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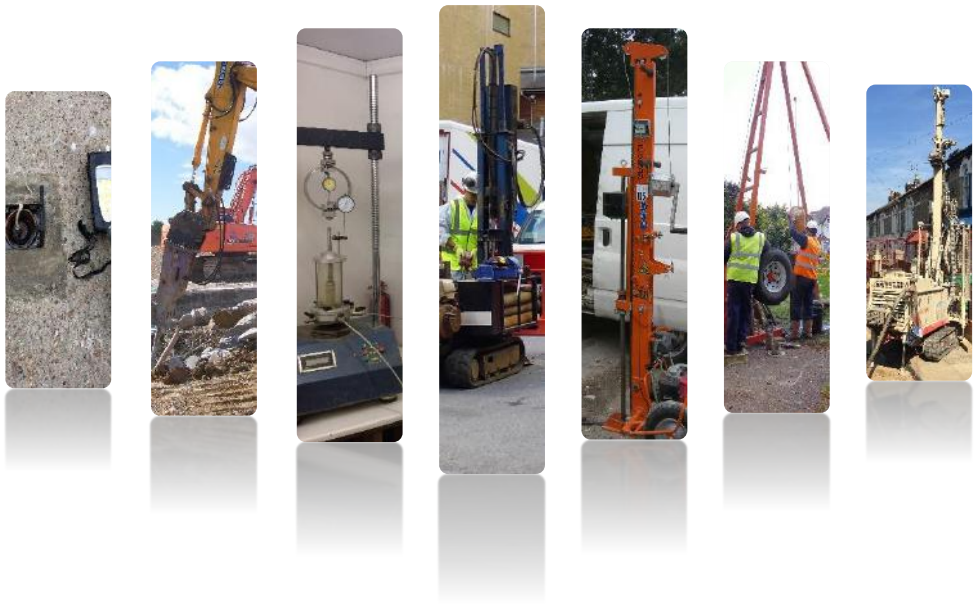
PROJECT No. RML 6980

PHASE I, *NON-INTRUSIVE* & PHASE II, *INTRUSIVE*, SITE INVESTIGATION

AT
LONDON SCHOOL OF THEOLOGY, NORTHWOOD

ON BEHALF OF
WESTCOMBE HOMES LIMITED

June 2019



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APPENDICES

1.0 INTRODUCTION & SCOPE OF WORKS

1.1 This report has been prepared by Risk Management Limited under cover of the Client, Westcombe Homes Limited's, signed Instructions to Proceed, dated 12th May 2019.

1.2 The Architects for the project are Messrs. Fluent Architectural Design Services.

1.3 The site under consideration is located within the grounds of the London School of Theology, Green Lane, Northwood, London, HA6 2UW.

1.4 The approximate six-figure grid reference for the centre of the site is 508830E,191580N.

1.5 It is understood that the proposed development will comprise demolition of the existing two blocks of flats and erection of 12 new apartments with associated parking, cycle storage, motorcycle parking, disabled parking and bin storage. Further details of the proposed development can be found on the appended Messrs. Fluent Architectural Design Services, Drawing Nos. FLU.249.3A.02

1.6 Risk Management Limited have now been commissioned to carry out an investigation into the site comprising both a Phase I, *Non-Intrusive,* Desk Study and a Phase II, *Intrusive*, Site Investigation.

1.7 The Desk Study comprises a Walkover Survey, an Environmental Disclosure Report, Historical Map Search and a Preliminary Unexploded Ordnance Assessment and covers the whole of the site.

1.8 It should be noted that the current Desk Study is designed for geo-environmental purposes only and does not include a Structural Survey, Ecological Survey, above ground or building Asbestos Survey or an Invasive Plant Survey for Japanese Knotweed, Giant Hogweed etc.

1.9 The *Intrusive* site investigation provides information on the sub-soil conditions at this site, together with laboratory testing and includes a land-borne gas monitoring survey.

1.10 This report presents the work carried out and discusses the findings.

2.0 WALKOVER SURVEY

2.1 A Walkover Survey of the site under investigation, and that of the immediate surrounding area, was carried out by Risk Management Limited on Monday 3rd June 2019.

2.2 The site is an irregular shape in plan, covers an area of approximately 0.31ha and has a downward slope from north to south. The local topography appears to fall generally from north-east to south-west. Access to the site is gained directly from Green Lane via a shared access road and pavement crossover.

2.3 The site is currently occupied by 2 No. two-storey blocks of flats both constructed in masonry with one having a copper sheet roof and the other a tiled roof. Between the two buildings is a double garage constructed in brickwork under a corrugated cement sheet roof. The northern part of the site provides private gardens mainly laid to lawn and with mature shrubs and bushes to the borders. The eastern part of the site provides a blacktop surfaced car parking area and access road. In the north-east corner of the site is a fenced enclosure containing building equipment and materials. The south-west part of the site provides a level communal garden area mainly laid to lawn with paved footpaths and access steps to the perimeter. There are several mature and semi-mature trees within the site and along the site boundaries.

2.4 The northern boundary to the current site is formed mainly by wire chain link fencing with some timber panel fencing at the western end. Beyond the boundary there are residential properties with private gardens.

2.5 The eastern boundary to the current site is formed by timber panel fencing. Beyond the boundary there are residential apartments with landscaped areas and communal gardens.

2.6 The southern boundary to the current site is formed in part by a Yew Hedge and in part is undefined where it crosses the grassed area at the western end of the boundary and the grassed area and access road at the east end of the boundary. Beyond the boundary are the buildings, gardens and parking areas associated with Aldis House. Further beyond are the footways and roadway and footway of Green Lane and then residential apartments with landscaped areas and communal gardens.

2.7 The western boundary to the current site is formed in part by a wire chain link fence and a timber panel fence. Beyond the boundary are the communal grounds, parking areas and buildings of The London School of Theology.

2.8 Within the site several drainage manholes were noted and a water supply stopcock was also noted in the footpath in the southern part of the site. In the nearside footway of Green Lane, the presence of telecommunications, water, street lighting, drainage and CATV services was noted. In the roadway, the presence of drainage gulleys, manholes and gas and water services were noted. In the far side footway, the presence of telecommunications (including green exchange boxes), water, street lighting, drainage, fire hydrant and CATV services was noted. There is also an electricity sub-station on the far side of Green Lane.

2.9 The site lies in a mainly residential area of Northwood with local shops, educational facilities, public open space and recreational facilities in evidence close by.

2.10 No visual or olfactory evidence of contamination was noted during the Walkover Survey.

2.11 Plates 1 to 3, appended, show general photographs of the site at the time of the current Walkover Survey.

3.0 PHASE 1 ENVIRONMENTAL RISK ASSESSMENT

3.1 An EnviroCheck Report was commissioned for the current site covering an area of up to 1000m from the centre of the site.

3.2 Only criteria within 250m of the centre of the site are discussed in detail below but full results of all the search criteria up to 1000m from the centre of the site are summarised within the relevant pages of the appended EnviroCheck Report.

Geo-Environmental Hazards

3.3 The following table summarises the potential geo-environmental hazards and mitigation measures for this site.

Data Type	Hazard	Mitigation Measures for currently proposed development
Landfill & Waste Management Facilities	The Local Authorities responsible for Landfill Coverage are designated as the London Borough of Hillingdon which has not been able to supply data and Hertfordshire County Council & Three Rivers District Council both of which have supplied data. There are no Recorded, Historical or Registered Landfill Sites, Licensed Waste Management Facilities, Waste Transfer Treatment or Disposal Site entries within the 0-250m search band. There is one local authority recorded landfill site in the 501-1000m search band. There are 2 Potentially infilled land (non-water) and 3 (water) entries in the 0-250m search band. The nearest non-water entry relates to unknown filled ground (pit, quarry, etc) 141m to the south-west and the nearest water entry relates to unknown filled ground (pond, marsh. river, etc.) 36m to the south.	Gas-monitoring will be undertaken as part of the current Phase II *intrusive* site investigation.
Local Authority Pollution Prevention and Controls	There is one Local Authority Pollution Prevention and Control entry within the 0-250m search band. This relates to a dry cleaners some 213m to the east of the site. There are four entries in the 251-1000m search band.	None required.
Hazardous Substances	There are no Hazardous Substances entries within the 0-1000m search band.	None required.
Coal Mining	The site lies in an area which would not normally be affected by coal mining activity	None required

Mining Instability	There is one Mining Instability entry within the 0-250m search band, which refers to rock mining at the site.	This will be addressed by the current Phase II *intrusive* site investigation.
Non-Coal Mining Areas of Great Britain	There are three Non-Coal mining areas entries within the 0-250m search band. The nearest is at the site and has an "unlikely" risk. The other two are 31m and 81m to the east and have "likely" and "highly likely" risks respectively.	This will be addressed by the current Phase II *intrusive* site investigation.
Collapsible Ground Stability	There is a "Very Low" Hazard potential on site from Collapsible Ground Stability	None required.
Compressible Ground Stability	There is "No" Hazard potential on site from Compressible Ground Stability	None required.
Ground Dissolution Stability	There is "No" Hazard potential on the site from Ground Dissolution Stability.	None required.
Landslide Stability	There is "Very Low" Hazard potential on site from Landslide stability.	None required.
Running Sand Stability	There is "Very Low" Hazard potential on site from Running Sand stability.	None required.
Shrinking or Swelling Clay Stability.	There is "Moderate" Hazard potential on site from Shrinking or Swelling Clay Stability.	This will be addressed by the current Phase II *intrusive* site investigation.
Radon	The site does not fall within shaded sections of Annexe A of BRE Report 211 (2007) "Radon: guidance on protective measures for new dwellings". Therefore, ***No Radon Protective Measures will be necessary in the construction of new buildings at this location***	None required.
Contemporary Trade Directory Entries	There are no 'active' Contemporary Trade Directory entries within the 0-250m search band. There are five entries in the 251-500m search band the nearest of which is a Frozen Food Processors & Distributors some 281m to the east.	None required
Historic Contemporary Trade Directory Entries	There are two Historic Trade Directory entries within the 0-250m search band, these are 151m to the north and 211m to the east and relate to a Children & Baby Wear manufacturer and a Dry Cleaners respectively.	Non-targeted Contamination testing will be undertaken as part of the current Phase II *intrusive* site investigation.
Fuel Station Entries	There are no Fuel Station entries within the 0-250m search band and one obsolete entry within the 251-500m search band.	None required. Nearest hazards are in excess of 250m from site.
Sensitive Land Use	There is one Sensitive Land Use entry within the 0-250m search band. This relates to surface water run-off in the Colne and GUC (Grand Union Canal) Nitrate Vulnerable Zone within which the site is situated. These zones can be influenced by both the site and the surrounding area.	Ensure no significant pathway is created between the site surface and any underlying aquifer formation.

Hydrology and Hydrogeology

3.4 The following table summarises the potential **Hydrology and Hydrogeology** aspects for this site.

	Hazard	Mitigation Measures for currently proposed development
Discharge Consents	There are two Discharge Consent entries within the 0-250m search band. These relate to a surrendered and a temporary consent for Thames Water Utilities to discharge sewage from a pumping station to Cannon Brook 127m to the South. There are entries for two surrendered consents and two temporary consents within the 251 - 1000m search band.	None required.
Nearest Surface Water Feature	The nearest surface water feature entry is 133m to the south of the current site. This appears to be a watercourse or drainage channel running along the north-west boundary of Northwood College.	None required
Water Abstractions	No Water Abstractions are noted within the 0-1000m search band.	None required.
Pollution Incidents to Controlled Waters	There are no Pollution Incidents to Controlled Water entries within the 0-250m search band and two entries within the 251-500m search band. The nearest entry relates to a Category 3-minor incident where oils were discharged to an unnamed water 326m to the south-west.	None required
Groundwater Vulnerability	The appended Groundwater Vulnerability Map indicates that the northern part of the site lies in an area of Unproductive aquifer. The southern part, mainly the access road, lies an area of 'Secondary Aquifer' with soils of medium leaching potential in both the Bedrock and Superficial strata.	Some Contamination testing will be undertaken as part of the current Phase II *intrusive* site investigation.
Bedrock Aquifer Designations	The Bedrock Aquifer Designation is given as 'Unproductive Strata' for the northern part of the site and 'Secondary-A Aquifer' for the southern part.	
Superficial Aquifer Designations	The Superficial Aquifer does not have a designation as there is no Data Available.	
Source Protection Zones	The appended Source Protection Zone Map indicates that the site lies within the outer zone (Zone 2) of an Environment Agency Source Protection Zone (SPZ).	
Flood Risk	The site lies over the outer zone (Zone 2) of an Environment Agency Source Protection Zone (SPZ). however, there is no potential for groundwater flooding to occur. There is a low risk of surface water flooding both on the site and in the roadway outside the site entrance.	A full Flood Risk Assessment is outside the scope of the current Report.

3.5 From reference to Ordnance Survey mapping the nearest watercourse would appear to be approximately 135m to the south-east of the current site. The watercourse flows southwards towards Ruislip Lido and then into the River Pinn just to the north of Ruislip Golf Course. The River Pinn flows in a south-westerly direction towards the River Colne, which then flows south and discharges to the River Thames at Staines.

3.6 The general hydraulic gradient for the catchment is assumed to be in a westerly or south-westerly direction towards the River Colne and the Colne Valley. The local hydraulic gradient is assumed to be in a southerly direction towards the unnamed watercourse. Therefore, only potential sources of contamination to the north of the site are considered likely to have any significant impact.

4.0 HISTORICAL MAPS

4.1 The following ten historical maps covering the site are discussed below.

4.1.1 1883 (1:2,500)

The map of 1883 shows the site situated in an area of fields and some tree planting. An un-named building is situated in the southern part of the site.

The surrounding area to the north is open fields with some tree planting. To the north-east there are fields with tree planting to the margins leading to Greenhill Farm. To the east and south east there are fields with tree planting to the margins leading to Green Lane Farm. To the south is an un-named building. Beyond that Green Lane has been established and beyond Green Lane is an area of woodland with a well and ponds. To the south-west there are open fields leading to an un-named pit or quarry and beyond that an un-named road is shown. Beyond the road is a public house and an area with rough grassland and marshland. To the west there are open fields with tree planting at the margins leading to Northwood House and a farm set in mixed woodland. To the north-west there are open fields with tree planting at the margins leading to a Farm.

4.1.2 1896 (1:2,500)

The map of 1896 shows the site situated in an area laid out with building plots. Two un-named buildings occupy the southern part of the site and there is some tree planting in the south-west corner of the site.

To the north the open fields and tree planting are no longer shown. Buildings plots have been established and Dene Road is laid out. Beyond Dene Road more building plots have been established. To the north-east the fields and tree planting are no longer shown. Building plots have been established alongside Dene Road and some residential development has taken place. The buildings at Greenhill Farm can still be seen. Further beyond are more building plots leading to railway tracks set in cutting. To the east the fields and tree planting are no longer shown, and more building plots have been established. Beyond that Dene Road is laid out and further beyond some residential development has taken place. To the south-east the fields and tree planting are no longer shown. Green Lane has been widened and beyond that is an area of open land.

Further beyond, more building plots have been established and new roads laid out. The areas to the south remains generally unchanged with the previous area of woodland now open land and beyond that more building plots have been established and some residential development has taken place. To the south-west the open fields and un-named pit or quarry are no longer shown. Some un-named buildings and a public house have been established alongside the un-named road and some residential development has taken place. The un-named road is now shown as Rickmansworth Road and beyond that the area appears generally unchanged. To the west the area appears generally unchanged. Northwood House is now named Northwood Grange. To the north-west the area appears generally unchanged. Dene Road is laid out and beyond that some residential development has taken place.

4.1.3 1913 (1:2,500)

The map of 1913 shows the current site still situated in an area laid out with building plots. The trees and the previous two un-named buildings in the southern part of the site are no longer shown and part of another un-named building now occupies the south-eastern part of the current site.

To the north, north-east and east residential properties with private gardens have been constructed on the building plots to both sides of Dene Road. The pond at Greenhill Farm is no longer shown. To the south-east residential properties with private gardens have been constructed and further beyond more residential development has taken place. To the south the area of open land has been laid out with building plots and some residential properties with private gardens have been constructed. An un-named watercourse is shown at the boundary of the new building plots. Further beyond, Northwood College has been established and more residential development has taken place. The areas to the south-west, west and north-west appear generally unchanged.

4.1.4 1935 (1:2,500)

The map of 1935 shows the site still situated in an area laid out with building plots. The south-eastern part of the current site is occupied by two unnamed buildings.

To the north, north-east, east and south-east the area appears generally unchanged. Some new residential development has taken place on the far side of Dene Road. To the south the area appears generally unchanged. Some new residential development has taken place on the far side of Green Lane. The un-named watercourse has been extended and a playing field has been established at Northwood College. To the south-west and west the area appears generally unchanged. Some new residential development has taken place at the junction of Green Lane and Rickmansworth Road. To the north-west the area appears generally unchanged.

4.1.5 1960 (1:2,500)

The map of 1960 shows the site now situated in the grounds of St. Johns Hall. The south eastern part of the site is occupied by three un-named buildings. The northern and eastern part of the site are occupied by an orchard and mixed woodland.

