 173995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	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: 6th June 1995 Incident Reference: WE950216 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	A19NW (NE)	889	3	471705 173995
61	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Reading Bridge Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 22nd August 1990 Incident Reference: WE900521 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	A19NW (NE)	889	3	471700 174000
61	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 30th May 1996 Incident Reference: WE960182 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	A19NW (NE)	892	3	471705 174000
61	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 17th June 1997 Incident Reference: THWE1997029393 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	A19NW (NE)	893	3	471700 174005
61	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 14th August 1996 Incident Reference: WE960288 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	A19NW (NE)	896	3	471705 174005
62	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 5th August 1996 Incident Reference: WE960275 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)	908	3	471500 172400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	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: 12th May 1991 Incident Reference: WE910249 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	A8SE (S)	910	3	471350 172350
64	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	A8SW (S)	927	3	471100 172300
65	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Kennetside Authority: Environment Agency, Thames Region Pollutant: General Note: Not Supplied Incident Date: 16th April 1998 Incident Reference: 38419 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	A14NE (E)	943	3	472100 173300
65	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 19th March 1996 Incident Reference: WE960076 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	A15NW (E)	993	3	472150 173300
66	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: 6th August 1994 Incident Reference: WE940287 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	A8SE (S)	948	3	471300 172300
67	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: 18th August 1992 Incident Reference: WE920495 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	A14NE (E)	951	3	472100 173395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Not Supplied Incident Date: 6th August 1991 Incident Reference: WE910446 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	A14NE (E)	952	3	472100 173400
67	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: 9th November 1993 Incident Reference: WE930352 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	A14NE (E)	956	3	472105 173395
68	Pollution Incidents to Controlled Waters Property Type: Not Given Location: CAVERSHAM Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 23rd December 1998 Incident Reference: THWE1999041493 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	A19NE (NE)	952	3	471800 173995
68	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: General Note: Not Supplied Incident Date: 10th March 1997 Incident Reference: THWE1997031447 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	A19NE (NE)	955	3	471800 174000
69	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Nra Depot Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 10th April 1990 Incident Reference: WE900281 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	A19NW (NE)	960	3	471750 174050
70	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Reading Bridge Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 3rd November 1993 Incident Reference: WE930370 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	A19NW (NE)	965	3	471700 174095

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Natural Note: Confirmed As A Pollution Incident Incident Date: 28th June 1994 Incident Reference: WE940215 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	A19NW (NE)	968	3	471705 174095
70	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: WE920344 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	A19NW (NE)	969	3	471700 174100
71	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 13th January 1998 Incident Reference: 37310 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	A14NE (E)	970	3	472100 173500
72	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Not Supplied Incident Date: 15th October 1996 Incident Reference: WE960361 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	A23SW (N)	987	3	471105 174295
72	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Not Supplied Incident Date: 10th April 1996 Incident Reference: WE960360 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	A23SW (N)	987	3	471100 174295
72	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Not Supplied Incident Date: 20th March 1996 Incident Reference: WE960078 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	A23SW (N)	992	3	471100 174300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Not Supplied Incident Date: Not Supplied Incident Reference: WE960151 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	A23SW (N)	992	3	471105 174300
72	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Not Supplied Incident Date: Not Supplied Incident Reference: WE960135 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	A23SW (N)	997	3	471105 174305
73	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	A7NE (SW)	735	3	470478 172832
73	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	A7NE (SW)	735	3	470478 172832
73	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	A7NE (SW)	735	3	470478 172832
73	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	A7NE (SW)	735	3	470478 172832

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	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	A7NE (SW)	735	3	470478 172832
	River Quality Name: Kennet GQA Grade: River Quality B Reach: Holy Bk - Thames Estimated Distance (km): 1.3 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A14SW (E)	427	3	471572 173151
	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	A8SE (S)	828	3	471417 172454
	River Quality Name: Kennet GQA Grade: River Quality A Reach: Foudry Bk - Holy Bk Estimated Distance (km): 2.8 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A8SE (S)	829	3	471405 172449

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	River Quality Chemistry Sampling Points Name: Kennet Reach: Foudry Brook To Holy Brook Estimated Distance: 2.80 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade B - 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 A - Very 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 B - 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 B - 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 B - Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade B - 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	A8NE (SE)	475	3	471351 172807
75	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, South East Area Incident Date: 23rd July 2007 Incident Reference: 516354 Water Impact: Category 3 - Minor Incident Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Oils - Unknown	A17SE (NW)	658	3	470653 173792
76	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, South East Area Incident Date: 28th June 2005 Incident Reference: 324802 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Oils - Diesel (Including Agricultural)	A14NE (E)	669	3	471812 173408

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	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	A13NE (N)	200	3	471200 173500
78	Water Abstractions Operator: Oracle Shopping Centre Ltd Licence Number: 28/39/22/0594 Permit Version: 2 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: 9th March 2020 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (E)	445	3	471590 173150
78	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	A14SW (E)	445	3	471590 173150
79	Water Abstractions Operator: Manrose Manufacturing Ltd Licence Number: 28/39/23/0167 Permit Version: 101 Location: Meadow Road, Reading, Berkshire 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Meadow Road Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th June 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	823	3	470900 174100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	Water Abstractions Operator: Manrose Manufacturing Ltd Licence Number: 28/39/23/0167 Permit Version: 101 Location: Meadow Road, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Meadow Road Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th June 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	823	3	470900 174100
79	Water Abstractions Operator: Manrose Manufacturing Ltd Licence Number: 28/39/23/0167 Permit Version: 100 Location: Meadow Road, Reading, Berkshire 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): 364 Yearly Rate (m3): 4546 Details: Meadow Road Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th February 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	823	3	470900 174100
79	Water Abstractions Operator: Manrose Manufacturing Ltd Licence Number: 28/39/23/0167 Permit Version: 100 Location: Meadow Road, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Meadow Road Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th February 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	823	3	470900 174100
79	Water Abstractions Operator: Cox & Wyman Ltd Licence Number: 28/39/23/0041 Permit Version: 100 Location: Cardiff Road, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 82 Yearly Rate (m3): 20366 Details: At Cardiff Road, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th July 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	823	3	470900 174100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	Water Abstractions Operator: Cox & Wyman Ltd Licence Number: 28/39/23/0041 Permit Version: 100 Location: Cardiff Road, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Commercial 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: At Cardiff Road Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th July 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	823	3	470900 174100
80	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	A8SE (S)	850	3	471300 172400
81	Water Abstractions Operator: Hillier Group Of Companies Licence Number: 28/39/23/0128 Permit Version: 100 Location: Cardiff Road, Reading Point B Authority: Environment Agency, Thames Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Cardiff Road, 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 10m	A17NE (NW)	857	3	470600 174000
	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	A17NW (NW)	1018	3	470359 174009

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: British Road Services Ltd Licence Number: 28/39/23/0024 Permit Version: Not Supplied Location: Cardiff Road, READING Authority: Environment Agency, Thames Region Abstraction: Vehicle Washing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 14 Yearly Rate (m3): Not Supplied Details: River Gravel; Licence Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	1027	3	470600 174200
	Water Abstractions Operator: Hillier Group Of Companies Licence Number: 28/39/23/0128 Permit Version: 100 Location: Cardiff Road, Reading Point A Authority: Environment Agency, Thames Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 27 Yearly Rate (m3): 6682 Details: Cardiff Road, 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	A17NW (NW)	1057	3	470400 174100
	Water Abstractions Operator: Reading Borough Council Licence Number: 28/39/23/0199/Tr Permit Version: 1 Location: River Thames - Christchurch Meadows Authority: Environment Agency, Thames Region Abstraction: Environmental: Non-remedial River/Wetland Support: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Christchurch Meadows, Caversham Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 10th September 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	1180	3	471440 174450
	Water Abstractions Operator: Reading Borough Council Licence Number: 28/39/23/0196 Permit Version: 1 Location: Thames At Christchurch Meadow Authority: Environment Agency, Thames Region Abstraction: Environmental: Non-remedial River/Wetland Support: Lake & 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: At Christchurch Meadows Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	1180	3	471440 174450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Pelikaan (Construction) Limited Licence Number: Th/039/0023/037 Permit Version: 1 Location: Rivermead Leisure Complex, Reading Authority: Environment Agency, Thames Region Abstraction: Construction:Dewatering 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: 22nd May 2023 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22SE (N)	1264	3	470727 174509
	Water Abstractions Operator: Reading Hydro Cbs Limited Licence Number: Th/039/0023/022 Permit Version: 4 Location: River Thames At Caversham Weir Authority: Environment Agency, Thames Region Abstraction: Other Environmental Improvements: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 16th September 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1279	3	472072 174185
	Water Abstractions Operator: The Reading Sustainability Centre Cic Licence Number: Th/039/0023/022 Permit Version: 3 Location: River Thames At Caversham Weir Authority: Environment Agency, Thames Region Abstraction: Other Environmental Improvements: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th February 2020 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1279	3	472072 174185
	Water Abstractions Operator: The Reading Sustainability Centre Cic Licence Number: Th/039/0023/022 Permit Version: 2 Location: River Thames At Caversham Weir Authority: Environment Agency, Thames Region Abstraction: Other Environmental Improvements: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th February 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1279	3	472072 174185

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: The Reading Sustainability Centre Cic Licence Number: Th/039/0023/022 Permit Version: 1 Location: River Thames At Caversham Weir Authority: Environment Agency, Thames Region Abstraction: Other Environmental Improvements: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th February 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1279	3	472072 174185
	Water Abstractions Operator: Royal Berkshire Hospital Licence Number: 28/39/22/0521 Permit Version: 100 Location: Royal Berkshire Hospital 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): 350 Yearly Rate (m3): 127750 Details: Royal Berkshire Hospital, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th January 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10NW (E)	1323	3	472400 172800
	Water Abstractions Operator: Elis Uk Ltd Licence Number: 28/39/23/0020 Permit Version: 103 Location: 72 George Street, Caversham, - Borehole 'A' 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: 72 George Street, Caversham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th February 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24SE (NE)	1329	3	471900 174400
	Water Abstractions Operator: Berendsen Uk Limited Licence Number: 28/39/23/0020 Permit Version: 102 Location: 72 George Street, Caversham, - Borehole 'A' 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: 72 George Street, Caversham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th January 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24SE (NE)	1329	3	471900 174400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: White Knight Laundry Services Ltd Licence Number: 28/39/23/0020 Permit Version: 101 Location: 72 George Street, Caversham, - Borehole 'A' 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: 72 George Street, Caversham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th December 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24SE (NE)	1329	3	471900 174400
	Water Abstractions Operator: Reading & Cav'M Laundry Co Ltd Licence Number: 28/39/23/0020 Permit Version: 100 Location: 72 George Street, Caversham, - Borehole 'A' 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): 300 Yearly Rate (m3): 68190 Details: 72 George Street, Caversham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th May 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24SE (NE)	1329	3	471900 174400
	Water Abstractions Operator: Mr D A Drayton Licence Number: 28/39/23/0070 Permit Version: 100 Location: Little John'S Farm, Reading (E) 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Little John'S Farm, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SE (NW)	1407	3	470100 174300
	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	A16SE (NW)	1417	3	469800 173900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: M J Gleeson Group Plc Licence Number: 28/39/22/0600 Permit Version: 1 Location: Former Gasworks, Kenavon Drive, Reading (5 Boreholes) Authority: Environment Agency, Thames Region Abstraction: Environmental: Pump & Treat: Pollution Remediation Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Former Gasworks, Kenavon Drive Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1578	3	472700 173600
	Water Abstractions Operator: Mr D A Drayton Licence Number: 28/39/23/0070 Permit Version: 100 Location: Little John'S Farm, Reading (D) 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Little John'S Farm, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SE (NW)	1635	3	470100 174600
	Water Abstractions Operator: Mr D A Drayton Licence Number: 28/39/23/0070 Permit Version: 100 Location: Little John'S Farm, Reading (B) 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): 27 Yearly Rate (m3): 9819 Details: Little John'S Farm, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1770	3	469700 174400
	Water Abstractions Operator: Mr D A Drayton Licence Number: 28/39/23/0070 Permit Version: 100 Location: Little John'S Farm, Reading (C) 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Little John'S Farm, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SW (NW)	1770	3	469700 174400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr D A Drayton Licence Number: 28/39/23/0070 Permit Version: 100 Location: Little John'S Farm, Reading (A) 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Little John'S Farm, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NW (NW)	1822	3	469500 174200
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: 3-10m Superficial Recharge: Medium	A13NE (S)	0	4	471119 173268
	Groundwater Vulnerability - Soluble Rock Risk Classification: Very Significant Risk - High Possibility	A13NE (S)	0	4	471119 173268
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13NE (S)	0	4	471119 173268
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (S)	0	4	471119 173268
	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)	199	3	471319 173131
	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)	200	3	471299 173103
	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)	204	3	471283 173083
	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)	229	3	471283 173051
	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)	237	3	471259 173027
	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)	199	3	471319 173131
	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)	200	3	471299 173103

