

PROJECT No. RML 6606

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

**AT
L/A AXIS HOUSE, BATH ROAD, HARLINGTON**

**ON BEHALF OF
ACRE HOTELS LIMITED**

May 2018



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1.0 INTRODUCTION & SCOPE OF WORKS

- 1.1 This report has been prepared by Risk Management Limited for the Client, Messrs. Acre Hotels Limited, under cover of their signed Official Instruction dated 9th March 2018.
- 1.2 The Consulting Engineers for the project are Messrs. Shear Design Limited.
- 1.3 The site under consideration was located in a car parking area adjacent to Axis House, Bath Road, Harlington, Hayes, UB3 5AY.
- 1.4 The approximate six-figure grid reference for the centre of the site is 507930 E, 176990 N.
- 1.5 It is understood that a five-storey (plus basement), 128 room Hotel is to be erected in the existing car park for Axis House. Car parking for the new Hotel will be at basement and ground floor levels and will include guest drop off and service delivery areas. The existing Electricity Sub-station is to be moved as a part of the works. The currently proposed plan layout of the development is indicated on the appended Messrs. Architects Network Drawing No. 15L08PL3_SK01 Rev. A.
- 1.6 Risk Management Limited have now been commissioned to carry out an investigation into the site comprising both a Phase I, *Non-Intrusive*, Desk Study and a Phase II, *Intrusive*, Site Investigation.
- 1.7 The Desk Study comprises a Walkover Survey, an Environmental Disclosure Report, and a Historical Map Search and covers the whole of the site.
- 1.8 In addition, a buried services search and an unexploded ordnance survey were also undertaken as part of the current work.
- 1.9 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.
- 1.10 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.
- 1.11 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 3rd April 2018.
- 2.2 The western half of the site was roughly square-shaped, with a rectangular portion extending to the east along the northern boundary, all within the existing car parking area for the adjacent Axis House. Access to the site was gained from the north via Eggerton Way.
- 2.3 The local topography was relatively flat with raised pavements positioned around the site between parking areas. A single storey, brick built, pitched roof, Electricity Sub-Station was located in the central portion of the site. The area between the Electricity Sub-Station and Axis House was fenced off with 'Heras' style fencing at the time of our Walkover Survey and was in use as a Site Office area with metal containers for WC facilities and office space.
- 2.4 The northern boundary to the current site comprised metal bar fences and electronic barriers for entrance to the car park. A pavement and Egerton Way lay beyond the northern boundary with residential house and gardens further to the north of that.
- 2.5 The eastern boundary to the current site comprised the 'L' shaped residential block of flats, Axis House. Beyond Axis House was Bolton's Lane with further offices and car parking along Bath Road beyond, including another small Electricity Sub-Station.
- 2.6 The southern boundary to the current site comprised of 'Heras' style metal fencing in the eastern portion and hedgerow in the western portion. The main A4 trunk road, Bath Road, lay beyond with The Renaissance Hotel and office buildings noted to the south of that.
- 2.7 The western boundary to the current site comprised of small hedgerows on a raised pavement. An office building, Strata House, lay beyond with further commercial and office buildings along Bath Road beyond that.
- 2.8 Numerous drainage runs were noted across site as indicated by the presence of manhole and drainage covers.
- 2.9 Plates 1-3, appended, show general photographs of the site.

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	No Licenced Waste Management Facilities, Historic Landfill or Registered Landfill Sites are noted within the 0-250m search band. The Local Authority Landfill Coverage is designated as London Borough of Hillingdon. One Potentially Infilled Land (Non-Water) is noted within the 0-250m search band. This relates to an Unknown Filled Ground (Pit, quarry etc) located some 184m south of the current site. One Potentially Infilled Land (Water) is noted within the 0-250m search band. This relates to an Unknown Filled Ground (pond, marsh, river, stream, dock etc) located some 234m north-east of the current site.	Contamination testing will be undertaken as part of the current Phase II <i>intrusive</i> site investigation.
Integrated Pollution Prevention and Control	Two Integrated Pollution Prevention and Controls are noted within the 0-250m search band. Both relate to Heathrow Airport Ltd. Terminal 5 Energy Centre for the Combustion; any fuel greater or equal to 50mW, some 102m east of the current site. However, the status for both is listed as 'Superseded By Variation'. No Integrated Pollution Prevention and Controls are noted within the 251-1000m search band.	None required.

Local Authority Pollution Prevention and Controls	Five Local Authority Pollution Prevention and Controls are noted within the 0-250m search band. Four of the five relate to Petrol Filling Stations located some 81m west, 102m east and 190m east of the current site. The remaining Local Authority Pollution Prevention and Control relates to a General Waste Incinerator at Customs House some 129m south-west of the current site. A further four Local Authority Pollution Prevention and Controls are noted within the 251-1000m search band.	None required.
Hazardous Substances	No Hazardous Substances usages are noted 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.
Collapsible Ground Stability	"Low Hazard"	None required.
Compressible Ground Stability	"No Hazard"	None required.
Ground Dissolution	"No Hazard"	None required.
Landslide Stability	"Very Low Hazard"	None required.
Running Sand	"No Hazard"	None required.
Swelling/Shrinking	"Very Low Hazard"	Superseded by current work.
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	Of the thirteen Contemporary Trade Directory Entries noted within the 0-250m search band, only two are listed as active. The active Contemporary Trade Directory Entries include; Petrol Filling Stations and Car Engine Tuning & Diagnostic Services.	None required.
Historic Contemporary Trade Directory Entries	The eleven Historic Contemporary Trade Directory Entries noted within the 0-250m search band include; Airfreight Services, Pest & Vermin Control, Petrol Filling Stations, Aviation Engineers, Airports, Conveyors & Conveyor Belts, Car Painters & Sprayers, Power Transmission Equipment, Manufacturers and Machinery – Industrial & Commercial.	Contamination testing will be undertaken as part of the current Phase II <i>intrusive</i> site investigation.
Fuel Station Entries	One Fuel Station is noted within the 0-250m search band. This relates to the Texaco at Co-Op Harlington some 81m west of the current site. One Fuel Station Entry is noted within the 251-1000m search band.	None required.
Sensitive Land Use	An Area of Adopted Green Belt is designated some 139m north of the current site.	None required.