To the north, north-east, east and south-east the areas appear generally unchanged. To the north a private garden with orchards and mixed woodlands has now been laid out and to the south-east, beyond Green Lane, a car park has been established. To the south and south-west beyond Green Lane residential properties with private gardens have been constructed. To the west the open fields are no longer shown and has been developed with St Johns Hall, playing fields and a tennis court. To the north-west the area appears generally unchanged. Some new development has taken place alongside Dene Road.

4.1.6 1970 -1976 (1:1,250)

The map of 1970-1976 shows the site located in the 1970 part of the mapping. The un-named buildings, orchard and mixed woodlands are no longer shown, and the main part of the site is now occupied by two un-named buildings, assumed to be the blocks of flats currently occupying the site.

To the north the private garden is no longer shown, and a new road has been laid out and Residential properties with private gardens constructed. Beyond Dene Road more new roads have been laid out and residential properties constructed. To the north-east new roads have been laid out and residential properties with private gardens constructed.

To the east properties have been demolished, new roads laid out and residential properties with communal grounds and private gardens have been constructed. To the south and south-east the areas appear generally unchanged. To the south-west new roads have been laid out and residential properties with communal grounds constructed. Beyond Rickmansworth Road, The Gravel Pits public open space has been established. To the west the area appears generally unchanged. To the north-west an electricity sub-station is shown. Residential properties with private gardens have been constructed alongside Dene Road and beyond that a new road laid out and residential properties constructed.

4.1.7 1992 (1:1,250)

The map of 1992 shows the current site generally unchanged and St. Johns Hall now renamed as the London Bible College.

To the north properties have been demolished, existing roads extended and residential properties with private gardens constructed. To the north-east beyond Dene Road existing roads have been extended and residential properties with private gardens constructed. To the east properties have been demolished and residential properties with communal grounds constructed. To the south-east beyond the car park and an un-named watercourse a new road is laid out and residential properties with communal grounds have been constructed. To the south the area appears generally unchanged. To the south-west properties have been demolished new roads laid out and residential properties with private gardens constructed. To the west the area appears generally unchanged. To the north-west new roads have been laid out and residential properties with private gardens constructed.

4.1.8 1999 (Aerial Photograph)

The aerial photograph of 1999 shows the site still occupied by two buildings.

The immediate surrounding area appears generally unchanged.

4.1.9 2006 (1:10,000)

The map of 2006 shows the shows the site still occupied by two un-named buildings.

The immediate surrounding area appears generally unchanged.

4.1.10 2019 (1:10,000)

The map of 2019 shows the current buildings occupying the site.

The immediate surrounding area appears generally unchanged and as found during the current site walkover survey.

5.0 FIELDWORK

5.1 Fieldwork was generally executed in accordance with the recommendations given in British Standard BS 5930:2015, "Code of Practice for Ground Investigations". Contamination sampling was undertaken in accordance with BS 10175:2011, "Code of Practice for the Investigation of Potentially Contaminated Sites".

5.2 Borehole locations are shown on the appended Sketch Fieldwork Location Plan, Drawing No. RML 6980/1.

5.3 Fieldwork was undertaken between the 20th and 24th May 2019 and comprised the following:-

Cable Percussion Borehole

5.4 One cable percussion borehole (BH1) was drilled at this site, to a depth of 20.00m below existing ground level.

5.5 Small disturbed samples together with nominally undisturbed U100 samples were taken from the borehole at regular depth intervals within each stratum and when a change of strata was encountered.

5.6 In addition, Standard Penetration Tests (SPT's) were carried out within the borehole in order to provide additional information on the consistency of the material encountered. The appended SPT versus Depth Profile plots SPT 'N' values against depth for borehole BH1.

5.7 Full details of the cable percussion borehole findings are given on the appended borehole record sheets.

Drive-in-Sampler Boreholes

5.8 Owing to access restrictions, and in addition to the above noted cable percussion borehole, six drive-in-sampler boreholes (DIS1-DIS6) were drilled across the site. Borehole DIS2 was drilled to a depth of 5.00m below existing ground level and boreholes DIS1 and DIS3-DIS6 were drilled to a depth of 3.00m below existing ground level.

5.9 The drive-in-sampler comprises a series of 1 and 2 metre long metal tubes, varying in diameter from 80mm down to 35mm, driven into the ground using a mini-hydraulic breaker unit. The tubes are subsequently jacked out of the ground and side windows enable the tubes to be cleaned and small disturbed samples to be taken at regular intervals within each stratum.

5.10 Small disturbed samples were taken at regular depth intervals down the boreholes.

5.11 Upon completion of borehole DIS2 a combined groundwater/gas monitoring standpipe was installed to a depth of 5.00m below existing ground level. The monitoring installation comprised a 1 metre length of plain 19mm diameter HDPE pipe followed by slotted geotextile wrapped HDPE pipe, capped at the base. A cement/bentonite seal was installed from 1.00m to ground level and the installation finished with a gas valve on top of the pipe and a lockable stopcock cover concreted in flush with ground level.

5.12 Full details of the drive-in-sampler borehole findings are given on the appended borehole record sheets.

MEXE Probe (CBR) Tests

5.13 Six MEXE Probe tests (CBR1-CBR6) were undertaken at 0.50m depth across the site in order to provide California Bearing Ratio (CBR) information for road pavement design.

5.14 The MEXE Probe consists of a cast aluminium housing containing a calibrated compression spring, operating shafts and dials with a CBR cone. The instrument is forced into the ground and an average of the readings obtained is considered the CBR value.

5.15 The following CBR test values were obtained at 0.50m below existing ground level.

CBR1 (DIS1)	-	2.5%
CBR2 (DIS2)	-	3%
CBR3 (DIS3)	-	2.5%
CBR4 (DIS4)	-	2%
CBR3 (DIS5)	-	2.5%
CBR3 (DIS6)	-	2.5%

Falling Head Permeability Test

5.16 A Falling Head Permeability Test (SA1) was carried out at 1.24m depth within the standpipe installed in borehole DIS2.

5.17 The permeability test was undertaken in accordance with B.S. 5930:1999 Part 25.4.3 Variable Head Test.

5.18 Full details are given on the attached summary sheet together with any assumptions made to obtain the permeability of the material tested and to help assess the drainage potential of the ground for proposed soakaways.

Land-Borne Gas Monitoring

5.19 Following the initial site work, three return gas/groundwater monitoring visits have been undertaken to the installation fitted within borehole DIS2 on the 3rd, 11th & 20th June 2019.

5.20 On each visit the barometric pressure was recorded together with the level of Carbon Dioxide, Oxygen and Methane. In addition, gas flow measurements were taken and the depth to groundwater recorded.

5.21 Full details of the readings are included on the appended Gas/Groundwater Monitoring Record Sheet.

6.0 GROUND CONDITIONS

6.1 According to information published by the British Geological Survey (Sheet 255, Beaconsfield) the underlying geology at this site is shown as being Reading Beds (Lambeth Group) of the Eocene Period overlying Upper Chalk of the Cretaceous Period.

6.2 The Lambeth Group is the new name for the previous Woolwich and Reading Beds and includes the Thanet Sand formation.

6.3 The Woolwich and Reading Beds can be up to 10m thick near Lewisham and the formation includes a variety of lithologies laid down in a lagoonal or estuarine environment. The beds contain multi-coloured silty sandy clays interbedded in parts with sands and silts and sometimes gravel.

6.4 The Thanet Sand is often between 5 and 6 metres thick but beneath the Thames Estuary can be in the order of 30m thick. The bulk of the Thanet Sand consists of silty fine-grained sand which tends to be clayey and more silty with depth. The colour varies between greenish-grey and brownish-grey. In south-east London the sand is often patchily cemented by calcium carbonate into large irregular sandstone masses. The beds often contain glauconite and there is a basal conglomerate layer containing rounded flint pebbles. The Thanet Sand would be expected to rest directly onto Chalk.

6.5 The Lambeth Group is complex but generally comprises a clay mottled in part with beds of sand, pebbles and shells and can be summarised as follows:

Reading Beds	-	"upper mottled clay"
Woolwich Formation	-	"laminated clay, silt and sand beds"
		"shelly clay"
Reading Formation	-	"Lower mottled clay and sand beds"
Upnor Formation	-	"Sand and flint Gravel"
Thanet Sand Formation	-	"Silty fine Sand"

6.6 The Chalk Group is composed predominantly of chalk, a very fine grained pure limestone. Up to 90% of the carbonate sediment is composed of minute calcite crystals a few microns across, derived from the disintegration of coccoliths which are the skeletons of algae that thrived in the Late Cretaceous seas.

6.7 The Upper Chalk succession in the South-East is relatively thin because it is condensed over the London Platform and also because the youngest beds have been removed by post-Cretaceous erosion.

6.8 Full details of the ground conditions encountered are presented on the borehole records appended to this report and can be summarised., from borehole BH1 only, as follows:-

Borehole BH1

Depth From (m)	Depth To (m)	Description
0.00	0.20	Grass over Topsoil
0.20	1.40	MADE GROUND
1.40	11.60	Silty CLAY
11.60	13.60	Rounded GRAVEL
13.60	20.00 +	CHALK

6.9 Groundwater was only noted in boreholes DIS1 and DIS2 during boring at 1.80m and 2.00m depth respectively.

6.10 Groundwater was also noted during the return monitoring visits to the installation within borehole DIS2 at between 1.24m and 1.57m below existing ground level. This is considered to be related to superficial water "perched" over the relatively impermeable silty clay which has seeped down into the standpipe and not an actual groundwater table.

6.11 Roots were noted within six of the seven boreholes, up to a maximum depth of at least 1.40m below existing ground level.

7.0 LABORATORY TESTING

7.1 The following geotechnical and chemical laboratory tests have been carried out on samples recovered from the boreholes at this site.

7.2 Unless otherwise stated, the geotechnical tests have generally been carried out in accordance with the recommendations given in British Standard 1377:1990, "Methods of Test for Soils for Civil Engineering Purposes".

7.3 The chemical testing was carried out in accordance with standard industry methods in a UKAS approved laboratory which is also currently accredited in accordance with MCERTS for the majority of its testing. Further information regarding this accreditation is available on request together with a full list of test methods if required.

7.4 *Natural Moisture Content Tests*

The natural moisture content has been determined for a total of five samples from borehole BH1. The natural moisture content was found to range between 13% and 23%.

7.5 *Atterberg Limits*

The Atterberg Limits have been determined for two samples of the silty Clay from borehole BH1 at 1.50m and 2.50m depth.

The liquid limits (LL) were found to be 77% and 63%, the plastic limits (PL) 24% and 18%, and the plasticity index (PI) 53 and 45.

These results indicate that the sample tested from 1.50m depth can be classified as being a clay of 'very high' plasticity (CV) and the sample tested from 2.50m depth can be classified as being a clay of 'high' plasticity (CH), both in accordance with the Casagrande Geotechnical classification system.

In addition, the samples tested would be classified as having a 'high' potential for swelling/shrinking in accordance with the National House Building Councils (NHBC) classification system given in Part 4 of their Standards.

7.6 *Quick Undrained Triaxial Compression Tests.*

The undrained shear strength has been determined in single-stage triaxial compression for two remoulded, 38mm diameter samples and three undisturbed 104mm diameter samples.

The resulting mean shear stress (undrained cohesion) C_u values varied between 98 kN/m^2 and 188 kN/m^2 indicating that the samples tested were 'stiff' to 'very stiff' in consistency.

Full results are plotted on the appended C_u versus Depth Profile.

7.7 *Particle Size Distribution*

The particle size distribution has been determined for one sample of the more granular soil encountered.

The results are presented as a grading curve in the appendix to this report.

7.8 *pH and Sulphate Tests*

The pH has been determined for a total of eight samples from across the site. The pH was found to range between 7.1 and 9.1.

The sulphate content has been determined for two samples from 1.00m and 2.00m depth and, on a 2:1 water:soil extract, was found to be < 0.02 g/l and 0.05 g/l.

7.9 *Chemical Analysis*

Four shallow samples of MADE GROUND from across the site were selected and tested for a range of commonly occurring contaminants and indicators of contamination including those given by the Contaminated Land Exposure Assessment (CLEA).

The contamination suite undertaken at this site includes speciated **P**oly**A**romatic **H**ydrocarbon (**PAH**) and speciated **T**otal **P**etroleum **H**ydrocarbon (**TPH**), together with **BTEX**, **B**enzene, **T**oluene, **E**thylbenzene and **X**ylenes.

7.10 *Asbestos Identifications*

The same four samples, as discussed above, were submitted to a UKAS accredited laboratory for asbestos identification and full details of the results are appended.

7.11 *Waste Classification Tests*

Two shallow samples, at a depth of 0.50m and 1.00m from boreholes DIS5 and DIS6, were selected and tested for Waste Acceptance Criteria (WAC) testing in accordance with BS EN 12457 Part 3.

Full details of the results are given on the appended result sheets.

8.0 DISCUSSION

PROPOSED DEVELOPMENT & SCOPE OF WORKS

8.1 As discussed in Section 1 above, it is understood that the proposed development will comprise demolition of the existing two blocks of flats and erection of 12 apartments with associated parking, cycle storage, motorcycle parking, disabled parking and bin storage. Further details of the proposed development can be found on the appended Messrs. Fluent Architectural Design Services, Drawing Nos. FLU.249.3A.02.

8.2 The current report comprises a Phase I, *Non-Intrusive,* Desk Study and a Phase II, *Intrusive*, Site Investigation.

DESK STUDY

8.3 The current Walkover Survey found the site to be occupied by two blocks of flats with a double garage constructed between. The northern part of the site provides private gardens mainly laid to lawn and with mature shrubs and bushes to the borders. The eastern part of the site provides a blacktop surfaced car parking area and access road. In the north-east corner of the site is a fenced enclosure containing building equipment and materials. The south-west part of the site provides a level communal garden area mainly laid to lawn with paved footpaths and access steps to the perimeter. There are several mature and semi-mature trees within the site and along the site boundaries. The site lies in a mainly residential area of Northwood. No visual or olfactory evidence of contamination was noted during the walkover survey.

8.4 The historical mapping shows that circa 1883 the site was situated in an area of fields with some tree planting and an un-named building occupied part of the site. From Circa 1896 to 1960 un-named buildings occupy the site and the surrounding area is laid out with new roads and building plots and some residential development has taken place. Circa 1960 St Johns Hall (now London School of Theology) is constructed and the site lies within the school grounds. Circa 1970 the current two blocks of flats on site are shown and the surrounding area is developed with residential properties. Circa 1992 to current date the site and immediate surrounding area remain generally unchanged.

8.5 There are no landfill or waste management facilities, infilled land, local authority pollution prevention and controls, ground stability hazards or sensitive land uses that are considered likely to have a detrimental effect on the site. There are some non-coal mining activities close to the site. There are some historical trade activities in the area surrounding the site, which include a baby wear manufactures and a dry cleaners. The site lies in an area unaffected by Radon and no protective measures are necessary in the construction of new buildings.

8.6 There are no discharge consents, pollution incidents or water abstractions that are considered likely to have a detrimental effect on the site. In the Bedrock Strata the southern part of the site lies over 'Secondary Aquifer' and the northern part of the site lies over 'Unproductive Aquifer'. The Superficial Strata is not designated. The site lies over the outer zone (Zone 2) of an Environment Agency Source Protection Zone (SPZ). The site lies within an Environment Agency indicative flood zone 1 and is not at risk from groundwater flooding but has a low risk of surface water flooding in the roadway outside the site.

8.7 Provided the above noted points are taken into account, the environmental search has not found any reason to preclude any proposed re-development of this site.

FOUNDATION DESIGN

8.8 Based on borehole BH1 only the current work has found, beneath Grass over Topsoil, a band of MADE GROUND to a depth of 1.40m below existing ground level. Beneath the MADE GROUND was silty CLAY to a depth of 11.60m below existing ground level. Beneath silty CLAY, a band of black rounded GRAVEL was encountered up to a depth of 13.60m below existing ground level. Beneath rounded GRAVEL, CHALK was encountered and was not penetrated at the maximum borehole termination depth of 20.00m below existing ground level.

8.9 From the borehole findings, conventional strip or pad foundations would need to be set below any MADE GROUND within the underlying silty CLAY at a depth of some 1.50m to 2.00m below existing ground level where an allowable bearing pressure of 100 kN/m^2 could be adopted. This could be increased to 125 kN/m^2 at 2.50m depth and to 150 kN/m^2 at some 3.00m depth.

8.10 Settlement due to the above noted order of loading would not be expected to exceed 20-25mm, the majority of which would be 'long-term' occurring over a period of some 20-30 years after the construction period.

8.11 Groundwater was only noted in boreholes DIS1 and DIS2 during boring at 1.80m and 2.00m depth respectively. Groundwater was also noted during the return monitoring visits to the installation within borehole DIS2 at between 1.24m and 1.57m below existing ground level. However, this is considered to be related to superficial water "perched" over the relatively impermeable silty clay which has seeped down into the standpipe and not an actual groundwater table. Therefore, should seasonal groundwater or surface water accumulate at the base of service, basement or foundation excavations it is very important that these are kept dry by, for example, pumping from a sump, the foundation base is kept square and that any soft spots are replaced and compacted prior to pouring foundation concrete.