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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)	204	3	471283 173083
	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)	229	3	471283 173051
	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)	237	3	471259 173027
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (SE)	202	5	471311 173114
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (SE)	202	5	471311 173114
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (SE)	203	5	471305 173106
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 153.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (SE)	204	5	471326 173133
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (SE)	220	5	471272 173054
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SE (SE)	220	5	471272 173054

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 154.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A13SE (SE)	223	5	471276 173054
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (SE)	233	5	471266 173035
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (SE)	239	5	471264 173028
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (E)	284	5	471441 173234
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.2 Watercourse Level: Underground Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (E)	292	5	471449 173240
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14SW (E)	307	5	471465 173251
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: Underground Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14SW (E)	310	5	471468 173253
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A13SE (S)	320	5	471248 172933
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14SW (E)	328	5	471486 173266

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NW (E)	352	5	471509 173283
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NW (E)	356	5	471513 173286
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 202.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A13SE (SE)	364	5	471453 173035
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A13SE (SE)	365	5	471418 172989
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A13SE (SE)	367	5	471411 172979
102	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 21.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 2	A13SE (SE)	367	5	471428 172997
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 181.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NW (E)	368	5	471524 173294
104	OS Water Network Lines Watercourse Form: Lock or flight of locks Watercourse Length: 37.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 2	A13SE (SE)	380	5	471426 172976
105	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 29.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 2	A8NE (SE)	384	5	471381 172930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 152.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8NE (SE)	384	5	471381 172930
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 521.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A8NE (SE)	384	5	471381 172930
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 462.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A8NE (S)	387	5	471233 172859
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 152.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A14SW (SE)	415	5	471501 173014
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 503.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A14SW (E)	428	5	471569 173137
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NW (E)	543	5	471694 173355
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NW (E)	568	5	471716 173370
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 961.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	607	5	471052 173910
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 246.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	613	5	470984 173903

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NE (E)	653	5	471797 173401
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.1 Watercourse Level: Underground Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NE (E)	656	5	471800 173402
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	661	5	470725 173847
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	661	5	470743 173860
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NE (E)	677	5	471819 173410
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	688	5	470609 173792
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	694	5	470725 173888
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	706	5	470551 173758
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 216.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	721	5	470646 173866

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.9 Watercourse Level: Underground Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NE (E)	793	5	471928 173455
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Gunter's Brook Catchment Name: Thames Primacy: 1	A14NE (E)	808	5	471965 173276
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NE (E)	809	5	471944 173463
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.2 Watercourse Level: Underground Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NE (E)	814	5	471948 173463
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A14NE (E)	831	5	471965 173466
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A8SE (S)	840	5	471337 172419
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SE (S)	840	5	471337 172419
131	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 9.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 2	A14NE (E)	844	5	471999 173316
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A14NE (E)	844	5	471999 173316

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SE (S)	845	5	471333 172413
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A8SE (S)	845	5	471333 172413
135	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: 2	A8SE (S)	849	5	471355 172414
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SE (S)	849	5	471379 172421
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SE (S)	849	5	471389 172423
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SE (S)	851	5	471412 172428
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 712.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A8SE (S)	852	5	471436 172436
140	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 485.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Kennet and Avon Canal Catchment Name: Thames Primacy: 1	A14NE (E)	852	5	472007 173311
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SE (S)	852	5	471418 172429

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A8SE (S)	853	5	471323 172402
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A8SE (S)	854	5	471321 172401
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SW (NW)	869	5	470443 173883
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 234.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennet Catchment Name: Thames Primacy: 1	A14NE (E)	870	5	472010 173446
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A8SE (S)	905	5	471227 172331
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1045.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Holy Brook Catchment Name: Thames Primacy: 1	A8SE (S)	907	5	471224 172329
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SW (NW)	940	5	470377 173915
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Thames Catchment Name: Thames Primacy: 1	A19NW (NE)	978	5	471712 174103

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	Historical Landfill Sites Licence Holder: Not Supplied Location: Reading, Berkshire Name: Cow Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13278 First Input Date: 31st December 1950 Last Input Date: 31st December 1959 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0345/0170 BGS Ref: Not Supplied Other Ref: TP0340, RDG4	A17SW (NW)	980	3	470294 173875
151	Licensed Waste Management Facilities (Locations) Licence Number: 86001 Location: 54 Gower Street, Reading, Berkshire, RG1 7PE Operator Name: E G W Carter Operator Location: Not Supplied Authority: Environment Agency - South East Region, West Thames Area Site Category: Metal Recycling Sites (Mixed) Licence Status: Surrendered Issued: 19th March 1996 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 23rd July 1999 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	746	3	470400 173600
152	Licensed Waste Management Facilities (Locations) Licence Number: 105216 Location: Clearwater Court, Vastern Road, Reading, Berkshire, RG1 8DB Operator Name: Thames Water Utilities Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, West Thames Area Site Category: Mobile Plant for landspreading sewage sludge Licence Status: Issued Issued: 7th September 2011 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	907	3	471732 173997
153	Licensed Waste Management Facilities (Locations) Licence Number: 407079 Location: Mobilr Plant Operator Name: Mr Mark Rough Operator Location: Not Supplied Authority: Environment Agency - South East Region, West Thames Area Site Category: Mobile plant treatment for soil <75,000 tpd Licence Status: Issued Issued: 10th November 2020 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	916	3	471963 173712
	Local Authority Landfill Coverage Name: Reading Unitary Council - Has supplied landfill data		0	6	471119 173268
154	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A12SE (W)	577	-	470543 173061
155	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A9NW (SE)	685	-	471463 172629

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A8SW (S)	686	-	470856 172584
157	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A8SE (S)	693	-	471140 172535
158	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A9SW (S)	947	-	471486 172352
159	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1995	A17SW (NW)	958	-	470238 173749
160	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A14SW (SE)	429	-	471541 173057
161	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A14SW (E)	437	-	471578 173133
162	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1883	A8NE (S)	444	-	471230 172800
163	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1995	A18SE (NE)	460	-	471356 173715
164	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A8NE (S)	499	-	471315 172767
165	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1883	A8NE (S)	509	-	471184 172725
166	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A14SW (E)	511	-	471662 173173
167	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1883	A8NE (S)	598	-	471167 172633
168	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A17SE (NW)	741	-	470580 173838
169	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1883	A8SE (S)	743	-	471246 172498
170	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1962	A8SE (S)	759	-	471305 172494
171	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1913	A8SE (S)	856	-	471389 172416
172	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1913	A8SE (S)	857	-	471403 172420
173	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A18NW (N)	903	-	470889 174179
174	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A8SE (S)	907	-	471350 172353
175	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1913	A8SE (S)	970	-	471337 172285

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
176	Registered Waste Treatment or Disposal Sites Licence Holder: E G W Carter Licence Reference: 54/12/4/408 Site Location: 54 Gower Street, READING, Berkshire, RG1 7PE Operator Location: 143 Blagdon Road, READING, Berkshire, RG2 7NE Authority: Environment Agency - Thames Region, West Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence has completion certificateSurrendered Dated: 19th March 1996 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste Prohibited Waste Electrical Appliances Electrical Cable Ferrous Metal Scrap (Solid Forms) Industrial Machinery Max.Waste In Licence Annotation Non-Ferrous Metal Scrap (Solid Forms) Any Metal In Fine Powder Form Biodegradable/Food/Veg.Matter Lead/Acid Batteries Liquid/Sludge Wastes Paper/Cardboard/Packaging Special Wastes Sub'S Control. Radioactive Subs Act'60 W.Giving Danger Fire/Explos/Fume/Gas Waste Containing Flammable Solvents Waste Containing Pcb's Waste Containing Phenols/Derivatives Waste N.O.S. Waste With Flash Pt < 40 C	A12NW (NW)	761	3	470380 173590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A13NE (S)	0	1	471119 173268
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (S)	0	1	471119 173268
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	48	1	471077 173183
	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)	198	1	471263 173075
	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	A14SW (SE)	430	1	471502 172989
	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	A8NE (SE)	542	1	471437 172777
	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	A8NE (SE)	682	1	471450 172625

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:	A8SW (S)	721	1	470841 172553
	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:	A8SW (S)	750	1	471046 172478
	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:	A9NW (SE)	805	1	471654 172610
177	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220905 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	250	1	471002 172996
177	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220906 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13SW (S)	252	1	471023 172986
177	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220924 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	274	1	470991 172974

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220909 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13SW (S)	262	1	471076 172966
179	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220907 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13SW (S)	291	1	471021 172946
180	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220904 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	311	1	470938 172960
181	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220910 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	313	1	471079 172914
181	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220911 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	360	1	471067 172868
182	BGS Recorded Mineral Sites Site Name: Neuk & Bramley Chalk Mine Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220903 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	349	1	470981 172898

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220901 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	355	1	470964 172898
182	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220925 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	367	1	470968 172883
183	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220908 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	359	1	471017 172877
184	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220912 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	390	1	471070 172838
184	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220914 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	435	1	471074 172792
185	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220926 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	411	1	471002 172827

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
185	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220902 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	413	1	471021 172821
185	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220913 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	418	1	471066 172810
185	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220921 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	428	1	471030 172804
185	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220922 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	438	1	471010 172798
185	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220920 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	447	1	471033 172784
186	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220303 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	417	1	470978 172827

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220900 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	451	1	470959 172798
186	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220899 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	456	1	470946 172797
187	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220919 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	470	1	471018 172763
187	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220916 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	496	1	471053 172733
187	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220917 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	496	1	471031 172735
188	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220923 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	498	1	470985 172742

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
188	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220918 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	505	1	470992 172733
188	BGS Recorded Mineral Sites Site Name: Coley Gravel Pit Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234918 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Wolstonian Geology: Lynch Hill Gravel Member (River Thames Gravel) Commodity: Gravel Positional Accuracy: Located by supplier to within 10m	A8NW (S)	529	1	470957 172717
189	BGS Recorded Mineral Sites Site Name: Reading Chalk Mine Location: Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 220915 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NW (S)	510	1	471077 172717
189	BGS Recorded Mineral Sites Site Name: Coley Pottery Location: The Mount, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36344 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	A8NW (S)	549	1	471044 172680
190	BGS Recorded Mineral Sites Site Name: Coley Gravel Pit Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234917 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Wolstonian Geology: Lynch Hill Gravel Member (River Thames Gravel) Commodity: Gravel Positional Accuracy: Located by supplier to within 10m	A8NW (S)	519	1	470915 172741
191	BGS Recorded Mineral Sites Site Name: Katesgrove Kilns Location: The Mount, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36343 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	A9SW (SE)	756	1	471540 172590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
192	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	A8SW (S)	775	1	470815 172505
193	BGS Recorded Mineral Sites Site Name: Coley Kilns Location: Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234915 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	A8SW (S)	776	1	471058 172452
194	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	A8SW (S)	820	1	470881 172436
195	BGS Recorded Mineral Sites Site Name: Katesgrove Kilns Location: The Mount, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234923 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	A9SW (SE)	844	1	471551 172495
196	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	A8SW (S)	865	1	471060 172362
196	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	A8SW (S)	907	1	471046 172321

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
197	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 (River Thames Gravel) Commodity: Gravel Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	904	1	470502 172547
198	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	A8SW (S)	905	1	470975 172330
199	BGS Recorded Mineral Sites Site Name: Katesgrove Kilns Location: The Mount, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234924 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	A9SW (SE)	912	1	471549 172417
200	BGS Recorded Mineral Sites Site Name: Ivy Bridge Brick Field Location: The Mount, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 234922 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head (Brickearth) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	951	1	471686 172452
201	BGS Recorded Mineral Sites Site Name: Ivy Bridge Brick Field Location: The Mount, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36342 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head (Brickearth) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	970	1	471778 172498
	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				
	Mining Instability Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (S)	0	-	471119 173268