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	No Discharge Consents are noted within the 0-1000m search band.	None required.
Nearest Surface Water Feature	The nearest significant surface water feature is noted to be some 158m north-west of the current site.	None required.
Water Abstractions	No Water Abstractions are noted within the 0-250m search band. One Water Abstraction is noted within the 251-500m search band and one Water Abstraction is noted within the 501-1000m search band.	None required.
Pollution Incidents to Controlled Waters	No Pollution Incidents to Controlled Waters are noted within the 0-500m search band. Two Pollution Incidents to Controlled Waters are noted within the 501-1000m search band.	None required.
Groundwater Vulnerability	The appended Groundwater Vulnerability Map indicates that the site lies over a 'Major-Aquifer'.	Contamination testing will be undertaken as part of the current Phase II <i>intrusive</i> site investigation.
Bedrock Aquifer Designations	The Bedrock Aquifer Designation is given as: 'Unproductive Strata'	
Superficial Aquifer Designations	The Superficial Aquifer Designation is given as: 'Unproductive Strata'	
Source Protection Zones	The appended Environment Agency Groundwater Map indicates that the site does not lie over an Environment Agency Source Protection Zone (SPZ).	
Flood Risk	The site does not lie within an Environment Agency Indicative Flood Plain, but the site has potential for groundwater flooding to occur at surface.	Outside the scope of the current Report.

4.0 HISTORICAL MAPS

4.1 The following eleven historical plans covering the site are discussed below.

4.1.1 1866-1890 (1:2,500)

The current site lies within the 1890 portion of this plan, which shows the site to be open land, possibly associated with Doghurst Farm to the north of the current site.

The forerunner to Bath Road is already shown but not named to the south of the current site, along with the forerunners to Sipson Road and Doghurst Drive to the north-west of the current site and Bolton's Lane, named, to the east of the current site. Sipson House is shown to the north, Sipson Green to the south-east and the Three Magpies Public House to the south-west of the current site, with King's Arbour (West End of General Roy's Base) further beyond.

4.1.2 1895 (1:2,500)

Only five years later, and just before the turn of the century, and no significant change is noted to the current site.

Elsewhere, residential properties have been erected opposite the Three Magpies Public House to the south-east of the current site. A chapel (disused) is shown to the south of these properties.

4.1.3 1914 (1:2,500)

Some sixteen years later, and at the start of the first world-war, and no significant change is noted to the current site.

Elsewhere, an Allotment Gardens is shown to the north-east of the current site and Old Filter Beds are shown to the west of the current site.

4.1.4 1935 (1:2,500)

Some twenty-one years later, and just before the start of the second world-war, and the site is now occupied by numerous, semi-detached, residential properties fronting Bath Road, together with their associated garden areas.

Further residential properties have been constructed to the immediate east, west and north-west of the current site. A Church Hall is shown to the west of the current site and further residential development is shown further to the north-east of the current site.

4.1.5 1961-1966 (1,1,250)

The majority of the current site lies within the 1962 portion of this Plan, some twenty-eight years later, and no significant change is noted to the current site.

Elsewhere, continued residential development has occurred to the north of the current site, along Doghurst Avenue. A Caravan Site is shown to the north and a Nursery is shown to the north-east of the current site. South of the Bath Road has seen considerable re-development with the residential properties, formerly opposite the Three Magpies Public House, removed to make way for a Car Park associated with Heathrow Airport to the south. Numerous buildings associated with Heathrow Airport are shown to the south along Bath Road. An Airport Hotel and a large Bakery are shown to the north-west of the current site.

4.1.6 1973-1974 (1,1,250)

The current site lies within the 1974 portion of this plan, the eastern end of the current site is now shown to be a part of a larger square 'Garage' building. The remainder of the site still contains numerous, semi-detached, residential properties.

Elsewhere, continued development is seen in the area south of Bath Road, associated with Heathrow Airport, with a Taxi Park, Custom House, Police Station and The Heathrow building now shown. Further south the Northern Perimeter Road of Heathrow Airport is now shown. The Nursery building to the north-east of the current site has now been removed.

4.1.7 1981-1989 (1:1,250)

The current site lies within the 1989 portion of this plan which now shows the site to form a landscaped area, possibly parking, for the adjacent building (Axis House).

Elsewhere, the former Garage and properties to the immediate east of the current site have been removed to make way for Axis House, while former properties to the immediate west of the current site have been removed to make way for larger office buildings.

4.1.8 1992 (1:1,250)

Only three years later and no significant change is noted to the current site.

Elsewhere, continued development has occurred to the east of the current site along Mondial Way.

4.1.9 1999 (Aerial Photograph)

The aerial photograph of 1999 confirms the current site boundaries as found during the current Walkover Survey.

4.1.10 2006 (1:10,000)

Only seven years later, this plan of a larger scale and shows the surrounding area of Harlington to the north, Sipson to the north-west and Heathrow Airport to the south of the current site.

4.1.11 2017 (1:10,000)

The plan of the current date now confirms the current site and immediate surrounding area as found during the current Walkover Survey.

5.0 BURIED SERVICES SEARCH

- 5.1 A buried services search was instigated across and around the current site and full details of the findings have been passed on to the Consulting Engineers, Messrs. Shear Design Limited. Risk Management Limited also hold a full set of the buried services search findings.
- 5.2 The following discusses affected plant and services only.
- 5.3 The appended Affinity Water – (Central Region) map shows a 300mm diameter Distribution Main to run east to west immediately south of the southern boundary of the site, along the A4 Bath Road carriageway.
- 5.4 Messrs. Cadent Gas Limited's Drawing is appended and shows a 6" diameter gas mains running east to west immediately south of the southern boundary of the site, along the A4 Bath Road carriageway.
- 5.5 CrossRail proposes a tunnel to run north-north-west to south-south-east approximately 50m west of the current site, just beyond Strata House. The appended drawing shows the route of the CrossRail proposal associated with the Heathrow Express.
- 5.6 The Environment Agency have issued a response stating that an Environmental Permit is required if works are in, under, over or near to a main river flood or sea defence. The Environmental Risk Assessment undertaken has found that an Environmental Permit is not required.
- 5.7 The appended ESP Utilities Group drawing shows High Voltage cables to run from the Electricity Sub-Station initially to the east towards Axis House before turning in a south, south-west direction off of the current site towards the A4 Bath Road. Low Voltage cables are shown to run along the eastern southern boundary of the site, bordering Axis House.
- 5.8 Messrs. Instalcom's – (CenturyLink, Global Crossing, Fibernet & Fiberspan) plan is appended and shows that some telecoms are noted to run north-north-west to south-south-east approximately 50m west of the current site.
- 5.9 The appended Network Rail plan shows a tunnel to run north-north-west to south-south-east approximately 50m west of the current site.
- 5.10 The appended Openreach – (British Telecommunications) plan shows a cable to run into the current site from the southern boundary, A4 Bath Road, north to a joint box, before turning east to run to the Electricity Sub-Station and then carrying on to the western wall of Axis House.