8.12 Further, we recommend that where groundwater or surface water flows into foundation excavations, 'blinding' concrete is used at the base of the foundation excavations and that foundation concrete is poured as soon as possible thereafter.

8.13 In addition, from the evidence of the boreholes, any shallow foundation or service excavations, deeper than 1 metre, will require support against collapse of sides in the MADE GROUND and into the underlying silty CLAY, and we recommend that a contingency is made for this at this stage.

8.14 The results of the Atterberg Limit tests indicate that the underlying silty CLAY across the site would have a 'high' potential for swelling and/or shrinking in accordance with the National House Building Councils (NHBC) classification system given in Part 4 of their Standards. In addition, roots were in evidence in six of the seven boreholes to a maximum depth of at least 1.40m depth, Therefore, precautions against shallow foundation sides in the form of compressible material will be required at this site where foundations fall within the 'zone of influence' of any past, existing or any proposed trees.

8.15 It should be noted that should ground conditions differing significantly from those described in our report be encountered during foundation excavation, then Risk Management Limited should be contacted immediately and that the above noted allowable bearing pressure or recommended foundation type may need to be altered accordingly.

PILED FOUNDATIONS

8.16 Owing to the potential loads from the proposed building, consideration may need to be given to supporting the proposed new building on piled foundations.

8.17 Piled foundations at this site could be bored or driven to support foundation loads to the new building. Given the nature of the ground conditions encountered, and the proximity to adjacent properties, a bored pile solution would appear the most appropriate; particularly those formed by continuous flight auger.

8.18 It is beyond our brief to provide a full and detailed pile design and the advice of a specialist piling contractor should be sought in this respect. However, the following table gives typical working loads for isolated bored piles of varying diameter to 10 metres and 15 metres below existing ground level.

Pile Type	Depth below existing ground level (m)	Diameter (m)	Working Load (tonnes)
Bored	10.00	0.30	20-25
Bored	10.00	0.45	35-40
Bored	10.00	0.60	50-55
Bored	15.00	0.30	60-65
Bored	15.00	0.45	100-105
Bored	15.00	0.60	145-150

8.19 In calculating the above working loads we have assumed a factor of safety of 2.5 on the sum of the skin friction and end bearing. In addition, we have assumed that the top 2 to 3 metres of each pile is 'sleeved' through the upper MADE GROUND to prevent 'down-drag' forces developing on the shaft.

8.20 Again, it is recommended that the advice of competent piling contractors is sought as to the most suitable pile type at this site and for confirmation of the order of working load achievable given the ground conditions encountered and the proprietary pile type selected.

8.21 Settlement of such piles can be expected to be small, typically less than 5 mm.

BURIED CONCRETE

8.22 The results of the chemical analyses indicate that the samples tested from 0.50m and 1.50m depth would fall into Class DS-1 of the Building Research Establishments (BRE) classification system Special Digest Part 1:2005 "Concrete in aggressive ground".

SOAKAWAYS

8.23 The Falling Head Permeability tests gave the following value:-

SA1 (DIS2) - $k = 4.89 \times 10^{-6}$ m/sec.

8.24 Based on these initial results, soakage was 'good'. However the test was undertaken at the depth to groundwater (1.24m b.g.l) and this result is indicative of this upper layer of soil only with approximately 0.40m of the soil tested consisting of MADE GROUND. The presence of standing water at 1.24m coupled with the underlying ground conditions of silty CLAY would likely preclude the use of conventional shallow soakaways at this site.

ROAD PAVEMENT DESIGN

8.25 The results of the current work recorded CBR values at about 0.50m depth varying between 2% and 3% across the site. We would therefore recommend adopting a CBR value of some 2% in the MADE GROUND at this site.

LAND-BORNE GAS

8.26 During the initial return gas/groundwater monitoring visits to the installation fitted within borehole DIS2, no methane and a maximum carbon dioxide level of 3.8% was detected. In addition, no flow was noted.

8.27 The minimum instrument detection flow rate of 0.1 l/hr will therefore be used to calculate the maximum hazardous gas concentration for CO_2.

8.28 With reference to BS 8485:2015 Section 6 and Section 7:

From Clause 6.3.4, the maximum hazardous gas flow rate (in litres per hour) is calculated by:-

$Q_{hg} = q(C_{hg}/100)$ where;

q is the measured flow rate (in litres per hour) of combined gases from the monitoring standpipe.

C_{hg} is the measured hazardous gas concentration (in percentage volume/volume).

Therefore, for the highest CO_2 level recorded in borehole DIS5,

$$Q_{hg} = 0.1(3.8/100) = 0.0038 \text{ l/h}$$

From Clause 6.3.7.4 - The calculated Q_{hg} is adopted as the worst-case Gas Screening Value (GSV) therefore the site characteristic GSV = 0.0038 l/h

From Clause 6.4 - Table 2 the site characteristic situation (CS) is shown to fall under CS1 for the Gas Screening Value which has a **"very low"** hazard potential.

From Table 3 - The building is type A - Private ownership with no building management controls

From Table 4 – The minimum gas protection score (points) required for this site is 0.

Therefore, no land borne gas remedial measures would be required at this site.

PRELIMINARY CONTAMINATION ASSESSMENT

8.29 Part IIA of the Environmental Protection Act 1990 contains the legislative framework for the regulation of contaminated land and this was implemented in the Contaminated Land (England) Regulations 2000. This legislation allows for the identification and remediation of land where contamination is causing unacceptable risks to human health or the wider environment. The approach adopted by the UK contaminated land policy is "suitable for use" which implies that the land should be suitable for its current use and made suitable for any known future use.

8.30 For this ***Preliminary Contamination Assessment*** the site has been modelled using the Source-Pathway-Receptor approach to produce a Conceptual Site Model.

Source (substances or potential contaminants which may cause harm)

Pathway (a linkage route between the source and receptor)

Receptor (something which may be harmed by the source e.g. humans, plant, groundwater

8.31 Source

A total of four shallow samples of MADE GROUND were selected from across site and tested for a range of commonly occurring contaminants and indicators of contamination including those given by the Contaminated Land Exposure Assessment (CLEA).

8.32 Pathways

The pathways needing to be considered, as discussed above, will depend on the land usage, and will include for, example; soil ingestion, inhalation of vapour and dust, and consumption of home-grown vegetables, where this is applicable.

8.33 Receptors

From the results of the Desk Study and the current possible development of part of the site as residential flats, the following potential receptors have been identified.

- Workers on the site likely to come into contact with the soils.
- Future users of new residential building and shared landscaped areas.
- Any proposed additional vegetation.
- Neighbours.

8.34 It should be noted that the CLEA software has limited functionality and contains algorithms, which the EA has publicly expressed its intention to update. As a consequence of this, some of the screening values generated by the CLEA software may not adequately reflect specific site conditions and, in some instances, are unduly conservative. In addition, it should also be noted that the figures given in the appended table are based on a 6% soil organic matter content.

8.35 The DEFRA/EA model has been developed on the basis of many critical assumptions about possible exposure to soil contamination and the development of conceptual exposure models to describe different land uses as follows:

- *Residential with consumption of home-grown fruit and vegetables*
- *Residential without consumption of home-grown fruit and vegetables*
- *Allotments*
- *Commercial*

8.36 The Contaminated Land Exposure Assessment (CLEA) model was originally published in March 2002 as joint DEFRA/EA publications; Contaminated Land Research (CLR) Report CLR 10, with Reports CLR7, 8 and 9 as supporting documents, providing toxicity data and human tolerable daily intake (TDI) data to be used with this model. This model enabled the derivation of more site-specific values for contaminants present on a site, rather than the use of 'generic' values, which were previously used.

8.37 DEFRA/EA previously published a number of Soil Guideline Values (SGVs) for certain determinands, (common toxic metals), which were generic guideline criteria for assessing the risks to human health from chronic exposure to soil contamination for standard land-use functions. However, these were withdrawn in late 2008 and DEFRA/EA have now issued a new set of guidance documents. With regard to the Risk Management Limited standard suite of tests, currently SGV figures have only been issued for Arsenic, Cadmium, Mercury, Nickel, Phenols and Selenium.

8.38 In the absence of currently published SGV values for the remaining contaminants, Messrs. W. S. Atkins have derived ATRISK^{soil} Soil Screening Values (SSVs) which have been updated using CLEA v1.071 to incorporate changes to exposure assessment parameters, methodology, and land uses as set out in the Department for Environment, Food and Rural Affairs (Defra) Category 4 Screening Level (C4SL) Project Methodology Report.

8.39 Full details of how the SSVs have been derived and general notes as to their use are given on the ATRISK website and are available from Risk Management Limited upon request. A few of the PAH levels have not been updated and have been left as per the previous CLEA v1.04 derivation.

8.40 The SGV and SSV levels represent "intervention" levels above which the levels of contamination may pose an unacceptable risk to the health of site-users such that further investigation and/or remediation is required.

8.41 Total Petroleum Hydrocarbons are considered in accordance with the fractions proposed by The Environment Agency, drawing on the TPHCWG methodology. These are contained in Table 4.2 – Petroleum hydrocarbon fractions for use in UK human health risk assessment, based on Equivalent Carbon (EC) number, contained in Science Report P5-080/TR3, *The UK Approach for Evaluating Human Health Risks from Petroleum Hydrocarbons in Soils.*

8.42 The contamination results have been compared with the ***Residential without consumption of home-grown fruit and vegetables*** criteria as shown on the table below. Any exceedences are marked in yellow on the appended laboratory test results sheets.

Determinand (below)	Units	ATRISK Contaminated Land Screening Values (SSV) derived using CLEA v1.071 as set out in DEFRA Category 4 Screening Levels (C4SL) Methodology. 6% SOM Sandy Loam.			
		Residential with consumption of home-grown fruit and vegetables.	Residential without consumption of home-grown fruit and vegetables.	Allotments.	Commercial.
Aliphatic Hydrocarbons (mg/kg)	C5-C6	369	371	6110	29400
	C6-C8	1240	1240	18300	98200
	C8-C10	204	205	2390	14800
	C10-C12	1180	1190	8960	69500
	C12-C16	4130	2710	16300	139000
	C16-C35	210100	212000	477000	3620000
Aromatic Hydrocarbons (mg/kg)	C8-C10	232	332	73.9	20800
	C10-C12	468	1550	95.9	53800
	C12-C16	830	2710	176	65400
	C16-C21	1040	1930	321	28400
	C21-C35	1710	1930	1570	28400
TOTAL TPH					
Naphthalene	mg/kg	12.2	13.1	27.4	1050
Acenaphthylene	mg/kg	-	-	-	-
Acenaphthene	mg/kg	2760	6730	680	106000
Fluorene	mg/kg	2610	4860	796	72000
Phenanthrene	mg/kg	-	-	-	-
Anthracene	mg/kg	26200	37700	11300	544000
Fluoranthene	mg/kg	2980	5050	1010	72600
Pyrene	mg/kg	2120	3780	679	54400
Benz(a)anthracene	mg/kg	8.54	9.04	10.3	10.3
Chrysene	mg/kg	2.64	2.64	2.64	2.64
Benzo(b)fluoranthene	mg/kg	7.29	7.29	7.29	7.29
Benzo(k)fluoranthene	mg/kg	4.12	4.12	4.12	4.12
Benzo(a)pyrene	mg/kg	4.95	5.34	5.72	76.3
Indeno(123-cd)pyrene	mg/kg	9.75	10.3	16.6	144
Dibenz(ah)anthracene	mg/kg	1	1.03	2.57	14.4
Benzo(ghi)perylene	mg/kg	103	104	342	1450
TOTAL PAH					
Cyanide (Free)	mg/kg	34	34	34	373
pH	unit	-	-	-	-
Copper (Total)	mg/kg	4790	9060	1450	106000
Lead (Total)	mg/kg	200	313	79.1	2310
Zinc (Total)	mg/kg	20300	47000	5230	1100000
Chromium III	mg/kg	14300	16700	12600	208000
Chromium (Hexavalent)	mg/kg	20.5	20.5	171	49.1
		CLEA Soil Guideline Values (SGV)			
Benzene	mg/kg	0.33	0.998	0.07	95
Toluene	mg/kg	610	2710	120	4400
Ethylbenzene	mg/kg	350	843	90	2800
Xylenes	mg/kg	230	321	160	2600
Arsenic (Total)	mg/kg	32	35	43	640
Cadmium (Total)	mg/kg	10	83.6	1.8	230
Mercury (Total)	mg/kg	170	238	80	3600
Nickel (Total)	mg/kg	130	130	230	1800
Phenols (Total)	mg/kg	420	519	280	3200
Selenium (Total)	mg/kg	350	595	120	13000

ASSESSMENT OF RESULTS

8.43 No samples had determinands exceeding the CLEA Soil Guideline Values (SGV) for ***Residential without consumption of home-grown fruit and vegetables*** usage.

8.44 The samples of MADE GROUND from borehole DIS2 at 0.15m depth and borehole DIS4 at 0.50m depth had elevated levels of Lead. The sample from borehole DIS4 also had elevated levels of the PAH, chrysene, when compared against the ATRISK Contaminated Land Screening Values (SSV) for ***Residential without consumption of home-grown fruit and vegetables*** usage.

8.45 Asbestos was not identified in the four samples tested.

8.46 ***Discussion***

No remedial measures would be required for MADE GROUND beneath the new building or associated hardstanding.

The elevated levels of Lead and PAH encountered within the MADE GROUND would only be relevant to proposed landscaped areas. Therefore, for any new planting areas or shared access landscaped areas, at ground level, we would recommend removal of any MADE GROUND, to a minimum depth of 600mm, and replacement with a separator membrane and some 300mm-400mm of "clean" imported material overlain by 200mm-300mm of "clean" Topsoil as necessary.

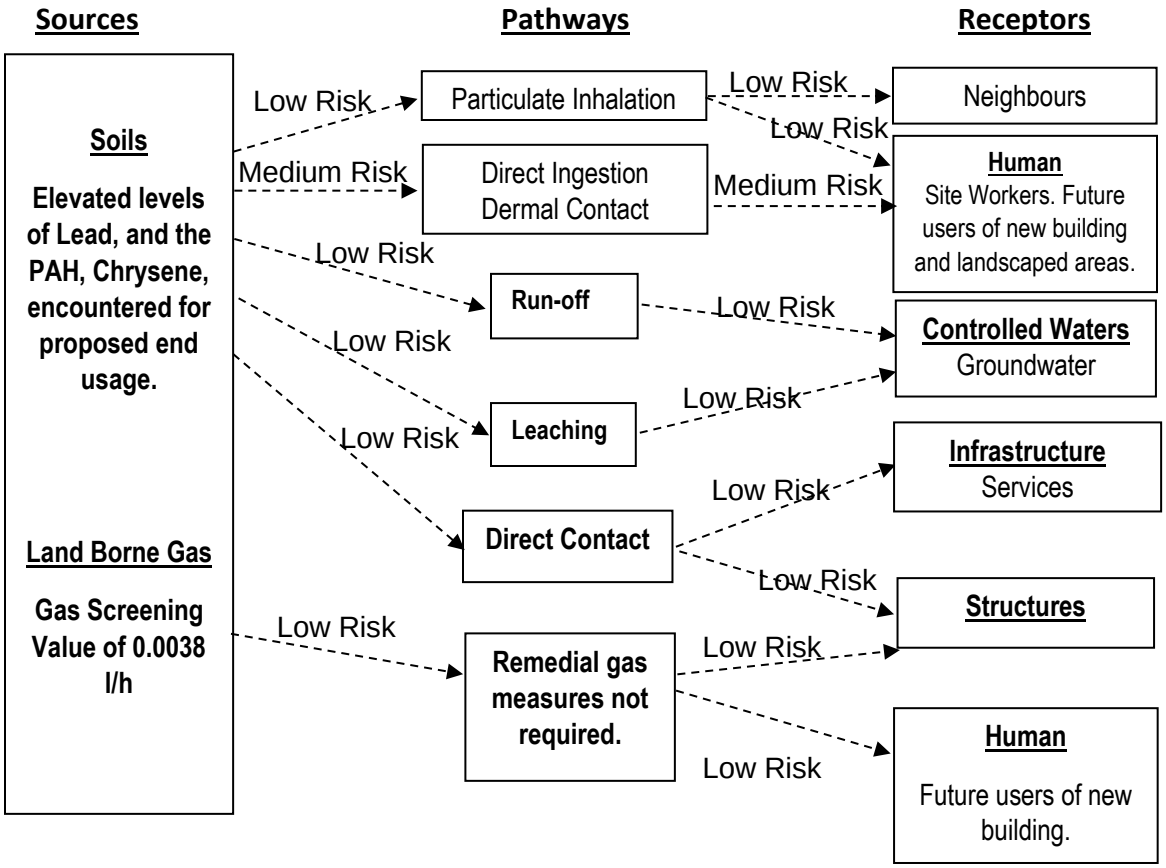
The presence of elevated levels of Lead and PAH in the MADE GROUND should be noted by Groundworkers and included within the main contractors site method statements and risk assessments.

Any material removed from site should be sent to a suitably licensed landfill and waste tickets should be retained. In addition, any imported "clean" material and/or topsoil should be certified as 'clean' and suitable for use. The waste tickets and certification will need to form part of a final Verification Report for the site in due course.

