

PROJECT No. RML 7119

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

**AT
53 JOEL STREET, NORTHWOOD**

**ON BEHALF OF
WESTCOMBE HOMES LIMITED**

February 2020



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1.0 INTRODUCTION & SCOPE OF WORKS

- 1.1 This report has been prepared by Risk Management Limited (RML) under cover of the Client, Messrs. Westcombe Homes Limited's, e-mailed Instruction to Proceed, dated 7th January 2020.
- 1.2 The Architects for the project are Messrs. Fluent Architectural Design Services.
- 1.3 The site under consideration is located at No. 53 Joel Street, Northwood, London, HA6 1NZ.
- 1.4 The approximate six-figure grid reference for the centre of the site is 510290E,190290N.
- 1.5 It is understood that the currently proposed development at this site is for construction of a three-storey residential property comprising a two-bedroom flat and 2 No. three-bedroom flats on the upper floors and at ground floor a one-bedroom flat, a residential cycle store, a bin storage area, communal staircases and a cycle store for commercial units, together with car parking facilities and communal garden areas. Further details of the proposed development can be found on the appended Messrs. Fluent Architectural Design Services, Drawing No. FLU.653.02 Revision W.
- 1.6 RML 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 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 Thursday 23rd January 2020.
- 2.2 The site is an irregular shape in plan, covers an area of approximately 0.14ha and is generally flat and level. Vehicle access to the site is gained on the eastern side of the building directly from Ferndown via a pavement crossover.
- 2.3 The northern part of the site is currently occupied by a three-storey building fronting onto Joel Street with an undercroft parking area to the rear. The remainder of the site provides an external car parking facility with blacktop surfacing. The building is constructed in brickwork under a mansard roof. There is a steel fire escape stairway on the southern side of the building linking the upper floors with the external car park. There is a mixed waste refuse bin adjacent to the site entrance and a Mitsubishi air conditioning unit with R32 refrigerant in the undercroft car parking area. Along the north-eastern boundary is a landscape strip planted with shrubs, hedges and trees. Along the eastern boundary is a stockpile of 'heras' style fencing panels and metal frames and in the southern corner of the site there is some general builders waste. Along the south-western boundary is a second landscape strip planted with shrubs and trees.
- 2.4 The northern boundary to the current site is formed in part by the flank wall of the building on the site, a brick wall with a timber fence behind and the back edge of the pavement crossover. Beyond the boundary there are high street shops with residential accommodation above and their associated service and parking areas.
- 2.5 The north-eastern boundary to the current site is formed in part by the back edge of pavement where it crosses the site entrance, a brick wall with a timber fence behind and a brick wall. Beyond the boundary there is the footway and roadway of Ferndown and beyond that residential properties and private gardens.
- 2.6 The eastern boundary to the current site is formed by a brick wall with a timber panel fence behind. Beyond this boundary are residential properties with private gardens.
- 2.7 The south-western boundary to the current site is formed by a wire, chain-link, fence. Beyond this boundary are railway tracks and Northwood Hills Station. Further beyond this are high street shops and residential properties.

- 2.8 The western boundary to the current site is formed in part by the back edge of pavement to Joel Street, the flank wall of the buildings on the site and a wire, chain-link, fence. Beyond the boundary there is the footway and Roadway of Joel Street, the buildings of Northwood Hills Station and electrical equipment associated with the station. Further beyond are railway tracks and high street shops.
- 2.9 Within the site several drainage manholes were noted, together with a 'charcon' drainage channel laid across the centre of the external car parking area. In the footways and roadway of Ferndown evidence of street lighting, British Telecom, CATV, water and drainage services were also noted.
- 2.10 The site lies in a mixed-use area with local shops, residential properties, educational facilities, transport facilities, public open space and recreational facilities all close by.
- 2.11 No visual or olfactory evidence of significant contamination was noted during the Walkover Survey.
- 2.12 Plates 1 and 2 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 London Borough of Harrow which has 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 potentially infilled Land (water) entry in the 251-500m search band, this relates to unknown filled ground (pond, marsh. river, etc.) 285m to the east.	Gas-monitoring will be undertaken as part of the current Phase II <i>intrusive</i> site investigation.
Local Authority Pollution Prevention and Controls	There are two Local Authority Pollution Prevention and Control entries within the 0-250m search band. These relate to a Petrol Filling Station 169m to the south and a dry cleaners 169m to the north.	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
Non-Coal Mining Areas of Great Britain	The site lies in a Non-Coal mining area which has an “unlikely” risk.	This will be addressed by the current Phase II <i>intrusive</i> 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 "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 <i>intrusive</i> site investigation.
Radon	The site does not fall within shaded sections of Annex 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 nine active Contemporary Trade Directory entries within the 0-250m search band. the nearest of which relates to Garage Services 81m to the south. The other entries relate to Painting and Decorating Supplies, Dry Cleaners, Garages Services and two Petrol Filling Stations.	Contamination testing will be undertaken as part of the current Phase II <i>intrusive</i> site investigation.
Historic Contemporary Trade Directory Entries	There are twenty-one Historic Trade Directory entries within the 0-250m search band, the nearest relates to a Bearing Manufacturers on the site. The others relate to Printers, Stained Glass Designers & Producers, Hardware, Car Dealers, Printers, Sheet Metal Work, Electrical Goods and Washing Machines – Servicing & Repairs, Engineers (General), Dry Cleaners, Bearing Manufacturers, Commercial Vehicle Dealers, Builders Merchants, Petrol Filling Station, Electrical Goods Sales, Manufacturers & Wholesalers	
Fuel Station Entries	There is one Fuel Station entry within the 0-250m search band which refers to a Petrol Station 169m to the south. There are two obsolete entries within the 500-1000m search band.	
Sensitive Land Use	There are five Sensitive Land Use entries within the 0-250m search band. The nearest entry 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. The other four entries relate to areas of adopted and unadopted green Belt land the nearest of which is 171m to the south.	Ensure no significant pathway is created between the site surface and any underlying aquifer formation or watercourse.

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 no Discharge Consent entries within the 0-1000m search band.	None required.
Nearest Surface Water Feature	The nearest surface water feature entry is noted as being 206m to the north west. This appears to be a drainage channel running along the rear boundary of properties in Highland Road where private gardens adjoin the local recreation ground.	None required
Water Abstractions	There are no Water Abstractions are noted within the 0-1000m search band.	None required.
Pollution Incidents to Controlled Waters	There are seven Pollution Incidents to Controlled Water entries within the 0-250m search band and four entries within the 251-500m search band. The nearest entry relates to a Category 3-minor incident where unknown sewerage was discharged. The receiving water is not given but lies 93m to the east. The other entries are all category 3 incidents and related to unknown sewage, chemicals or miscellaneous pollutants, where the receiving water is not given	None required
Groundwater Vulnerability	The appended Groundwater Vulnerability Map indicates that the northern part of the site lies in an area of 'Unproductive Aquifer'.	Contamination testing will be undertaken as part of the current Phase II intrusive site investigation.
Bedrock Aquifer Designations	The Bedrock Aquifer designation is shown as 'Unproductive Strata'.	
Superficial Aquifer Designations	The Superficial Aquifer designation is shown as 'Unproductive Strata'.	
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 does not lie within an Environment Agency flood zone and is therefore classified as Flood Zone 1. There is no potential for groundwater flooding to occur. There is a very 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 significant water feature is an un-named watercourse approximately 220m to the east of the current site. The watercourse flows southwards towards open land at Gladsdale Drive and then alongside Joel Street before discharging to the River Pinn at Haydon Hall Park, just to the north of the B466. 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 an easterly, or south easterly direction towards the unnamed watercourse. Therefore, only potential sources of contamination to the west and north-west of the site are considered likely to have any significant impact.

4.0 HISTORICAL MAPS

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

4.1.1 1865 - 1876 (1:2,500)

The map of 1865-1876 shows the site located in the 1865 part of the mapping. The site is unoccupied and situated in an area of open land.

To the north and north-east there are open fields with trees to the margins leading to an un-named road and beyond that more open fields. To the east and south-east there are open fields with trees to the margins. To the south there are open fields then an area of rough grass and heathland named as Poors' Field. To the south-west, west and north-west there are open fields leading to an un-named road and beyond that more open fields with trees to the margins. Further beyond to the north-west is The Hundred Acres Farm alongside an un-named road.

4.1.2 1896 (1:2,500)

The map of 1896 shows the site still unoccupied and within an area of open land. A small area of embankment is now shown in the western part of the site.

The areas to the north, north-east and east appear generally unchanged. To the south-east and south a railway track on embankment has been constructed. Beyond the railway track the area to the south east appears generally unchanged and to the south Poors' Field remains but is now shown as open fields. To the south-west the area appears generally unchanged. To the west and north-western embankment has been constructed alongside the un-named road and the railway track on embankment is shown crossing the areas of open field. The remainder of these areas appear generally unchanged.

4.1.3 1913 (1:2,500)

The map of 1913 shows the current site still unoccupied and situated in an area of open land. The embankment is still shown in the western part of the site.

The surrounding areas appear generally unchanged. To the north-west a school and residential properties with private gardens have been constructed alongside the un-named road.

4.1.4 1932 (1:2,500)

The map of 1932 shows the current site still unoccupied and situated in an area of open land. The embankment is still shown in the western part of the site.

The surrounding areas appear generally unchanged. To the north the un-named road is now shown as Pinner Road and beyond that new roads have been laid out and residential properties with private gardens constructed. To the north-east residential properties with private gardens have been constructed. To the south, Poors' Field is now shown as Allotment Gardens. To the south-west and west the un-named road is now named as Joel Street. To the north-west a railway siding and un-named buildings are shown and more residential properties with private gardens have been constructed.

4.1.5 1959 - 1965 (1:1,250)

The map of 1959-1965 shows the site located in the 1965 part of the mapping. Most of the site is now occupied by un-named buildings.

To the north the open fields are no longer shown. New roads have been laid out and residential properties with private gardens have been constructed. New properties have been constructed alongside Joel Street. Beyond Pinner Road a library has been constructed and the open land is now a school playing field. To the north-east, east and south-east new roads have been laid out and residential properties with private gardens have been constructed. To the south, beyond the railway track, an engineering works is shown and new roads have been laid out and residential properties with private gardens constructed. New properties and a garage have been constructed alongside Joel Street. To the south-west a hotel and new properties have been constructed alongside Joel Street. Beyond that new roads have been laid out and residential properties with private gardens constructed. To the west, Joel Street has been widened where it passes over the railway tracks and beyond that new roads have been laid out and residential properties with private gardens constructed. Further beyond a recreation ground and playing fields have been established. To the north-west new properties have been constructed alongside Joel Street. Beyond that new roads have been laid out and a cinema and residential properties with private gardens constructed. Beyond Pinner Road, The Hundred Acres Farm is no longer shown and new properties have been constructed.

4.1.6 1991 -1992 (1:1,250)

The map of 1991-1992 shows the site located in the 1992 part of the mapping. Some buildings on the site have been demolished and the site is now partly occupied by a smaller un-named building.

The surrounding areas appear generally unchanged. To the south-west an electricity sub-station is shown, and some new properties have been constructed alongside Joel Street.

4.1.7 1999 (Aerial Photograph)

The aerial photograph of 1999 shows the site still occupied by the smaller un-named building and a car parking area.

The immediate surrounding area appears generally unchanged. To the south, some properties alongside Joel Street have been demolished and a low-rise building and car parking area constructed.

4.1.8 2006 (1:10,000)

The map of 2006 shows the site still occupied by the smaller un-named building and a car parking area.

The immediate surrounding area appears generally unchanged.

4.1.9 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 7119/1.
- 5.3 Fieldwork was undertaken on 13th and 23rd January 2020 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 In addition to the above noted cable percussion borehole, six drive-in-sampler boreholes (DIS1-DIS6) were drilled across the site. Borehole DIS1 was drilled to a depth of 7.00m below existing ground level, boreholes DIS2 and DIS3 to depth of 3.00m below existing ground level and boreholes DIS4-DIS6 to depths of between 0.80m and 1.00m 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 DIS1 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.

Falling Head Permeability Test

- 5.13 A Falling Head Permeability Test (SA1) was carried out at 3.10m depth (depth to groundwater) within the standpipe installed in borehole DIS1.
- 5.14 The permeability test was undertaken in accordance with B.S. 5930:1999 Part 25.4.3 Variable Head Test.
- 5.15 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

- 5.16 Following the initial site work, three return gas/groundwater monitoring visits have been undertaken to the installation fitted within borehole DIS1 on the 23rd & 29th January 2020 and 5th February 2020.
- 5.17 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.
- 5.18 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 London Clay of the Eocene Period overlying Reading Beds (Lambeth Group) of the Eocene Period.
- 6.2 It is thought that the London Clay formation was deposited during a period of sea inundation in the area up to 200m in depth. The London Clay can be up to 150m thick beneath south Essex thinning across London to about 90m near Reading. The formation consists of mainly dark blue to brown grey clay containing variable amounts of fine-grained sand and silt. London Clay generally weathers to an orange-brown colour with pockets of silty fine sand. The formation is particularly susceptible to swelling and shrinking when subjected to moisture content changes. In addition, gypsum (selenite) crystals and pyrite nodules are commonly found throughout the formation.
- 6.3 The Lambeth Group is the new name for the previous Woolwich and Reading Beds and includes the Thanet Sand formation.
- 6.4 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 multicoloured silty sandy clays interbedded in parts with sands and silts and sometimes gravel.
- 6.5 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.
- 6.6 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"

- 6.7 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	0.30	Tarmac over Roadstone
0.30	0.60	MADE GROUND
0.60	4.90	Weathered London CLAY
4.90	10.70	London CLAY
10.70	14.10	Silty CLAY
14.10	16.00	Sandy CLAY
16.00	18.00	Silty SAND
18.00	20.00 +	Sandy CLAY

Boreholes DIS1-DIS6

Depth From (m)	Depth To (m)	Description
0.00	0.10/0.15	Tarmac
0.10/0.15	0.35/0.80	MADE GROUND
0.80	1.00 +	Sandy GRAVEL (DIS5 and DIS6 only)
0.35/0.60	3.00+/5.60	Weathered London CLAY (DIS1-DIS3 only)
5.60	7.00 +	London CLAY (DIS1 only)

- 6.8 Groundwater was not noted during boring. Groundwater was, however, noted during the return monitoring visits to the installation within borehole DIS1 at between 2.05m and 3.10m 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.
- 6.9 Roots were noted within three of the seven boreholes, up to a maximum depth of at least 1.00m 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 eight samples taken from borehole BH1 at depths of between 1.00m and 19.00m below existing ground level.