- 5.11 The appended Scottish and Southern Electricity plan shows a cable to run from the Electricity Sub-station initially to the east towards Axis House before turning in a south, south-west direction off of the current site towards the A4 Bath Road. A further cable is shown to run east from the Electricity Sub-Station east to Axis House.
- 5.12 The appended Thames Water mains plan indicates that no water pipes cross the current site. A Surface Water sewer runs along the A4 Bath Road carriageway south of the current site.
- 5.13 The appended Transport for London plan indicates traffic control equipment is in the vicinity of the site. Equipment is located to the south-east of the current site on the junction of the A4 Bath Road and Bolton's Lane.
- 5.14 Messrs. Utility Assets were contacted for this search, with no reply forthcoming after 5-7 working days they are deemed to have no apparatus in the area of the current site.
- 5.15 The appended Verizon plan shows a duct to the south of the current site along the A4 Bath Road carriageway.
- 5.16 The appended Virgin plan also shows a duct to the south of the current site along the A4 Bath Road carriageway.
- 5.17 The appended Vodafone plan shows no cables on site. The closest cable is shown to be entering the adjacent Strata House building, labelled 264-270, to the west of the current site.

6.0 PRELIMINARY UXO REPORT

- 6.1 A Preliminary Unexploded Ordnance (UXO) Threat Assessment has been commissioned for this site and full details are appended.
- 6.2 The Threat Assessment concludes that the current site lies in a “Low Risk” area with regard to Unexploded Ordnance (UXO).
- 6.3 The above noted report recommends that no further action is required to address the UXO risk at this site.

7.0 FIELDWORK

- 7.1 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".
- 7.2 Borehole locations are shown on the appended Fieldwork Location Plan, Drawing No. RML 6556/1.
- 7.3 Fieldwork was undertaken on the 9th November 2017 and comprised the following:-

Cable Percussion Boreholes

- 7.4 Three cable percussion boreholes (BH1-BH3) were drilled at this site, each to a depth of 30.00m below existing ground level.
- 7.5 Small disturbed samples and undisturbed U100 samples were taken from the boreholes at regular depth intervals within each stratum and when a change of strata was encountered.
- 7.6 In addition, Standard Penetration Tests (SPT's) were carried out within the boreholes in order to provide additional information on the consistency of the material encountered.
- 7.7 The appended Standard Penetration Test versus Depth Profile plots the SPT 'N' values against depth at this site, for boreholes BH1-BH3.
- 7.8 Upon completion of boreholes BH1, BH2 and BH3 combined groundwater/gas monitoring standpipes were installed to a depth of 7.00m below existing ground level. The monitoring installations comprised a 1 metre length of plain 50mm 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 each installation finished with a gas valve on top of the pipe and a lockable stopcock cover concreted in flush with ground level.
- 7.9 Full details of the cable percussion borehole findings are given on the appended borehole record sheets.

Drive-in-Sampler Boreholes

- 7.10 In addition to the above noted cable percussion boreholes, six drive-in-sampler boreholes (DIS1-DIS6) were drilled across the site. Boreholes DIS1, DIS2, DIS4 and DIS6 were terminated at 1.70m below existing ground level and boreholes DIS3 and DIS5 were terminated at a depth of 2.00m below existing ground level. All six boreholes were terminated in the GRAVEL owing to 'hard driving'.
- 7.11 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.
- 7.12 Small disturbed samples were taken at regular depth intervals down the boreholes.
- 7.13 Full details of the drive-in-sampler borehole findings are given on the appended borehole record sheets.

Land-Borne Gas Monitoring

- 7.14 Following the initial site work, six return gas/groundwater monitoring visits have been undertaken to the installations fitted within boreholes BH1, BH2 and BH3 on the 11th, 20th, 24th and 30th April 2018 and the 10th and 16th May 2018.
- 7.15 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.
- 7.16 Full details of the readings are included on the appended Gas/Groundwater Monitoring Record Sheet.

8.0 GROUND CONDITIONS

- 8.1 According to information published by the British Geological Survey (Sheet 269, Windsor) the underlying geology at this site is shown as being Recent Brickearth over Recent Taplow Gravel over London Clay of the Eocene Period.
- 8.2 In lithology and mode of occurrence a few brickearths closely resemble the loess deposits of northern Europe and may be wind-borne; others probably accumulated in shallow water during a period of dry climatic conditions. Most of the brickearths contain scattered, small, angular stones and pockets of flint gravel and are so contaminated by locally derived materials that they have become argillaceous, sandy, stony or chalky. Such deposits may, in some cases, be the result of redistribution of earlier deposits by solifluxion or by widespread 'sheet-flooding' when the annual rainfall was far greater than at present; in extreme cases, such as the brickearths on the tracts of London Clay and Thanet Beds in North Kent the drift is hardly distinguishable from the solid.
- 8.3 Taplow Gravel forms part of the lowest floodplain terrace of the River Thames. River Thames Terrace Deposits generally comprise primarily gravels and sand sourced from varying materials within the rivers local catchment area. These Pleistocene deposits are widespread within the London Basin and occur typically as terraces on the valley sides. These terraces represent ancient floodplain deposits that have become isolated as the river has cut downwards to lower levels.
- 8.4 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.
- 8.5 Full details of the ground conditions encountered are presented on the borehole records appended to this report and can be summarised as follows:-

Deeper Cable Percussion Boreholes BH1-BH3

Depth From (m)	Depth To (m)	Description
0.00	0.15/0.20	Paving.
0.15/0.20	0.30/0.40	MADE GROUND.
0.30/0.40	1.20/1.80	Superficial Clay.
1.20/1.80	3.40/6.20	Taplow GRAVEL.
3.40/6.20	4.40/6.50	Weathered London CLAY.
4.40/6.50	30.00 +	London CLAY.