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 470950 Northing: 173050 Distance: 230 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: 5 Possible Mine Workings/Ground Anomalies Ground Anomalies Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13SW (SW)	230	7	470950 173050
	Man-Made Mining Cavities Easting: 470960 Northing: 173040 Distance: 232 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Shaft Entry Mine Workings/Ground Anomalies Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13SW (SW)	232	7	470960 173040
	Man-Made Mining Cavities Easting: 470940 Northing: 173050 Distance: 237 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: 3 Possible Mine Workings/Ground Anomalies Ground Anomalies Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13SW (SW)	237	7	470940 173050
	Man-Made Mining Cavities Easting: 470950 Northing: 173040 Distance: 238 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: 3 Possible Mine Workings/Ground Anomalies Ground Anomalies Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13SW (SW)	238	7	470950 173040
	Man-Made Mining Cavities Easting: 471050 Northing: 172950 Distance: 281 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: S Cavity Type: 6x Possible Mine Workings/Ground Anomalies Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13SW (S)	281	7	471050 172950
	Man-Made Mining Cavities Easting: 471000 Northing: 172950 Distance: 293 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: S Cavity Type: Multiple Small-Scale Shaft Entry Pillar and Stall Workings Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A13SW (S)	293	7	471000 172950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 470930 Northing: 172950 Distance: 323 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: MINE GALLERY (EXTENT UNKNOWN) GROUND ANOMALIES Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A13SW (SW)	323	7	470930 172950
	Man-Made Mining Cavities Easting: 471050 Northing: 172900 Distance: 330 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Pillar and Stall Chalk Mine (Extent Unknown) Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A8NW (S)	330	7	471050 172900
	Man-Made Mining Cavities Easting: 471000 Northing: 172900 Distance: 341 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Multiple Small-Scale Shaft Entry Pillar and Stall Workings Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A8NW (S)	341	7	471000 172900
	Man-Made Mining Cavities Easting: 470970 Northing: 172830 Distance: 417 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: CHALK MINE TUNNEL Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A8NW (S)	417	7	470970 172830
	Man-Made Mining Cavities Easting: 471000 Northing: 172800 Distance: 438 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Adit and Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A8NW (S)	438	7	471000 172800
	Man-Made Mining Cavities Easting: 470950 Northing: 172800 Distance: 451 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: PROBABLE BELLPIT CHALK MINE Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A8NW (S)	451	7	470950 172800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 470980 Northing: 172740 Distance: 501 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Series Of Small Scale Chalk Mine Tunnels Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A8NW (S)	501	7	470980 172740
	Man-Made Mining Cavities Easting: 471030 Northing: 172720 Distance: 511 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Small Scale Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A8NW (S)	511	7	471030 172720
	Man-Made Mining Cavities Easting: 471100 Northing: 172700 Distance: 527 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Historical Pottery Works-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A8NW (S)	527	7	471100 172700
	Man-Made Mining Cavities Easting: 470540 Northing: 173050 Distance: 584 Quadrant Reference: A12 Quadrant Reference: SE Bearing Ref: W Cavity Type: Old Gravel Pit Pre 1883 But Deepened Possibly for Clay Extraction for Brick Making with Associated Chalk Mine Workings Commodity: Chalk Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravels Detail:	A12SE (W)	584	7	470540 173050
	Man-Made Mining Cavities Easting: 470500 Northing: 173000 Distance: 639 Quadrant Reference: A12 Quadrant Reference: SE Bearing Ref: SW Cavity Type: Voids Encountered During Piling Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A12SE (SW)	639	7	470500 173000
	Man-Made Mining Cavities Easting: 471700 Northing: 172900 Distance: 645 Quadrant Reference: A9 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Subsidence-Over Possible Excavation/Shallow Bell Pit Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Taplow Gravel Detail:	A9NW (SE)	645	7	471700 172900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 471500 Northing: 172650 Distance: 684 Quadrant Reference: A9 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Historical Brickworks-Multiple References to Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A9NW (SE)	684	7	471500 172650
	Man-Made Mining Cavities Easting: 471500 Northing: 172600 Distance: 727 Quadrant Reference: A9 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Shaft described-for Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A9NW (SE)	727	7	471500 172600
	Man-Made Mining Cavities Easting: 471700 Northing: 172700 Distance: 769 Quadrant Reference: A9 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Chalkwell/Possible Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A9NW (SE)	769	7	471700 172700
	Man-Made Mining Cavities Easting: 470350 Northing: 173020 Distance: 773 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Pillar and Stall Chalk workings-Extent Unknown Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A12SW (W)	773	7	470350 173020
	Man-Made Mining Cavities Easting: 470300 Northing: 173200 Distance: 783 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Pillar and Stall Chalk workings-Extent Unknown Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A12SW (W)	783	7	470300 173200
	Man-Made Mining Cavities Easting: 471700 Northing: 172650 Distance: 804 Quadrant Reference: A9 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Historical Brick Works/Extensive Clay Excavations-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A9NW (SE)	804	7	471700 172650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 471790 Northing: 172750 Distance: 804 Quadrant Reference: A9 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Crown Hole Collapse Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A9NW (SE)	804	7	471790 172750
	Man-Made Mining Cavities Easting: 471000 Northing: 172400 Distance: 832 Quadrant Reference: A8 Quadrant Reference: SW Bearing Ref: S 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:	A8SW (S)	832	7	471000 172400
	Man-Made Mining Cavities Easting: 470750 Northing: 172450 Distance: 851 Quadrant Reference: A7 Quadrant Reference: SE Bearing Ref: SW 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:	A7SE (SW)	851	7	470750 172450
	Man-Made Mining Cavities Easting: 471950 Northing: 172890 Distance: 871 Quadrant Reference: A9 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Brick/Tile Kiln Discovered-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A9NE (SE)	871	7	471950 172890
	Man-Made Mining Cavities Easting: 471550 Northing: 172450 Distance: 883 Quadrant Reference: A9 Quadrant Reference: SW Bearing Ref: SE Cavity Type: Shaft described-for Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A9SW (SE)	883	7	471550 172450
	Man-Made Mining Cavities Easting: 471700 Northing: 172500 Distance: 920 Quadrant Reference: A9 Quadrant Reference: SW Bearing Ref: SE Cavity Type: Historical Brick Works-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology Boyn Hill Gravel Detail:	A9SW (SE)	920	7	471700 172500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 471900 Northing: 172700 Distance: 922 Quadrant Reference: A9 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Historical Brick Kiln-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A9NE (SE)	922	7	471900 172700
	Man-Made Mining Cavities Easting: 470170 Northing: 172980 Distance: 956 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W 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:	A12SW (W)	956	7	470170 172980
	Man-Made Mining Cavities Easting: 470700 Northing: 172350 Distance: 963 Quadrant Reference: A7 Quadrant Reference: SE Bearing Ref: SW Cavity Type: Historical Brickfield-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A7SE (SW)	963	7	470700 172350
	Natural Cavities Easting: 471010 Northing: 173200 Distance: 91 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Widened Joint or Fissure x 3 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	91	7	471010 173200
	Natural Cavities Easting: 471100 Northing: 173400 Distance: 97 Quadrant Reference: A13 Quadrant Reference: NW Bearing Ref: N Cavity Type: Solution Pipe x 3 Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A13NW (N)	97	7	471100 173400
	Natural Cavities Easting: 470980 Northing: 173060 Distance: 204 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	204	7	470980 173060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 470990 Northing: 173040 Distance: 215 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	215	7	470990 173040
	Natural Cavities Easting: 471060 Northing: 173010 Distance: 220 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: S Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (S)	220	7	471060 173010
	Natural Cavities Easting: 471040 Northing: 173010 Distance: 224 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (S)	224	7	471040 173010
	Natural Cavities Easting: 471020 Northing: 173010 Distance: 230 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (S)	230	7	471020 173010
	Natural Cavities Easting: 471010 Northing: 173010 Distance: 234 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	234	7	471010 173010
	Natural Cavities Easting: 471010 Northing: 173010 Distance: 234 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	234	7	471010 173010
	Natural Cavities Easting: 471000 Northing: 173010 Distance: 238 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	238	7	471000 173010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 471000 Northing: 173010 Distance: 238 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	238	7	471000 173010
	Natural Cavities Easting: 471000 Northing: 173010 Distance: 238 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	238	7	471000 173010
	Natural Cavities Easting: 470990 Northing: 173010 Distance: 242 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	242	7	470990 173010
	Natural Cavities Easting: 471400 Northing: 173200 Distance: 249 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: E Cavity Type: Solution Pipe x 2 Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A13SE (E)	249	7	471400 173200
	Natural Cavities Easting: 470920 Northing: 173050 Distance: 251 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	251	7	470920 173050
	Natural Cavities Easting: 470970 Northing: 172990 Distance: 269 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (SW)	269	7	470970 172990
	Natural Cavities Easting: 470950 Northing: 172980 Distance: 287 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Solution Pipe x 2 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A13SW (SW)	287	7	470950 172980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 470990 Northing: 172940 Distance: 306 Quadrant Reference: A13 Quadrant Reference: SW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SW (S)	306	7	470990 172940
	Natural Cavities Easting: 471500 Northing: 173300 Distance: 344 Quadrant Reference: A14 Quadrant Reference: NW Bearing Ref: E Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A14NW (E)	344	7	471500 173300
	Natural Cavities Easting: 471500 Northing: 173400 Distance: 366 Quadrant Reference: A14 Quadrant Reference: NW Bearing Ref: E Cavity Type: Solution Pipe x 3 Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A14NW (E)	366	7	471500 173400
	Natural Cavities Easting: 471150 Northing: 172850 Distance: 380 Quadrant Reference: A8 Quadrant Reference: NE Bearing Ref: S Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A8NE (S)	380	7	471150 172850
	Natural Cavities Easting: 471030 Northing: 172850 Distance: 383 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe x 3 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A8NW (S)	383	7	471030 172850
	Natural Cavities Easting: 471000 Northing: 172840 Distance: 399 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A8NW (S)	399	7	471000 172840
	Natural Cavities Easting: 471550 Northing: 173400 Distance: 413 Quadrant Reference: A14 Quadrant Reference: NW Bearing Ref: E Cavity Type: Solution Pipe x 5 Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A14NW (E)	413	7	471550 173400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 471100 Northing: 172760 Distance: 467 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A8NW (S)	467	7	471100 172760
	Natural Cavities Easting: 470990 Northing: 172770 Distance: 469 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A8NW (S)	469	7	470990 172770
	Natural Cavities Easting: 471000 Northing: 172750 Distance: 487 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A8NW (S)	487	7	471000 172750
	Natural Cavities Easting: 471140 Northing: 172730 Distance: 498 Quadrant Reference: A8 Quadrant Reference: NE Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A8NE (S)	498	7	471140 172730
	Natural Cavities Easting: 471130 Northing: 172730 Distance: 498 Quadrant Reference: A8 Quadrant Reference: NE Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A8NE (S)	498	7	471130 172730
	Natural Cavities Easting: 471000 Northing: 172720 Distance: 516 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A8NW (S)	516	7	471000 172720
	Natural Cavities Easting: 471040 Northing: 172670 Distance: 560 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A8NW (S)	560	7	471040 172670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 471040 Northing: 172650 Distance: 580 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A8NW (S)	580	7	471040 172650
	Natural Cavities Easting: 471040 Northing: 172640 Distance: 589 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A8NW (S)	589	7	471040 172640
	Natural Cavities Easting: 471020 Northing: 172640 Distance: 592 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A8NW (S)	592	7	471020 172640
	Natural Cavities Easting: 471030 Northing: 172630 Distance: 600 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A8NW (S)	600	7	471030 172630
	Natural Cavities Easting: 471600 Northing: 172800 Distance: 627 Quadrant Reference: A9 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Unknown Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A9NW (SE)	627	7	471600 172800
	Natural Cavities Easting: 470380 Northing: 172990 Distance: 755 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12SW (W)	755	7	470380 172990
	Natural Cavities Easting: 470370 Northing: 173000 Distance: 760 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Solution Pipe x 2 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12SW (W)	760	7	470370 173000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 470490 Northing: 172690 Distance: 811 Quadrant Reference: A7 Quadrant Reference: NE Bearing Ref: SW Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A7NE (SW)	811	7	470490 172690
	Natural Cavities Easting: 470250 Northing: 173160 Distance: 837 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A12SW (W)	837	7	470250 173160
	Natural Cavities Easting: 470240 Northing: 173160 Distance: 847 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12SW (W)	847	7	470240 173160
	Natural Cavities Easting: 470240 Northing: 173150 Distance: 849 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12SW (W)	849	7	470240 173150
	Natural Cavities Easting: 470500 Northing: 172500 Distance: 941 Quadrant Reference: A7 Quadrant Reference: SE Bearing Ref: SW Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A7SE (SW)	941	7	470500 172500
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	471119 173268
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	150	1	471043 173088
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	152	1	471058 173080
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	161	1	471091 173065
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	174	1	471033 173065
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	199	1	471021 173043

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	202	1	471042 173033
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	210	1	470989 173046
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	211	1	471083 173016
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	224	1	471010 173021
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	471119 173268
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	198	1	471263 173075
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	471119 173268
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	198	1	471263 173075
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	471119 173268
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	4	1	471083 173254
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	48	1	471077 173183
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	68	1	471013 173256
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	144	1	471076 173443
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	144	1	471082 173444
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	148	1	471009 173421
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	198	1	471263 173075
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	250	1	471334 173068
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	471119 173268
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	4	1	471083 173254
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	471119 173268
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	4	1	471083 173254