The natural moisture content was found to range between 15% and 40%.

7.5 *Atterberg Limits*

The Atterberg Limits have been determined for two samples taken from borehole BH1 at depths of 1.00m and 2.00m below existing ground level.

The liquid limits (LL) were found to be 72% and 93%, the plastic limits (PL) 24% and 30%, and the plasticity index (PI) 48 and 63.

These results indicate that the sample tested from 1.00m depth can be classified as being a clay of ‘extremely high’ plasticity (CE) and the sample tested from 2.00m depth can be classified as being a clay of ‘very high’ plasticity (CV), both in accordance with the Casagrande Geotechnical classification system.

In addition, both 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 six undisturbed 104mm diameter samples.

The resulting mean shear stress (undrained cohesion) C_u values ranged between 49 kN/m² and 176 kN/m² indicating that the samples tested were 'firm' to 'very stiff' in consistency.

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

7.7 *pH and Sulphate Tests*

The pH has been determined for seven samples from across the site and was found to range between 4.5 and 8.7.

The sulphate content has been determined for two samples obtained from borehole DIS1 at 0.50m and 1.50m below existing ground level. On a 2:1 water:soil extract, the sulphate content was found to be 0.16 g/l and 0.09 g/l respectively.

7.8 *Chemical Analysis*

Three samples of MADE GROUND and one sample of shallow natural ground, generally taken from areas of proposed gardens/landscaping, 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 Metals, speciated **PolyAromatic Hydrocarbon (PAH)** and speciated **Total Petroleum Hydrocarbon (TPH)**, together with **BTEX**, **Benzene**, **Toluene**, **Ethylbenzene** and **Xylenes**. Full details of the results are given on the appended result sheets.

7.9 *Asbestos Identifications*

The same four samples, as discussed above, were submitted to a UKAS accredited laboratory for asbestos identification. Full details of the results are given on the appended result sheets.

7.10 *Waste Classification Tests*

Two samples from boreholes DIS1 and DIS2, at depths of 0.50m and 1.00m below existing ground level, respectively, 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 currently proposed development at this site is for construction of a three-storey residential property comprising a two-bedroom flat and 2 No. three-bedroom flats on the upper floors and at ground floor a one-bedroom flat, a residential cycle store, a bin storage area, communal staircases and a cycle store for commercial units, together with car parking facilities and communal garden areas.
- 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 northern part of the site occupied by a three-storey building fronting onto Joel Street with an undercroft parking area to the rear. The rest of the site provides an external car parking facility with blacktop surfacing. The building is constructed in brickwork under a mansard roof. There is a steel fire escape stairway on the southern side of the building linking the upper floors with the external car park. There are mixed waste refuse bins adjacent to the site entrance and a Mitsubishi air conditioning unit with R32 refrigerant in the undercroft car parking area. Along the north-eastern boundary to the current site is a landscape strip planted with shrubs, hedges and trees. Along the eastern boundary is a stockpile of Heras fencing panels and metal frames and in the southern corner of the site there is some general builders waste. Along the south-western boundary to the current site is a second landscape strip planted with shrubs and trees. The site lies in a mixed-use area with local shops, residential properties, educational facilities, transport facilities, public open space and recreational facilities all close by. No visual or olfactory evidence of contamination was noted during the walkover survey.
- 8.4 The historical mapping shows that from circa 1865 until 1932 the site was unoccupied and situated in an area of open land. Circa 1896 a railway track on embankment was constructed adjacent to the southern boundary of the site. Circa 1932 until 1992 the site is occupied by un-named buildings and the surrounding area is developed with generally residential and commercial properties and recreational facilities. Circa 1992 a new building is constructed on the northern part of the current site after which the site and surrounding area remain generally unchanged until the current date.

- 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 historical trade activities on the site and in the area surrounding the site, which include a ball bearing manufacturer, printers, dry cleaners and a petrol filling station. 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. The Bedrock and Superficial Aquifers are designated as 'Unproductive Strata'. The site lies within 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 entrance.
- 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 Tarmac over Roadstone, a band of MADE GROUND up to a depth of 0.60m below existing ground level. Beneath the MADE GROUND was Weathered London CLAY to a depth of 4.90m below existing ground level where it graded to fresh, grey, London CLAY up to a depth of 10.70m below existing ground level. Beneath London CLAY, a band of mottled silty CLAY was encountered to a depth of 14.10m where mottled sandy CLAY was encountered up to a depth of 16.00m below existing ground level. Beneath the mottled sandy CLAY, a band of silty SAND was encountered overlying sandy CLAY which 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 Weathered London CLAY at a minimum depth of some 1.50m below existing ground level where an allowable bearing pressure of 100 kN/m² could be adopted. This could be increased to 125 kN/m² at 2.00m depth and to 150 kN/m² 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 not noted during boring. Groundwater was noted during the return monitoring visits to the installation within borehole DIS1 at between 2.05m and 3.10m 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. Nevertheless, 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 Weathered London 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 Weathered London CLAY 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 three of the seven boreholes to a maximum depth of at least 1.00m 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. The minimum foundation depths discussed above may, therefore, need to be deepened in line with the NHBC recommendations.
- 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	15-20
Bored	10.00	0.45	25-30
Bored	10.00	0.60	35-40
Bored	15.00	0.30	25-30
Bored	15.00	0.45	40-45
Bored	15.00	0.60	60-70

- 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 Weathered London Clay to prevent 'heave' 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".
- 8.23 However, owing to the presence of selenite crystals within the underlying London Clay we would recommend that this is raised to at least Class DS-2 and that sulphate resisting cement is considered for any concrete mix design in contact with the clay.

SOAKAWAYS

- 8.24 One Falling Head Permeability test (SA1) was undertaken in the standpipe installed in borehole DIS1.
- 8.25 Minimal soakage was observed during the test, as would be expected in the relatively impermeable Clay underlying the site. Based on these initial results, conventional shallow soakaways are unlikely to be successful at this site.

LANDFILL GAS

- 8.26 During the three-return gas/groundwater monitoring visits to the installation fitted within borehole DIS1, no Methane was detected. Carbon Dioxide was detected on all three visits at a maximum concentration of 0.9%, however, no flow was recorded. Oxygen concentrations ranged between 18.4% and 18.6%. The atmospheric pressure was recorded on each visit and ranged between 1004 mb to 1030mb.
- 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 CO₂.
- 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 CO₂ level recorded in borehole DIS5,

$$Q_{hg} = 0.1(0.9/100) = 0.0009 \text{ l/h}$$

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 = 0.0009 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 three shallow samples of MADE GROUND and one shallow sample of natural ground, generally from areas of proposed gardens or landscaping, 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, depend on the land usage, and for this site will include soil ingestion, inhalation of vapour and dust, run-off, leaching and direct contact.

8.33 Receptors

From the results of the Desk Study and the current proposed development for the construction of a three-storey residential property with communal garden areas, the following potential receptors have been identified.

- Workers on the site likely to come into contact with the soils.
- Users of property and gardens.
- Any proposed additional vegetation.
- Neighbours
- Controlled waters
- Infrastructure
- Structures

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 with 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 The sample from borehole DIS5 at a depth of 0.15m below existing ground level had an elevated level of Arsenic exceeding the CLEA Soil Guideline Values (SGV) for **Residential with consumption of home-grown fruit and vegetables** usage.
- 8.44 The samples from boreholes DIS3, DIS4, DIS5 & DIS6 at depths of 0.15m, 0.50m, 0.15m & 1.00m below existing ground level respectively, had elevated levels of the determinands indicated in the table below, when compared against the ATRISK Contaminated Land Screening Values (SSV) for **Residential with consumption of home-grown fruit and vegetables** usage. In addition, the sample from 0.15m in borehole DIS5 also had an elevated level of Lead.

Determinand		Boreholes with Elevated levels			
		DIS3	DIS4	DIS5	DIS6
Arsenic				X	
Lead				X	
PAH	Benzo(a)anthracene	X	X		X
	Chrysene	X	X		X
	Benzo(b) fluoranthene	X	X		X
	Benzo(k)fluoranthene	X	X	X	X
	Benzo(a)pyrene	X	X	X	X
	Indeno(1,2,3-cd)pyrene	X	X		X
	Dibenzo(a,h)anthracene	X	X	X	X

- 8.45 No Asbestos was identified in the four samples tested.

8.46 Discussion on Remedial Measures

Elevated levels of PAH and Lead are not unusual in MADE GROUND of unknown origin.

Residual lead in soil contributes to lead exposure in urban areas. It is generally thought that the more polluted an area is with various contaminants, the more likely it is to contain lead. There are several other reasons for lead contamination in soil, it may be caused by broken-down lead paint, residues from lead-containing gasoline, used engine oil, tyre weights, or pesticides used in the past, contaminated landfills, or from nearby industries such as foundries or smelters. Although leaded soil is less of a problem in countries that no longer have leaded petrol, it remains prevalent, raising concerns about the safety of 'urban agriculture', eating food grown in contaminated soil can present a lead hazard. Lead from the atmosphere or soil can end up in groundwater and surface water.

*Lead enters the body primarily through inhalation and ingestion. Adults are mainly exposed to lead by breathing in lead-containing **dust** and fumes at work, or from hobbies that involve lead.*

Polycyclic Aromatic Hydrocarbons (PAH's) are a group of approximately 10,000 compounds. Most PAH's in the environment arise from combustion processes including motor vehicles, coking plants and incomplete burning of carbon-containing materials like oil, wood, garbage or coal. Many useful products such as mothballs, blacktop, and creosote wood preservatives contain PAH's. They are also found at low concentrations in some special-purpose skin creams and anti-dandruff shampoos that contain coal tars.

Fires can also form fine PAH particles; they bind to ash particles and can move long distances through the air. Some PAH's can dissolve in water and PAH's can enter groundwater from ash, tar, or creosote that is improperly disposed in landfills.

Most people are exposed to PAHs when they breathe smoke, auto emissions or industrial exhausts, eat charcoal-broiled foods, or touch contaminated material to allow PAH to be absorbed through skin.

The above noted results are not considered to be detrimental to the current development proposed at this site provided the following actions are taken into consideration.

Although the site is not located near to any potential groundwater or surface water receptors and is not considered to pose a significant risk to any particularly sensitive aqueous receptors, particular care should be taken in the management of any superficial 'perched' groundwater that may be encountered during excavation works.

No remedial measures would be required for MADE GROUND beneath the new building or associated hardstanding. However, the elevated levels of Arsenic, Lead and PAH encountered within the MADE GROUND would be relevant to proposed gardens or 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 300mm, and replacement with an orange coloured separator membrane and a minimum depth of 300mm of "clean" Topsoil.

Any stockpile of either clean material or excavated MADE GROUND should be dampened frequently and dust prevention measures implemented as necessary during the works.

Site entrances and crossovers to public roads and footpaths, should be cleaned and swept daily to prevent highway / footpath contamination from soil or debris.

"Clean" material should be placed onto a membrane to prevent any cross contamination from existing ground.

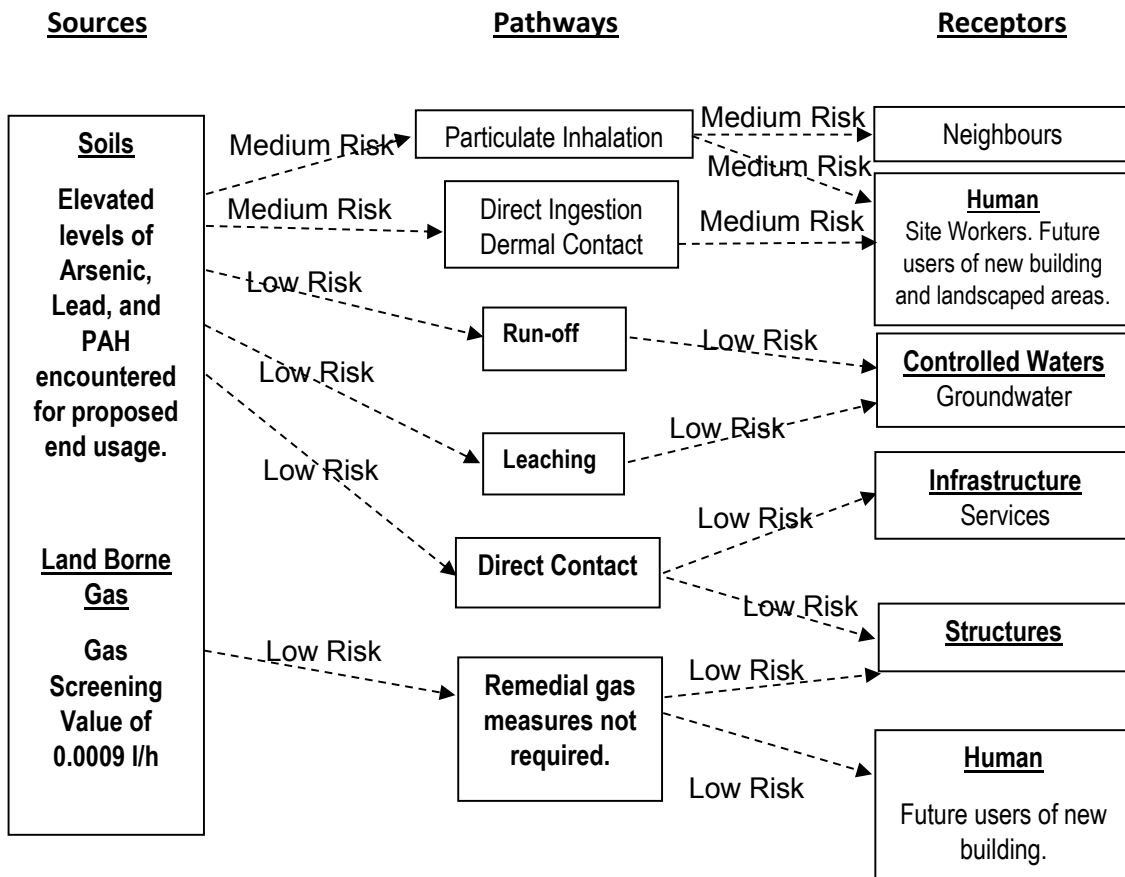
The presence of elevated levels of Arsenic, Lead and PAH in the MADE GROUND should be noted by Groundworkers and included within the main contractors site method statements and risk assessments.