Shallow Drive-in-Sampler Boreholes DIS1-DIS6

Depth From (m)	Depth To (m)	Description
0.00	0.10/0.18	Paving.
0.10/0.18	0.35/0.60	MADE GROUND.
0.35/0.60	1.40/1.60	Superficial Clay.
1.40/1.60	1.70/2.00 +	Taplow GRAVEL.

8.6 Groundwater was not noted during boring.

8.7 Groundwater was however noted on all six return monitoring visits to the installations fitted within boreholes BH1, BH2 and BH3. The depth to groundwater was found to range between 3.50m and 4.00m below existing ground level.

9.0 LABORATORY TESTING

- 9.1 The following geotechnical and chemical laboratory tests have been carried out on samples recovered from the boreholes at this site.
- 9.2 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”.
- 9.3 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.

9.4 *Natural Moisture Content*

The natural moisture content has been determined for a total of ten samples taken from boreholes BH1, BH2 and BH3.

The natural moisture content was found to range between 20% and 37%.

9.5 *Atterberg Limits*

The Atterberg Limits have been determined for two samples of superficial clay, from 1.00m depth in boreholes BH1 and BH2.

The liquid limits (LL) were found to be 60% and 62%, the plastic limits (PL) 20% and 28%, and the plasticity index (PI) 32 and 42.

These results indicate that both of the samples tested can be classified as a clay of ‘high’ plasticity (CH) in accordance with the Casagrande Geotechnical classification system.

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

9.6 *Quick Undrained Triaxial Compression Tests.*

The undrained shear strength has been determined in single-stage triaxial compression for eight, nominally undisturbed, 104mm diameter samples.

The resulting mean shear stress (undrained cohesion) C_u values ranged between 95 kN/m² and 267 kN/m² indicating that the samples tested ranged from 'stiff' to 'very stiff' in consistency.

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

9.7 *Particle Size Distribution*

The particle size distribution has been determined for two samples of the more granular soils encountered.

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

9.8 *pH and Sulphate Tests*

The pH has been determined for a total of ten samples from across the site. The pH was found to range between 7.8 and 9.0.

The sulphate content has been determined for a total of three samples from across the site and was found to be, on a 2:1 water:soil extract, 0.08 g/l, 0.02 g/l and 0.11 g/l.

9.9 *Chemical Analysis*

Six shallow samples, three of MADE GROUND and three of shallow natural ground, were selected and tested for a range of commonly occurring contaminants and indicators of contamination including those given by the Contaminated Land Exposure Assessment (CLEA).

The contamination suite undertaken at this site includes speciated **PolyAromatic Hydrocarbon (PAH)** and speciated **Total Petroleum Hydrocarbon (TPH)**, together with **BTEX**, **Benzene**, **Toluene**, **Ethylbenzene** and **Xylenes**.

In addition, two samples of MADE GROUND and two samples of shallow natural ground were selected and tested for speciated PolyChlorinated Biphenyl (PCB),

9.10 *Asbestos Identifications*

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

9.11 *Waste Classification Tests*

Two shallow samples, one of MADE GROUND and one of shallow natural ground, have been selected and tested for Waste Acceptance Criteria (WAC) in accordance with BS EN 12457 Part 3.

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

10.0 DISCUSSION

PROPOSED DEVELOPMENT & SCOPE OF WORKS

- 10.1 As discussed in Section 1 above, it is understood that a five-storey (plus basement), 128 room Hotel is to be erected in the existing car park for Axis House. Car parking for the new Hotel will be at basement and ground floor levels and will include guest drop off and service delivery areas. The existing Electricity Sub-station is to be moved as a part of the works. The currently proposed plan layout of the development is indicated on the appended Messrs. Architects Network Drawing No. 15L08PL3_SK01 Rev. A.
- 10.2 The current report comprises a Phase I, *Non-Intrusive*, Desk Study and a Phase II, *Intrusive*, Site Investigation.

DESK STUDY

- 10.3 The site is shown as part of a larger, open, field in 1890 with no change noted on the next two plans. By 1935 the site has been developed with numerous, semi-detached, residential properties and associated gardens. No significant change is noted in the next plan from 1962. The plan from 1974 shows the eastern end of the current site to now be a part of a larger square shaped Garage building, the remainder of the site still comprising numerous semi-detached properties. By 1989 the site had been re-developed, with the former houses and garage building removed forming a car parking area for the adjacent Axis House to the east of the current site. The remaining four plans show no significant change to the current site.
- 10.4 The forerunners of Bath Road, Sipson Road, Doghurst Drive and Bolton's Lane are all shown on the plan from 1890. Sipson House is shown to the north, Sipson Green to the south-east and the Three Magpies Public House to the south-west of the current site, with King's Arbour (West End of General Roy's Base) further beyond. By 1895 residential properties have been erected opposite the Three Magpies Public House to the south-east of the current site and a Chapel (disused) is shown to the south of these new properties. By 1914 Allotment Gardens are shown to the north-east and Old Filter Beds are shown to the west of the current site. By 1935 extensive residential development has occurred to the immediate east, west and north-west of the current site. A Church Hall is shown to the west and further residential development is shown to the far north-east of the current site. By 1962 continued residential development is shown to the north of the current site.

along Doghurst Avenue. A Caravan Site is shown to the north and a Nursery is shown to the north-east of the current site. South of the Bath Road has seen considerable re-development with the residential properties, formerly opposite the Three Magpies Public House, removed to make way for a Car Park associated with Heathrow Airport to the south. Numerous buildings associated with Heathrow Airport are shown to the south along Bath Road. An Airport Hotel and a large Bakery are shown to the north-west of the current site. By 1974 continued development has occurred south of the Bath Road, associated with Heathrow Airport, in the form of a Taxi Park, Custom House, Police Station and The Heathrow hotel now shown. The northern perimeter road associated with Heathrow Airport is now shown to the far south of the current site. The Nursery building to the north-east of the current site has now been removed. By 1989 the former Garage building occupying the eastern portion of the current site and adjacent residential properties have been removed to make way for Axis House. Further properties to the immediate west have been removed to make way for larger buildings. By 1992 further development has occurred to the east of the current site along Mondial Way.