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	48	1	471077 173183
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	198	1	471263 173075
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	471119 173268
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	48	1	471077 173183
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	198	1	471263 173075
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	471119 173268
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	471119 173268

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
202	Contemporary Trade Directory Entries Name: Colorama Free Film Photo Centres Location: 54, Broad Street Mall, Reading, RG1 7QE Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	71	-	471160 173377
203	Contemporary Trade Directory Entries Name: Service Point Uk Ltd Location: 23-25, Oxford Road, Reading, RG1 7QG Classification: Copying & Duplicating Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	117	-	471225 173389
203	Contemporary Trade Directory Entries Name: Brighthouse Location: 22-23, Broad Street Mall, Reading, RG1 7QE Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	128	-	471254 173367
204	Contemporary Trade Directory Entries Name: Carpet Cleaning Reading Location: 35, Castle Street, Reading, RG1 7SB Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	121	-	471267 173204
205	Contemporary Trade Directory Entries Name: No 1 Cleaning Co Location: 30, Anstey Road, READING, RG1 7JR Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	127	-	471030 173119
206	Contemporary Trade Directory Entries Name: D E S Home Appliances Ltd Location: 109a, Oxford Road, Reading, RG1 7UD Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	139	-	470963 173367
206	Contemporary Trade Directory Entries Name: Colourflow Location: 109, Oxford Road, Reading, RG1 7UD Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	139	-	470963 173367
206	Contemporary Trade Directory Entries Name: Adam Halal Meat Location: Reading, Berkshire, Rg1 7lj Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	147	-	470987 173404
206	Contemporary Trade Directory Entries Name: Hobbs Of Reading Location: 102, Oxford Road, Reading, RG1 7LL Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	176	-	470945 173404
206	Contemporary Trade Directory Entries Name: Dots Laundry Location: 102, OXFORD ROAD, READING, RG1 7LL Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	176	-	470945 173404
206	Contemporary Trade Directory Entries Name: Hobbs Of Reading Location: 102, Oxford Road, Reading, RG1 7LL Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	176	-	470945 173404
207	Contemporary Trade Directory Entries Name: U T P Merchant Services Ltd Location: Zenith House, Cheapside, Reading, RG1 7AQ Classification: Cash Registers & Check-Out Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	145	-	471152 173453

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
208	Contemporary Trade Directory Entries Name: Minute Man Press Location: 82, Oxford Road, Reading, RG1 7LJ Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	150	-	470997 173415
209	Contemporary Trade Directory Entries Name: Reading Carpentry Services Ltd Location: 1a, Eaton Place, Reading, RG1 7LP Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	189	-	470939 173417
209	Contemporary Trade Directory Entries Name: Burghfield Bridge Tyres Location: 2, Eaton Place, Reading, RG1 7LP Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (NW)	221	-	470934 173457
210	Contemporary Trade Directory Entries Name: Cleaners Reading Location: 15, Castle Street, Reading, RG1 7SB Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	196	-	471348 173211
210	Contemporary Trade Directory Entries Name: Wasteking Ltd Location: 7, Castle Street, Reading, RG1 7SB Classification: Rubbish Clearance Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	226	-	471383 173229
211	Contemporary Trade Directory Entries Name: Carpets Like New Reading Location: 32, St. Marys Butts, Reading, RG1 2LS Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	202	-	471359 173282
211	Contemporary Trade Directory Entries Name: Kall Kwik Location: 32, St. Marys Butts, Reading, RG1 2LS Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (E)	202	-	471359 173282
212	Contemporary Trade Directory Entries Name: J C Electrics Reading Ltd Location: Atlantis House, 122, Castle Street, Reading, RG1 7RG Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	205	-	471029 173033
213	Contemporary Trade Directory Entries Name: Magal Engineering Ltd Location: Headley Road, Reading, Berkshire, RG1 7RS Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	210	-	470925 173108
213	Contemporary Trade Directory Entries Name: Arc Tooling Technology Location: 23, Jesse Terrace, Reading, RG1 7RS Classification: Tool Design, Manufacturers & Makers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	211	-	470927 173103
213	Contemporary Trade Directory Entries Name: Clean Supreme Services Location: 25, Jesse Terrace, Reading, RG1 7RS Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	213	-	470929 173097
214	Contemporary Trade Directory Entries Name: Forest Gold Location: 76 Broad St, Reading, Berkshire, RG1 2AP Classification: Bags, Belts & Accessories - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	217	-	471326 173421

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
214	Contemporary Trade Directory Entries Name: The Discount Photo Co Location: 21, West Street, Reading, RG1 1TT Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	218	-	471297 173460
214	Contemporary Trade Directory Entries Name: Suprema Location: 19, West Street, Reading, RG1 1TT Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	220	-	471294 173467
215	Contemporary Trade Directory Entries Name: D J Wyeth Location: 4, Waylen Street, Reading, RG1 7UR Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	226	-	470857 173332
215	Contemporary Trade Directory Entries Name: Adam'S Halal Meat Market Hmc Location: 137, Oxford Road, Reading, RG1 7UU Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	262	-	470827 173360
216	Contemporary Trade Directory Entries Name: Scamellperformance Location: 17, Swan Place, READING, RG1 6QD Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	228	-	471317 173081
217	Contemporary Trade Directory Entries Name: Prim Location: 7, West Street, Reading, RG1 1TT Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	253	-	471276 173522
217	Contemporary Trade Directory Entries Name: Everest Jewellery Location: 4, West Street, Reading, RG1 1TT Classification: Jewellery Manufacturers & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	254	-	471271 173527
218	Contemporary Trade Directory Entries Name: R B M Wound Components Ltd Location: 22a, Baker Street, Reading, RG1 7XX Classification: Transformer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	260	-	470837 173182
219	Contemporary Trade Directory Entries Name: M S B Autos Location: 114-116, Oxford Road, Reading, Berkshire, RG1 7NE Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	266	-	470840 173406
219	Contemporary Trade Directory Entries Name: Berkshire Car Sales Location: 114-116, Oxford Road, Reading, Berkshire, RG1 7NE Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	266	-	470840 173406
220	Contemporary Trade Directory Entries Name: Reading Borough Council - Pest Control Location: Civic Offices, Bridge Street, Reading, RG1 2LU Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	280	-	471417 173150
220	Contemporary Trade Directory Entries Name: Reading Borough Council Location: Civic Offices, Bridge Street, Reading, RG1 2LU Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	280	-	471417 173150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
359	Contemporary Trade Directory Entries Name: My Home Services Location: 1-3, Kendrick Road, Reading, RG1 5DX Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (E)	996	-	472086 172893
359	Contemporary Trade Directory Entries Name: Myhome Location: 1-3, Kendrick Road, Reading, RG1 5DX Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (E)	996	-	472086 172893
360	Contemporary Trade Directory Entries Name: Silverwire Ltd Location: 1, Wesley Gate, Queens Road, Reading, Berkshire, RG1 4AP Classification: Photo & Digital Imaging Bureaus Status: Inactive Positional Accuracy: Manually positioned to the address or location	A15SW (E)	997	-	472154 173219
361	Fuel Station Entries Name: Welldale Service Station Location: Chatham Street , , Reading, Reading, RG1 7JF Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	190	-	471025 173477
362	Fuel Station Entries Name: Tilehurst Sf Connect Location: Tilehurst Road , , Reading, Reading, RG1 7TW Brand: BP Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A12SE (SW)	481	-	470665 173017
363	Fuel Station Entries Name: Parsons Garage Location: 211-221, Oxford Road , , Reading, Reading, RG1 7PX Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A12NE (W)	593	-	470498 173408
364	Fuel Station Entries Name: Berkeley Service Station Location: 10, Berkeley Avenue , , Reading, Reading, RG1 6JE Brand: ESSO Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A8NW (S)	604	-	470987 172633
365	Fuel Station Entries Name: Krisco Reading Service Station Location: 150, Oxford Road , , Reading, Reading, RG1 7PJ Brand: Bp Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A12NE (W)	636	-	470465 173455
366	Fuel Station Entries Name: Save Reading Location: Berkeley Avenue , , Reading, Reading, RG1 6JS Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A8SW (S)	657	-	471113 172570
367	Fuel Station Entries Name: Cardiff Road Service Station Location: 165-7, Cardiff Road , , Reading, Reading, RG1 8HY Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A17NE (NW)	917	-	470614 174081
367	Fuel Station Entries Name: Brs Southern Location: Cardiff Road , , Reading, Reading, RG1 8HW Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the road within the address or location	A17NE (NW)	958	-	470583 174110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
409	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	A7NE (SW)	620	8	470573 172897
409	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	A7NE (SW)	620	8	470573 172897
410	Points of Interest - Education and Health Name: Care (UK) Location: 57 Kings Road, Reading, RG1 3DD Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A14NE (E)	886	8	472032 173407
411	Points of Interest - Manufacturing and Production Name: Reading Business Centre Location: Fountain House 2, Queens Walk, Reading, RG1 7QF Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A13NE (NE)	29	8	471154 173335
412	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	183	8	470963 173103
413	Points of Interest - Manufacturing and Production Name: Tank Location: RG1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	183	8	471322 173172
414	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	284	8	470832 173127
414	Points of Interest - Manufacturing and Production Name: Works Location: RG1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	284	8	470832 173127
415	Points of Interest - Manufacturing and Production Name: Q V Offices Location: 25-27 Queen Victoria Street, Reading, RG1 1SY Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A14NW (NE)	408	8	471500 173501
416	Points of Interest - Manufacturing and Production Name: Works Location: 1a Merchants Place, Reading, RG1 1DT Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A18SE (NE)	432	8	471441 173618
417	Points of Interest - Manufacturing and Production Name: Tank Location: RG1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	476	8	470640 173474
418	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	566	8	470794 173780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
432	Points of Interest - Manufacturing and Production Name: Tank Location: RG1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	956	8	470796 174208
432	Points of Interest - Manufacturing and Production Name: Tanks Location: RG1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	959	8	470798 174212
432	Points of Interest - Manufacturing and Production Name: Tank Location: RG1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	992	8	470820 174253
432	Points of Interest - Manufacturing and Production Name: Tank Location: RG1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	998	8	470788 174250
433	Points of Interest - Manufacturing and Production Name: Tank Location: RG1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	974	8	472106 173035
434	Points of Interest - Manufacturing and Production Name: Tank Location: RG1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	986	8	470603 174155
435	Points of Interest - Public Infrastructure Name: Thames Valley Police Location: Castle Street, Reading, RG1 7TH Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SE (SE)	96	8	471205 173158
435	Points of Interest - Public Infrastructure Name: Thames Valley Police Location: Castle Street, Reading, RG1 7TH Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SE (SE)	96	8	471205 173158
435	Points of Interest - Public Infrastructure Name: Reading Police Station Location: Castle Street, Reading, RG1 7TH Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SE (SE)	97	8	471205 173158
436	Points of Interest - Public Infrastructure Name: Weir Location: RG1 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	363	8	471414 172988
436	Points of Interest - Public Infrastructure Name: Weir Location: RG1 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	367	8	471419 172987
436	Points of Interest - Public Infrastructure Name: Sluices Location: RG1 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	414	8	471495 173007

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
455	Nitrate Vulnerable Zones Name: Thames Wallingford To Caversham Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NW (NW)	99	4	471000 173350

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	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

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	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
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.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	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.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.