We would recommend that additional Health and Safety requirements are taken with regard to ground workers at this site. Precautions should include, but not be restricted to, the use of PPE equipment such as gloves, overalls and other protective clothing as necessary and access to “hand-wash” facilities should be available during construction of the proposed development.

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.

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 and recommendations 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 are appended to this report.
- 8.51 The results tend to indicate that the material tested is likely to be classified as 'Inert'.
- 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.



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Distribution :

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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.

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

230074002_1_1

Customer Reference:

RML 7119

National Grid Reference:

510290, 190290

Slice:

A

Site Area (Ha):

0.14

Search Buffer (m):

1000

Site Details:

53

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Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents					
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 1		2		1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1		Yes		
Pollution Incidents to Controlled Waters	pg 1		7	4	18
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 6		1		2
Water Abstractions	pg 6				(*4)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 7	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 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones	pg 8	2			1
Extreme Flooding from Rivers or Sea without Defences	pg 8		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 8		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 8		3	6	33

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					
Potentially Infilled Land (Non-Water)	pg 14				1
Potentially Infilled Land (Water)	pg 14			1	3
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					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 15	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 15				Yes
BGS Recorded Mineral Sites	pg 15				4
BGS Urban Soil Chemistry	pg 16		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 18	Yes			
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities	pg 18				4
Natural Cavities	pg 19				1
Non Coal Mining Areas of Great Britain	pg 19	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 19	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 19	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 19	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 19	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 21	1	29	10	66
Fuel Station Entries	pg 29		1		2
Points of Interest - Commercial Services	pg 30		12	4	14
Points of Interest - Education and Health	pg 32			2	
Points of Interest - Manufacturing and Production	pg 32		2	2	6
Points of Interest - Public Infrastructure	pg 33		5		8
Points of Interest - Recreational and Environmental	pg 34				5
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 36				1
Areas of Adopted Green Belt	pg 36		2		2
Areas of Unadopted Green Belt	pg 36		2		1
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves	pg 36				1
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 36	1			
Ramsar Sites					
Sites of Special Scientific Interest	pg 36				1
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Local Authority Pollution Prevention and Controls Name: Tesco Northwood Hills Service Station Location: Joel Street, Northwood, Middlesex, Ha5 2pa Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: EPA/SS/1/019/09/1998 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Located by supplier to within 10m	A13SW (S)	169	2	510250 190106
2	Local Authority Pollution Prevention and Controls Name: Gem Dry Cleaners Location: 12 The Broadway, Joel Street, Northwood Hill, Ha6 1pf Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: EPA/DC/037 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	A13NW (N)	169	2	510239 190484
3	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	A17SW (NW)	871	2	509541 190805
	Nearest Surface Water Feature	A13NW (NW)	206	-	510069 190386
4	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 October 1994 Incident Reference: N1940338 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	A13NE (E)	93	3	510400 190300
5	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Tolcarne Drive Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: Not Supplied Incident Reference: N1900018 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)	114	3	510200 190200
6	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: 23rd July 1993 Incident Reference: N1930253 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	A13NE (E)	192	3	510500 190300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Tolcarne Drive Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 10th June 1990 Incident Reference: N1900310 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	206	3	510500 190200
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: PINNER Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 28th April 1994 Incident Reference: N1940159 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	207	3	510500 190195
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: NORTHWOOD HILLS Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 27th October 1994 Incident Reference: N1940360 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	212	3	510505 190195
8	Pollution Incidents to Controlled Waters Property Type: Not Given Location: PINNER Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Not Supplied Incident Date: 14th March 1997 Incident Reference: THN11997031160 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	A13NE (NE)	221	3	510500 190400
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Tolcarne Drive, PINNER Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 12th August 1989 Incident Reference: N1890428 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	A13NE (NE)	268	3	510490 190500
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Tolcarne Drive Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Yes Incident Date: 16th November 1990 Incident Reference: N1900616 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	329	3	510501 190001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: PINNER Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 1st April 1996 Incident Reference: N1960151 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Unknown	A13SW (SW)	394	3	510001 190001
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: PINNER Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Not Supplied Incident Date: 4th September 1998 Incident Reference: THNE1998040380 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	470	3	510600 189900
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Knoll Crescent, NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 3rd March 1993 Incident Reference: N1930076 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	A12NE (NW)	675	3	509650 190600
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Knoll Crescent, NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 24th September 1996 Incident Reference: N1960501 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	A12NW (NW)	721	3	509600 190600
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: High Street, NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 9th January 1997 Incident Reference: THN11997030862 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	A12NW (W)	682	3	509605 190495
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Briarwood, NORTHWOOD HILLS Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 2nd February 1996 Incident Reference: N1960051 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	A12NW (W)	686	3	509600 190495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	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 April 1993 Incident Reference: N1930144 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	A12NW (W)	688	3	509600 190500
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Knoll Crescent Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 4th September 1990 Incident Reference: N1900499 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	A17SE (NW)	762	3	509610 190710
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Knoll Crescent, NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 14th August 1995 Incident Reference: N1950442 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	763	3	509600 190695
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: 1st August 1995 Incident Reference: N1950416 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	A17SW (NW)	765	3	509600 190700
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Manor Cottages Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 10th April 1989 Incident Reference: N1890193 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	A12NW (W)	767	3	509500 190400
17	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: 12th April 1995 Incident Reference: N1950185 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	A12NW (W)	779	3	509505 190495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: PINNER Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 8th July 1993 Incident Reference: N1930241 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	A12NW (W)	783	3	509500 190495
17	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 February 1993 Incident Reference: N1930057 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	A12NW (W)	785	3	509500 190500
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Linslade Close, PINNER Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 9th April 1996 Incident Reference: N1960163 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	821	3	510600 189500
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Knoll Crescent, NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 27th January 1997 Incident Reference: THN11997030957 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	A17SW (NW)	851	3	509500 190695
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lees Avenue, NORTHWOOD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 16th October 1996 Incident Reference: N1960558 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	A17SW (NW)	854	3	509500 190700
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Jubilee Close, PINNER Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 10th September 1997 Incident Reference: THN11997029478 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	892	3	511200 190300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Tolcarne Drive, PINNER Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 6th September 1993 Incident Reference: N1930293 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	A12SW (W)	909	3	509401 190001
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: EASTCOTE VILLAGE Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Confirmed incident Incident Date: 30th April 1999 Incident Reference: THNE1999042828 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A8SE (S)	915	3	510600 189400
23	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, North East Area Incident Date: 18th March 2002 Incident Reference: 64992 Water Impact: Category 2 - Significant Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable Materials And Wastes: Food And Drink	A13SE (E)	234	3	510541 190271
24	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, North East Area Incident Date: 1st March 2012 Incident Reference: 966299 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: Crude Sewage	A17SE (NW)	768	3	509613 190726
25	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, North East Area Incident Date: 18th June 2008 Incident Reference: 597499 Water Impact: Category 3 - Minor Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Other Sewage	A17SW (NW)	779	3	509577 190686
	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	A6NW (W)	1418	3	508900 189900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A6NW (W)	1418	3	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	A6NW (W)	1418	3	508900 189900
	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	(N)	1990	3	510100 192300
	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 (S)	0	4	510286 190294
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (S)	0	4	510286 190294
	Superficial Aquifer Designations No Data Available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	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 (S)	0	3	510286 190294
27	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 (S)	0	3	510286 190294
28	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.	A12SE (W)	546	3	509724 190198
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	213	3	510512 190212
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (E)	247	3	510554 190314
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	213	3	510512 190212
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (E)	247	3	510554 190314
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 213.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	206	5	510069 190386
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 368.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (E)	216	5	510513 190206
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	223	5	510487 190137

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 748.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	280	5	510481 190048
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (W)	312	5	509964 190202
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NE (NE)	361	5	510617 190482
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NE (W)	364	5	509898 190327
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A12SE (W)	416	5	509850 190238
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 324.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A12SE (W)	439	5	509831 190205
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 210.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (SE)	515	5	510581 189831
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	517	5	510348 189751
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 558.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	745	5	509522 190401

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A12SW (W)	760	5	509507 190199
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (NW)	766	5	509952 191017
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (NW)	776	5	509957 191030
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (NW)	781	5	509960 191037
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A12SW (W)	784	5	509490 190155
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 204.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A12SW (W)	820	5	509466 190094
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	833	5	509987 191103
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	857	5	509999 191133
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	875	5	510600 191135

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	877	5	509385 190246
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	878	5	509384 190245
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 193.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	901	5	510729 189471
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 233.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	916	5	510470 191213
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 151.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	926	5	510501 191218
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SE (S)	952	5	510591 189358
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	952	5	510591 189358
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	952	5	509395 189902
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 646.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	953	5	509393 189903

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	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	A8SE (S)	956	5	510591 189353
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 231.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SW)	962	5	509744 189484
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19NW (NE)	967	5	510676 191204
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	969	5	511274 190368
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	971	5	510573 189332
64	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	973	5	511277 190376
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19NW (NE)	978	5	510687 191211
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	985	5	510571 189318
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (S)	985	5	510573 189318

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	986	5	511290 190378
69	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	A12SW (W)	993	5	509274 190188
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 193.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	994	5	509273 190187

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	2	510286 190294
	Local Authority Landfill Coverage Name: London Borough of Harrow - Has supplied landfill data		465	6	510747 190443
71	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A19SE (NE)	931	-	511060 190848
72	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1916	A13NE (E)	285	-	510578 190380
73	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1916	A18NW (N)	746	-	510075 191040
74	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1916	A8SE (S)	893	-	510317 189373
75	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A17NE (NW)	958	-	509865 191188

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thames Group	A13NE (S)	0	1	510286 190294
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: no data Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: no data Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	683	1	510286 191000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: no data Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: no data Nickel: 15 - 30 mg/kg Concentration:	A18NW (N)	732	1	510000 191000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A19NE (NE)	982	1	511000 191000
76	BGS Recorded Mineral Sites Site Name: Pinner Hill Farm Chalk Mine Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 220879 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	A19SE (NE)	846	1	511013 190765
76	BGS Recorded Mineral Sites Site Name: Pinner Chalk Mines Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 106118 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	A19SE (NE)	888	1	511062 190765
76	BGS Recorded Mineral Sites Site Name: Pinner Hill Road Chalk Mine Location: Pinner Green, Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 220876 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	A19SE (NE)	893	1	511060 190778

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	BGS Recorded Mineral Sites Site Name: Pinner Chalk Mine Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 220281 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	A19SE (NE)	937	1	511069 190844
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 510349, 190352 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 15.90 mg/kg Concentration: Cadmium Measured 0.60 mg/kg Concentration: Chromium Measured 85.30 mg/kg Concentration: Lead Measured 138.90 mg/kg Concentration: Nickel Measured 28.60 mg/kg Concentration:	A13NE (NE)	65	1	510349 190352
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 510292, 190771 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 12.10 mg/kg Concentration: Cadmium Measured 0.60 mg/kg Concentration: Chromium Measured 93.10 mg/kg Concentration: Lead Measured 58.40 mg/kg Concentration: Nickel Measured 20.30 mg/kg Concentration:	A18SE (N)	455	1	510292 190771
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 510790, 190267 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 17.40 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 76.60 mg/kg Concentration: Lead Measured 137.20 mg/kg Concentration: Nickel Measured 21.40 mg/kg Concentration:	A14SW (E)	483	1	510790 190267
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 509718, 190267 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 13.00 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 81.60 mg/kg Concentration: Lead Measured 68.40 mg/kg Concentration: Nickel Measured 19.30 mg/kg Concentration:	A12SE (W)	544	1	509718 190267

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: 510246, 189653 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 19.30 mg/kg Concentration: Cadmium Measured 3.80 mg/kg Concentration: Chromium Measured 95.50 mg/kg Concentration: Lead Measured 288.90 mg/kg Concentration: Nickel Measured 30.00 mg/kg Concentration:	A8NW (S)	616	1	510246 189653
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 509721, 190626 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 16.30 mg/kg Concentration: Cadmium Measured 0.40 mg/kg Concentration: Chromium Measured 73.50 mg/kg Concentration: Lead Measured 74.10 mg/kg Concentration: Nickel Measured 17.30 mg/kg Concentration:	A12NE (NW)	624	1	509721 190626
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 510775, 190735 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 18.80 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 102.60 mg/kg Concentration: Lead Measured 103.10 mg/kg Concentration: Nickel Measured 36.80 mg/kg Concentration:	A19SW (NE)	637	1	510775 190735
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 510753, 189694 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 15.30 mg/kg Concentration: Cadmium Measured 0.40 mg/kg Concentration: Chromium Measured 53.80 mg/kg Concentration: Lead Measured 74.70 mg/kg Concentration: Nickel Measured 24.10 mg/kg Concentration:	A9NW (SE)	726	1	510753 189694
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 509722, 189743 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 15.00 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 92.40 mg/kg Concentration: Lead Measured 65.10 mg/kg Concentration: Nickel Measured 25.80 mg/kg Concentration:	A7NE (SW)	773	1	509722 189743

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: 509847, 191198 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 15.10 mg/kg Concentration: Cadmium Measured 0.70 mg/kg Concentration: Chromium Measured 74.60 mg/kg Concentration: Lead Measured 203.80 mg/kg Concentration: Nickel Measured 23.50 mg/kg Concentration:	A17NE (NW)	974	1	509847 191198
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 510239, 191291 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 14.80 mg/kg Concentration: Cadmium Measured 0.60 mg/kg Concentration: Chromium Measured 86.30 mg/kg Concentration: Lead Measured 266.00 mg/kg Concentration: Nickel Measured 27.60 mg/kg Concentration:	A18NW (N)	974	1	510239 191291
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7209 Arsenic Minimum 1.00 mg/kg Concentration: Arsenic Average 17.00 mg/kg Concentration: Arsenic Maximum 161.00 mg/kg Concentration: Cadmium Minimum 0.10 mg/kg Concentration: Cadmium Average 0.90 mg/kg Concentration: Cadmium Maximum 165.20 mg/kg Concentration: Chromium Minimum 13.00 mg/kg Concentration: Chromium Average 79.00 mg/kg Concentration: Chromium Maximum 2094.00 mg/kg Concentration: Lead Minimum 11.00 mg/kg Concentration: Lead Average 280.00 mg/kg Concentration: Lead Maximum 10000.00 mg/kg Concentration: Nickel Minimum 2.00 mg/kg Concentration: Nickel Average 28.00 mg/kg Concentration: Nickel Maximum 506.00 mg/kg Concentration:	A13NE (S)	0	1	510286 190294
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Man-Made Mining Cavities Easting: 511000 Northing: 190800 Distance: 855 Quadrant Reference: A19 Quadrant Reference: SE Bearing Ref: NE Cavity Type: Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A19SE (NE)	855	7	511000 190800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 511190 Northing: 190570 Distance: 926 Quadrant Reference: A14 Quadrant Reference: NE Bearing Ref: E Cavity Type: Pillar And Stall Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Chalk Group Superficial Geology No Details Detail:	A14NE (E)	926	7	511190 190570
	Man-Made Mining Cavities Easting: 511100 Northing: 190800 Distance: 939 Quadrant Reference: A19 Quadrant Reference: SE Bearing Ref: NE Cavity Type: Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A19SE (NE)	939	7	511100 190800
	Man-Made Mining Cavities Easting: 511220 Northing: 190600 Distance: 964 Quadrant Reference: A14 Quadrant Reference: NE Bearing Ref: E Cavity Type: Shaft Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Chalk Group Superficial Geology No Details Detail:	A14NE (E)	964	7	511220 190600
	Natural Cavities Easting: 511220 Northing: 190630 Distance: 974 Quadrant Reference: A19 Quadrant Reference: SE Bearing Ref: E Cavity Type: Vadose Cave Solid Geology Detail: Chalk Group, Lambeth Group, London Clay Formation Superficial Geology No Details Detail:	A19SE (E)	974	7	511220 190630
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	510286 190294
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	510286 190294
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	510286 190294
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	510286 190294
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	510286 190294
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	111	1	510199 190204
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	510286 190294
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	510286 190294