- 10.5 No radon remedial measures would be required at this site. The site lies over a Major Aquifer, however, this is considered to be within the underlying CHALK stratum which is overlain by the relatively impermeable London Clay. Therefore, it is considered that no 'pathway' to the underlying aquifer would be present at this site. The Bedrock Strata is noted as 'Unproductive' and the site does not lie over an Environment Agency Source Protection Zone (SPZ). The site does not lie within an Environment Agency indicative flood plain but has potential for groundwater flooding to occur at the surface.
- 10.6 Provided the above noted points are taken into account, the environmental search has not therefore found any reason to preclude any proposed re-development of this site.

FOUNDATION DESIGN

- 10.7 Based on boreholes BH1-BH3 only, beneath Paving, a thin band of MADE GROUND was noted to a depth of between 0.30m and 0.40m below existing ground level. Beneath the MADE GROUND a band of superficial CLAY was encountered to between 1.20m and 1.80m depth, underlain by Taplow GRAVEL to depths of between 3.40m and 6.20m below existing ground level. Beneath the Taplow GRAVEL, Weathered London CLAY was encountered to between 4.40m and 6.50m where 'fresh', grey, London CLAY was encountered which was not penetrated at the borehole termination depths of 30.00m below existing ground level.

- 10.8 Based on the current boreholes, conventional strip or pad foundations would need to be set below any MADE GROUND or Superficial CLAY within the underlying Taplow GRAVEL at a minimum depth of some 2.00m, where an allowable bearing pressure of 125 kN/m² could be adopted. This could be increased to 150 kN/m² at some 3.00 depth and to some 200 kN/m² at some 4.00m depth.
- 10.9 Settlement due to the above noted order of loading would not be expected to exceed 20-25mm, some of which would be 'short-term' and some 'long-term' depending on the depth to London Clay beneath the footings.
- 10.10 Groundwater was not encountered during boring, however groundwater was noted during all six of the return monitoring visits to the installations within boreholes BH1-BH3. Therefore, should seasonal groundwater or surface water accumulate at the base of service 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.
- 10.11 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
- 10.12 In addition, from the evidence of the boreholes, pile cap excavations or any shallow foundation or service excavations, deeper than 1 metre, will require support against collapse of sides in the MADE GROUND, underlying Superficial CLAY and the Taplow Gravel and we recommend that a contingency is made for this at this stage.
- 10.13 Owing to the potentially high loads from the proposed five-storey Hotel building and basement, we would recommend consideration of piled foundations to support the proposed new building, as discussed below.
- 10.14 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.

BASEMENT

- 10.15 It is understood that the car parking basement area will extend over the majority of the site footprint with the basement floor slab likely to be founded in the underlying Taplow Gravel.
- 10.16 The presence of groundwater in the upper Taplow Gravel should be noted with regard to basement wall design.
- 10.17 The allowable bearing pressures discussed above could be adopted for a basement slab of the size of the site footprint, however, settlements due to a uniformly distributed load of this order would be likely to exceed 75mm. Therefore, to keep settlements to within acceptable limits any uniformly distributed load on the basement slab itself should be kept to a maximum of 35-40 kN/m².
- 10.18 Note that, even if groundwater is not encountered during basement construction, there is always a possibility that the basement excavation will act as a local “sump” for surface groundwater and run-off. Therefore, we would recommend that the basement construction is “tanked” to prevent any future problems with ingress of groundwater.
- 10.19 Design of the basement slab at this site should take into account the effects of ‘heave’ due to relief of overburden pressure caused by excavation. It is beyond the scope of the current report to provide a detailed basement slab design.

PILED FOUNDATIONS

- 10.20 Piled foundations at this site could be bored or driven mainly into the underlying London CLAY stratum to support foundation loads to the new Hotel building mainly in adhesion within the underlying London Clay. Given the nature of the ground conditions encountered, and the proximity to adjacent buildings and properties, a bored pile solution would appear the most appropriate; particularly those formed by continuous flight auger.
- 10.21 It is outside 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 10m, 15m, 20m and 25m depth.

Pile Type	Depth below existing ground level (m)	Diameter (mm)	Working Load (tonnes)
Bored	10.00	0.30	10-15
Bored	10.00	0.45	20-25
Bored	10.00	0.60	30-35
Bored	15.00	0.30	20-25
Bored	15.00	0.45	35-40
Bored	15.00	0.60	50-55
Bored	20.00	0.30	30-35
Bored	20.00	0.45	55-60
Bored	20.00	0.60	75-80
Bored	25.00	0.30	45-50
Bored	25.00	0.45	70-80
Bored	25.00	0.60	100-110

- 10.22 In calculating the above working loads we have assumed an adhesion factor of 0.45 in the London Clay and 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 2-3 metres of each pile is 'sleeved' to prevent 'heave' or 'down-drag' forces developing on the shaft.
- 10.23 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.
- 10.24 Settlement of such piles can be expected to be small, typically less than 5 mm.

RETAINING STRUCTURES

- 10.25 The full design of temporary and permanent retaining structures is beyond the scope of this report. However, the following values are given as a guide to assist in the design of these structures in the underlying London Clay encountered at this site.