In addition, to any precautions regarding the presence of Lead and PAH's as noted above, we would recommend that standard Health and Safety precautions be taken with regard to ground workers at this site and these should include PPE equipment such as gloves, overalls etc. and normal washing facilities available on-site.

CONCEPTUAL SITE MODEL

8.47 The following diagram summarises the potential pollution linkages identified for this site in the form of a diagrammatic Conceptual Site Model (CSM).



8.48 By employing the measures discussed in paragraph 8.46 above, the above noted 'medium' risks could be reduced to 'low' risks.

8.49 As always, the above recommendations are based on a selected number of representative samples and further testing may be required if any significant contamination is suspected or encountered during ground works.

WASTE ACCEPTANCE CRITERIA (WAC) TESTS

8.50 Two EN 14473/02 Waste Acceptance Criteria (WAC) tests have been undertaken during the current work and the certificates pertaining to this is appended to this report.

8.51 The results tend to indicate that the material tested is likely to be classified as 'Inert'. However, the sample from 1.00m depth in borehole DIS6 had a very slightly elevated level of Fluoride and may be classified as 'Stable Non-reactive Hazardous Waste in non-hazardous Landfill' category.

8.52 However, it should be noted that Risk Management are not a licensed landfill operator and we therefore strongly recommend that the WAC data be presented to potential Waste Management Companies in order for them to confirm the waste classification of surplus soils to be removed from this site and to determine its acceptability at appropriate landfill sites for disposal/treatment.

SOIL SAMPLES

8.53 All soil samples will be kept for a period of 28 days after the date of the invoice for this project unless otherwise notified to Risk Management Limited in writing. Should samples be required to be stored for longer than 28 days then a storage charge may be levied.

Prepared By : Richard Price B.Sc., F.G.S., M.I.Env.Sc.
Project Engineer

Checked By : Malcolm S. Price B.Sc., M.Sc., M.I.C.E., C.Eng. MIEnvSc.
Director

Distribution : Westcombe Homes Ltd - 1 pdf copy

The recommendations made and the opinions expressed in this report are based on the borehole records, examination of samples and the results of site and laboratory tests.

The report is issued on the condition that Risk Management Limited will under no circumstances be liable for any loss arising directly or indirectly from ground conditions between the boreholes or trial pits which have not been shown by the boreholes, trial pits or other tests carried out during the investigation.

In addition, Risk Management Limited will not be liable for any loss whatsoever arising directly or indirectly from any opinion given on the possible configuration of strata both between the borehole and/or trial pit positions and/or below the maximum depth of the investigation. Such opinions, where given, are for guidance only.

Groundwater levels may also vary with time from those reported during our site investigation due to factors such as tidal conditions, heavy pumping from nearby wells or seasonal changes.

No person other than the client to whom this report is addressed, shall rely on it in any respect and no duty of care shall be owed to any such third party.

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
204084438_1_1

Customer Reference:
RML 6980

National Grid Reference:
508830, 191580

Slice:
A

Site Area (Ha):
0.31

Search Buffer (m):
1000

Site Details:

London School of Theology, Green Lane
NORTHWOOD
HA6 2UW

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Contents

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.

Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2		4
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 2		1	2	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 3			2	12
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
Substantiated Pollution Incident Register	pg 5				2
River Quality Chemistry Sampling Points					
Water Abstractions	pg 5				(*18)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 10	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones	pg 10	2			2
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 11		3	17	28

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 17				1
Potentially Infilled Land (Non-Water)	pg 17		2	1	3
Potentially Infilled Land (Water)	pg 17		3	3	9
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 19	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 19	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 20		7	4	6
BGS Urban Soil Chemistry	pg 23		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 25	Yes			
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability	pg 26	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 26		1		4
Natural Cavities	pg 26				1
Non Coal Mining Areas of Great Britain	pg 27	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 27	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 27	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 27	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 27	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 28		2	25	11
Fuel Station Entries	pg 31			1	1
Points of Interest - Commercial Services	pg 31			4	3
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 32			2	1
Points of Interest - Public Infrastructure	pg 32			4	1
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 33			1	3
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 33	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
1	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Wilford Close, Northwoodwilford Closenorthwood Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2261 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Cannon Brook **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A13SW (S)	127	2	508800 191400
1	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Wilford Close, Northwoodwilford Closenorthwood Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2261 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 Environment: Freshwater Stream/River Receiving Water: Cannon Brook **Status: Temporary Consents (Water Act 1989, Section 113)** Positional Accuracy: Located by supplier to within 100m	A13SW (S)	127	2	508800 191400
2	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Mallard Way, Northwoodmallard Waynorthwood Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1441 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Cannon Brook **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A12SE (W)	505	2	508300 191500
2	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Mallard Way, Northwoodmallard Waynorthwood Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1441 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 Environment: Freshwater Stream/River Receiving Water: Cannon Brook **Status: Temporary Consents (Water Act 1989, Section 113)** Positional Accuracy: Located by supplier to within 100m	A12SE (W)	505	2	508300 191500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Eastglade, Eastbury Avenue, Nort, Eastglade, Eastbury Avenue, Nort Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0896 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Moor Park Ditch **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	872	2	509500 192200
3	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Eastglade, Eastbury Avenue, Nort, Eastglade, Eastbury Avenue, Nort Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0896 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 Environment: Freshwater Stream/River Receiving Water: Moor Park Ditch **Status: Temporary Consents (Water Act 1989, Section 113)** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	872	2	509500 192200
4	**Local Authority Pollution Prevention and Controls** Name: Impressive Dry Cleaners Location: 30 Green Lane, Northwood, Ha6 2qb Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: EPA/DC/020 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A13SE (E)	213	3	509063 191503
5	**Local Authority Pollution Prevention and Controls** Name: Texaco Northwood Location: 279 Rickmansworth Road, NORTHWOOD, Middlesex, HA6 2QW Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: NOT GIVEN Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A8NW (S)	357	3	508741 191177
6	**Local Authority Pollution Prevention and Controls** Name: Express Dry Cleaners Location: 8 Station Approach, Northwod, Ha6 2xn Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: EPA/DC/029 Dated: 25th October 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A14SW (E)	427	3	509268 191431
7	**Local Authority Pollution Prevention and Controls** Name: Medical Services Incineration Limited Location: The Energy Centre, Rickmansworth Road, NORTHWOOD, Middlesex, HA6 2RN Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: B1/12 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG5/1Clinical waste incineration processes under 1 tonne an hour **Status: Authorised** Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	991	3	507877 192005

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Local Authority Pollution Prevention and Controls** Name: Par Four Service Station Location: 4-6 Rickmansworth Road, NORTHWOOD, Middlesex, HA6 1HA Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A9SE (SE)	995	3	509541 190805
	Nearest Surface Water Feature	A13SE (SE)	133	-	508913 191404
9	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 17th March 1993 Incident Reference: N1930094 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)	326	2	508600 191300
10	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 14th September 1994 Incident Reference: N1940317 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 (NE)	398	2	509200 191800
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Hallowell Road, NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 26th September 1996 Incident Reference: N1960503 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)	501	2	509300 191300
11	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Hallowell Road, NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 21st September 1997 Incident Reference: THN11997029640 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)	503	2	509300 191295
12	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Hallowell Road Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 3rd July 1994 Incident Reference: N1940251 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)	514	2	509350 191400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Eastbury Road Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 18th May 1989 Incident Reference: N1890271 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)	516	2	509200 192000
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 9th August 1995 Incident Reference: N1950429 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)	546	2	509350 191300
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 11th June 1994 Incident Reference: N1940223 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)	592	2	509400 191300
15	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 15th June 1992 Incident Reference: N1920354 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	A9NW (SE)	552	2	509300 191200
15	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 31st August 1995 Incident Reference: N1950489 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	A9NW (SE)	555	2	509300 191195
16	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Hallowell Road Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: Not Supplied Incident Reference: N1910294 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	A9NW (SE)	636	2	509400 191200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Briarwood Drive, NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 11th April 1996 Incident Reference: N1960170 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	984	2	508000 191000
17	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Briarwood Drive, NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 8th March 1996 Incident Reference: N1960102 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	987	2	508000 190995
18	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 18th March 1995 Incident Reference: N1950132 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)	984	2	509300 192500
19	**Substantiated Pollution Incident Register** Authority: Environment Agency - Thames Region, North East Area Incident Date: 8th November 2012 Incident Reference: 1054428 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Smoke Pollutant: Contaminated Water: Firefighting Run-Off	A12SW (W)	784	2	508021 191481
20	**Substantiated Pollution Incident Register** Authority: Environment Agency - Thames Region, North East Area Incident Date: 2nd April 2004 Incident Reference: 227191 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)	A8SE (S)	821	2	509092 190736
	Water Abstractions Operator: Hillingdon Hospital Nhs Trust Licence Number: 28/39/28/0515 Permit Version: 101 Location: Borehole At Mount Vernon Hospital, Northwood, Middlesex 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): Not Supplied Yearly Rate (m3): Not Supplied Details: Mount Vernon Hospital, Northwood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th July 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11NE (W)	1126	2	507700 191900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mount Vernon Hospital Nhs Trust Licence Number: 28/39/28/0515 Permit Version: 100 Location: Borehole At Mount Vernon Hospital, Northwood, Middlesex 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): 284 Yearly Rate (m3): 103944 Details: Mount Vernon Hospital, Northwood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th October 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11NE (W)	1126	2	507700 191900
	Water Abstractions Operator: Affinity Water Limited Licence Number: 28/39/28/0336 Permit Version: 102 Location: Northwood Pumping Station Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6NE (W)	1290	2	507600 191100
	Water Abstractions Operator: Veolia Water Central Limited Licence Number: 28/39/28/0336 Permit Version: 101 Location: Northwood Pumping Station Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th July 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6NE (W)	1290	2	507600 191100
	Water Abstractions Operator: Three Valleys Water Plc Licence Number: 28/39/28/0336 Permit Version: 100 Location: Northwood Pumping Station Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 68190 Yearly Rate (m3): 1 Details: Annual Abstraction Total Aggregated To Another Licence For Quantity Purposes. Chalk (Undifferentiate Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th June 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (W)	1290	2	507600 191100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Ministry Of Defence Licence Number: 28/39/28/0441c Permit Version: 1 Location: Boreholes Grouped At Hms Warrior Authority: Environment Agency, Thames Region Abstraction: Crown and Government: 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: Hms Warrior, Northwood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th December 1976 Permit End Date: Not Supplied Positional Accuracy: Manually corrected supplier location	A20NW (NE)	1427	2	510100 192300
	Water Abstractions Operator: Affinity Water Limited Licence Number: 28/39/28/0336 Permit Version: 102 Location: Poors Field Pumping Station Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3SE (S)	1621	2	508900 189900
	Water Abstractions Operator: Veolia Water Central Limited Licence Number: 28/39/28/0336 Permit Version: 101 Location: Poors Field Pumping Station Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th July 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3SE (S)	1621	2	508900 189900
	Water Abstractions Operator: Three Valleys Water Plc Licence Number: 28/39/28/0336 Permit Version: 100 Location: Poors Field Pumping Station Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 27276 Yearly Rate (m3): 1 Details: Annual Abstraction Total Aggregated To Another Licence For Quantity Purposes. Chalk (Undifferentiate Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th June 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1621	2	508900 189900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Moor Park Golf Club Ltd Licence Number: 28/39/28/0534 Permit Version: 102 Location: Borehole At Moor Park Golf Club Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Moor Park Golf Course Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NE (NW)	1755	2	507710 193009
	Water Abstractions Operator: Moor Park Golf Club Ltd Licence Number: 28/39/28/0534 Permit Version: 102 Location: Borehole At Moor Park Golf Club Authority: Environment Agency, Thames Region Abstraction: Private Water Undertaking: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Rickmansworth Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NE (NW)	1755	2	507710 193009
	Water Abstractions Operator: Moor Park Golf Club Ltd Licence Number: 28/39/28/0534 Permit Version: 101 Location: Borehole At Moor Park Golf Club Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Moor Park Golf Course & Rickmansworth Golf Course, Rickmansworth, Hertfordshire. Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 3rd September 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NE (NW)	1773	2	507670 193000
	Water Abstractions Operator: Moor Park Golf Club Ltd Licence Number: 28/39/28/0534 Permit Version: 101 Location: Borehole At Moor Park Golf Club Authority: Environment Agency, Thames Region Abstraction: Private Water Undertaking: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Moor Park Golf Course & Rickmansworth Golf Course, Rickmansworth, Hertfordshire. Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 3rd September 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NE (NW)	1773	2	507670 193000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Moor Park Golf Club Ltd Licence Number: 28/39/28/0534 Permit Version: 100 Location: Borehole At Moor Park Golf Club Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 600 Yearly Rate (m3): 70000 Details: Moor Park Golf Club Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 12th November 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A21NE (NW)	1773	2	507670 193000
	Water Abstractions Operator: Moor Park Golf Club Ltd Licence Number: 28/39/28/0534 Permit Version: 100 Location: Borehole At Moor Park Golf Club Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 600 Yearly Rate (m3): 30000 Details: Moor Park Golf Course Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 12th November 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NE (NW)	1773	2	507670 193000
	Water Abstractions Operator: Sandy Lodge Golf Club Ltd Licence Number: 28/39/28/0550 Permit Version: 100 Location: Borehole At Sandy Lodge Golf Club Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 100 Yearly Rate (m3): 30000 Details: Sandy Lodge Golf Club, Sandy Lodge Lane Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th October 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1806	2	509200 193400
	Water Abstractions Operator: Sandy Lodge Golf Club Ltd Licence Number: 28/39/28/0592/R01 Permit Version: 1 Location: Sandy Lodge Golf Club- Borehole Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Sandy Lodge Lane, Northwood, Middlesex Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1885	2	509144 193491

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Sandy Lodge Golf Club Ltd Licence Number: 28/39/28/0592 Permit Version: 1 Location: Sandy Lodge Golf Club- Borehole Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Sandy Lodge Lane, Northwood, Middlesex Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 1st January 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1885	2	509144 193491
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (S)	0	4	508827 191572
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NE (N)	0	4	508827 191580
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (N)	0	4	508827 191580
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (S)	0	4	508827 191572
	Superficial Aquifer Designations No Data Available				
21	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13NE (N)	0	2	508827 191580
22	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A13NE (N)	0	2	508827 191580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A8NE (S)	552	2	508829 190968
24	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A12SW (W)	967	2	507844 191432
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 165.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	134	5	508912 191402
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (S)	214	5	508846 191306
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 124.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (S)	218	5	508842 191302
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	318	5	508758 191213
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	362	5	508572 191275
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	366	5	508563 191283

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	366	5	508564 191282
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	372	5	508740 191162
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SW)	373	5	508625 191215
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 102.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SW)	373	5	508628 191214
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	373	5	508741 191161
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (W)	386	5	508432 191455
37	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (W)	413	5	508417 191418
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	413	5	508689 191136
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	415	5	508689 191134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	430	5	508726 191106
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (SW)	439	5	508477 191276
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 326.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (SW)	446	5	508468 191274
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 352.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	457	5	508738 191074
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	457	5	508737 191075
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 350.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	578	5	509216 192070
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	588	5	508704 192209
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 153.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	598	5	508593 190976
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	601	5	509364 191208

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	612	5	508700 192234
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 53.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	644	5	508691 192264
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	645	5	509380 191152
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A17SE (NW)	648	5	508355 192106
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	668	5	509345 191071
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 347.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	686	5	509309 191012
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	695	5	508988 190840
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 166.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	697	5	508989 190838
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	697	5	508678 192316

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	705	5	508274 192105
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	710	5	508281 192121
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	714	5	508287 192132
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 181.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	715	5	508288 192134
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	804	5	509102 192390
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	822	5	509096 190737
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 537.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	822	5	509058 192423
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 135.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	836	5	509083 190718
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 128.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	887	5	508910 190636

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 145.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	896	5	508652 192513
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	965	5	509086 190586
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	966	5	509086 190585
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	966	5	507829 191582
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 128.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	967	5	507827 191584
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (S)	990	5	509057 190552

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: London Borough of Hillingdon - Has not been able to supply Landfill data		0	3	508827 191580
	Local Authority Landfill Coverage Name: Hertfordshire County Council - Has supplied landfill data		491	6	509031 192082
	Local Authority Landfill Coverage Name: Three Rivers District Council - Has supplied landfill data		491	7	509031 192082
73	**Local Authority Recorded Landfill Sites** Location: Batchworth Lane, Moor Park Reference: 434 Authority: Hertfordshire County Council, Spatial Planning and Economy Unit **Last Reported Status:** **Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 10m Boundary Quality: Not Applicable	A17NE (NW)	944	6	508317 192444
74	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A13SW (SW)	141	-	508711 191463
75	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A13SW (S)	177	-	508782 191354
76	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A13SW (SW)	276	-	508589 191395
77	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A9NW (SE)	656	-	509330 191073
78	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A9SW (SE)	718	-	509165 190876
79	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17NE (NW)	731	-	508461 192279
80	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A13SE (S)	36	-	508829 191484
81	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A13SE (SE)	132	-	508949 191432
82	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A13SE (S)	225	-	508832 191295
83	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A13SW (SW)	325	-	508657 191253
84	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A13SW (SW)	406	-	508537 191251
85	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A18SW (N)	467	-	508669 192079
86	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A14NW (E)	636	-	509449 191813