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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 (S)	0	1	510286 190294
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (S)	0	1	510286 190294

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	Contemporary Trade Directory Entries Name: Waukesha Bearings Location: 53-55, The Broadway, Joel Street, Northwood, Middlesex, HA6 1NZ Classification: Bearing Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	0	-	510267 190305
79	Contemporary Trade Directory Entries Name: Admarc Printing Services Location: 4, Ferndown, Northwood, Middlesex, HA6 1PQ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	52	-	510272 190368
79	Contemporary Trade Directory Entries Name: Gospel Studios Location: 33, The Broadway, Joel Street, Northwood, Middlesex, HA6 1NZ Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	52	-	510272 190368
79	Contemporary Trade Directory Entries Name: Nik Hardware Ltd Location: 25, The Broadway, Joel Street, Northwood, Middlesex, HA6 1NU Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	93	-	510282 190408
79	Contemporary Trade Directory Entries Name: Kenton Car Centre Location: 36, Oakdale Avenue, Northwood, Middlesex, HA6 1PG Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	97	-	510283 190413
80	Contemporary Trade Directory Entries Name: Printron Location: 80, Joel Street, Northwood, Middlesex, HA6 1LL Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	70	-	510210 190248
81	Contemporary Trade Directory Entries Name: Ferndown Motor Service Location: 14-16, Ryefield Crescent, Northwood, HA6 1LT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	81	-	510304 190185
81	Contemporary Trade Directory Entries Name: System Seal Location: Unit 18, Ryefield Crescent, Northwood, Middlesex, HA6 1LT Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13SE (SE)	95	-	510349 190182
82	Contemporary Trade Directory Entries Name: Kast Services Location: 28, Ryefield Crescent, Northwood, HA6 1LT Classification: Painting & Decorating Supplies Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	104	-	510359 190177
82	Contemporary Trade Directory Entries Name: T C Engineering Location: 22-28, Ryefield Crescent, Northwood, Middlesex, HA6 1LT Classification: Sheet Metal Work Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	104	-	510359 190177
82	Contemporary Trade Directory Entries Name: Lockwood Audio Location: 24-28, Ryefield Crescent, Northwood, Middlesex, HA6 1LT Classification: Electrical goods - servicing & repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	104	-	510359 190177
83	Contemporary Trade Directory Entries Name: The Service Centre Location: 74, Joel Street, Northwood, Middlesex, HA6 1LL Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	121	-	510209 190185

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	Contemporary Trade Directory Entries Name: Dana Glacier Vandervell Location: Argyle Ho, Joel St, Northwood, Middlesex, HA6 1NW Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	127	-	510208 190179
83	Contemporary Trade Directory Entries Name: Unique Dry Cleaners Location: 82, Joel Street, Northwood, HA6 1LL Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	142	-	510207 190162
83	Contemporary Trade Directory Entries Name: Crease Busters Location: 82, Joel Street, Northwood, Middlesex, HA6 1LL Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	142	-	510207 190163
83	Contemporary Trade Directory Entries Name: Dana Glacier Vandervell Ltd Location: Argyle Ho, Joel St, Northwood, Middlesex, HA6 1LN Classification: Bearing Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	157	-	510204 190146
84	Contemporary Trade Directory Entries Name: Northwood Hills Tyre & Battery Co Ltd Location: Kingdom Hall, Oakdale Avenue, Northwood, Middlesex, HA6 1PG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	126	-	510309 190439
84	Contemporary Trade Directory Entries Name: Autocentre Northwood Audi Specialist Location: Pinner Road, Northwood, Middlesex, HA6 1DD Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NE (N)	146	-	510303 190460
84	Contemporary Trade Directory Entries Name: Northwood Commercials Location: Pinner Road, Northwood, Middlesex, HA6 1DD Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NE (N)	147	-	510304 190461
84	Contemporary Trade Directory Entries Name: Northwood Hills Service Station Ltd Location: 105-107, Pinner Road, Northwood, Middlesex, HA6 1DD Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	147	-	510303 190461
84	Contemporary Trade Directory Entries Name: Northwood Hills M O T & Service Location: 105-107, Pinner Road, Northwood, Middlesex, HA6 1DD Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	147	-	510304 190461
85	Contemporary Trade Directory Entries Name: Esso Location: Northwood Hills Service Station, Joel Street, Northwood, HA5 2PA Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (S)	154	-	510258 190119
85	Contemporary Trade Directory Entries Name: Esso Location: Joel Street, Pinner, HA5 2PA Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	161	-	510258 190112
85	Contemporary Trade Directory Entries Name: Tesco Petrol Station Location: Joel Street, Pinner, HA5 2PA Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (S)	161	-	510258 190112

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	Contemporary Trade Directory Entries Name: Tolcarne Service Station Location: Joel Street, Pinner, HA5 2PA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	161	-	510258 190112
85	Contemporary Trade Directory Entries Name: Tesco Petrol Filling Station Location: Joel St, Pinner, Middlesex, HA5 2PA Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (S)	169	-	510244 190108
86	Contemporary Trade Directory Entries Name: Northwood Hills Location: 16, The Broadway, Joel Street, Northwood, Middlesex, HA6 1PF Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (N)	160	-	510240 190476
86	Contemporary Trade Directory Entries Name: Gem Location: 12, The Broadway, Joel Street, Northwood, Middlesex, HA6 1PF Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	169	-	510239 190484
86	Contemporary Trade Directory Entries Name: Ultimate T Ltd Location: 10, The Broadway, Joel Street, Northwood, Middlesex, HA6 1PF Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	171	-	510235 190486
87	Contemporary Trade Directory Entries Name: C T Taylor & Co Location: 4, Colchester Road, Northwood, Middlesex, HA6 1LX Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	194	-	510163 190128
88	Contemporary Trade Directory Entries Name: Optimum Contact Location: 166, Northwood Way, Northwood, Middlesex, HA6 1RB Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	252	-	510234 190568
88	Contemporary Trade Directory Entries Name: Arthur E Renow Location: 162, Northwood Way, Northwood, Middlesex, HA6 1RB Classification: Mirrors & Decorative Glass Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	268	-	510231 190584
89	Contemporary Trade Directory Entries Name: Bugz Pest Control Location: 45, Waller Drive, Northwood, Middlesex, HA6 1DG Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	290	-	510022 190479
90	Contemporary Trade Directory Entries Name: Dean Office Ltd Location: 49, Highland Road, Northwood, Middlesex, HA6 1JR Classification: Office Furniture & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	324	-	509995 190113
91	Contemporary Trade Directory Entries Name: Nihad A Rawi Ltd Location: 4, Woodford Crescent, Pinner, HA5 3TX Classification: Distribution Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	325	-	510590 190109
92	Contemporary Trade Directory Entries Name: Board Of Ironing Location: 12, Robina Close, Northwood, Middlesex, HA6 1PS Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	361	-	509972 190531

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	Contemporary Trade Directory Entries Name: Grant & Stone Ltd Location: Joel Street, PINNER, Middlesex, HA5 2PB Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	422	-	510249 189848
94	Contemporary Trade Directory Entries Name: Northwood & Pinner Community Hospital Location: Pinner Road, Northwood, Middlesex, HA6 1DE Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	450	-	510003 190685
94	Contemporary Trade Directory Entries Name: Northwood & Pinner Community Hospital Location: Pinner Road, Northwood, Middlesex, HA6 1DE Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	450	-	510003 190685
95	Contemporary Trade Directory Entries Name: Sentryguard Ltd Location: 76, Lyndhurst Avenue, Pinner, Middlesex, HA5 3XA Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	495	-	510742 190530
96	Contemporary Trade Directory Entries Name: Diamond Shine Oven Cleaning Co Location: 24, Alandale Drive, Pinner, Middlesex, HA5 3UY Classification: Oven cleaning Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	510	-	510710 190613
97	Contemporary Trade Directory Entries Name: P M Cleaning Location: 79, Potter Street, Northwood, Middlesex, HA6 1QH Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	521	-	510544 190773
98	Contemporary Trade Directory Entries Name: A Lawrance Location: 46, Acre Way, Northwood, Middlesex, HA6 1SX Classification: Cabinet Makers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	563	-	510024 190827
99	Contemporary Trade Directory Entries Name: Diamond Home Support Location: 176, Joel Street, Pinner, HA5 2PE Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	580	-	510224 189692
99	Contemporary Trade Directory Entries Name: Diamond Home Support Location: 176, Joel Street, Pinner, Middlesex, HA5 2PE Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	583	-	510221 189689
100	Contemporary Trade Directory Entries Name: Schoenitz Dental Laboratory Uk Ltd Location: Clearview House, 201, Pinner Road, Northwood, Middlesex, HA6 1BX Classification: Medical & Dental Laboratories Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	598	-	509784 190675
100	Contemporary Trade Directory Entries Name: Northolt Tyres Ltd Location: 106, Pinner Road, Northwood, Middlesex, HA6 1BS Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	600	-	509811 190712
100	Contemporary Trade Directory Entries Name: Northolt Tyre Service Ltd Location: 106, Pinner Road, Northwood, Middlesex, HA6 1BS Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	600	-	509811 190712

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	Contemporary Trade Directory Entries Name: Northolt Tyre Service Ltd Location: 106, Pinner Road, Northwood, Middlesex, HA6 1BS Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	600	-	509811 190712
100	Contemporary Trade Directory Entries Name: Northolt Tyre Service Ltd Location: 106, Pinner Road, Northwood, Middlesex, HA6 1BS Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	602	-	509815 190719
101	Contemporary Trade Directory Entries Name: Correct Impression Location: 30, Middleton Drive, Pinner, HA5 2PG Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	664	-	510447 189617
102	Contemporary Trade Directory Entries Name: Epic Image Ltd Location: 203, Tolcarne Drive, Pinner, Middlesex, HA5 2DN Classification: Greeting Card Publishers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	671	-	510866 189898
103	Contemporary Trade Directory Entries Name: The Jay White Company Appliance Repairs Location: 130c, Pinner Road, Northwood, Middlesex, HA6 1BP Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	676	-	509735 190740
103	Contemporary Trade Directory Entries Name: Hawkins Of Northwood Location: 136, Pinner Road, Northwood, HA6 1BP Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	694	-	509716 190745
103	Contemporary Trade Directory Entries Name: Howard Motor Co Location: 136, Pinner Road, Northwood, HA6 1BP Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	694	-	509716 190745
103	Contemporary Trade Directory Entries Name: Northwood Cars Location: 136, Pinner Road, NORTHWOOD, Middlesex, HA6 1BP Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	694	-	509717 190746
103	Contemporary Trade Directory Entries Name: Bedford & Packington Co Location: 132a, Pinner Road, Northwood, HA6 1BP Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	695	-	509731 190765
103	Contemporary Trade Directory Entries Name: Bedford & Packington Location: 132a, Pinner Road, Northwood, Middlesex, HA6 1BP Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	695	-	509732 190766
103	Contemporary Trade Directory Entries Name: Zeppelin Trading Co Ltd Location: 2-4, High Street, Northwood, Middlesex, HA6 1BN Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	736	-	509704 190797
103	Contemporary Trade Directory Entries Name: Zeppelin Trading Co Ltd Location: 2-4, High Street, Northwood, Middlesex, HA6 1BN Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	736	-	509704 190797

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	Contemporary Trade Directory Entries Name: Set Two Interiors Uk Location: 5, Hillside Gardens, Northwood, Middlesex, HA6 1RN Classification: Sawmills & Wood Shavings Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	682	-	510506 190963
105	Contemporary Trade Directory Entries Name: Autocentre Northwood Ltd Location: Pinner Road, Northwood, Middlesex, HA6 1DD Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	685	-	509703 190712
106	Contemporary Trade Directory Entries Name: Qws (Uk) Ltd Location: 67, Stanley Road, Northwood, Middlesex, HA6 1RJ Classification: Water Softeners Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	691	-	510644 190911
107	Contemporary Trade Directory Entries Name: Amyoil Location: 30, Greenway, PINNER, Middlesex, HA5 3SP Classification: Oil Companies Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	698	-	510985 190459
108	Contemporary Trade Directory Entries Name: Manor Office Cleaning Company Location: 8, Manor Cottages, Northwood, Middlesex, HA6 1HS Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	721	-	509619 190640
109	Contemporary Trade Directory Entries Name: Anna'S Touch Of Beauty Location: 20b, High Street, Northwood, HA6 1BN Classification: Electrolysis Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	742	-	509745 190849
109	Contemporary Trade Directory Entries Name: Aquaswim Services Ltd Location: 8-10, High Street, Northwood, Middlesex, HA6 1BN Classification: Swimming Pool Contractors, Repairers & Service Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	746	-	509716 190825
109	Contemporary Trade Directory Entries Name: Oasis Pool Co Ltd Location: 8-10, High Street, Northwood, Middlesex, HA6 1BN Classification: Swimming Pool Contractors, Repairers & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	746	-	509716 190825
109	Contemporary Trade Directory Entries Name: Northwood Launderette Location: 12, High Street, Northwood, Middlesex, HA6 1BN Classification: Laundries & Launderettes Status: Active Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	747	-	509719 190830
109	Contemporary Trade Directory Entries Name: Northwood Light Engineering Co Ltd Location: A, 128 Hallowell Rd, Northwood, Middlesex, HA6 1DU Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	749	-	509722 190836
110	Contemporary Trade Directory Entries Name: Ace-Pro Location: 237, Tolcarne Drive, Pinner, Middlesex, HA5 2DW Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	742	-	510890 189809
111	Contemporary Trade Directory Entries Name: The Board Of Ironing Location: 28, High Street, Northwood, Middlesex, HA6 1BN Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	770	-	509737 190880