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

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

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	KPGR	KEMPTON PARK GRAVEL MEMBER	Sand and Gravel	Not Supplied - Devensian
	LASI	Langley Silt Member	Clay and Silt	Not Supplied - Devensian
	BGGR	Beenham Grange Gravel Member	Sand and Gravel	Not Supplied - Devensian
	TPGR	TAPLOW GRAVEL MEMBER	Sand and Gravel	Not Supplied - Wolstonian
	LHGR	Lynch Hill Gravel Member	Sand and Gravel	Not Supplied - Wolstonian
	BHT	Boyn Hill Gravel Member	Sand and Gravel	Not Supplied - Hoxnian
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Gravel, Sand, Silt and Clay	Not Supplied - Quaternary
	RTD6	River Terrace Deposits, 6	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

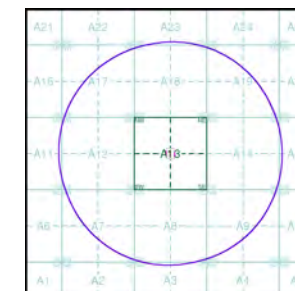
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	325443622_1_1
Customer Reference:	J23282
National Grid Reference:	471120, 173270
Slice:	A
Site Area (Ha):	0.48
Search Buffer (m):	1000

Site Details:

The Hexagon, Queens Walk, READING, RG1 7QF



Artificial Ground and Landslip

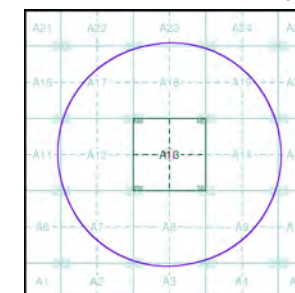
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

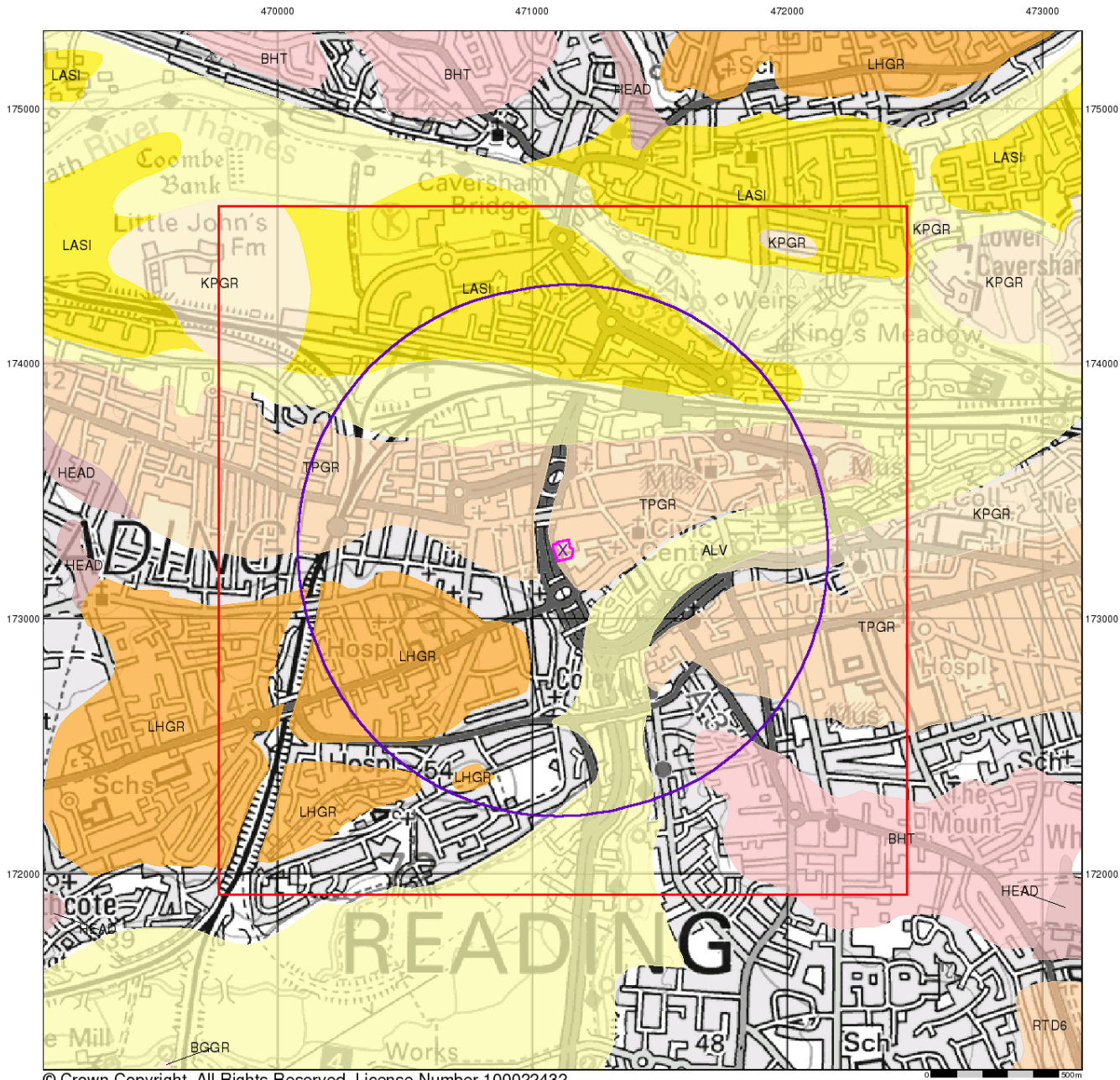


Order Details:

Order Number: 325443622_1_1
 Customer Reference: J23282
 National Grid Reference: 471120, 173270
 Slice: A
 Site Area (Ha): 0.48
 Search Buffer (m): 1000

Site Details:

The Hexagon, Queens Walk, READING, RG1 7QF



© Crown Copyright. All Rights Reserved. License Number 100022432.



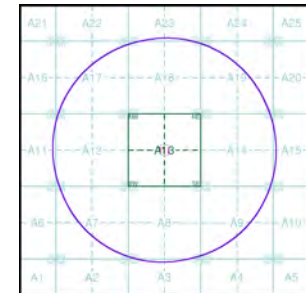
Superficial Geology

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:

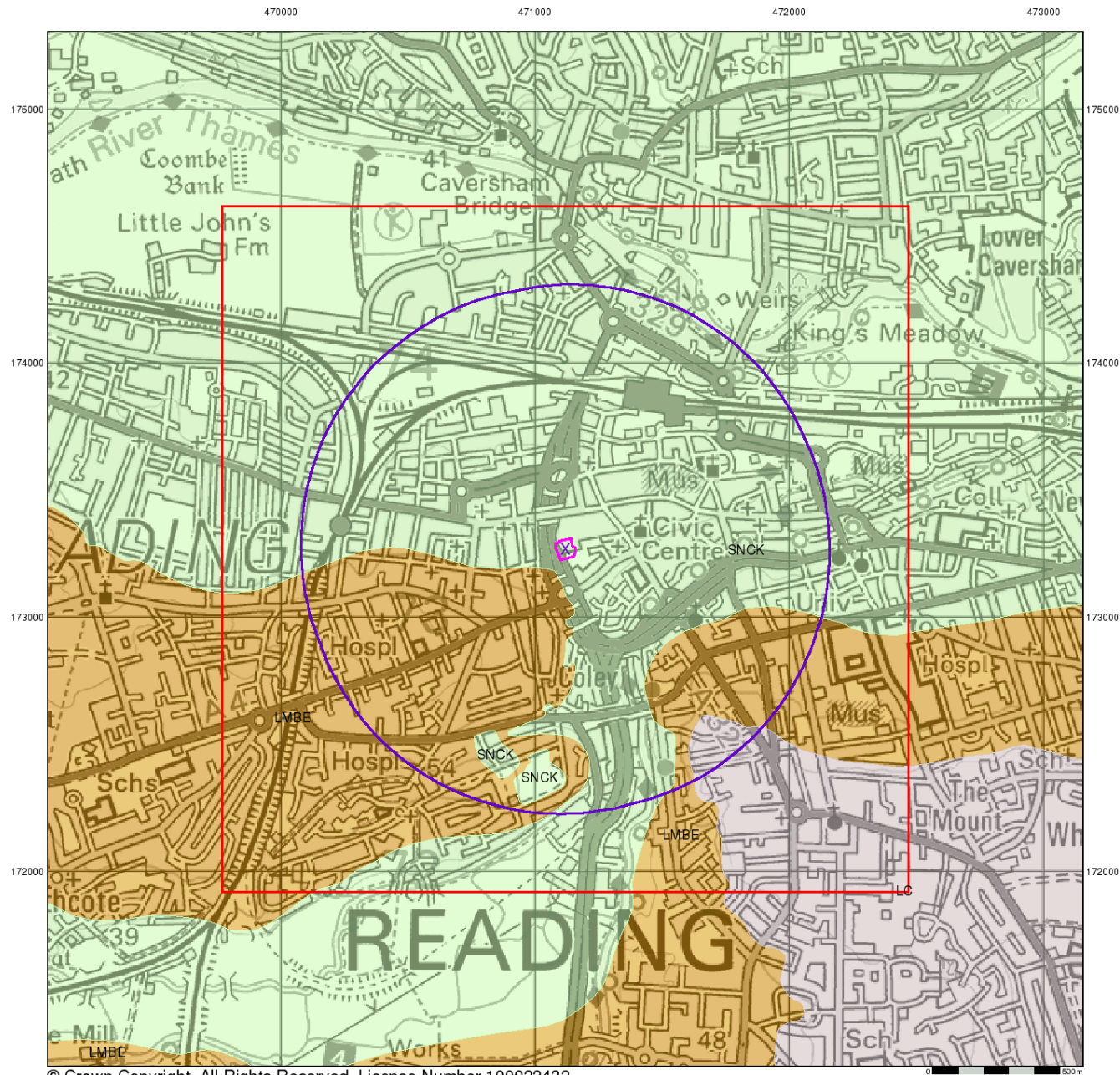
Order Number: 325443622_1_1
 Customer Reference: J23282
 National Grid Reference: 471120, 173270
 Slice: A
 Site Area (Ha): 0.48
 Search Buffer (m): 1000

Site Details:

The Hexagon, Queens Walk, READING, RG1 7QF



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



Bedrock and Faults

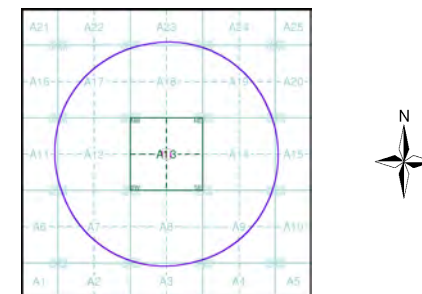
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

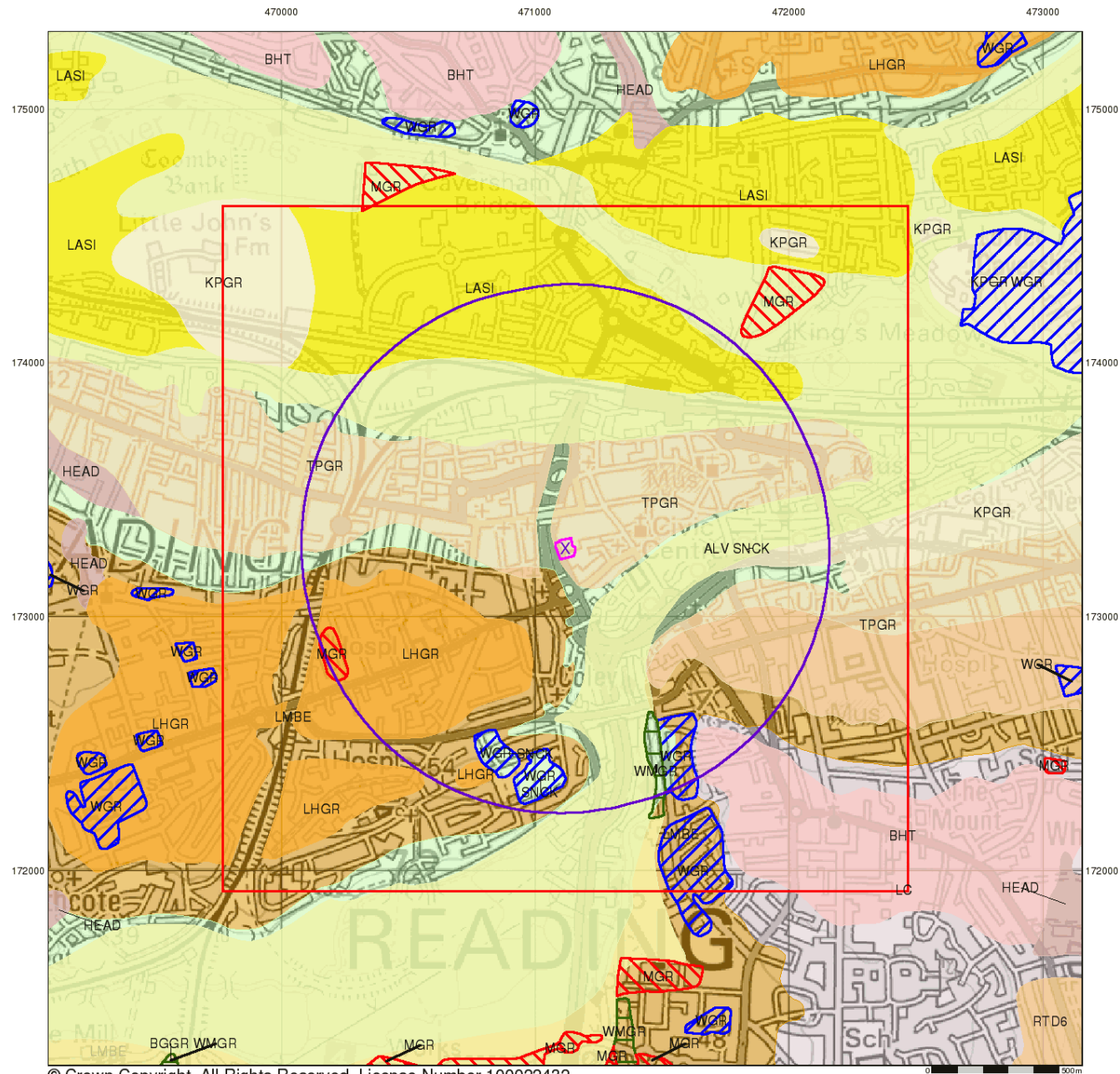


Order Details:

Order Number:	325443622_1_1
Customer Reference:	J23282
National Grid Reference:	471120, 173270
Slice:	A
Site Area (Ha):	0.48
Search Buffer (m):	1000

Site Details:

The Hexagon, Queens Walk, READING, RG1 7QF



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.