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1934	A18NW (N)	710	-	508685 192330
88	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A12NW (NW)	722	-	508121 191893
89	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1934	A18NW (N)	775	-	508649 192389
90	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A12NW (W)	779	-	508019 191710
91	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A18NE (N)	827	-	509022 192437
92	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1883	A8SE (S)	896	-	508942 190629
93	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A14NE (E)	954	-	509775 191823
94	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A19NW (NE)	991	-	509420 192435

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lambeth Group	A13NE (N)	0	1	508827 191580
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: no data Cadmium Concentration: <1.8 mg/kg Chromium Concentration: no data Lead Concentration: <100 mg/kg Nickel Concentration: no data	A13NE (N)	0	1	508827 191580
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 90 - 120 mg/kg Lead Concentration: no data Nickel Concentration: 15 - 30 mg/kg	A13NE (E)	155	1	509000 191581
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	370	1	508827 192000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil 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	A18SW (NW)	408	1	508625 192000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	688	1	508214 192000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SE (NE)	756	1	509500 192000

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: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	876	1	508000 192000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil 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 mg/kg	A12NW (W)	976	1	507826 191770
95	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154707 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13SE (S)	55	1	508840 191465
95	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154707 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A13SE (S)	55	1	508840 191465
96	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154706 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	103	1	508765 191450
96	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154706 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	103	1	508765 191450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	**BGS Recorded Mineral Sites** Site Name: Green Lane Chalk Mine Location: Northwood, Ramsgate, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 220339 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	A13SE (E)	131	1	508977 191570
98	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154705 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	161	1	508690 191455
98	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154705 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	161	1	508690 191455
99	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154704 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	286	1	508575 191395
99	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154704 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	286	1	508575 191395
100	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154703 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	371	1	508480 191385

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154701 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A12SE (W)	422	1	508410 191410
102	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154702 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	501	1	508380 191300
102	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154702 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	501	1	508380 191300
102	**BGS Recorded Mineral Sites** Site Name: Northwood Pits Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154702 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	501	1	508380 191300
103	**BGS Recorded Mineral Sites** Site Name: Northwood Sand Pit Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154699 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	765	1	508385 192275
104	**BGS Recorded Mineral Sites** Site Name: Hallowell Road Chalkwell Location: Northwood, Ramsgate, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 220878 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	771	1	509443 191028

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	**BGS Recorded Mineral Sites** Site Name: Northwood Chalk Mine Location: Northwood, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 154700 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	784	1	508170 192105
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508755, 191771 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 27.30 mg/kg Cadmium Measured Concentration: 0.70 mg/kg Chromium Measured Concentration: 68.70 mg/kg Lead Measured Concentration: 149.20 mg/kg Nickel Measured Concentration: 37.20 mg/kg	A13NW (N)	148	1	508755 191771
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508708, 191230 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 72.10 mg/kg Cadmium Measured Concentration: 0.40 mg/kg Chromium Measured Concentration: 48.10 mg/kg Lead Measured Concentration: 34.60 mg/kg Nickel Measured Concentration: 17.40 mg/kg	A8NW (S)	319	1	508708 191230
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 509207, 191701 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 42.90 mg/kg Cadmium Measured Concentration: 0.60 mg/kg Chromium Measured Concentration: 65.70 mg/kg Lead Measured Concentration: 237.70 mg/kg Nickel Measured Concentration: 34.00 mg/kg	A14NW (E)	374	1	509207 191701
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 509185, 191303 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 22.90 mg/kg Cadmium Measured Concentration: 0.60 mg/kg Chromium Measured Concentration: 61.70 mg/kg Lead Measured Concentration: 282.20 mg/kg Nickel Measured Concentration: 20.00 mg/kg	A14SW (SE)	399	1	509185 191303

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508297, 191298 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 10.30 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 51.20 mg/kg Lead Measured Concentration: 76.90 mg/kg Nickel Measured Concentration: 15.90 mg/kg	A12SE (SW)	573	1	508297 191298
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508732, 192210 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 18.80 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 90.20 mg/kg Lead Measured Concentration: 77.50 mg/kg Nickel Measured Concentration: 33.40 mg/kg	A18SW (N)	585	1	508732 192210
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508223, 191808 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 13.20 mg/kg Cadmium Measured Concentration: 0.60 mg/kg Chromium Measured Concentration: 61.40 mg/kg Lead Measured Concentration: 183.30 mg/kg Nickel Measured Concentration: 20.10 mg/kg	A12NE (W)	598	1	508223 191808
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 509193, 192333 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 17.20 mg/kg Cadmium Measured Concentration: 0.40 mg/kg Chromium Measured Concentration: 78.10 mg/kg Lead Measured Concentration: 310.30 mg/kg Nickel Measured Concentration: 26.90 mg/kg	A19NW (NE)	786	1	509193 192333
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508711, 190738 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 11.50 mg/kg Cadmium Measured Concentration: 0.40 mg/kg Chromium Measured Concentration: 70.00 mg/kg Lead Measured Concentration: 45.00 mg/kg Nickel Measured Concentration: 20.80 mg/kg	A8SW (S)	793	1	508711 190738

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 509665, 191657 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 22.40 mg/kg Cadmium Measured Concentration: 0.60 mg/kg Chromium Measured Concentration: 89.50 mg/kg Lead Measured Concentration: 140.40 mg/kg Nickel Measured Concentration: 25.10 mg/kg	A14NE (E)	824	1	509665 191657
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508266, 192278 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 14.20 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 84.70 mg/kg Lead Measured Concentration: 51.20 mg/kg Nickel Measured Concentration: 17.10 mg/kg	A17NE (NW)	837	1	508266 192278
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 509266, 190779 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 83.50 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 82.90 mg/kg Lead Measured Concentration: 173.30 mg/kg Nickel Measured Concentration: 23.30 mg/kg	A9SW (SE)	850	1	509266 190779
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7209 Arsenic Minimum Concentration: 1.00 mg/kg Arsenic Average Concentration: 17.00 mg/kg Arsenic Maximum Concentration: 161.00 mg/kg Cadmium Minimum Concentration: 0.10 mg/kg Cadmium Average Concentration: 0.90 mg/kg Cadmium Maximum Concentration: 165.20 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 79.00 mg/kg Chromium Maximum Concentration: 2094.00 mg/kg Lead Minimum Concentration: 11.00 mg/kg Lead Average Concentration: 280.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 2.00 mg/kg Nickel Average Concentration: 28.00 mg/kg Nickel Maximum Concentration: 506.00 mg/kg	A13NE (N)	0	1	508827 191580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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 (N)	0	-	508827 191580
	Man-Made Mining Cavities Easting: 508900 Northing: 191600 Distance: 57 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: E Cavity Type: Chalkwell Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology Detail: No Details	A13NE (E)	57	8	508900 191600
	Man-Made Mining Cavities Easting: 509400 Northing: 191200 Distance: 636 Quadrant Reference: A9 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Chalkwell Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology Detail: No Details	A9NW (SE)	636	8	509400 191200
	Man-Made Mining Cavities Easting: 508200 Northing: 192100 Distance: 758 Quadrant Reference: A17 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology Detail: No Details	A17SE (NW)	758	8	508200 192100
	Man-Made Mining Cavities Easting: 509200 Northing: 190800 Distance: 801 Quadrant Reference: A9 Quadrant Reference: SW Bearing Ref: SE Cavity Type: Shaft Collapse Commodity: Unknown Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Detail: No Details	A9SW (SE)	801	8	509200 190800
	Man-Made Mining Cavities Easting: 509200 Northing: 190800 Distance: 801 Quadrant Reference: A9 Quadrant Reference: SW Bearing Ref: SE Cavity Type: Sand Pit Shaft marked Commodity: Sandstone Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Detail: No Details	A9SW (SE)	801	8	509200 190800
	Natural Cavities Easting: 508200 Northing: 192110 Distance: 764 Quadrant Reference: A17 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group, London Clay Formation Superficial Geology Detail: No Details	A17SE (NW)	764	8	508200 192110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	508827 191580
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	31	1	508878 191577
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	81	1	508928 191573
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	508827 191580
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	508827 191580
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	508827 191580
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	508827 191580
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	508827 191580
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	508827 191580
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	508827 191580
	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 (N)	0	1	508827 191580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	**Contemporary Trade Directory Entries** Name: Rivey Trading Co Location: Kew Lodge, Dene Road, Northwood, Middlesex, HA6 2DA Classification: Children & Babywear - Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	151	-	508815 191780
107	**Contemporary Trade Directory Entries** Name: Impressive Dry Cleaners Location: A, 30, Green Lane, Northwood, Middlesex, HA6 2QB Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (E)	211	-	509060 191497
108	**Contemporary Trade Directory Entries** Name: Northwood Carpet Cleaners Location: 8, Maxwell Road, Northwood, Middlesex, HA6 2YF Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	256	-	509090 191429
109	**Contemporary Trade Directory Entries** Name: Coney Carriage Co Location: The Old Forge, Rickmansworth Road, Northwood, Middlesex, HA6 2QN Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	275	-	508634 191339
109	**Contemporary Trade Directory Entries** Name: The Old Forge Garage Location: The Old Forge, Rickmansworth Road, Northwood, Middlesex, HA6 2QN Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	275	-	508634 191339
109	**Contemporary Trade Directory Entries** Name: West London Smart Centre Location: The Old Forge, Rickmansworth Road, Northwood, Middlesex, HA6 2QN Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	275	-	508634 191339
110	**Contemporary Trade Directory Entries** Name: Cook Location: 10, Clive Parade, Northwood, HA6 2QF Classification: Frozen Food Processors & Distributors **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	281	-	509130 191488
110	**Contemporary Trade Directory Entries** Name: Johnsons Cleaning Ltd Location: 10, Clive Parade, Northwood, Middlesex, HA6 2QF Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (E)	283	-	509132 191488
110	**Contemporary Trade Directory Entries** Name: Supasnaps Location: 10, Clive Parade, Northwood, Middlesex, HA6 2QF Classification: Photo & Digital Imaging Bureaus **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (E)	283	-	509132 191488
110	**Contemporary Trade Directory Entries** Name: Photo Place Ltd Location: 47, Green Lane, Northwood, Middlesex, HA6 3AE Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (E)	308	-	509158 191519
111	**Contemporary Trade Directory Entries** Name: Kaan Rox Design Location: 6, Clive Parade, Northwood, Middlesex, HA6 2QF Classification: Jewellery Manufacturers & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (E)	297	-	509142 191465
111	**Contemporary Trade Directory Entries** Name: Jackdaw Location: 21, Maxwell Road, Northwood, Middlesex, HA6 2XZ Classification: Hardware **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	311	-	509149 191431

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	**Contemporary Trade Directory Entries** Name: Clean Carpet Crew Location: 11, Langland Court, Northwood, HA6 2NH Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	326	-	508497 191451
113	**Contemporary Trade Directory Entries** Name: Star Service Stations Location: Rickmansworth Rd, Northwood, Middlesex, HA6 2QW Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	357	-	508741 191177
113	**Contemporary Trade Directory Entries** Name: Mondial Cars Location: 279 Rickmansworth Road, Northwood, Middlesex, HA6 2QW Classification: Car Dealers - Used **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A8NW (S)	365	-	508762 191164
113	**Contemporary Trade Directory Entries** Name: Mondial Cars Location: 279 Rickmansworth rd, Northwood, Middlesex, HA6 2QW Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A8NW (S)	373	-	508766 191155
114	**Contemporary Trade Directory Entries** Name: Pinner Tools Ltd Location: 25, The Avenue, Northwood, Middlesex, HA6 2NJ Classification: Tungsten Tool Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	369	-	508440 191494
115	**Contemporary Trade Directory Entries** Name: Smart Voucher Co Location: Missing Link House, 3, Eastbury Road, Northwood, Middlesex, HA6 3AB Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	382	-	509232 191532
116	**Contemporary Trade Directory Entries** Name: A N B Car Body Repair Specialists Location: Station Approach, Northwood, Middlesex, HA6 2XN Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	419	-	509257 191419
116	**Contemporary Trade Directory Entries** Name: Express Dry Cleaners Location: 8, Station Approach, Northwood, Middlesex, HA6 2XN Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	427	-	509268 191431
116	**Contemporary Trade Directory Entries** Name: Express Dry Cleaners Location: 8, Station Approach, Northwood, Middlesex, HA6 2XN Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (E)	427	-	509268 191431
116	**Contemporary Trade Directory Entries** Name: Howard Motor Co Location: 14, Station Approach, Northwood, Middlesex, HA6 2XN Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	443	-	509276 191396
116	**Contemporary Trade Directory Entries** Name: Northwood Coachworks Location: Station Approach, Northwood, Middlesex, HA6 2XN Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	455	-	509290 191405
117	**Contemporary Trade Directory Entries** Name: Multi Graphics Location: 2, Rowland Place, Green Lane, Northwood, Middlesex, HA6 1AB Classification: T-Shirts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	425	-	509274 191482

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	**Contemporary Trade Directory Entries** Name: Steamers Location: 74, Green Lane, Northwood, Middlesex, HA6 2XS Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	483	-	509326 191437
118	**Contemporary Trade Directory Entries** Name: Steamers Location: 74, Green Lane, Northwood, Middlesex, HA6 2XS Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	483	-	509326 191437
118	**Contemporary Trade Directory Entries** Name: Pressed For Time Location: 74, Green Lane, Northwood, Middlesex, HA6 2XS Classification: Ironing & Home Laundry Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (E)	483	-	509326 191437
119	**Contemporary Trade Directory Entries** Name: Conveyor Belt Systems Location: 19, Kewferry Road, Northwood, Middlesex, HA6 2NS Classification: Conveyors & Conveyor Belts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	501	-	508364 191887
120	**Contemporary Trade Directory Entries** Name: Northwood Auto Services Location: Whittles Yard Rear of 12-18, Hallowell Road, Northwood, HA6 1DW Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	535	-	509336 191297
121	**Contemporary Trade Directory Entries** Name: Ilze'S Chocolat Location: Northwood, Middlesex, Ha6 2ar Classification: Confectionery Manufacturers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	617	-	509006 192225
122	**Contemporary Trade Directory Entries** Name: Compass Print Location: 10, Pines Close, Northwood, Middlesex, HA6 3SJ Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	631	-	509424 191870
123	**Contemporary Trade Directory Entries** Name: Just Fit Fires Location: Park Farm, Ducks Hill Road, Northwood, Middlesex, HA6 2NP Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	687	-	508120 191764
124	**Contemporary Trade Directory Entries** Name: Powerwash1.Co.Uk Location: 8c, Frithwood Avenue, Northwood, Middlesex, HA6 3LX Classification: Power Washing **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	721	-	509497 191930
124	**Contemporary Trade Directory Entries** Name: Power Wash 1 Location: 8c, Frithwood Avenue, Northwood, HA6 3LX Classification: Power Washing **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	721	-	509496 191929
125	**Contemporary Trade Directory Entries** Name: Tor Generics Location: Tudor House, Northgate, Northwood, Middlesex, HA6 2TH Classification: Chemists' & Pharmacists' Suppliers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	776	-	508128 191185
126	**Contemporary Trade Directory Entries** Name: Dryzone Damp Proofing Location: 96, Thirlmere Gardens, Northwood, Middlesex, HA6 2RU Classification: Damp & Dry Rot Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SW (NW)	812	-	508079 192014

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	**Contemporary Trade Directory Entries** Name: D S & P Services Ltd Location: 120, Green Lane, Northwood, Middlesex, HA6 1AW Classification: Wrought Ironwork **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	858	-	509698 191387
128	**Contemporary Trade Directory Entries** Name: Parfour Service Station Location: 4-6, Rickmansworth Road, Northwood, Middlesex, HA6 1HA Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SE (SE)	995	-	509541 190805
129	**Fuel Station Entries** Name: Northwood Service Station Location: Rickmansworth Road , , Northwood, Outer London, HA6 2QW Brand: Texaco Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A8NW (S)	357	-	508741 191177
130	**Fuel Station Entries** Name: Par Four Filling Station Location: 4-6, Rickmansworth Road , , Northwood, Outer London, HA6 2QQ Brand: Total Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Manually positioned to the address or location	A9SE (SE)	995	-	509540 190804
131	**Points of Interest - Commercial Services** Name: Taylor Autos Location: 14 Station Approach, Northwood, HA6 2XN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	443	9	509276 191396
131	**Points of Interest - Commercial Services** Name: Taylor Autos Location: 14 Station Approach, Northwood, HA6 2XN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	443	9	509276 191396
131	**Points of Interest - Commercial Services** Name: A N B Location: 14b Station Approach, Northwood, HA6 2XN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	443	9	509276 191396
131	**Points of Interest - Commercial Services** Name: Northwood Coachworks Location: Station Approach, Northwood, HA6 2XN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	455	9	509290 191405
132	**Points of Interest - Commercial Services** Name: Northwood Auto Services Location: Whittles Yard Rear of 12-18, Hallowell Road, Northwood, HA6 1DW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	534	9	509336 191298
132	**Points of Interest - Commercial Services** Name: Northwood Auto Services Location: Whittles Yard Rear of 12-18, Hallowell Road, Northwood, HA6 1DW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	535	9	509336 191297
133	**Points of Interest - Commercial Services** Name: Budamar Shipping Co Ltd Location: 1 Chester Road, Northwood, HA6 1BE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SW (E)	627	9	509449 191333