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	Contemporary Trade Directory Entries Name: The Board Of Ironing Location: 28, High Street, Northwood, Middlesex, HA6 1BN Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	770	-	509737 190880
111	Contemporary Trade Directory Entries Name: Purrfect Fires Location: 32, High Street, Northwood, Middlesex, HA6 1BN Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	776	-	509742 190893
111	Contemporary Trade Directory Entries Name: Tennis Tech Ltd Location: 36, High Street, Northwood, Middlesex, HA6 1BN Classification: Sports Equipment Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	782	-	509749 190907
111	Contemporary Trade Directory Entries Name: British Bottled Water Cooler Association Location: 40a, High Street, Northwood, Middlesex, HA6 1BN Classification: Water Coolers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	788	-	509756 190920
111	Contemporary Trade Directory Entries Name: British Bottled Water Cooler Association Location: A, 40, High Street, Northwood, Middlesex, HA6 1BN Classification: Water Coolers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	788	-	509756 190920
112	Contemporary Trade Directory Entries Name: Gables Textiles Ltd Location: 64, Hillside Road, Northwood, HA6 1QB Classification: Textile Manufacturing Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (NE)	771	-	510603 191022
113	Contemporary Trade Directory Entries Name: A D B Location: 23, Abbey Close, Pinner, Middlesex, HA5 2AW Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	778	-	511014 189946
114	Contemporary Trade Directory Entries Name: Bespoke Shutters Ltd Location: 70 Lawson Gdns, Pinner, Middlesex, HA5 2EB Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	788	-	510870 189716
115	Contemporary Trade Directory Entries Name: Nano Vibronix Location: 14, Chamberlain Lane, Pinner, Middlesex, HA5 2PH Classification: Medical Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	797	-	510482 189488
116	Contemporary Trade Directory Entries Name: Gleaming Marvellous Location: 11, Emmanuel Road, Northwood, Middlesex, HA6 1TB Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	801	-	509995 191072
116	Contemporary Trade Directory Entries Name: Gleaming Marvellous Cleaning Services Location: 11, Emmanuel Road, Northwood, Middlesex, HA6 1TB Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	801	-	509995 191072
117	Contemporary Trade Directory Entries Name: Vmc Fixing Location: 27, Rickmansworth Road, Pinner, Middlesex, HA5 3TE Classification: Window Frames - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	809	-	511090 190067

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	Contemporary Trade Directory Entries Name: Pneumatic Services (London) Ltd Location: 64, High Street, Northwood, Middlesex, HA6 1BL Classification: Pneumatic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	829	-	509790 190998
118	Contemporary Trade Directory Entries Name: P S London Ltd Location: 64, High Street, Northwood, Middlesex, HA6 1BL Classification: Pneumatic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	829	-	509790 190998
118	Contemporary Trade Directory Entries Name: G & D Higgins Mechanical Services Ltd Location: 60-62, High Street, Northwood, HA6 1BL Classification: Mechanical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A17NE (NW)	833	-	509778 190994
119	Contemporary Trade Directory Entries Name: Inxpress Location: 5, The Drive, Northwood, HA6 1HQ Classification: Freight Forwarders Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	845	-	509527 190732
120	Contemporary Trade Directory Entries Name: The Nuttery Location: High Barn, Pinner Hill Road, Pinner, Middlesex, HA5 3YQ Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	845	-	511018 190756
120	Contemporary Trade Directory Entries Name: Wdp Communications Ltd Location: The Folly, Pinner Hill Farm, Pinner Hill Road, Pinner, Middlesex, HA5 3YQ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	864	-	511032 190769
121	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	A17SW (NW)	871	-	509541 190805
122	Contemporary Trade Directory Entries Name: Sunflower Wheelchair Supplies Location: 27, Hillside Road, Northwood, Middlesex, HA6 1PY Classification: Disability Equipment - Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	889	-	510376 191199
123	Contemporary Trade Directory Entries Name: Wireless Service Management Location: 55, Northwood Way, Northwood, HA6 1AU Classification: Computer Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	923	-	510177 191236
124	Contemporary Trade Directory Entries Name: Middlesex Cars Location: 74a, Pinner Green, Pinner, HA5 2AB Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	961	-	511237 190029
124	Contemporary Trade Directory Entries Name: Pinner Green Auto Services Ltd Location: 74-76, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	961	-	511237 190029
124	Contemporary Trade Directory Entries Name: Fisher Autos Location: 74-76, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	961	-	511237 190029

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	Contemporary Trade Directory Entries Name: Village Cars Location: 74-76, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	961	-	511237 190029
124	Contemporary Trade Directory Entries Name: Parkside Carriages Ltd Location: 74-76, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	961	-	511237 190029
124	Contemporary Trade Directory Entries Name: Drive Easy Location: 74-76, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14SE (E)	961	-	511237 190029
124	Contemporary Trade Directory Entries Name: Premier Service Location: 74-76, Pinner Green, Pinner, HA5 2AB Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	961	-	511236 190029
124	Contemporary Trade Directory Entries Name: Pinner Green Mot & Service Centre Location: 74-76 Pinner Green, Rear Of Middlesex Cars, Pinner, Middlesex, HA5 2AB Classification: Mot Testing Centres Status: Active Positional Accuracy: Manually positioned within the geographical locality	A14SE (E)	994	-	511269 190024
124	Contemporary Trade Directory Entries Name: Kaylex Electrical Location: 58-60, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	999	-	511274 190023
125	Contemporary Trade Directory Entries Name: James Kent Cleaning Location: 164, Fore Street, Pinner, Middlesex, HA5 2NE Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (S)	972	-	509924 189372
126	Contemporary Trade Directory Entries Name: Clean Getaway Location: 17, Orchard Rise, Pinner, Middlesex, HA5 2NS Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	972	-	509641 189548
127	Contemporary Trade Directory Entries Name: Junkbusters Ltd Location: 3, Townsend Way, Northwood, Middlesex, HA6 1TG Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (N)	980	-	509916 191234
128	Contemporary Trade Directory Entries Name: Mavic Ltd Location: 38, Latimer Gardens, Pinner, Middlesex, HA5 3RA Classification: Linen Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	1000	-	511261 190592
129	Fuel Station Entries Name: Northwood Express Location: Joel Street , Northwood Hills , Pinner, Outer London, HA5 2PA Brand: ESSO Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A13SW (S)	169	-	510244 190108

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Fuel Station Entries Name: Northwood Commercials Location: Pinner Road , , Northwood, Outer London, HA6 1DD Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Approximate location provided by supplier	A17SE (NW)	640	-	509758 190710
131	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	A17SW (NW)	872	-	509540 190804
132	Points of Interest - Commercial Services Name: Ferndown Motor Service Location: 14-16 Ryefield Crescent, Northwood, HA6 1LT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	81	8	510304 190185
132	Points of Interest - Commercial Services Name: Lockwood Audio Location: 28 Ryefield Crescent, Northwood, HA6 1LT Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SE (SE)	104	8	510359 190177
132	Points of Interest - Commercial Services Name: Ferndown Motor Service Location: 14-16 Ryefield Crescent, Northwood, HA6 1LT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	104	8	510359 190177
132	Points of Interest - Commercial Services Name: T C Engineering Location: 22-28 Ryefield Crescent, Northwood, HA6 1LT Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SE (SE)	104	8	510359 190177
132	Points of Interest - Commercial Services Name: T C Engineering Location: 28 Ryefield Crescent, Northwood, HA6 1LT Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SE (SE)	104	8	510359 190177
133	Points of Interest - Commercial Services Name: Northwood Hills Tyre & Battery Co Ltd Location: Kingdom Hall, Oakdale Avenue, Northwood, HA6 1PG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	126	8	510309 190439
133	Points of Interest - Commercial Services Name: Northwood Hills M O T & Service Location: 105-107 Pinner Road, Northwood, HA6 1DD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	146	8	510303 190460
133	Points of Interest - Commercial Services Name: Northwood Hills Service Station Ltd Location: 105-107 Pinner Road, Northwood, HA6 1DD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	146	8	510303 190460
133	Points of Interest - Commercial Services Name: Northwood Hills Service Station Location: 105-107 Pinner Road, Northwood, HA6 1DD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	147	8	510304 190461

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	Points of Interest - Commercial Services Name: Northwood Hills Service Station Location: 105-107 Pinner Road, Northwood, HA6 1DD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	147	8	510304 190461
133	Points of Interest - Commercial Services Name: Northwood Hills Service Station Location: 105-107 Pinner Road, Northwood, HA6 1DD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	147	8	510304 190461
133	Points of Interest - Commercial Services Name: Northwood Hills Service Station Location: 105-107 Pinner Road, Northwood, HA6 1DD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	147	8	510304 190461
134	Points of Interest - Commercial Services Name: Bugz Pest Control Location: 45 Waller Drive, Northwood, HA6 1DG Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13NW (NW)	290	8	510022 190479
135	Points of Interest - Commercial Services Name: Nihad a Rawi Ltd Location: 4 Woodford Crescent, Pinner, HA5 3TX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SE (SE)	325	8	510590 190109
136	Points of Interest - Commercial Services Name: Avonrand Ltd Location: 165 Pinner Road, Northwood, HA6 1DB Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A12NE (NW)	437	8	509944 190617
136	Points of Interest - Commercial Services Name: Avonrand Ltd Location: 165 Pinner Road, Northwood, HA6 1DB Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A12NE (NW)	437	8	509944 190617
137	Points of Interest - Commercial Services Name: Hawkins of Northwood Location: 136 Pinner Road, Northwood, HA6 1BP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	694	8	509717 190746
137	Points of Interest - Commercial Services Name: Howard Motor Co Location: 136 Pinner Road, Northwood, HA6 1BP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	694	8	509717 190746
137	Points of Interest - Commercial Services Name: Howard Motor Co Location: 136 Pinner Road, Northwood, HA6 1BP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	694	8	509716 190745
137	Points of Interest - Commercial Services Name: Hawkins of Northwood Location: 136 Pinner Road, Northwood, HA6 1BP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	694	8	509716 190745
137	Points of Interest - Commercial Services Name: Zeppelin Trading Co Ltd Location: 2-4 High Street, Northwood, HA6 1BN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	736	8	509704 190797

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	Points of Interest - Commercial Services Name: Zeppelin Trading Co Ltd Location: 2-4 High Street, Northwood, HA6 1BN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	736	8	509704 190796
138	Points of Interest - Commercial Services Name: Prestige Car Diagnostics Location: 26 Lees Avenue, Northwood, HA6 1HT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	729	8	509558 190502
139	Points of Interest - Commercial Services Name: Inxpress Location: 5 The Drive, Northwood, HA6 1HQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17SW (NW)	845	8	509527 190732
140	Points of Interest - Commercial Services Name: Pinner Green MOT & Service Centre Location: 74-76 Pinner Green, Pinner, HA5 2AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	961	8	511236 190029
140	Points of Interest - Commercial Services Name: Pinner Green Auto Services Ltd Location: 74-76 Pinner Green, Pinner, HA5 2AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	961	8	511236 190029
140	Points of Interest - Commercial Services Name: Fisher Autos Location: 74-76 Pinner Green, Pinner, HA5 2AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	961	8	511237 190029
140	Points of Interest - Commercial Services Name: Drive Easy Location: 74-76 Pinner Green, Pinner, HA5 2AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	961	8	511237 190029
140	Points of Interest - Commercial Services Name: Fisher Autos Location: 74-76 Pinner Green, Pinner, HA5 2AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	961	8	511236 190029
140	Points of Interest - Commercial Services Name: Premier Service Location: 74-76 Pinner Green, Pinner, HA5 2AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	961	8	511236 190029
141	Points of Interest - Education and Health Name: Northwood & Pinner Community Hospital Location: Pinner Road, Northwood, HA6 1DE Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A18SW (NW)	450	8	510003 190685
141	Points of Interest - Education and Health Name: Northwood & Pinner Community Hospital Location: Pinner Road, Northwood, HA6 1DE Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A18SW (NW)	450	8	510003 190685
142	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	A13SE (SE)	84	8	510339 190189

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	Points of Interest - Manufacturing and Production Name: Works Location: HA6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13SE (SE)	90	8	510341 190183
143	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	A13NW (NW)	330	8	509983 190492
143	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	A13NW (NW)	330	8	509983 190492
144	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	A17SE (NW)	719	8	509723 190792
144	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	A17SE (NW)	719	8	509723 190792
145	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	A17NE (NW)	803	8	509834 190996
145	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	A17NE (NW)	804	8	509842 191002
145	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	A17NE (NW)	805	8	509842 191003
146	Points of Interest - Manufacturing and Production Name: Tank Location: HA5 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	896	8	509613 189678
147	Points of Interest - Public Infrastructure Name: Northwood Hills Service Station Ltd Location: 105-107 Pinner Road, Northwood, HA6 1DD Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (N)	146	8	510303 190460
148	Points of Interest - Public Infrastructure Name: Esso Location: Northwood Hills Service Station, Joel Street, Northwood, HA5 2PA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (S)	149	8	510258 190125
148	Points of Interest - Public Infrastructure Name: Esso Location: Joel Street, Pinner, HA5 2PA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (S)	165	8	510255 190109

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	Points of Interest - Public Infrastructure Name: Northwood Express Location: Joel Street, Pinner, Middlesex, HA5 2PA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (S)	169	8	510250 190106
148	Points of Interest - Public Infrastructure Name: Northwood Express Location: Joel Street, Pinner, HA5 2PA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (S)	169	8	510244 190108
149	Points of Interest - Public Infrastructure Name: Northwood Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	591	8	509672 190248
149	Points of Interest - Public Infrastructure Name: Northwood Cemetery Location: HA6 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	614	8	509649 190247
150	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	A17SW (NW)	893	8	509522 190815
151	Points of Interest - Public Infrastructure Name: Outfall Location: HA5 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	938	8	510577 189368
151	Points of Interest - Public Infrastructure Name: Outfall Location: HA5 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	938	8	510577 189368
151	Points of Interest - Public Infrastructure Name: Outfall Location: HA5 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	988	8	510580 189317
151	Points of Interest - Public Infrastructure Name: Outfall Location: HA5 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	989	8	510580 189316
152	Points of Interest - Public Infrastructure Name: Clean Getaway Location: 17 Orchard Rise, Pinner, HA5 2NS Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A7SE (SW)	972	8	509641 189548
153	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	596	8	509726 190576
153	Points of Interest - Recreational and Environmental Name: Playground Location: Chestnut Avenue, HA6 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	596	8	509726 190575