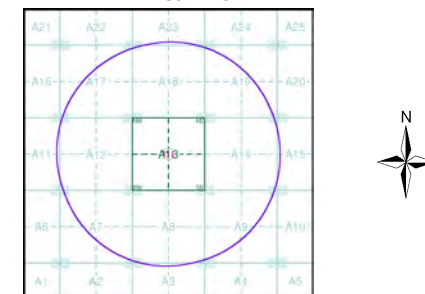
Additional Information

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

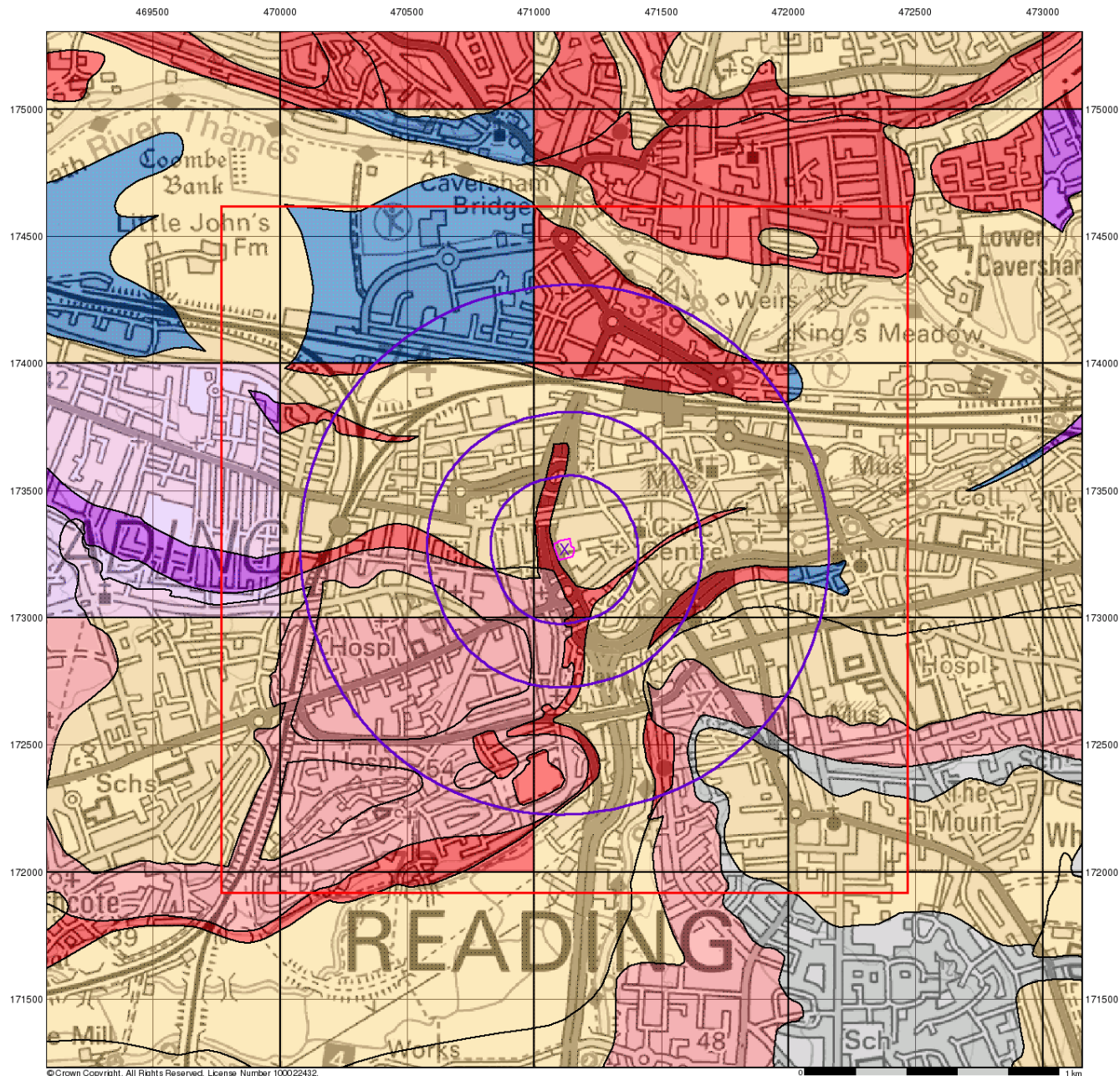


Order Details:

Order Number:	325443622_1_1
Customer Reference:	J23282
National Grid Reference:	471120, 173270
Slice:	A
Site Area (Ha):	0.48
Search Buffer (m):	1000

Site Details:

The Hexagon, Queens Walk, READING, RG1 7QF



Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

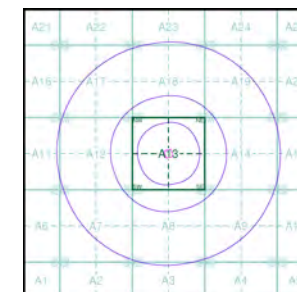
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A

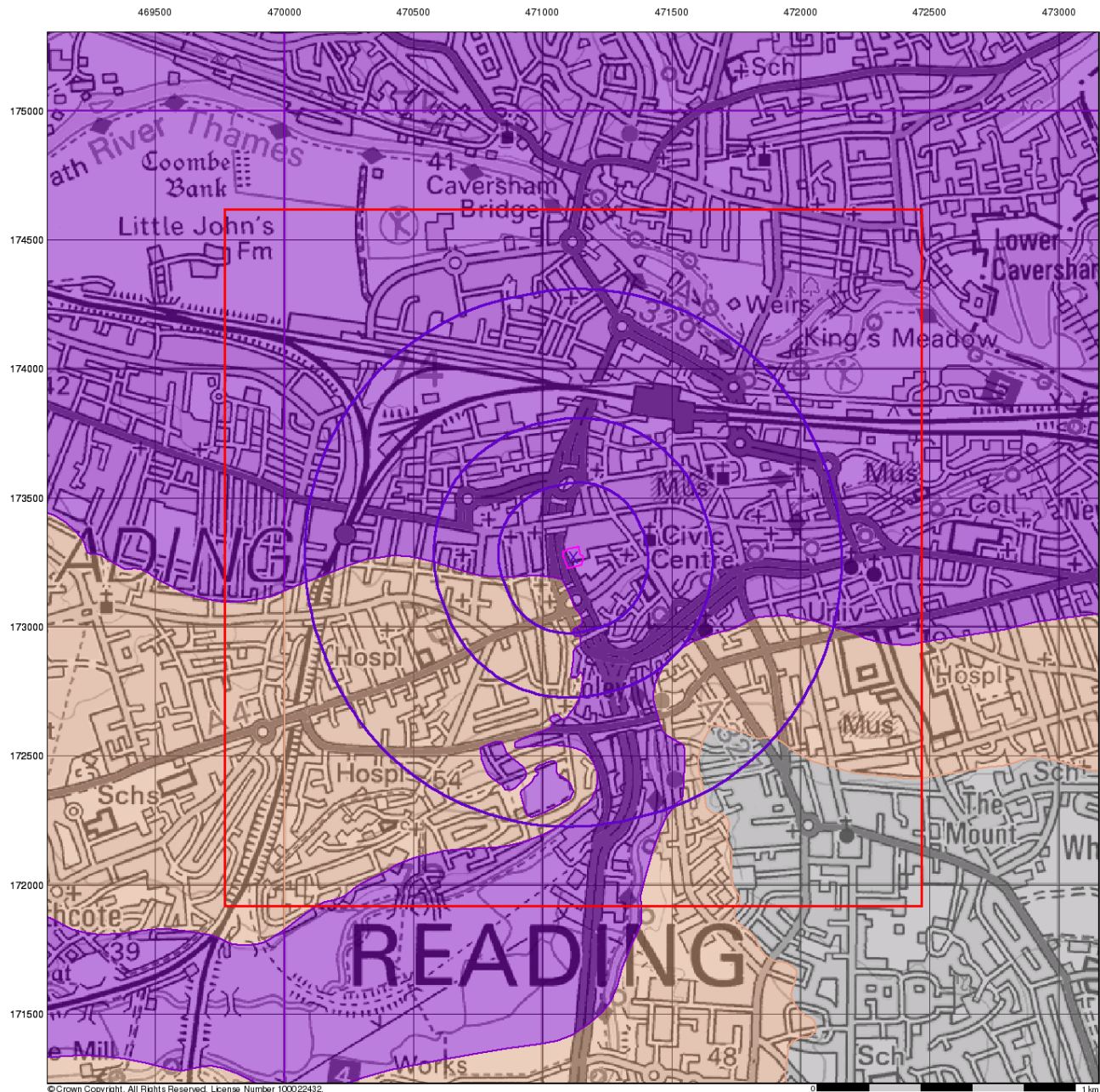


Order Details

Order Number: 325443622_1_1
 Customer Ref: J23282
 National Grid Reference: 471120, 173270
 Slice: A
 Site Area (Ha): 0.48
 Search Buffer (m): 1000

Site Details

The Hexagon, Queens Walk, READING, RG1 7QF



Bedrock Aquifer Designation

General

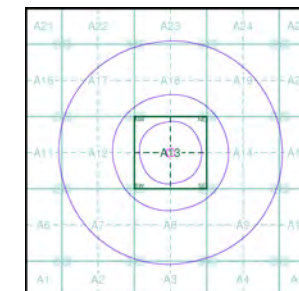
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

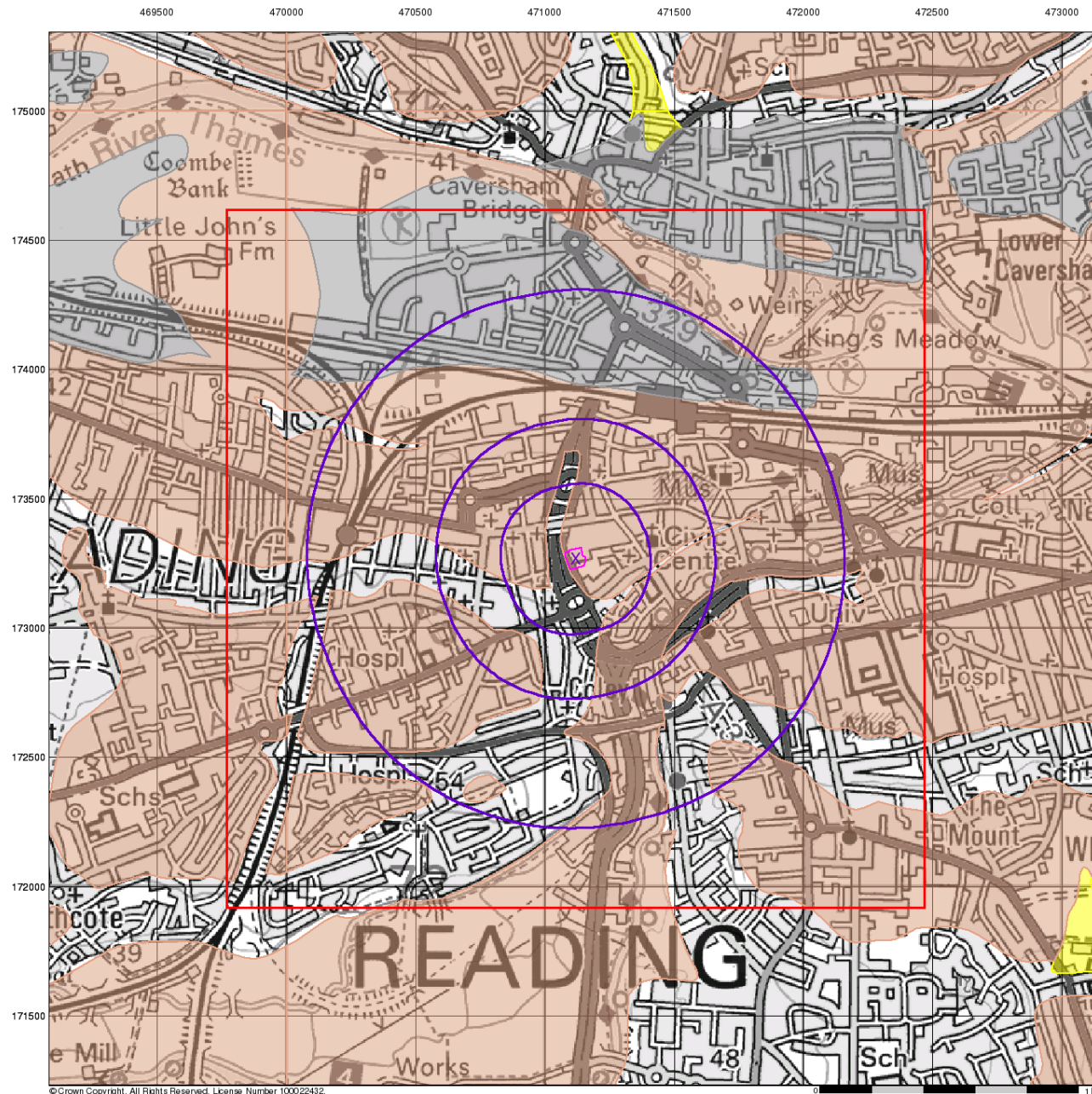


Order Details

Order Number: 325443622_1_1
 Customer Ref: J23282
 National Grid Reference: 471120, 173270
 Slice: A
 Site Area (Ha): 0.48
 Search Buffer (m): 1000