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	**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	A14SW (E)	458	9	509290 191392
134	**Points of Interest - Manufacturing and Production** Name: Works Location: HA6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	458	9	509290 191392
135	**Points of Interest - Manufacturing and Production** Name: Sand Pit Location: HA6 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	833	9	508874 190688
136	**Points of Interest - Public Infrastructure** Name: Northwood Police Station Location: Northwood Police Station 2, Murray Road, Northwood, HA6 2YN Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SE (SE)	290	9	509105 191381
136	**Points of Interest - Public Infrastructure** Name: Police Location: Northwood Police Station 2, Murray Road, Northwood, HA6 2YN Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SE (SE)	290	9	509105 191381
136	**Points of Interest - Public Infrastructure** Name: Police Location: Northwood Police Station 2, Murray Road, Northwood, HA6 2YN Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SE (SE)	290	9	509105 191381
136	**Points of Interest - Public Infrastructure** Name: Metropolitan Police Service Northwood Location: Northwood Police Station 2, Murray Road, Northwood, HA6 2YN Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SE (SE)	290	9	509105 191381
137	**Points of Interest - Public Infrastructure** Name: Parfour Service Station Location: 4 Rickmansworth Road, Northwood, Middlesex, HA6 1HA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A9SE (SE)	974	9	509522 190815

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	**Areas of Adopted Green Belt** Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan **Status:** **Adopted** Plan Date: 30th September 1998	A13SW (SW)	267	11	508593 191403
139	**Areas of Adopted Green Belt** Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan **Status:** **Adopted** Plan Date: 30th September 1998	A17SE (NW)	642	11	508338 192082
140	**Areas of Adopted Green Belt** Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan **Status:** **Adopted** Plan Date: 30th September 1998	A12SW (W)	663	11	508126 191550
141	**Areas of Adopted Green Belt** Authority: Three Rivers District Council Plan Name: Proposal Map **Status:** **Adopted** Plan Date: 25th November 2014	A17NE (NW)	724	12	508467 192275
142	**Nitrate Vulnerable Zones** Name: Colne And Guc (From Confluence With Chess To Ash) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (N)	0	4	508827 191580

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Chiltern District Council - Environmental Health	April 2014	Annual Rolling Update
Watford Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Three Rivers District Council - Environmental Health Department	January 2015	Annual Rolling Update
London Borough of Hillingdon - Environmental Protection Unit	March 2015	Annual Rolling Update
London Borough of Harrow - Environmental Health Services	October 2014	Annual Rolling Update
South Buckinghamshire District Council - Environmental Health Department	October 2014	Annual Rolling Update
Hertsmere Borough Council - Environmental Health Department	September 2014	Annual Rolling Update
Discharge Consents		
Environment Agency - Thames Region	January 2019	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Thames Region	March 2013	Annual Rolling Update
Integrated Pollution Controls		
Environment Agency - Thames Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - South East Region - North East Thames Area	January 2019	Quarterly
Environment Agency - South East Region - West Thames Area	January 2019	Quarterly
Environment Agency - Thames Region	January 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control		
London Borough of Hillingdon - Environmental Health Department	August 2014	Variable
London Borough of Harrow - Environmental Health Services	December 2014	Variable
Three Rivers District Council - Environmental Health Department	February 2015	Variable
Hertsmere Borough Council - Environmental Health Department	January 2015	Variable
Watford Borough Council - Environmental Health Department	June 2014	Variable
Chiltern District Council - Environmental Health	October 2014	Variable
South Buckinghamshire District Council - Environmental Health Department	September 2014	Variable
Local Authority Pollution Prevention and Controls		
London Borough of Hillingdon - Environmental Health Department	August 2014	Annual Rolling Update
London Borough of Harrow - Environmental Health Services	December 2014	Annual Rolling Update
Three Rivers District Council - Environmental Health Department	February 2015	Annual Rolling Update
Hertsmere Borough Council - Environmental Health Department	January 2015	Annual Rolling Update
Watford Borough Council - Environmental Health Department	June 2014	Annual Rolling Update
Chiltern District Council - Environmental Health	October 2014	Not Applicable
South Buckinghamshire District Council - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
London Borough of Hillingdon - Environmental Health Department	August 2014	Variable
London Borough of Harrow - Environmental Health Services	December 2014	Variable
Three Rivers District Council - Environmental Health Department	February 2015	Variable
Hertsmere Borough Council - Environmental Health Department	January 2015	Variable
Watford Borough Council - Environmental Health Department	June 2014	Variable
Chiltern District Council - Environmental Health	October 2014	Variable
South Buckinghamshire District Council - Environmental Health Department	September 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	January 2019	
Pollution Incidents to Controlled Waters		
Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Thames Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters		
Environment Agency - Thames Region	March 2013	Annual Rolling Update
Registered Radioactive Substances		
Environment Agency - Thames Region	June 2016	
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable

Agency & Hydrological	Version	Update Cycle
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - South East Region - North East Thames Area	January 2019	Quarterly
Environment Agency - South East Region - West Thames Area	January 2019	Quarterly
Environment Agency - Thames Region - North East Area	January 2019	Quarterly
Water Abstractions		
Environment Agency - Thames Region	January 2019	Quarterly
Water Industry Act Referrals		
Environment Agency - Thames Region	October 2017	Quarterly
Groundwater Vulnerability Map		
Environment Agency - Head Office	June 2018	Annually
Groundwater Vulnerability - Soluble Rock Risk		
Environment Agency - Head Office	June 2018	Annually
Bedrock Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Source Protection Zones		
Environment Agency - Head Office	January 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	February 2019	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	February 2019	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	February 2019	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	February 2019	Quarterly
Flood Defences		
Environment Agency - Head Office	February 2019	Quarterly
OS Water Network Lines		
Ordnance Survey	January 2019	Quarterly
Surface Water 1 in 30 year Flood Extent		
Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent		
Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent		
Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability		
Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	July 2018	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Thames Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - South East Region - North East Thames Area	July 2018	Quarterly
Environment Agency - South East Region - West Thames Area	July 2018	Quarterly
Environment Agency - Thames Region - North East Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - South East Region - North East Thames Area	January 2019	Quarterly
Environment Agency - South East Region - West Thames Area	January 2019	Quarterly
Environment Agency - Thames Region - North East Area	January 2019	Quarterly
Local Authority Landfill Coverage		
Buckinghamshire County Council	May 2000	Not Applicable
Chiltern District Council - Environmental Health	May 2000	Not Applicable
Hertfordshire County Council - Spatial Planning and Economy Unit	May 2000	Not Applicable
Hertsmere Borough Council - Environmental Health Department	May 2000	Not Applicable
London Borough of Harrow - Environmental Health Services	May 2000	Not Applicable
London Borough of Hillingdon - Environmental Health Department	May 2000	Not Applicable
South Buckinghamshire District Council	May 2000	Not Applicable
Three Rivers District Council - Environmental Health Department	May 2000	Not Applicable
Watford Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
South Buckinghamshire District Council	August 2006	Not Applicable
Buckinghamshire County Council	May 2000	Not Applicable
Chiltern District Council - Environmental Health	May 2000	Not Applicable
Hertfordshire County Council - Spatial Planning and Economy Unit	May 2000	Not Applicable
Hertsmere Borough Council - Environmental Health Department	May 2000	Not Applicable
London Borough of Harrow - Environmental Health Services	May 2000	Not Applicable
London Borough of Hillingdon - Environmental Health Department	May 2000	Not Applicable
Three Rivers District Council - Environmental Health Department	May 2000	Not Applicable
Watford Borough Council - Environmental Health Department	May 2000	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Thames Region - North East Area	June 2015	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
London Borough of Harrow	April 2015	Variable
Buckinghamshire County Council	February 2016	Variable
Chiltern District Council - Planning Department	February 2016	Variable
Hertfordshire County Council - Spatial Planning and Economy Unit	February 2016	Variable
Hertsmere Borough Council - Planning Department	February 2016	Variable
South Buckinghamshire District Council - Development Control Department	February 2016	Variable
Three Rivers District Council	February 2016	Variable
Watford Borough Council - Development Control	February 2016	Variable
London Borough of Hillingdon	January 2016	Variable
Planning Hazardous Substance Consents		
London Borough of Harrow	April 2015	Variable
Buckinghamshire County Council	February 2016	Variable
Chiltern District Council - Planning Department	February 2016	Variable
Hertfordshire County Council - Spatial Planning and Economy Unit	February 2016	Variable
Hertsmere Borough Council - Planning Department	February 2016	Variable
South Buckinghamshire District Council - Development Control Department	February 2016	Variable
Three Rivers District Council	February 2016	Variable
Watford Borough Council - Development Control	February 2016	Variable
London Borough of Hillingdon	January 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2019	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	October 2015	Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	January 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	November 2018	Quarterly
Points of Interest - Education and Health PointX	November 2018	Quarterly
Points of Interest - Manufacturing and Production PointX	November 2018	Quarterly
Points of Interest - Public Infrastructure PointX	November 2018	Quarterly
Points of Interest - Recreational and Environmental PointX	November 2018	Quarterly
Underground Electrical Cables National Grid	December 2015	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt		
Chiltern District Council - Planning Department	March 2019	As notified
Hertsmere Borough Council - Planning Department	March 2019	As notified
London Borough of Harrow	March 2019	As notified
London Borough of Hillingdon	March 2019	As notified
South Buckinghamshire District Council - Development Control Department	March 2019	As notified
Three Rivers District Council	March 2019	As notified
Watford Borough Council	March 2019	As notified
Areas of Unadopted Green Belt		
Chiltern District Council - Planning Department	March 2019	As notified
Hertsmere Borough Council - Planning Department	March 2019	As notified
London Borough of Harrow	March 2019	As notified
London Borough of Hillingdon	March 2019	As notified
South Buckinghamshire District Council - Development Control Department	March 2019	As notified
Three Rivers District Council	March 2019	As notified
Watford Borough Council	March 2019	As notified
Areas of Outstanding Natural Beauty		
Natural England	August 2018	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	March 2019	Bi-Annually
Marine Nature Reserves		
Natural England	January 2018	Bi-Annually
National Nature Reserves		
Natural England	August 2018	Bi-Annually
National Parks		
Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones		
Environment Agency - Head Office	December 2017	Bi-Annually
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites		
Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural England	March 2019	Bi-Annually
Special Areas of Conservation		
Natural England	August 2018	Bi-Annually
Special Protection Areas		
Natural England	April 2019	Bi-Annually

Data Suppliers

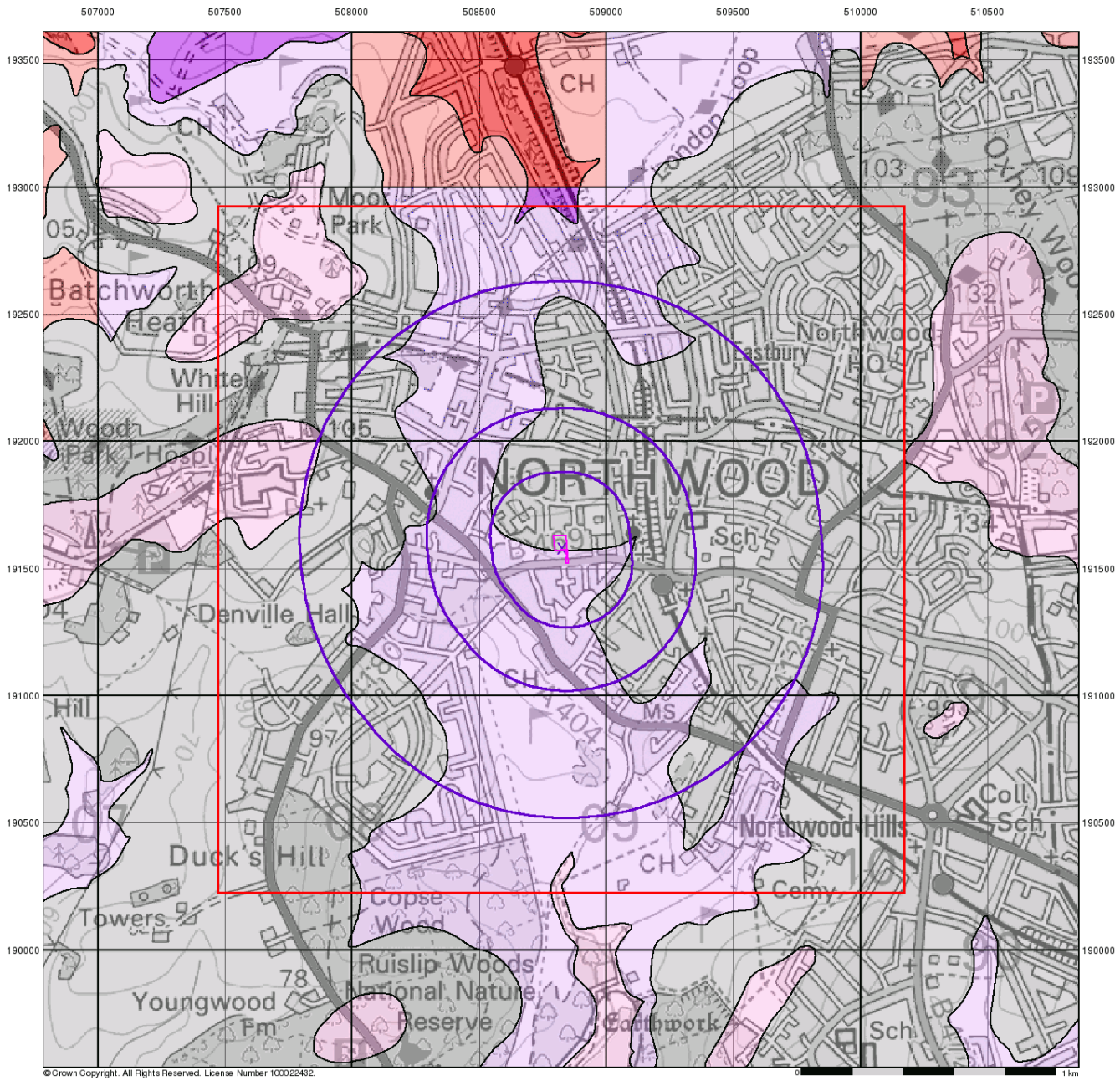
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**London Borough of Hillingdon - Environmental Health Department** Civic Centre, High Street, Uxbridge, Middlesex, UB8 1UW	Telephone: 01895 250111 Fax: 01895 277443 Website: www.hillingdon.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	**Hertfordshire County Council - Spatial Planning and Economy Unit** County Hall, Hertford, Hertfordshire, SG13 8DN	Telephone: 01992 556266 Fax: 01992 556015 Email: spatialplanning@hertfordshire.gov.uk Website: www.hertsdirect.org
7	**Three Rivers District Council - Environmental Health Department** Three Rivers House, Northway, Rickmansworth, Hertfordshire, WD3 1RL	Telephone: 01923 776611 Fax: 01923 896119 Website: www.threerivers.gov.uk
8	**Peter Brett Associates** Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
9	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
11	**London Borough of Hillingdon** Civic Centre, High Street, Uxbridge, Middlesex, UB8 1UW	Telephone: 01895 250111 Fax: 01895 250830 Website: www.hillingdon.gov.uk
12	**Three Rivers District Council** Three Rivers House, Northway, Rickmansworth, Hertfordshire, WD3 1RL	Telephone: 01923 776611 Fax: 01923 896119 Website: www.threerivers.gov.uk
13	**London Borough of Harrow** Civic Centre, Station Road, Harrow, Middlesex, HA1 2XF	Telephone: 020 8863 5611 Fax: 020 8863 8267 Website: www.harrow.gov.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.