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
154	Points of Interest - Recreational and Environmental Name: Play Area Location: HA5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	609	8	510904 190413
155	Points of Interest - Recreational and Environmental Name: Play Area Location: HA5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	839	8	510285 189427
156	Points of Interest - Recreational and Environmental Name: Play Area Location: HA5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	887	8	509902 189476

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
157	Ancient Woodland Name: Park Wood Reference: 1495763 Area(m ²): 1008611.28 Type: Ancient and Semi-Natural Woodland	A7NW (SW)	933	9	509530 189717
158	Areas of Adopted Green Belt Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan Status: Adopted Plan Date: 30th September 1998	A13SW (S)	172	10	510258 190101
159	Areas of Adopted Green Belt Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan Status: Adopted Plan Date: 30th September 1998	A13NW (NW)	207	10	510069 190389
160	Areas of Adopted Green Belt Authority: London Borough of Harrow Plan Name: Proposal Map Status: Adopted Plan Date: 4th July 2013	A19SW (NE)	802	11	510768 190962
161	Areas of Adopted Green Belt Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan Status: Adopted Plan Date: 30th September 1998	A19NW (NE)	845	10	510662 191076
162	Areas of Unadopted Green Belt Authority: London Borough of Hillingdon Plan Name: Proposal Map Status: Submission Draft Plan Date: 18th May 2018	A13SW (S)	171	10	510234 190108
163	Areas of Unadopted Green Belt Authority: London Borough of Hillingdon Plan Name: Proposal Map Status: Submission Draft Plan Date: 18th May 2018	A13NW (NW)	208	10	510067 190387
164	Areas of Unadopted Green Belt Authority: London Borough of Hillingdon Plan Name: Proposal Map Status: Submission Draft Plan Date: 18th May 2018	A19NW (NE)	849	10	510656 191083
165	National Nature Reserves Name: Ruislip Woods Multiple Areas: Y Total Area (m2): 2954781.55 Source: Natural England Reference: 1006764 Designation Date: Not Supplied	A7NW (SW)	933	9	509530 189717
166	Nitrate Vulnerable Zones Name: Colne And Guc (From Confluence With Chess To Ash) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (S)	0	4	510286 190294
167	Sites of Special Scientific Interest Name: Ruislip Woods Multiple Areas: Y Total Area (m2): 3074479.4199999995 Source: Natural England Reference: 1003633 Designation Details: Local Nature Reserve Designation Date: 23rd April 1990 Date Type: Notified Designation Details: Local Wildlife Site Designation Date: 23rd April 1990 Date Type: Notified Designation Details: Nature Conservation Review Designation Date: 23rd April 1990 Date Type: Notified Designation Details: National Nature Reserve Designation Date: 23rd April 1990 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 23rd April 1990 Date Type: Notified	A7NW (SW)	933	9	509530 189717

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Watford Borough Council - Environmental Health Department Three Rivers District Council - Environmental Health Department London Borough of Hillingdon - Environmental Protection Unit London Borough of Ealing - Environmental Health and Trading Standards Division London Borough of Harrow - Environmental Health Services South Buckinghamshire District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department	April 2014 January 2015 March 2015 October 2013 October 2014 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Thames Region	October 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Thames Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - South East Region - North East Thames Area Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region	October 2019 October 2019 October 2019	Quarterly Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control London Borough of Hillingdon - Environmental Health Department London Borough of Harrow - Environmental Health Services Three Rivers District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department London Borough of Ealing - Environmental Health and Trading Standards Division Watford Borough Council - Environmental Health Department South Buckinghamshire District Council - Environmental Health Department	August 2014 December 2014 February 2015 January 2015 July 2015 June 2014 September 2014	Variable Variable Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls London Borough of Hillingdon - Environmental Health Department London Borough of Harrow - Environmental Health Services Three Rivers District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department London Borough of Ealing - Environmental Health and Trading Standards Division Watford Borough Council - Environmental Health Department South Buckinghamshire District Council - Environmental Health Department	August 2014 December 2014 February 2015 January 2015 July 2015 June 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements London Borough of Hillingdon - Environmental Health Department London Borough of Harrow - Environmental Health Services Three Rivers District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department London Borough of Ealing - Environmental Health and Trading Standards Division Watford Borough Council - Environmental Health Department South Buckinghamshire District Council - Environmental Health Department	August 2014 December 2014 February 2015 January 2015 July 2015 June 2014 September 2014	Variable Variable Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	October 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 Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - North East Area	October 2019 October 2019 October 2019	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Thames Region	October 2019	Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2019	Quarterly
Flood Defences Environment Agency - Head Office	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	October 2019	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Thames Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - North East Thames Area Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - North East Area	November 2019 November 2019 November 2019	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - North East Thames Area Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - North East Area	October 2019 October 2019 October 2019	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Buckinghamshire County Council Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Environmental Health Department London Borough of Ealing London Borough of Harrow - Environmental Health Services London Borough of Hillingdon - Environmental Health Department South Buckinghamshire District Council Three Rivers District Council - Environmental Health Department Watford Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites South Buckinghamshire District Council Buckinghamshire County Council Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Environmental Health Department London Borough of Ealing London Borough of Harrow - Environmental Health Services London Borough of Hillingdon - Environmental Health Department Three Rivers District Council - Environmental Health Department Watford Borough Council - Environmental Health Department	August 2006 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Thames Region - 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 Buckinghamshire County Council Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Planning Department London Borough of Ealing South Buckinghamshire District Council - Development Control Department Three Rivers District Council Watford Borough Council - Development Control London Borough of Hillingdon	April 2015 February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 January 2016	Variable Variable Variable Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents London Borough of Harrow Buckinghamshire County Council Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Planning Department London Borough of Ealing South Buckinghamshire District Council - Development Control Department Three Rivers District Council Watford Borough Council - Development Control London Borough of Hillingdon	April 2015 February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 January 2016	Variable Variable Variable Variable Variable Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
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	October 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	December 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	December 2019	Quarterly
Points of Interest - Education and Health PointX	December 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2019	Quarterly
Points of Interest - Public Infrastructure PointX	December 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	

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

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	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
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	London Borough of Harrow - Environmental Health Services P O Box 18, Civic Centre, Harrow, Middlesex, HA1 2UT	Telephone: 020 8863 5611 Fax: 020 8863 8267 Website: www.harrow.gov.uk
7	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	London Borough of Hillingdon Civic Centre, High Street, Uxbridge, Middlesex, UB8 1UW	Telephone: 01895 250111 Fax: 01895 250830 Website: www.hillingdon.gov.uk
11	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
12	Three Rivers District Council Three Rivers House, Northway, Rickmansworth, Hertfordshire, WD3 1RL	Telephone: 01923 776611 Fax: 01923 896119 Website: www.threerivers.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.

Groundwater Vulnerability

General

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

Agency and Hydrological

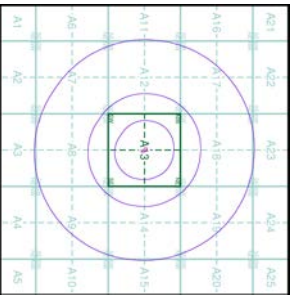
Bedrock Aquifers

Superficial Aquifers

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

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 230074002_1_1
Customer Ref: RML 7119
National Grid Reference: 510280, 190290
Slice: A
Site Area (Ha): 0.14
Search Buffer (m): 1000

Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ

Bedrock Aquifer Designation

General

Specified Site Specified Buffer(s) Bearing Reference Point

Site Map ID

Agency and Hydrological

Geological Classes

Principal Aquifer

Secondary A Aquifer

Secondary B Aquifer

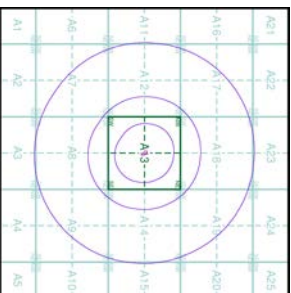
Secondary Undifferentiated

Unproductive Strata

Unknown

Unknown (Lakes and Land slip)

Site Sensitivity Context Map - Slice A

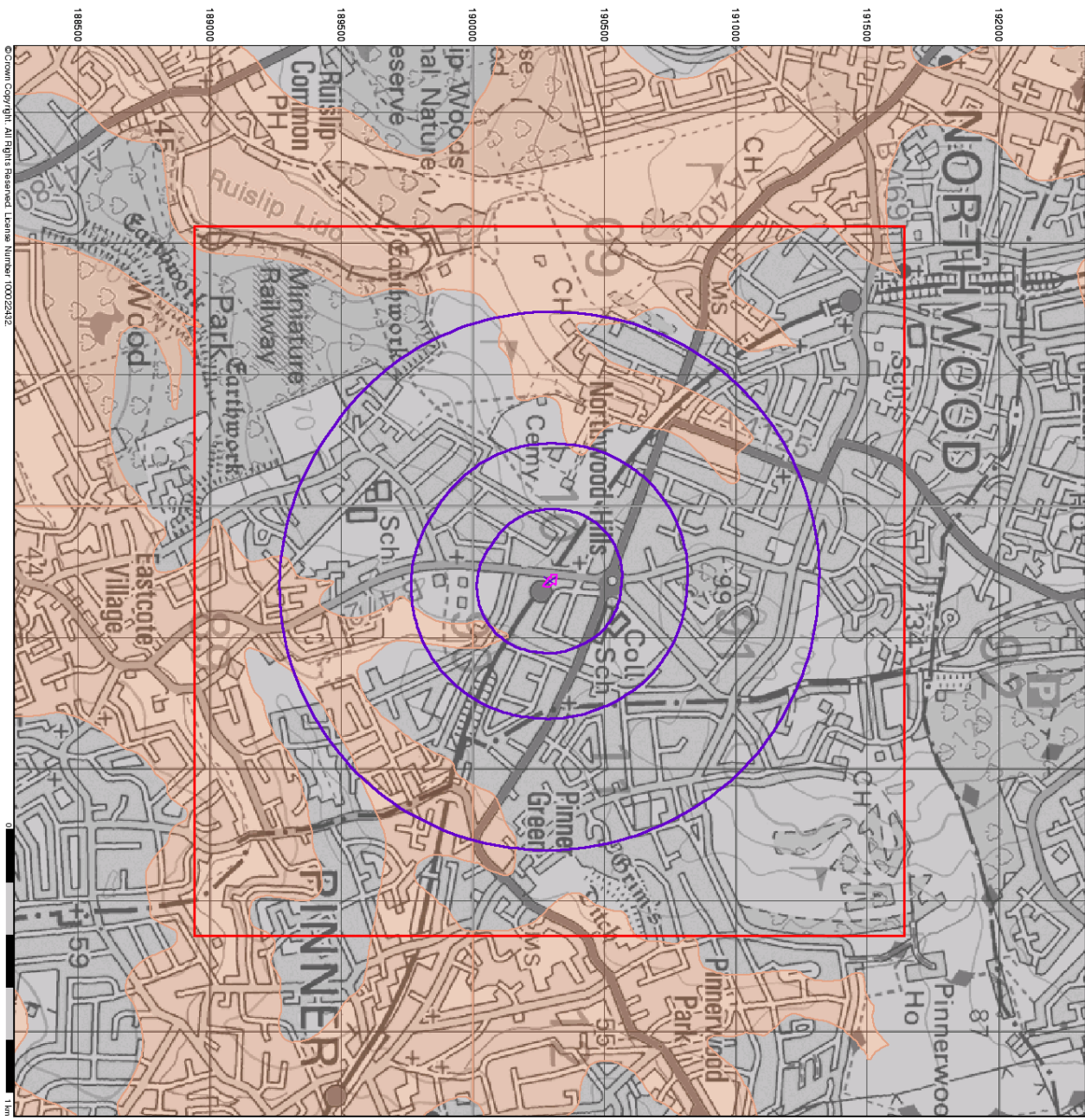


Order Details

Order Number: 230074002_1_1
Customer Ref: RML 7119
National Grid Reference: 510280, 190290
Site: A
Site Area (Ha): 0.14
Search Buffer (m): 1000

Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ



Superficial Aquifer Designation

General

Specified Site Specified Buffer(s) Bearing Reference Point

Site Map ID

Agency and Hydrological

Geological Classes

Principal Aquifer

Secondary A Aquifer

Secondary B Aquifer

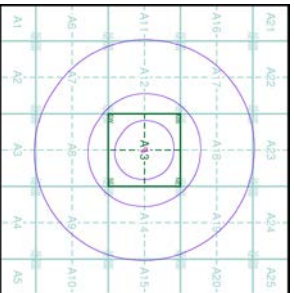
Secondary Undifferentiated

Unproductive Strata

Unknown

Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A

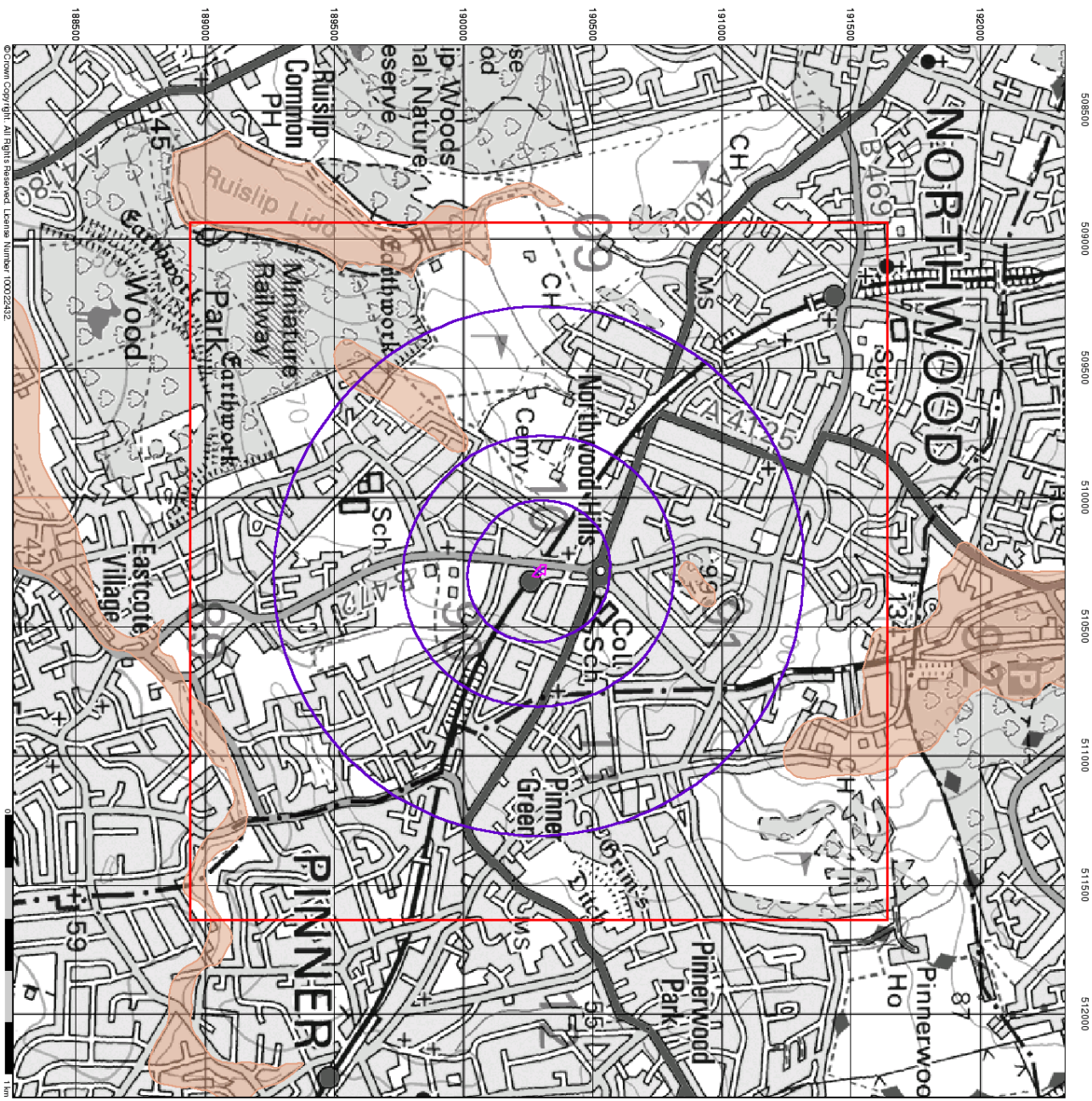


Order Details

Order Number: 230074002_1_1
Customer Ref: RML 7119
National Grid Reference: 510280, 190290
Site Area (Ha): A 0.14
Search Buffer (m): 1000

Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ



Source Protection Zones

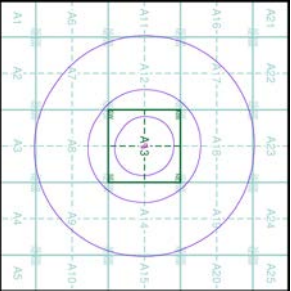
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A

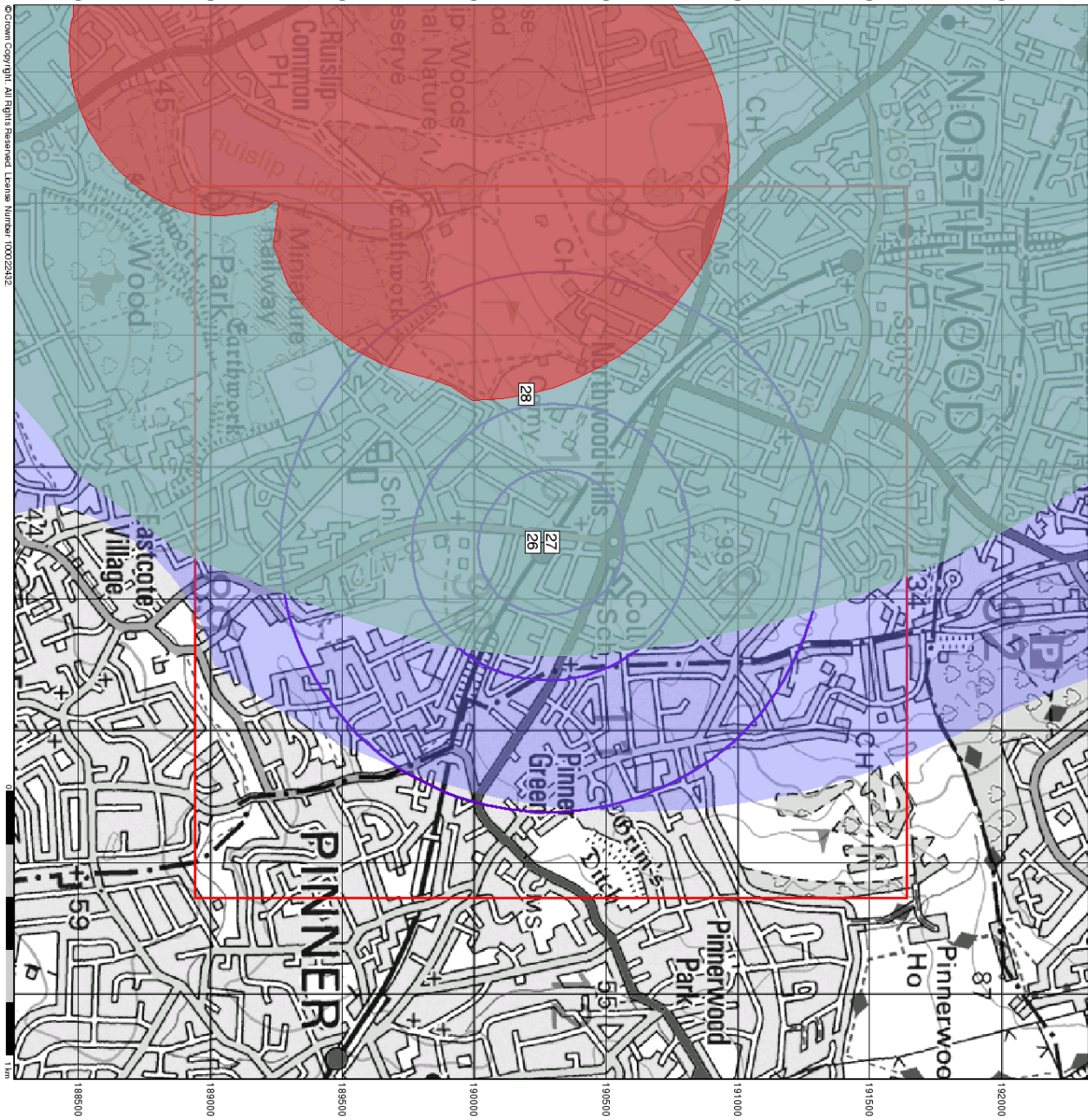


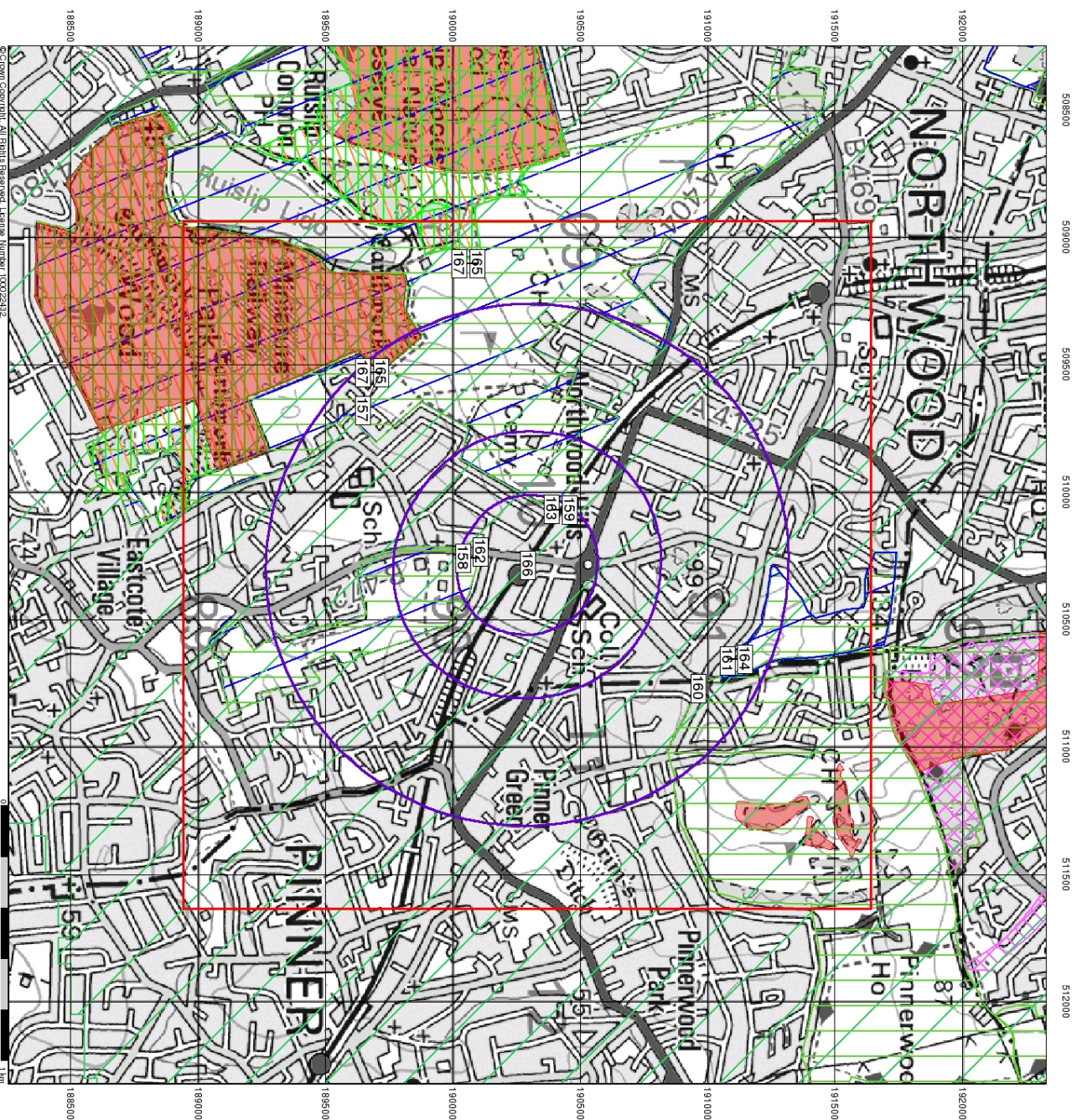
Order Details

Order Number: 230074002_1_1
Customer Ref: RML 7119
National Grid Reference: 510280, 190290
Site: A
Site Area (Ha): 0.14
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Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ





Sensitive Land Uses

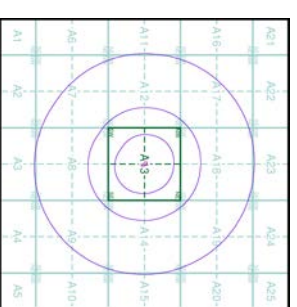
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 230074002_1.1
 Customer Ref: RML 7119
 National Grid Reference: 510280, 190290
 Site: A
 Site Area (Ha): 0.14
 Search Buffer (m): 1000

Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ

BGS Flood GFS Data

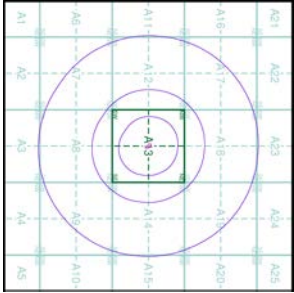
General

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

Agency and Hydrological (Flood)

- United 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

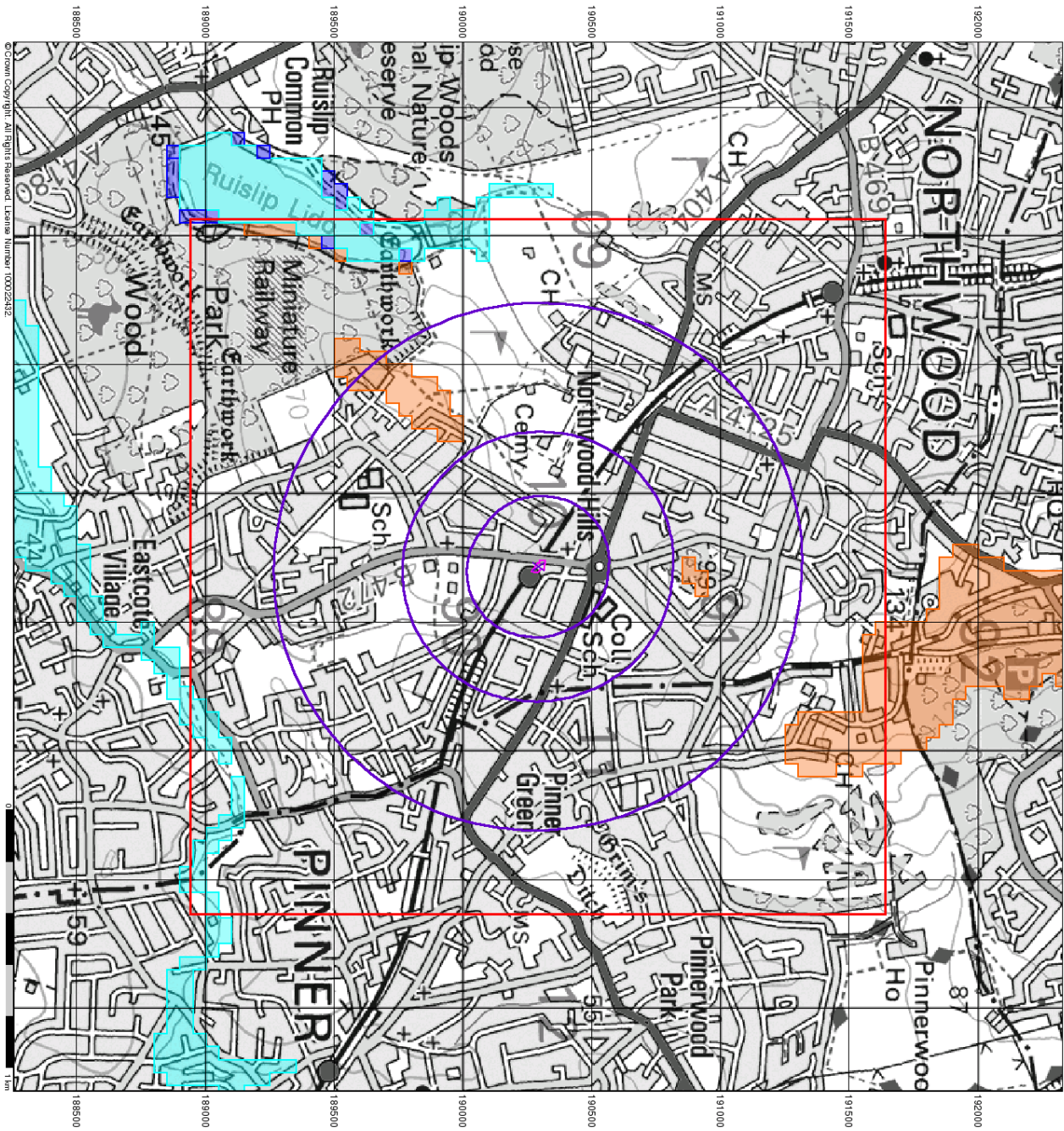


Order Details

Order Number: 230074002_1_1
Customer Ref: RML 7119
National Grid Reference: 510280, 190290
Site Area (Ha): A 0.14
Search Buffer (m): 1000

Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ



Industrial Land Use Map

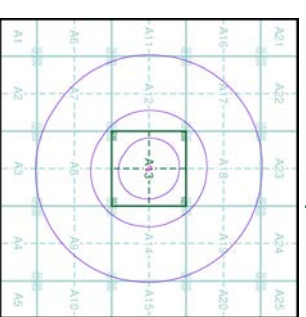
General

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

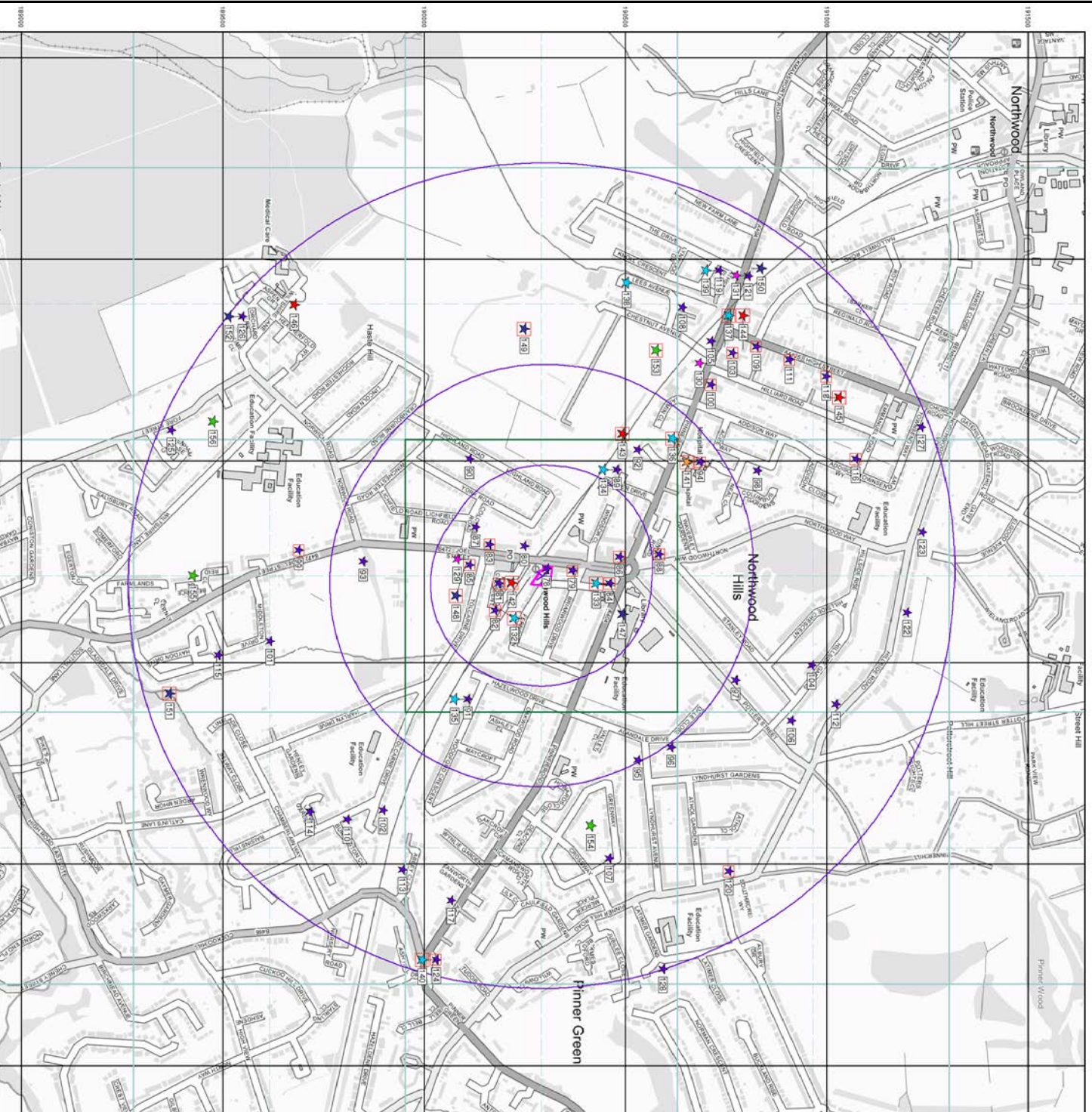


Order Details

Order Number: 230074002_1_1
 Customer Ref: RML 7119
 National Grid Reference: 510290, 190290
 Slice: A
 Site Area (Ha): 0.14
 Search Buffer (m): 1000

Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ



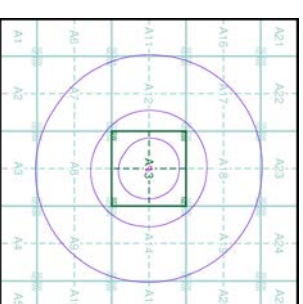
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

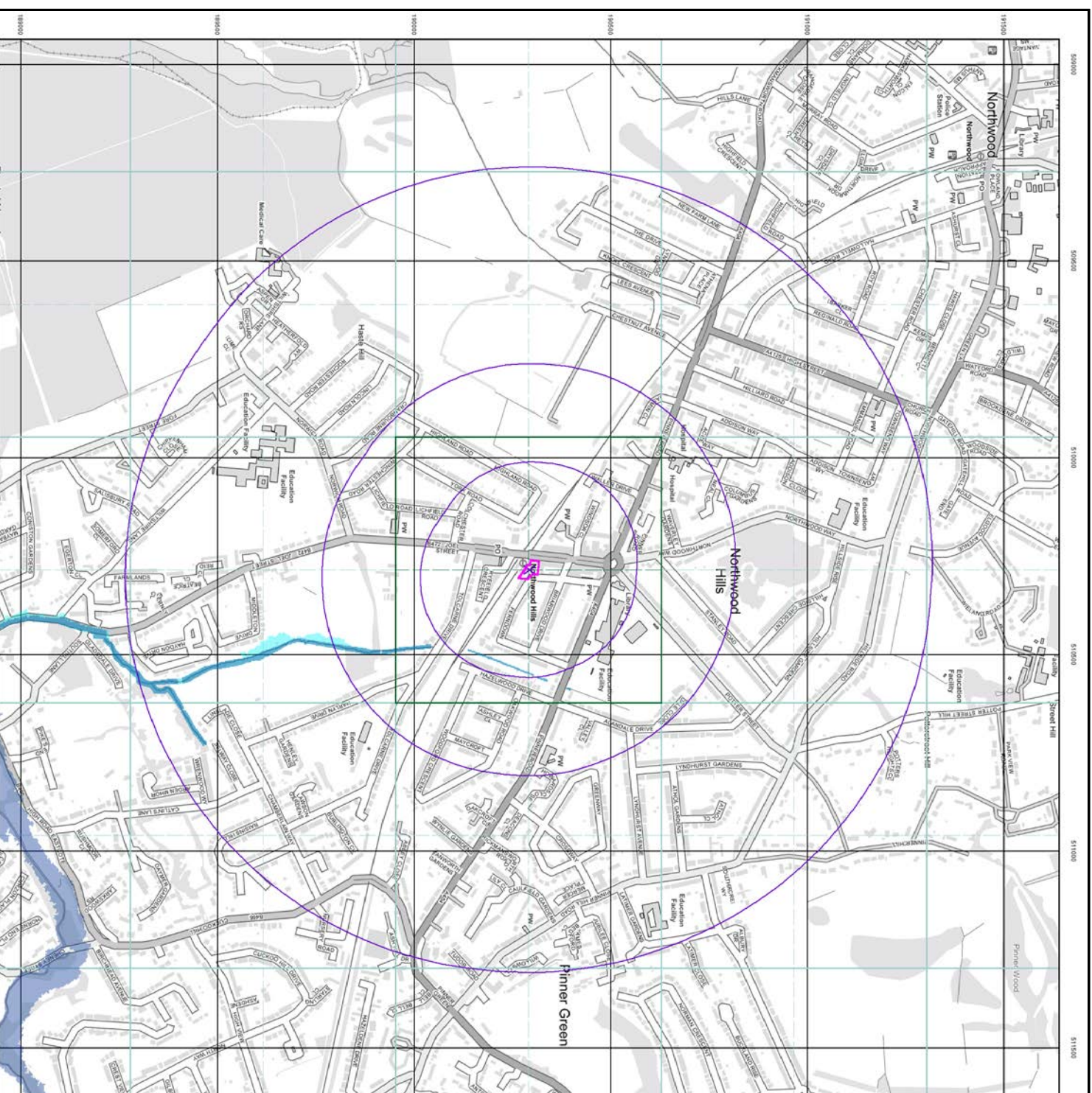


Order Details

Order Number: 230074002_1_1
 Customer Ref: RML 7119
 National Grid Reference: 510290, 190290
 Slice: A
 Site Area (Ha): 0.14
 Search Buffer (m): 1000

Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ



General

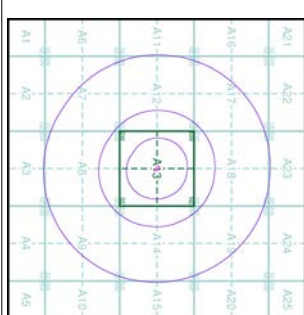
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Severed or Type at Location

Agency and Hydrological (Boreholes)

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

For Borehole information please refer to the Borehole .csv file which accompanied this slice.
A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

Order Number: 230074002_1_1
Customer Ref: RML 7119
National Grid Reference: 510290, 190290
Slice: A
Site Area (Ha): 0.14
Search Buffer (m): 1000

Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ

General

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

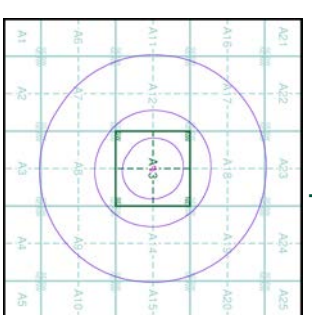
OS Water Network Data

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

Contours (height in meters)

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

OS Water Network Map - Slice A



Order Details

Order Number: 230074002_1_1
 Customer Ref: RML 7119
 National Grid Reference: 510290, 190290
 Slice: A
 Site Area (Ha): 0.14
 Search Buffer (m): 1000

Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ

General

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

Risk of Flooding from Surface Water

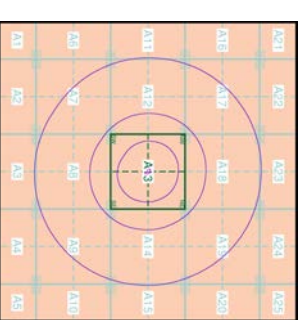
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA NRW Suitability Map - Slice A



Order Details

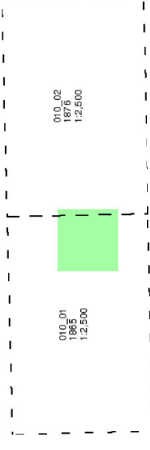
Order Number: 230074002_1_1
Customer Ref: RML 7119
National Grid Reference: 510290, 190290
Slice: A
Site Area (Ha): 0.14
Search Buffer (m): 1000

Site Details

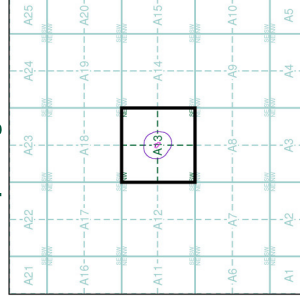
53, Joel Street, NORTHWOOD, HA6 1NZ

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas and by 1986 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in surveying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Details

Order Number: 230074002_1_1
Customer Ref: RML 7119
National Grid Reference: 510290, 190290
Slice: A
Site Area (Ha): 0.14
Search Buffer (m): 100

Site Details

Site Details
53, Joel Street, NORTHWOOD, HA6 1NZ

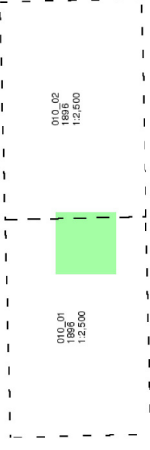
Middlesex

Published 1896

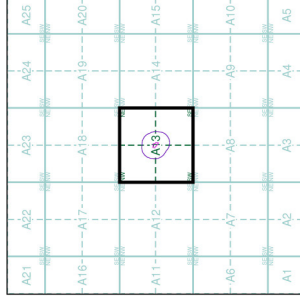
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the last adopted for England, Wales and Scotland in the 1840s. In 1864 the 2500 scale was adopted for mapping from 1864 to 1896. It covered the whole of the United Kingdom and was the first map of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 230074002_1_1
Customer Ref: RML 7119
National Grid Reference: 510290, 190290
Slice: A
Site Area (Ha): 0.14
Search Buffer (m): 100

Site Details

53, Joel Street, NORTHWOOD, HA6 1NZ

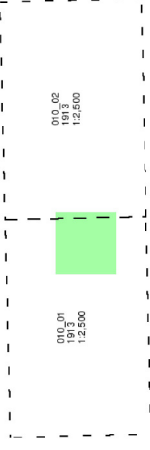
Middlesex

Published 1913

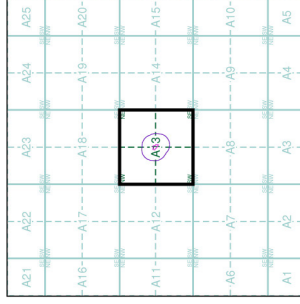
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1840s. In 1864 the 2500 scale was adopted for mapping in England and by 1886 it covered the whole of the United Kingdom. The maps were produced by the Ordnance Survey Office in Southampton. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



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