Parameter	Value
Bulk Density (γ)	2.00 Mg/m ³
Dry Density (γ_d)	1.60 Mg/m ³
TOTAL STRESS DESIGN (Temporary Works Only)	
Undrained Cohesion (C_u)	75-200 kN/m ² increasing with depth
Undrained Angle of Internal Friction (ϕ_u)	0°
Wall Adhesion – Active (c_w)	= 0.5 * C_u but max 50 kN/m ²
Wall Adhesion – Passive (c_w)	= 0.5 * C_u but max 25 kN/m ²
EFFECTIVE STRESS DESIGN (Permanent Works)	
Effective Cohesion (c')	1 kN/m ²
Effective Angle of Internal Friction (ϕ')	20°
Wall Adhesion – Active (c_w)	0 kN/m ²
Wall Adhesion – Passive (c_w)	0 kN/m ²
Wall Friction – Active (δ)	0.66 ϕ'
Wall Friction – Passive (δ)	0.50 ϕ'

BURIED CONCRETE

- 10.26 The results of the chemical analyses indicate that the samples tested would fall into Class DS-1 of the Building Research Establishments (BRE) classification system Special Digest Part 1:2005 "Concrete in aggressive ground".
- 10.27 However, owing to the presence of selenite crystals found within the London Clay, we would recommend that Class DS-2 conditions are adopted for all concrete mix design in contact with the London Clay.
- 10.28 In addition, we would recommend that sulphate resisting cement is adopted for pile concrete mix design at this site.

LAND-BORNE GAS

- 10.29 During the return gas/groundwater monitoring visits to the installations fitted within boreholes BH1, BH2 and BH3, no methane was detected with a maximum carbon dioxide level of 0.4%.
- 10.30 CIRIA Publication C665 "*Assessing Risks Posed by Hazardous Ground Gases to Buildings (Revised 2007)*" includes a risk assessment for the current development type.
- 10.31 The gas flow was below the instrument detection limit and, therefore, the gas screening value (gsv) would be close to zero l/hr. Therefore, in accordance with the CIRIA risk assessment process, we would consider that the current site would be classified as being "Characteristic Situation 1" and no gas remedial measures would be required.

PRELIMINARY CONTAMINATION ASSESSMENT

10.32 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.

10.33 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)

10.34 Source

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

In addition, two samples of MADE GROUND and two samples of shallow natural ground were selected and tested for Speciated PCB's.

10.35 Pathways

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

10.36 Receptors

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

- Workers on the site likely to come into contact with the soils.
- Future Users of new hotel and car parking.
- Any proposed additional vegetation.
- Neighbours.

10.37 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.

10.38 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*

10.39 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.

10.40 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.

- 10.41 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.
- 10.42 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.
- 10.43 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.
- 10.44 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*.
- 10.45 The contamination results have been compared with the **Commercial** criteria as shown on the table below.

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

- 10.46 No determinands exceeded the CLEA Soil Guideline Values (SGV) or the ATRISK Contaminated Land Screening Values (SSV) for **Commercial** usage.
- 10.47 No Asbestos was identified in the six samples tested and PCB levels were below the laboratory detection limit.

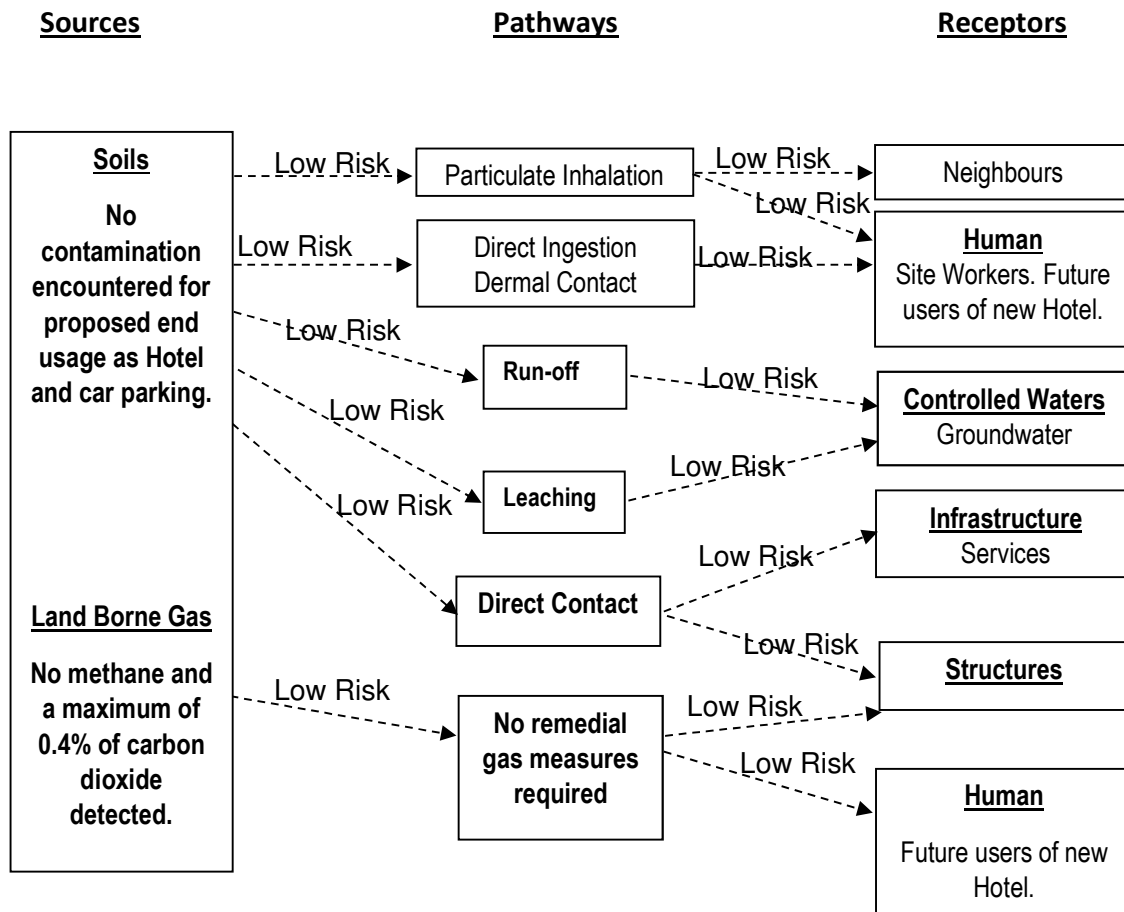
Discussion

No contamination was therefore encountered for the proposed end usage at this site.

Any excavated material at this site can be considered to pose a low hazard to ground workers as far as Health and Safety is concerned. However, we would still recommend that standard Health and Safety precautions be taken with regard to ground workers at this site and these should include PPE equipment such as gloves, overalls etc. and normal washing facilities available on-site.