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Groundwater Vulnerability

General

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

Slice | Map ID

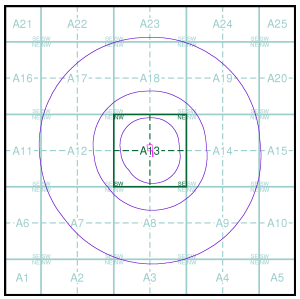
Agency and Hydrological

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

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	204084438_1_1
Customer Ref:	RML 6980
National Grid Reference:	508830, 191580
Slice:	A
Site Area (Ha):	0.31
Search Buffer (m):	1000

Site Details

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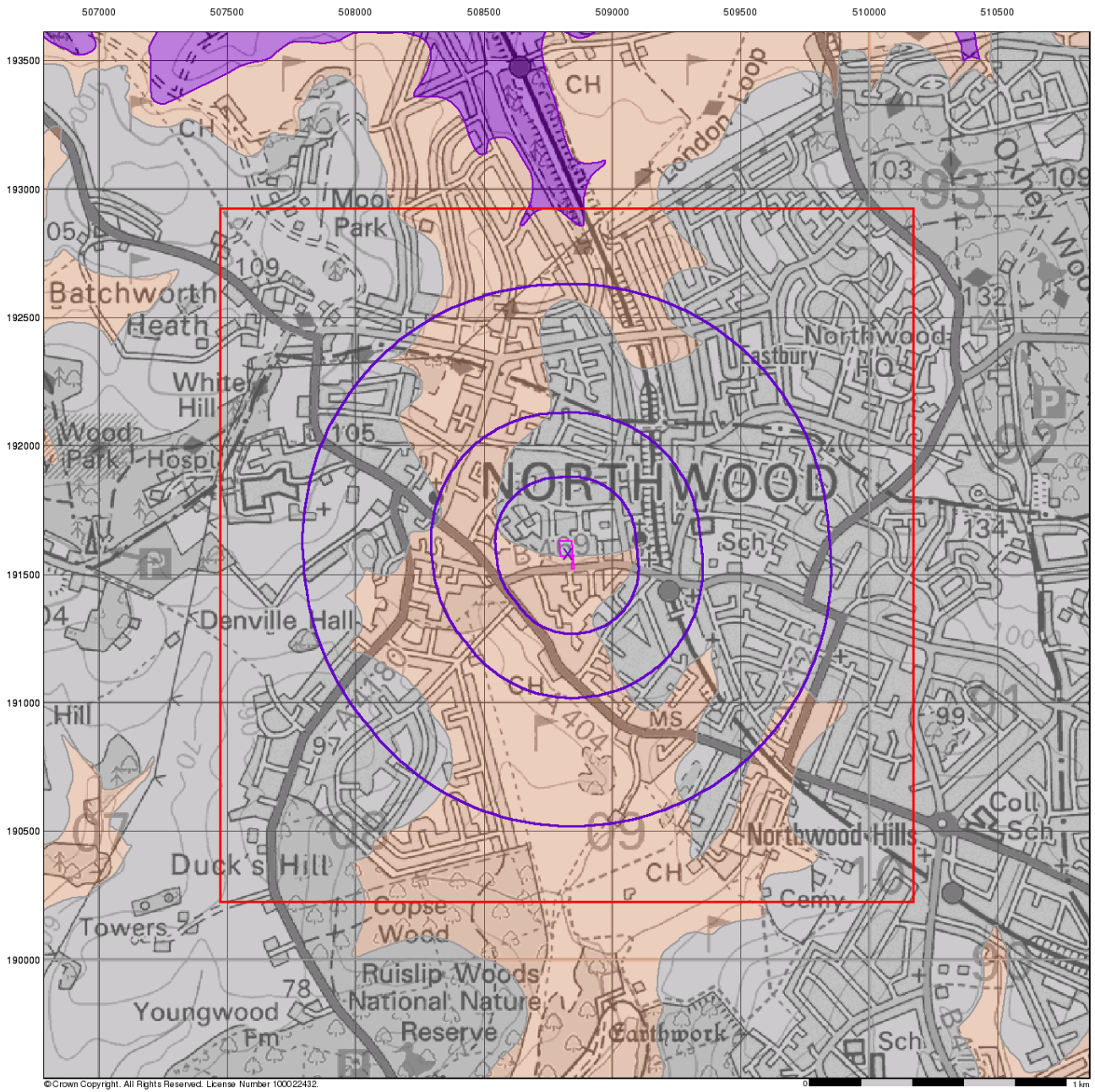

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Bedrock Aquifer Designation

General

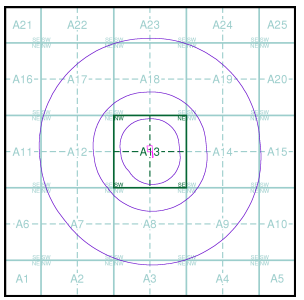
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



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Search Buffer (m):	1000

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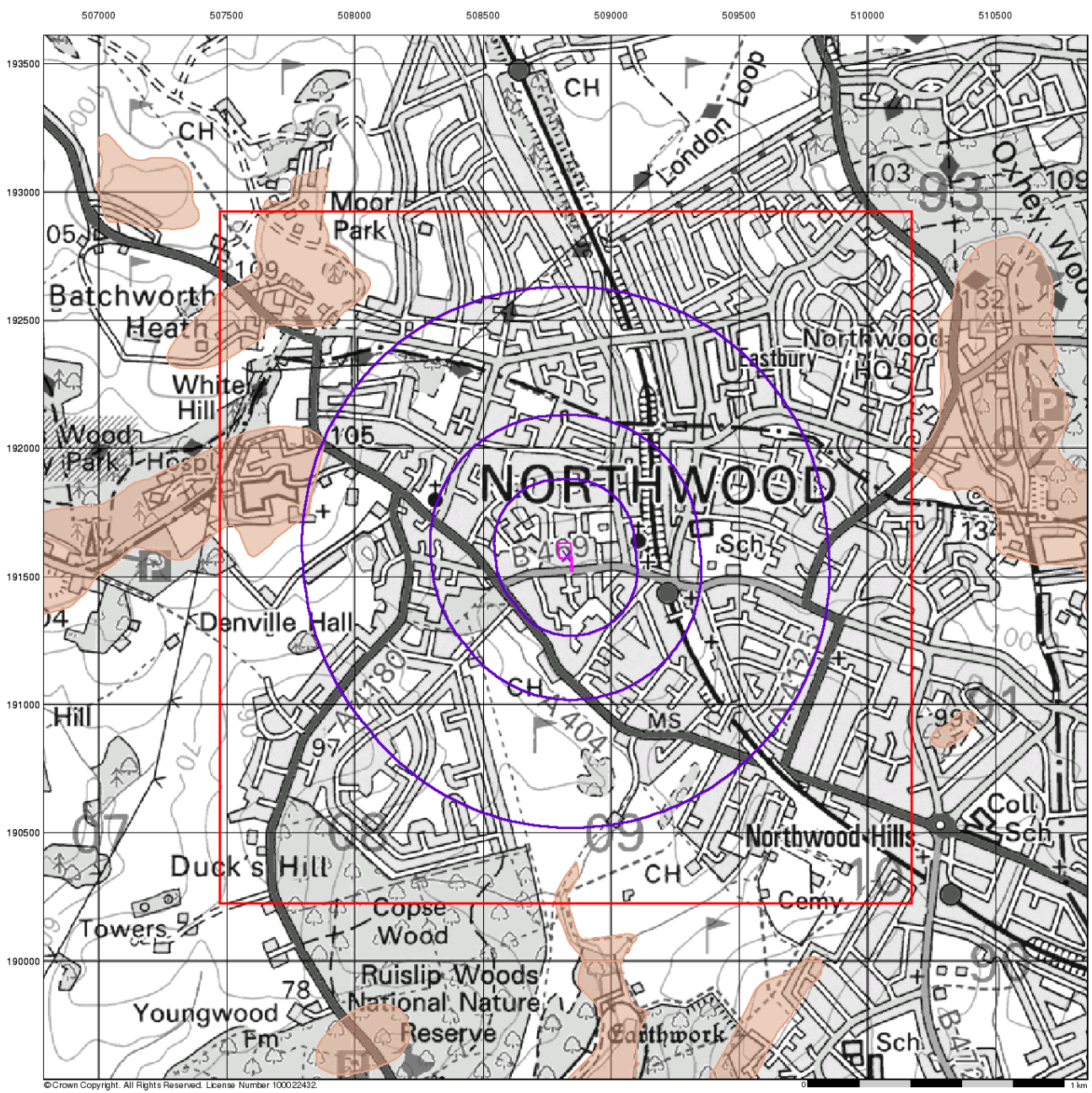

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Superficial Aquifer Designation

General

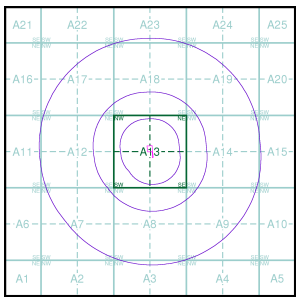
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



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National Grid Reference:	508830, 191580
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Site Area (Ha):	0.31
Search Buffer (m):	1000

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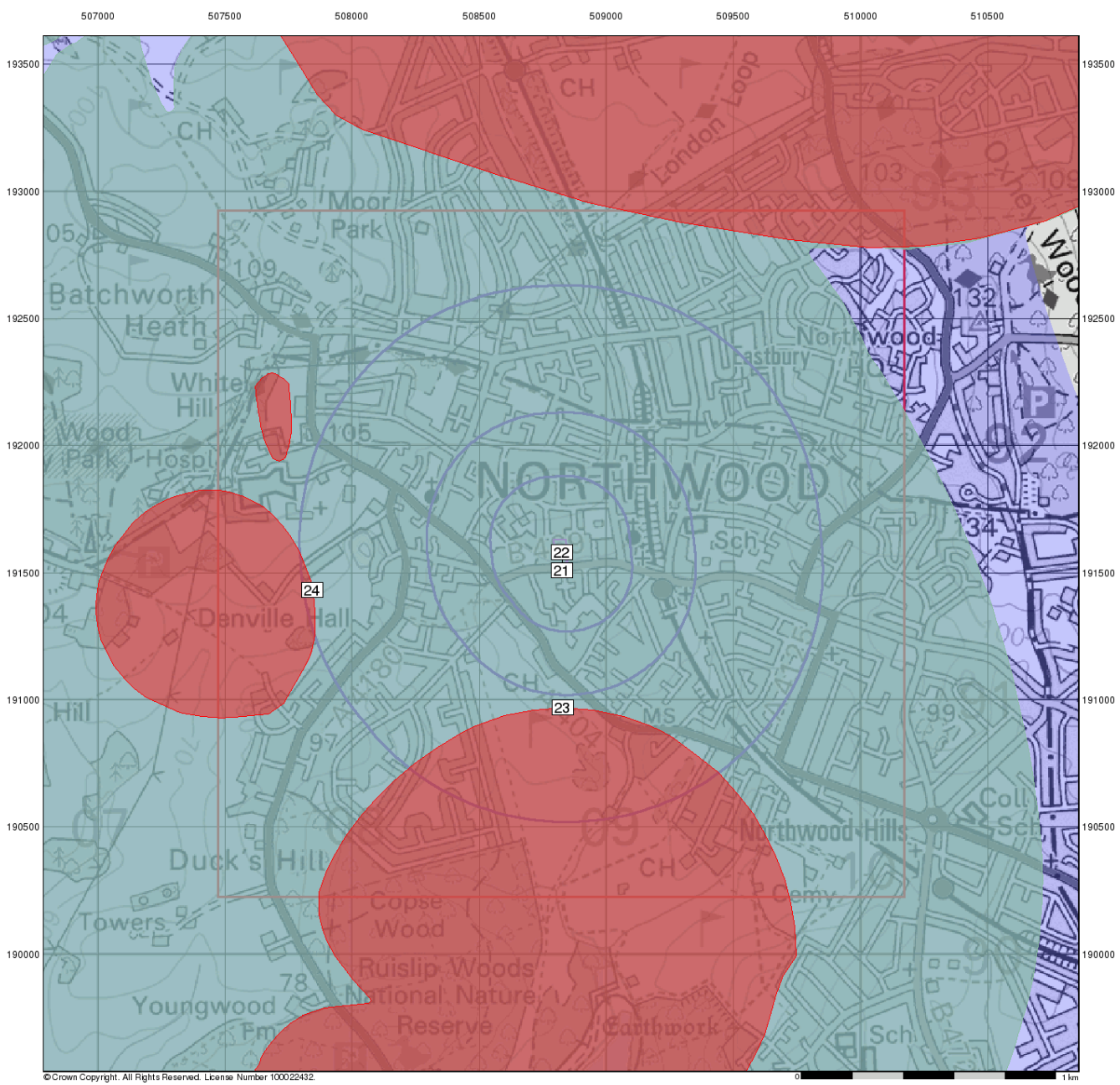

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Source Protection Zones

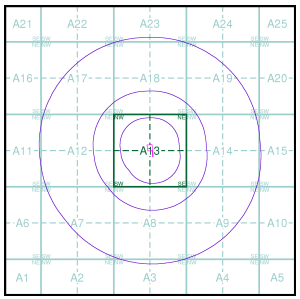
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



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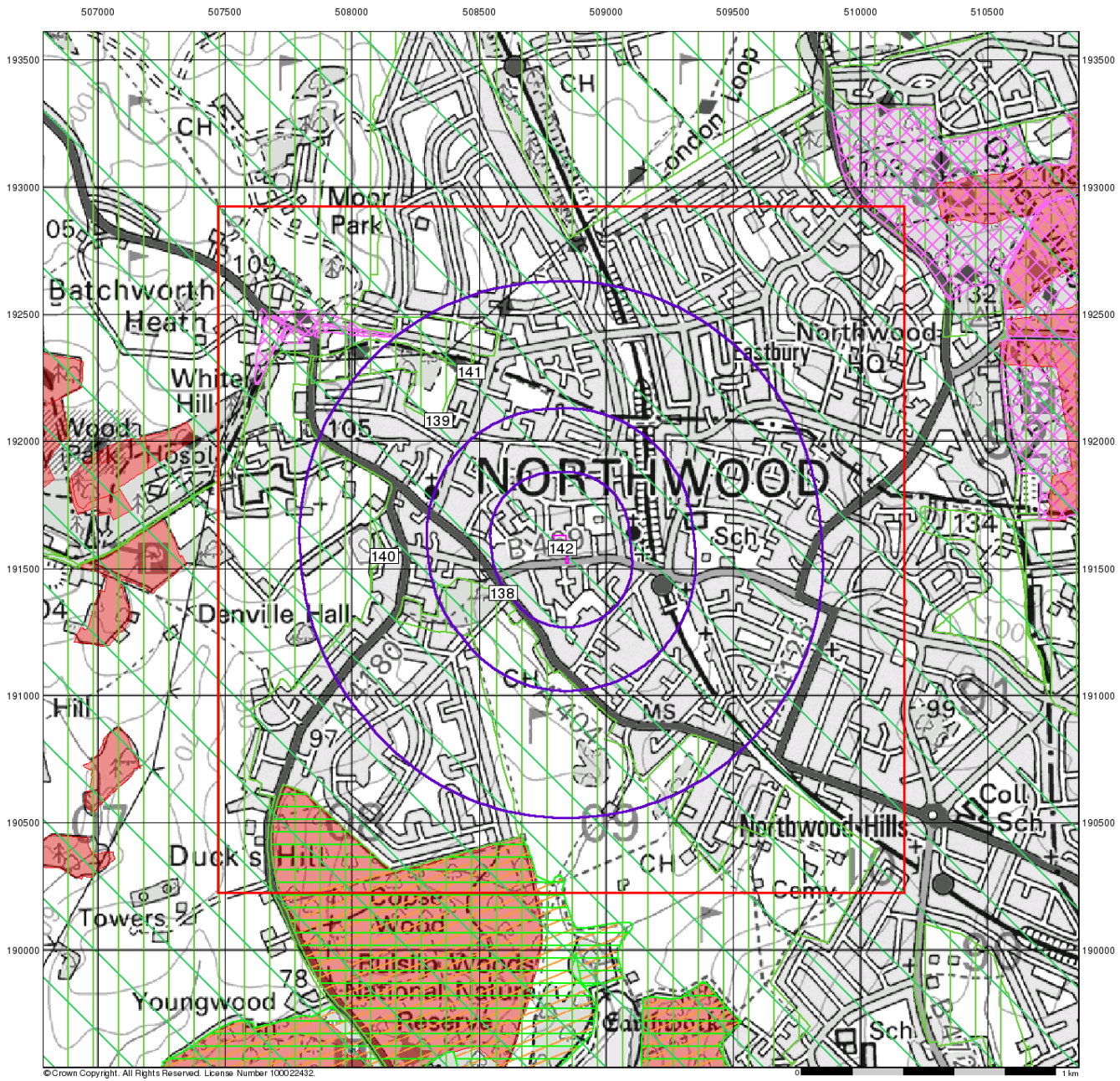

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Sensitive Land Uses

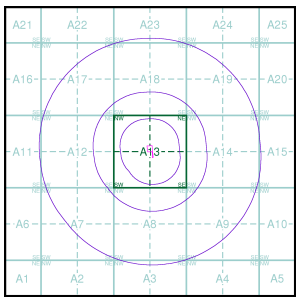
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