Site Details

The Hexagon, Queens Walk, READING, RG1 7QF



Superficial Aquifer Designation

General

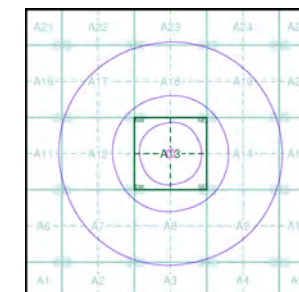
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

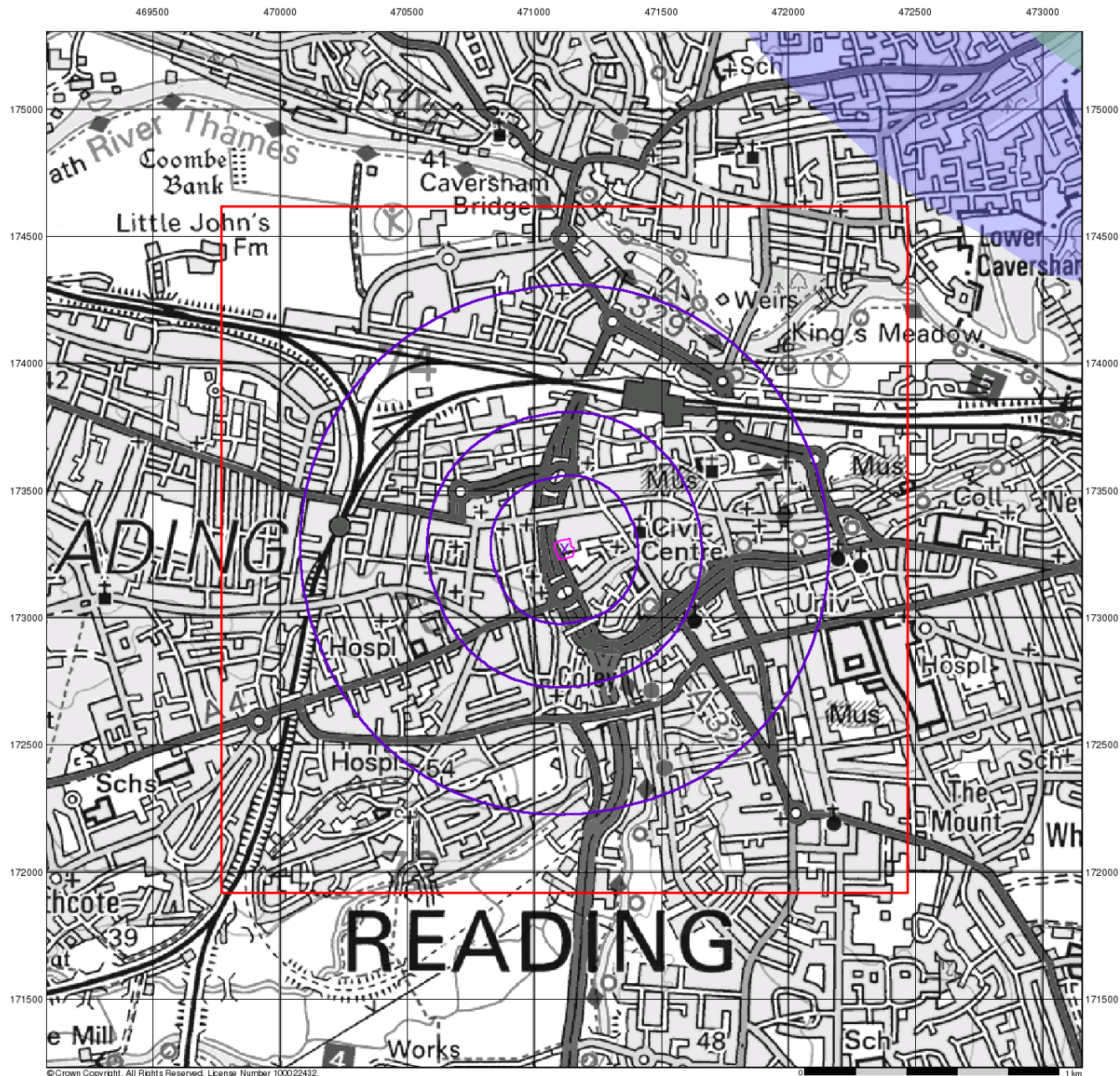
Order Number: 325443622_1_1
 Customer Ref: J23282
 National Grid Reference: 471120, 173270
 Slice: A
 Site Area (Ha): 0.48
 Search Buffer (m): 1000

Site Details

The Hexagon, Queens Walk, READING, RG1 7QF



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



Source Protection Zones

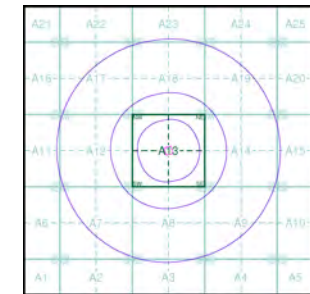
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

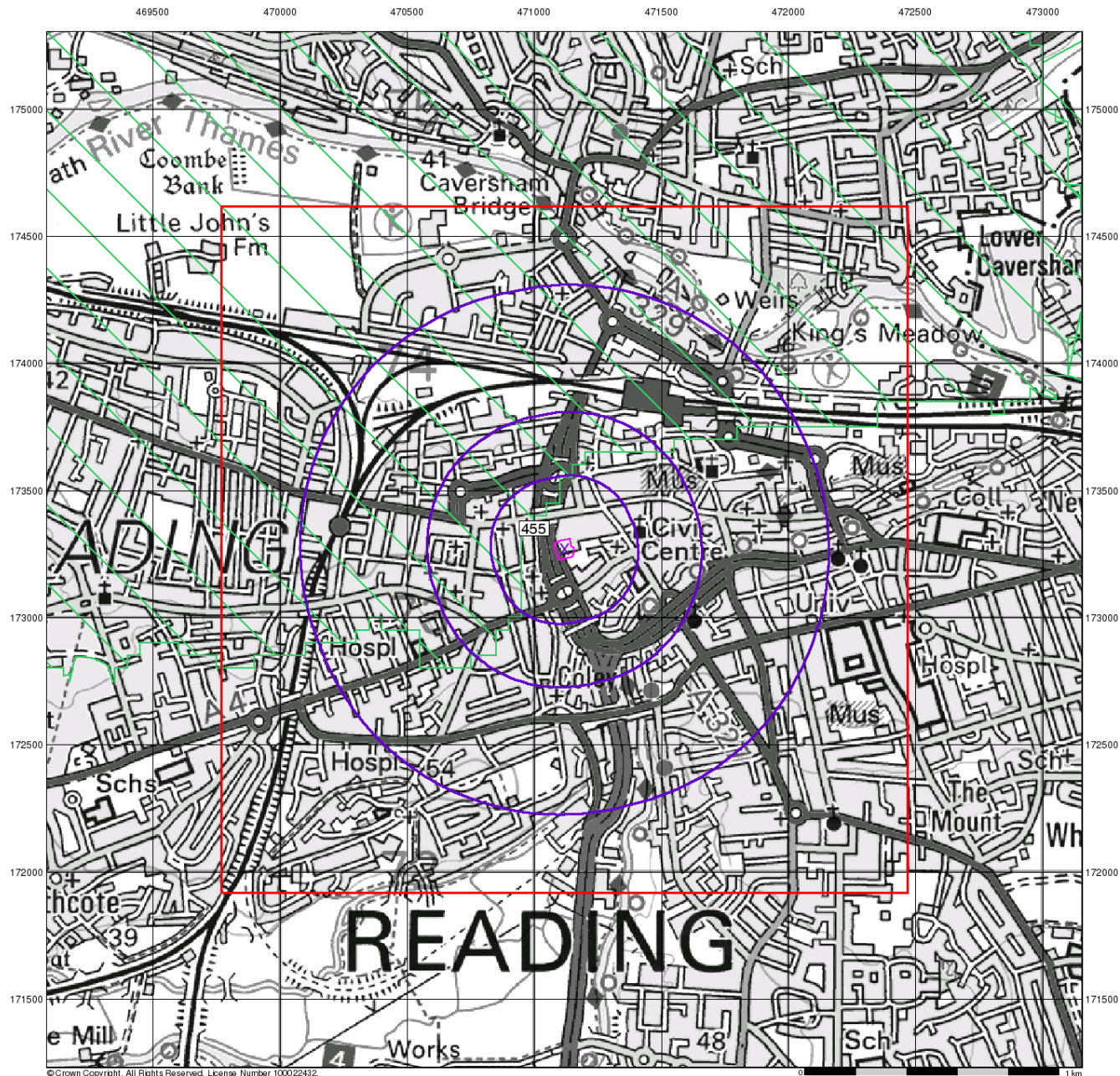
Order Number: 325443622_1_1
 Customer Ref: J23282
 National Grid Reference: 471120, 173270
 Slice: A
 Site Area (Ha): 0.48
 Search Buffer (m): 1000

Site Details

The Hexagon, Queens Walk, READING, RG1 7QF



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



Sensitive Land Uses

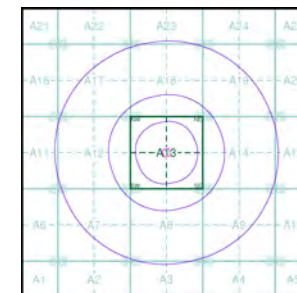
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