CONCEPTUAL SITE MODEL

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



10.49 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

- 10.50 Two EN 14473/02 Waste Acceptance Criteria (WAC) tests have been undertaken during the current work and the certificates pertaining to these are appended to this report.
- 10.51 The results tend to indicate that the material tested would probably be classified as 'Inert'.
- 10.52 However, it should be noted that Risk Management are not a licensed landfill operator and we therefore strongly recommend that the WAC data should 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

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



Prepared By : Richard Price B.Sc.
Project Engineer



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

Distribution : Shear Design Limited - 1 pdf copy

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

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

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

160780146_1_1

Customer Reference:

RML 6606

National Grid Reference:

507930, 176990

Slice:

A

Site Area (Ha):

0.29

Search Buffer (m):

1000

Site Details:

L/a Axis House

Bath Road

Harlington

HAYES

UB3 5AY

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Acre Hotels Ltd

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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 the attached 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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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	pg 1		2		
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Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
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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 14	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 14	Yes		Yes	Yes
BGS Recorded Mineral Sites	pg 14				2
BGS Urban Soil Chemistry	pg 15			Yes	Yes
BGS Urban Soil Chemistry Averages	pg 17	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					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 17	Yes	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 17	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 17		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 17	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 19		13	5	43
Fuel Station Entries	pg 24		1		1
Points of Interest - Commercial Services	pg 24		4	8	16
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 27			2	18
Points of Interest - Public Infrastructure	pg 28		9		2
Points of Interest - Recreational and Environmental	pg 29			2	2
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 30		1		4
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 30				1
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	210	1	507932 176750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	211	1	507900 176750
1	Integrated Pollution Prevention And Control Name: Heathrow Airport Ltd Location: Terminal5 Energy Centre, 234 Bath Road, Heathrow Airport,, HOUNSLOW, UB3 5AP Authority: Environment Agency - South East Region, North East Thames Area Permit Reference: BQ3789IK Original Permit Ref: Bq3789ik Effective Date: 19th December 2003 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y	A13SE (E)	102	2	508088 176979
1	Integrated Pollution Prevention And Control Name: Heathrow Airport Ltd Location: Terminal5 Energy Centre, 234 Bath Road, Heathrow Airport, Hounslow, UB3 5AP Authority: Environment Agency, Thames Region Permit Reference: Bq3789ik Original Permit Ref: Bq3789ik Effective Date: 19th December 2003 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y	A13SE (E)	102	2	508088 176979
2	Local Authority Pollution Prevention and Controls Name: Co-Op Harlington Filling Station Location: Sipson Corner, Bath Road, Harlington, HAYES, Middlesex, UB3 5AZ Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: EPA/SS/1/030/09/1998 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13SW (W)	81	3	507806 176977
3	Local Authority Pollution Prevention and Controls Name: Mt Operations Base Location: Heathrow Airport, Heathrow, Ub3 5ap Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: EPA/SS/1/050/12/2001 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Located by supplier to within 10m	A13SE (E)	102	3	508088 176979
4	Local Authority Pollution Prevention and Controls Name: Customs House Location: Nettleton Road, Heathrow Airport North, UXBRIDGE, Middlesex, UB10 8ER Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: B1/11 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG5/4 General waste incineration processes under 1 tonne an hour Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	129	3	507821 176851
5	Local Authority Pollution Prevention and Controls Name: Bp Heathrow Airside Location: Central Inner Ring, Heathrow Airport, Hounslow, Middlesex, Ub3 5ap Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: EPA/SS/1/046/08/1999 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	A13SE (E)	190	3	508150 176898

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Local Authority Pollution Prevention and Controls Name: Bp Heathrow Landside Location: Inner Ring Road, Hounslow, Ub3 5ap Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: EPA/SS/1/004/04/1998 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	A13SE (E)	190	3	508150 176898
6	Local Authority Pollution Prevention and Controls Name: British Airways Engineering Base Location: PO Box 10, London Heathrow Airport, HOUNSLOW, Middlesex, TW6 2JA Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: EPA/B3/26 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/40 Coating and recoating of aircraft and aircraft components Status: Authorised Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	580	3	508320 176516
7	Local Authority Pollution Prevention and Controls Name: British Airways Location: Building (869)(N45A), North Perimeter Road, HEATHROW, Middlesex, TW5 9RS Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: B3/17 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the road within the address or location	A14SE (E)	728	3	508679 176769
8	Local Authority Pollution Prevention and Controls Name: Aires (Uk) Ltd Location: Building 471, Fleet House, Northern Perimeter Road, Heathrow, Ub3 5ap Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A12SW (W)	889	3	507005 176845
9	Local Authority Pollution Prevention and Controls Name: Premier Dry Cleaners Location: 210 High Street, Hayes, Middlesex, Ub3 5ds Authority: London Borough of Hillingdon, Environmental Health Department Permit Reference: EPA/DC/006 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	A19NE (NE)	967	3	508666 177688
	Nearest Surface Water Feature	A13NW (NW)	158	-	507794 177130
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: CIPPENHAM Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Urban Runoff Note: Confirmed As A Pollution Incident Incident Date: 7th October 1993 Incident Reference: S1930429 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)	531	2	508200 176500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Heathrow Airport Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 9th June 1990 Incident Reference: N1900313 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (SW)	721	2	507600 176300
12	Prosecutions Relating to Authorised Processes Location: Warner Close, Hayes, London, Ub3 Prosecution Text: Dumping asbestos waste on land without a WML Prosecution Act: Epa90 S33(1)(A) Hearing Date: 19th January 2005 Verdict: Guilty Fine: 1500 Costs: 1300 Positional Accuracy: Manually positioned within the geographical locality	A14NE (E)	825	2	508774 177247
13	Water Abstractions Operator: Park Hotel Heathrow Limited Licence Number: Th/039/0036/017 Permit Version: 1 Location: Borehole At Park Inn Hotel, Bath Road Authority: Environment Agency, Thames Region Abstraction: Hotels; Public Houses And Conference Centres: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th September 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (W)	316	2	507590 177105
14	Water Abstractions Operator: Norman Hay Plc Licence Number: 28/39/36/0062 Permit Version: Not Supplied Location: Bath Road, HILLINGDON Authority: Environment Agency, Thames Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 840 Yearly Rate (m3): 306000 Details: River Gravel; Licence Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (W)	887	2	507000 177000
	Water Abstractions Operator: Avis Rent A Car Limited Licence Number: 28/39/36/0058 Permit Version: 100 Location: Borehole At Northrop Road, Heathrow Airport, Hounslow Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 30 Yearly Rate (m3): 10980 Details: Northrop Road, Heathrow Airport, Hounslow Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15SW (E)	1031	2	509000 176800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Harleyford Aggregates Limited Licence Number: 28/39/36/0059 Permit Version: 102 Location: Wet Pit At Sipson Lane, Harmondsworth Authority: Environment Agency, Thames Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Sipson Lane, Harmondsworth Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th April 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1134	2	507600 178100
	Water Abstractions Operator: Henry Streeter (Sand & Ballast) Limited Licence Number: 28/39/36/0059 Permit Version: 101 Location: Wet Pit At Sipson Lane, Harmondsworth Authority: Environment Agency, Thames Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Sipson Lane, Harmondsworth Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st March 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1134	2	507600 178100
	Water Abstractions Operator: Henry Streeter (Sand & Ballast) Limited Licence Number: 28/39/36/0059 Permit Version: 100 Location: Wet Pit At Sipson Lane, Harmondsworth Authority: Environment Agency, Thames Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 2455 Yearly Rate (m3): 649318 Details: Sipson Lane, Harmondsworth Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th December 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1134	2	507600 178100
	Water Abstractions Operator: Heathrow Airport Limited Licence Number: Th/039/0028/007 Permit Version: 2 Location: Heathrow Airport - Borehole C Authority: Environment Agency, Thames Region Abstraction: Transport: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1407	2	507663 175573