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Search Buffer (m):	1000

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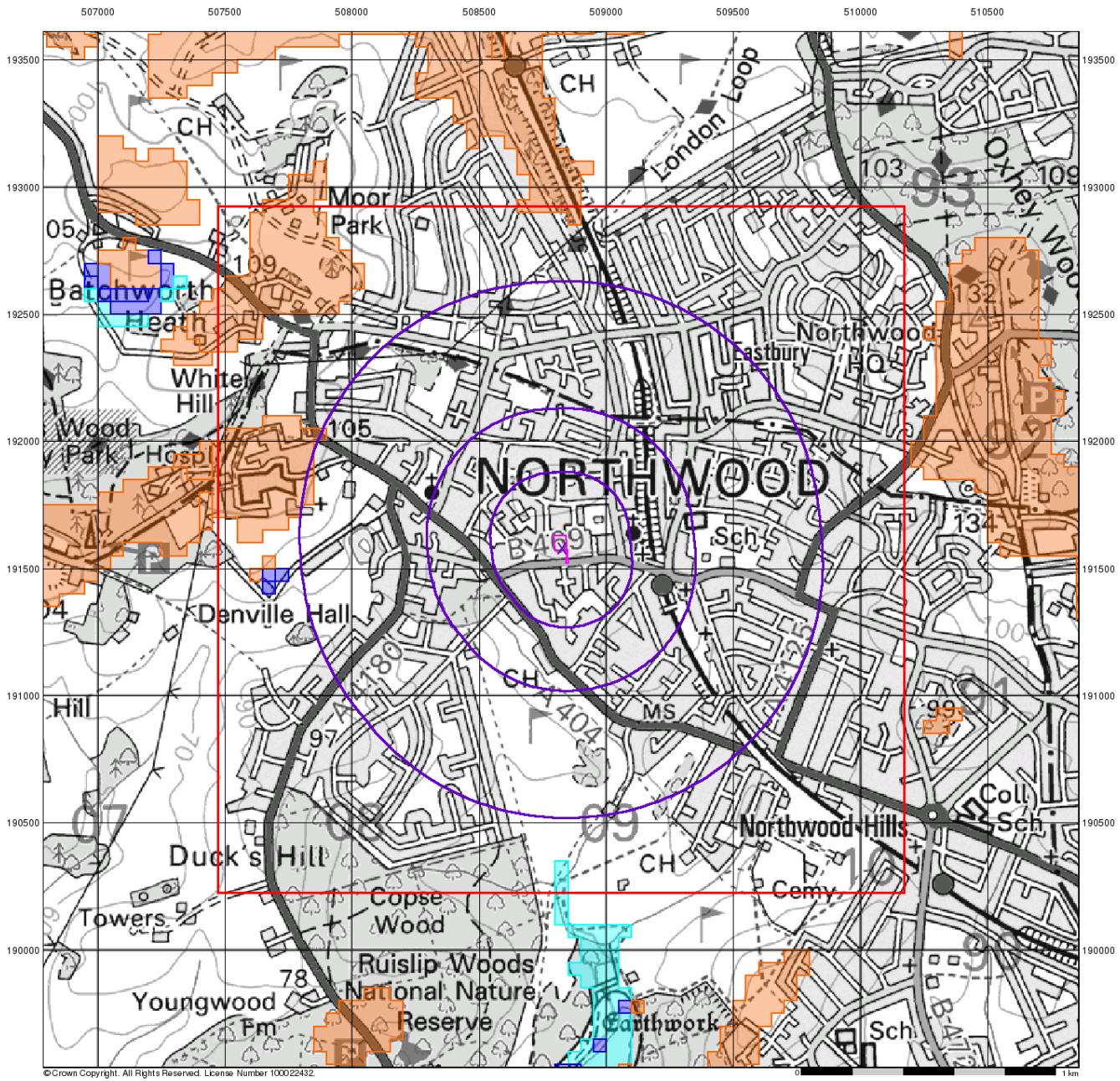

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BGS Flood GFS Data

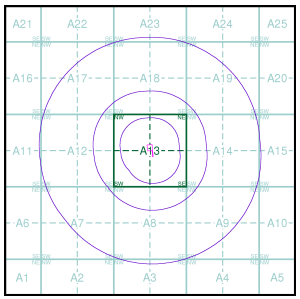
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	204084438_1_1
Customer Ref:	RML 6980
National Grid Reference:	508830, 191580
Slice:	A
Site Area (Ha):	0.31
Search Buffer (m):	1000

Site Details

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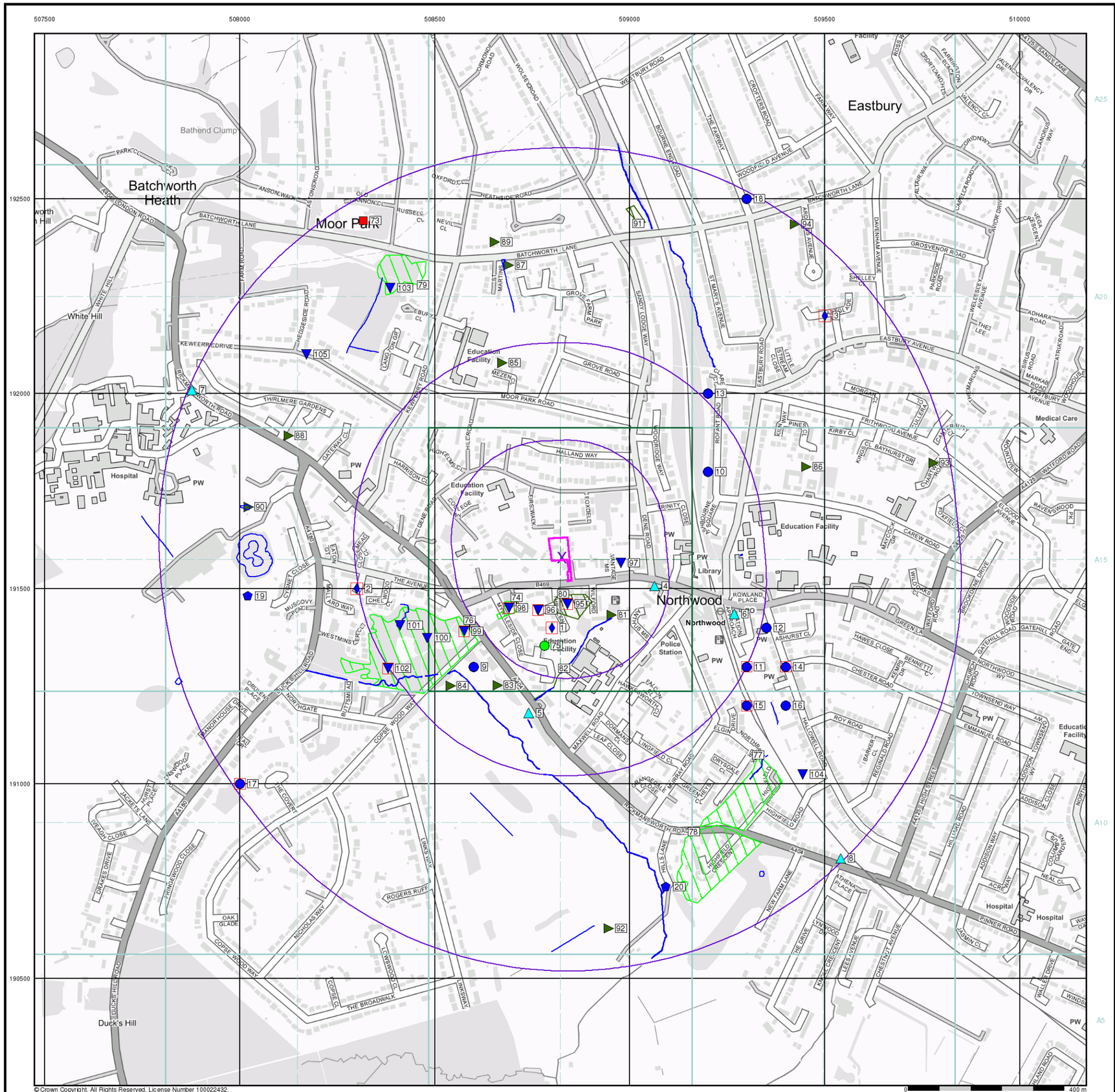

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General

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

Agency and Hydrological

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

Hazardous Substances

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

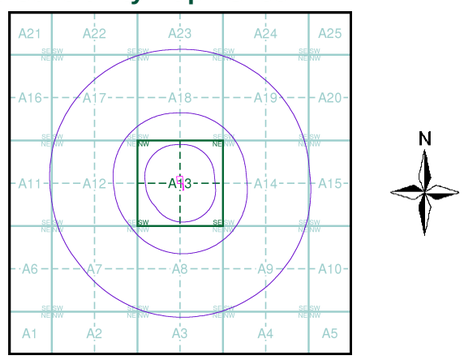
Geological

- 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 - Slice A



Order Details

Order Number:	204084438_1_1
Customer Ref:	RML 6980
National Grid Reference:	508830, 191580
Slice:	A
Site Area (Ha):	0.31
Search Buffer (m):	1000

Site Details

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0 400 m

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Industrial Land Use Map

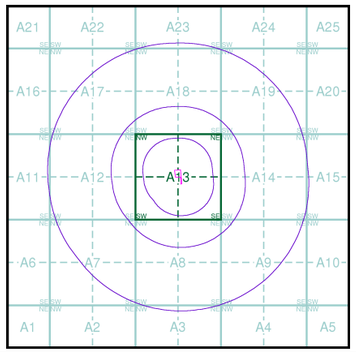
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- 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:	204084438_1_1
Customer Ref:	RML 6980
National Grid Reference:	508830, 191580
Slice:	A
Site Area (Ha):	0.31
Search Buffer (m):	1000

Site Details

London School of Theology, Green Lane, NORTHWOOD, HA6 2UW

Landmark INFORMATION GROUP

Tel: 0844 844 9952
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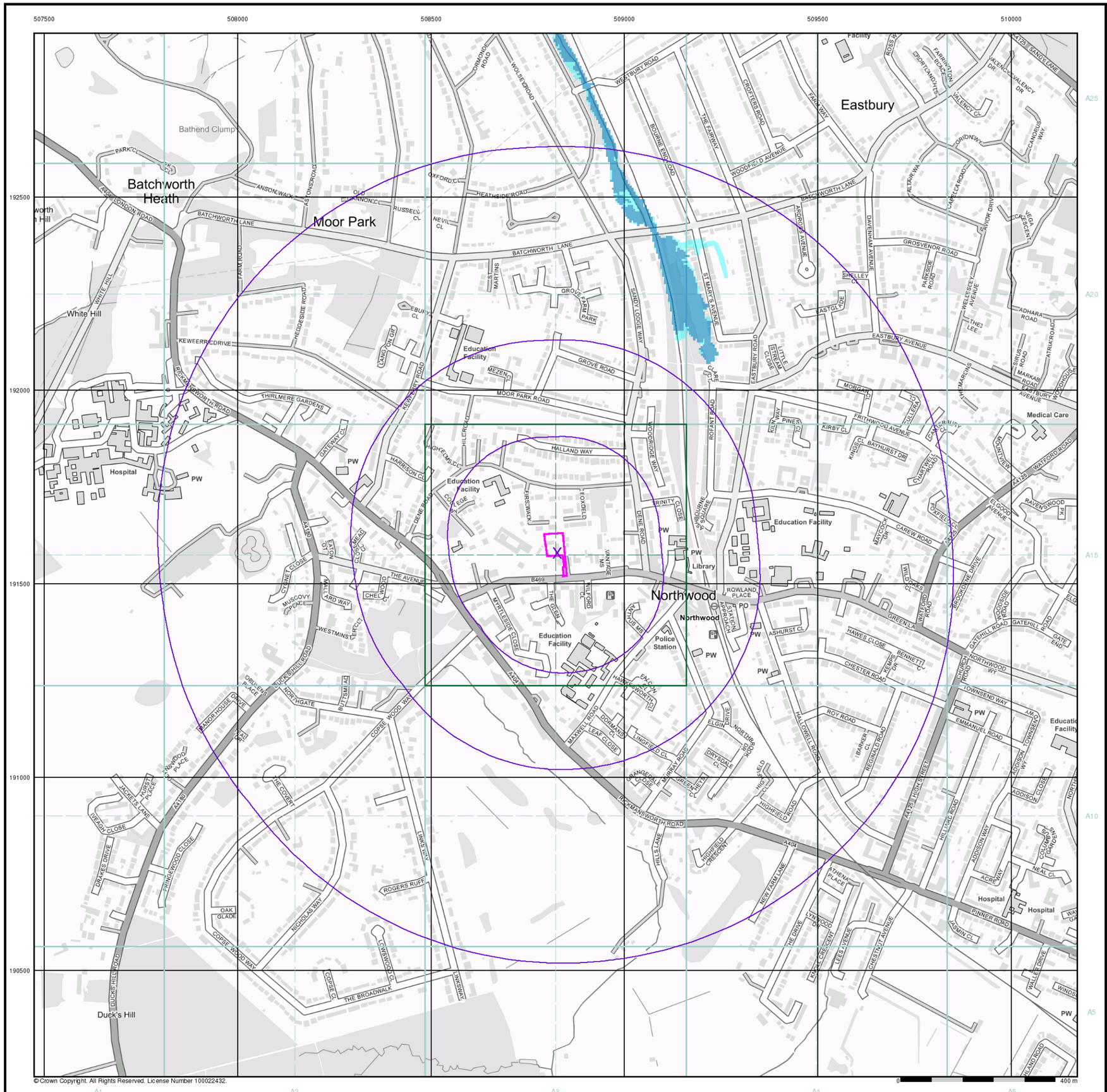

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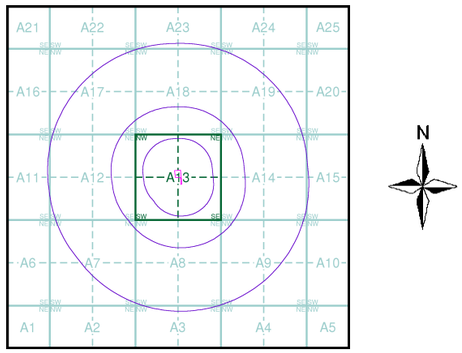
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

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Customer Ref:	RML 6980
National Grid Reference:	508830, 191580
Slice:	A
Site Area (Ha):	0.31
Search Buffer (m):	1000

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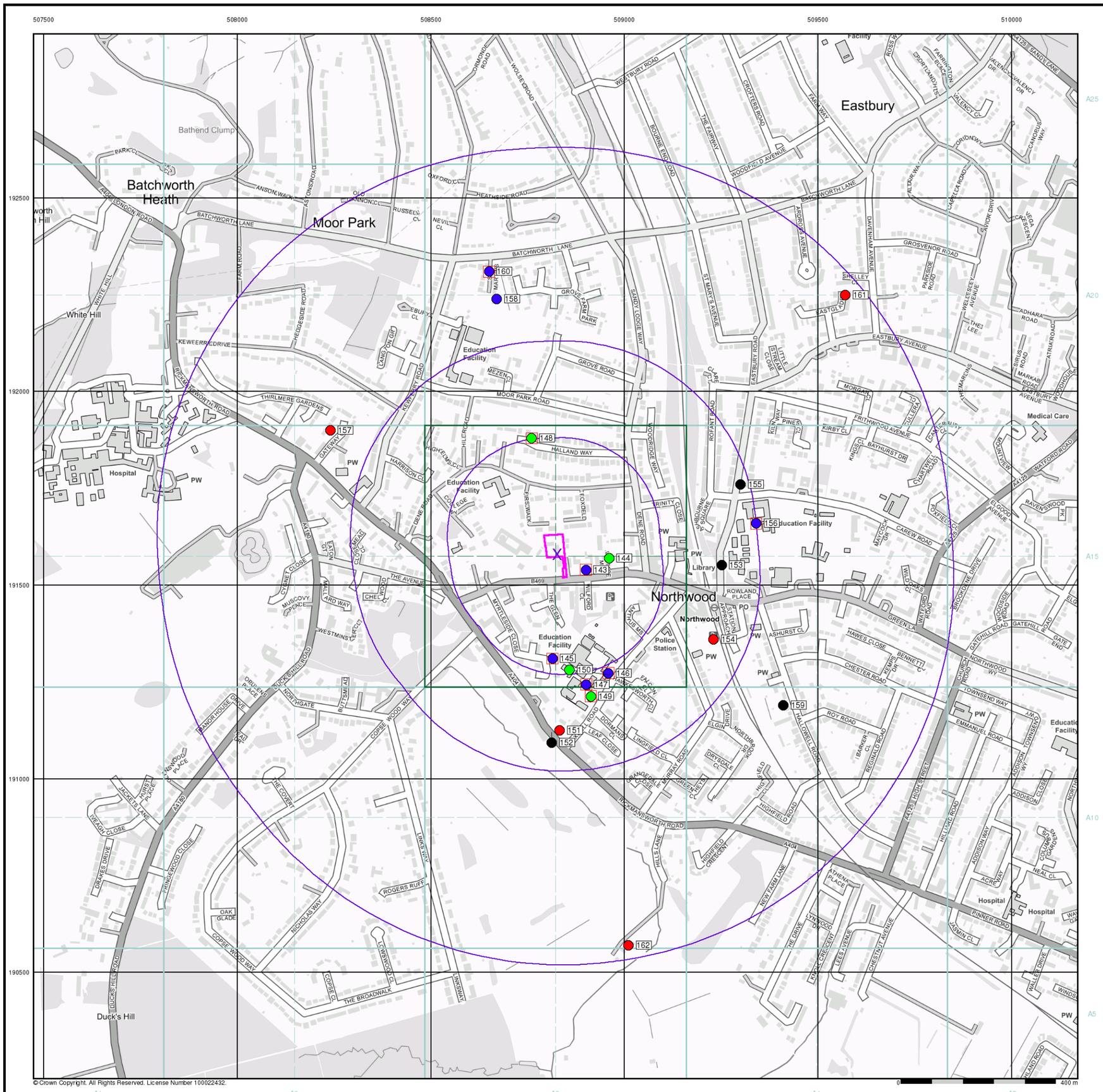

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General

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

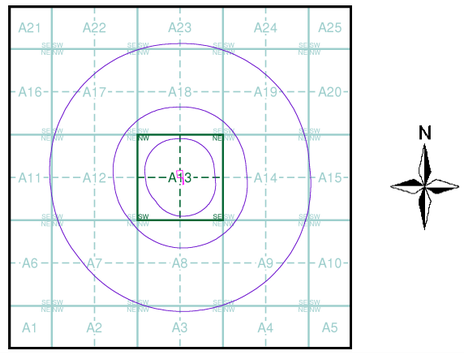
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



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