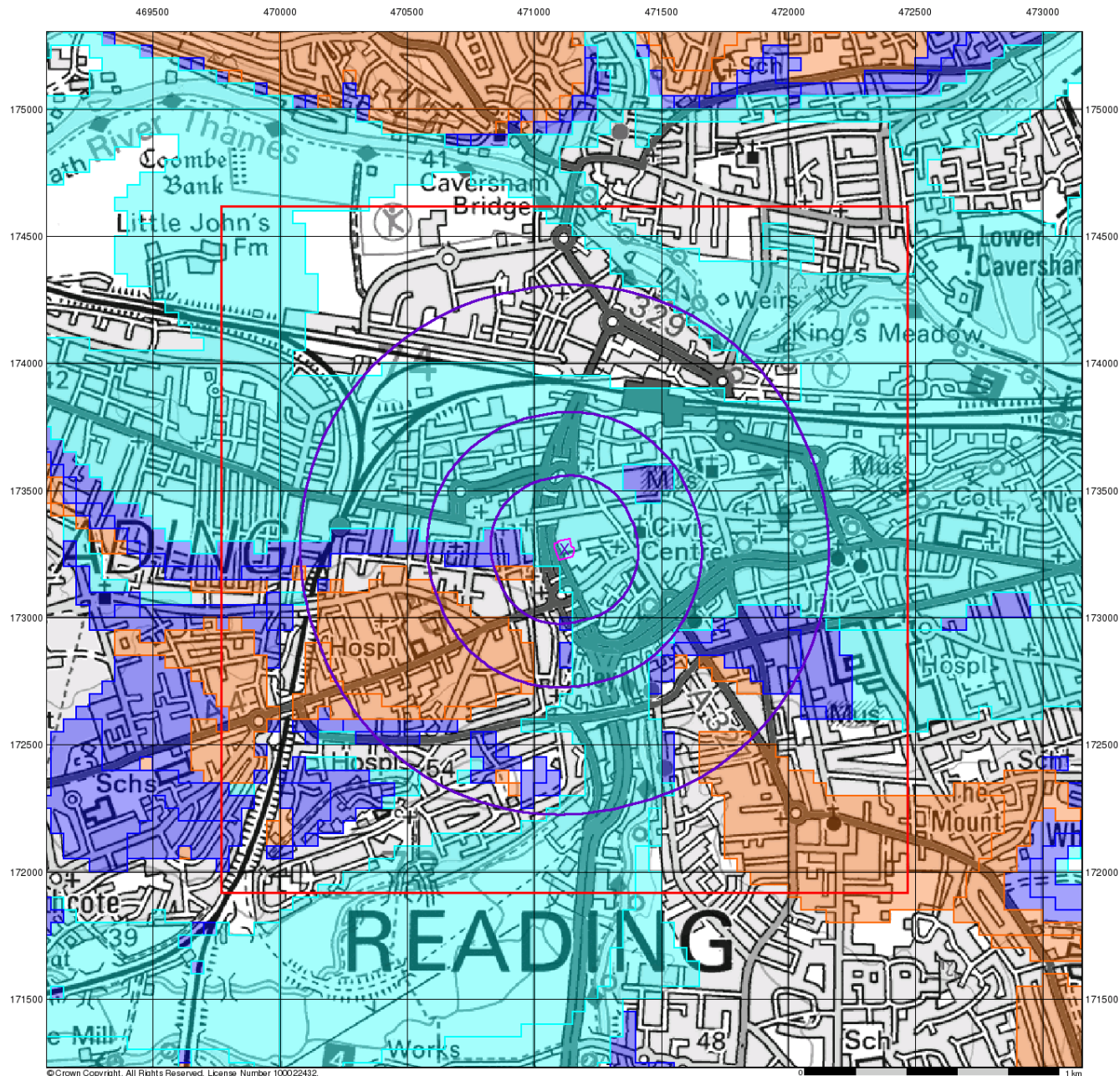
Order Number: 325443622_1_1
 Customer Ref: J23282
 National Grid Reference: 471120, 173270
 Slice: A
 Site Area (Ha): 0.48
 Search Buffer (m): 1000

Site Details

The Hexagon, Queens Walk, READING, RG1 7QF



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



BGS Flood GFS Data

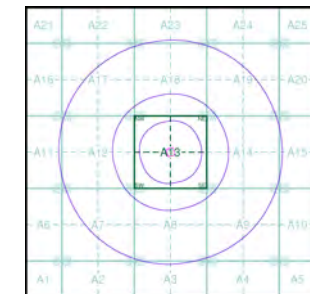
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

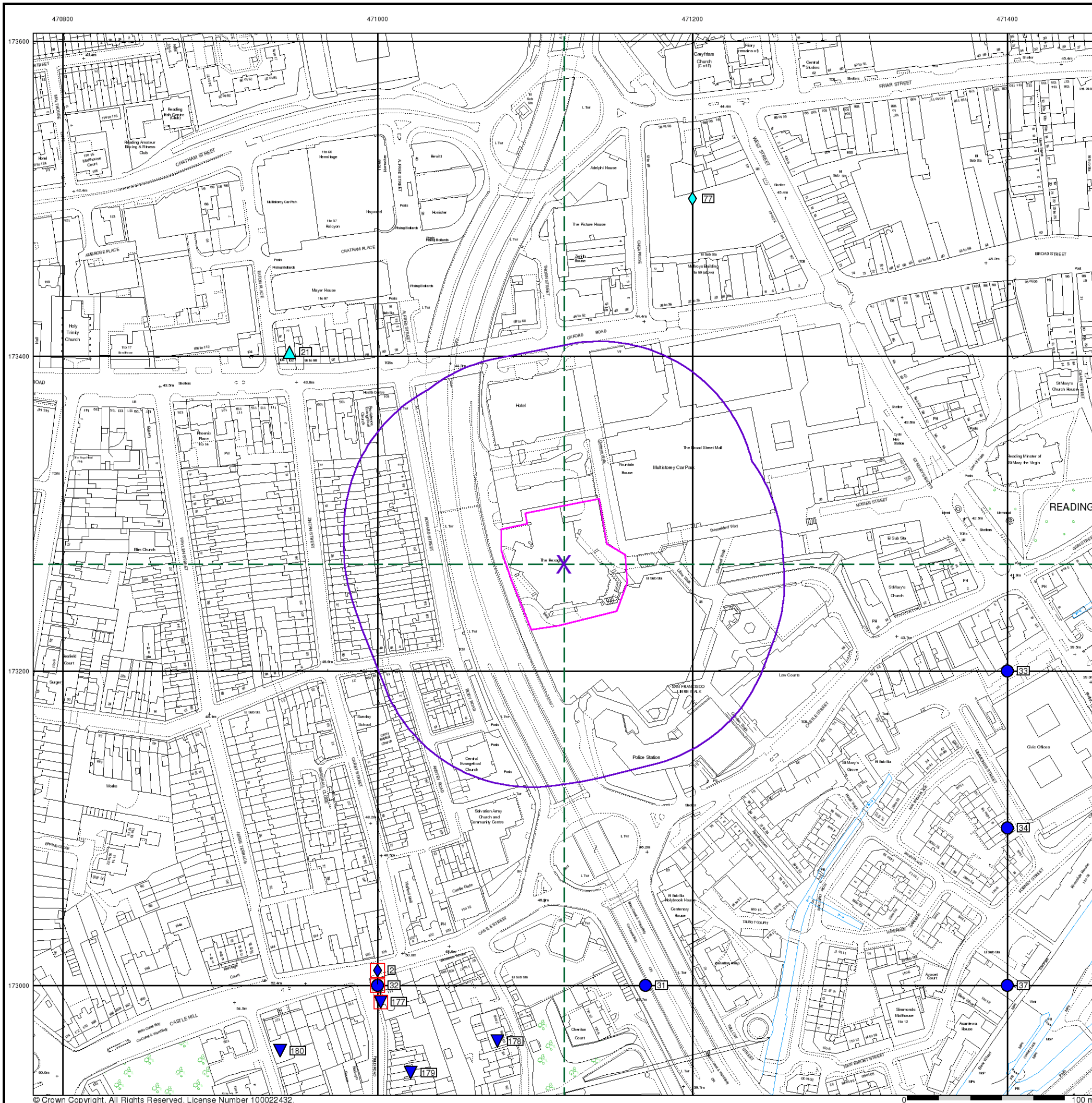
Order Number: 325443622_1_1
 Customer Ref: J23282
 National Grid Reference: 471120, 173270
 Slice: A
 Site Area (Ha): 0.48
 Search Buffer (m): 1000

Site Details

The Hexagon, Queens Walk, READING, RG1 7QF



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



General

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

Agency and Hydrological

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

Hazardous Substances

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

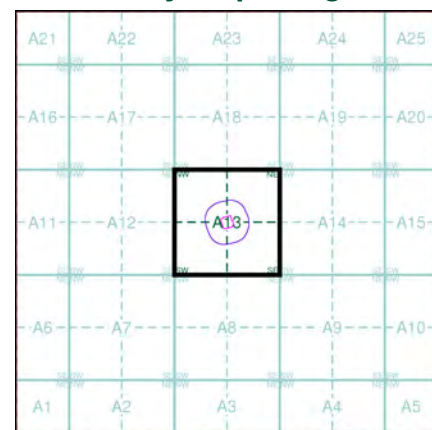
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A13



Order Details

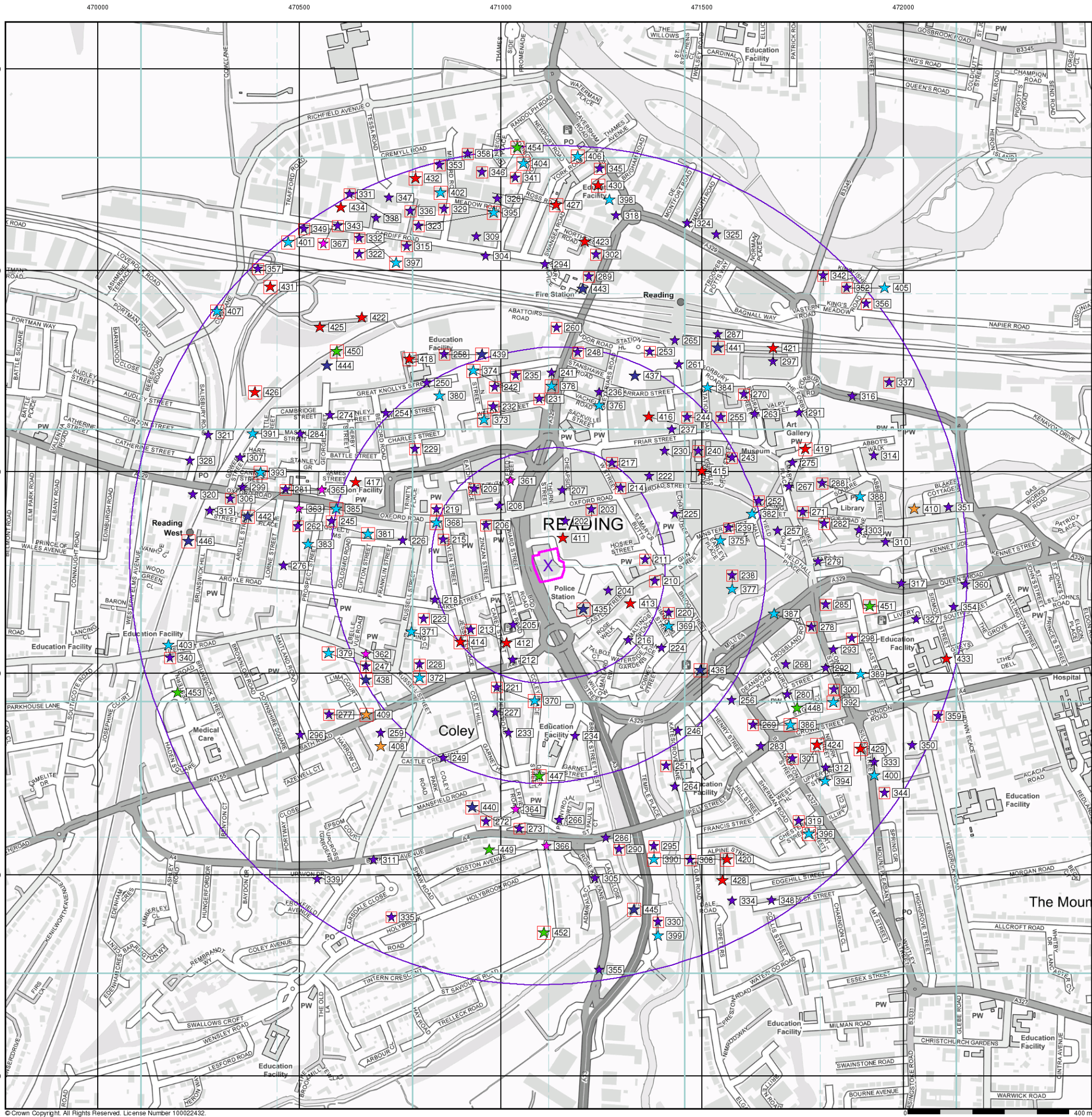
Order Number: 325443622_1_1
Customer Ref: J23282
National Grid Reference: 471120, 173270
Slice: A
Site Area (Ha): 0.48
Plot Buffer (m): 100

Site Details

The Hexagon, Queens Walk, READING, RG1 7QF



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



Industrial Land Use Map

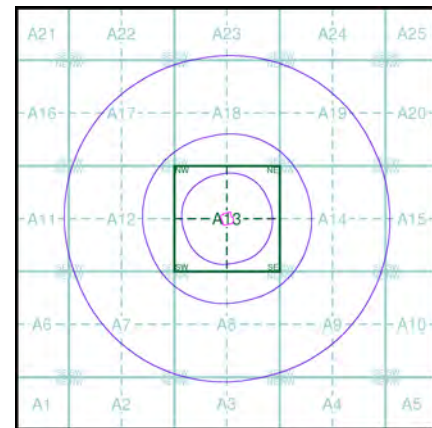
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- 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: 325443622_1_1
Customer Ref: J23282
National Grid Reference: 471120, 173270
Slice: A
Site Area (Ha): 0.48
Search Buffer (m): 1000

Site Details

The Hexagon, Queens Walk, READING, RG1 7QF



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