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Heathrow Airport Limited Licence Number: Th/039/0028/007 Permit Version: 2 Location: Heathrow Airport - Borehole C Authority: Environment Agency, Thames Region Abstraction: Transport: General use relating to Secondary Category (High Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 29th April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1407	2	507663 175573
	Water Abstractions Operator: Q-Park Limited Licence Number: 28/39/36/0063 Permit Version: 101 Location: Argonaut House, Bath Road, Hayes- Borehole A Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Argonaut House, Bath Road, Hayes Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th December 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SE (E)	1440	2	509410 176770
	Water Abstractions Operator: R & R Barwick Licence Number: 28/39/36/0023 Permit Version: 100 Location: Borehole 'C' At Home Farm, Harmondsworth Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Home Farm, Harmondsworth Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th July 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11NW (W)	1452	2	506460 177260
	Water Abstractions Operator: R & R Barwick Licence Number: 28/39/36/0023 Permit Version: 100 Location: Borehole 'C' At Home Farm, Harmondsworth Authority: Environment Agency, Thames Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Home Farm, Harmondsworth Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 27th July 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11NW (W)	1452	2	506460 177260

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Budget Rent A Car International Licence Number: 28/39/36/0063 Permit Version: 100 Location: Argonaut House, Hayes - Borehole Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Argonaut House, Bath Road, Hayes Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th December 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SE (E)	1525	2	509500 176800
	Water Abstractions Operator: Sita Environment Limited Licence Number: 28/39/36/0070 Permit Version: 2 Location: Harmondsworth Quarry, West Drayton-Lagoon Authority: Environment Agency, Thames Region Abstraction: Extractive: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Harmondsworth Quarry, Holloway Lane, West Drayton, Middlesex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th January 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NE (NW)	1592	2	506640 177990
	Water Abstractions Operator: Sita Products And Services Ltd Licence Number: 28/39/36/0070 Permit Version: 1 Location: Harmondsworth Quarry, West Drayton-Borehole A Authority: Environment Agency, Thames Region Abstraction: Extractive: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Harmondsworth Quarry, Holloway Lane, West Drayton, Middlesex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th January 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NE (NW)	1592	2	506640 177990
	Water Abstractions Operator: British Airways Plc Licence Number: 28/39/36/0061 Permit Version: Not Supplied Location: Heatherow Airport, HOUNSLOW Authority: Environment Agency, Thames Region Abstraction: Research Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 1746 Yearly Rate (m3): 637180 Details: River Gravel Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5NW (SE)	1702	2	509200 175800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Henry Streeter (Sand & Ballast) Limited Licence Number: 28/39/36/0060 Permit Version: 102 Location: Wet Pit At High Street, Harlington, Middlesex Authority: Environment Agency, Thames Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: High Street, Harlington, Middlesex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd February 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SE (NE)	1731	2	509400 178000
	Water Abstractions Operator: Henry Streeter (Sand & Ballast) Limited Licence Number: 28/39/36/0060 Permit Version: 101 Location: Wet Pit At High Street, Harlington, Middlesex Authority: Environment Agency, Thames Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: High Street, Harlington, Middlesex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st March 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SE (NE)	1731	2	509400 178000
	Water Abstractions Operator: Henry Streeter (Sand & Ballast) Limited Licence Number: 28/39/36/0060 Permit Version: 100 Location: Wet Pit At High Street, Harlington, Middlesex Authority: Environment Agency, Thames Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 2455 Yearly Rate (m3): 649318 Details: High Street, Harlington, Middlesex Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th December 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SE (NE)	1731	2	509400 178000
	Water Abstractions Operator: R & R Barwick Licence Number: 28/39/36/0023 Permit Version: 100 Location: Borehole 'B' At Home Farm, Harmondsworth Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Home Farm, Harmondsworth Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th July 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1854	2	506130 177590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: R & R Barwick Licence Number: 28/39/36/0023 Permit Version: 100 Location: Borehole 'B' At Home Farm, Harmondsworth Authority: Environment Agency, Thames Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Home Farm, Harmondsworth Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 27th July 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1854	2	506130 177590
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 39 West London Scale: 1:100,000	A13NW (W)	0	2	507932 176986
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 39 West London Scale: 1:100,000	A13NW (W)	0	2	507932 176986
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NW (W)	0	1	507932 176986
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13NW (W)	0	1	507932 176986
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	158	4	507794 177130
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	220	4	507766 177185
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (N)	225	4	507926 177227

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	276	4	507720 177222
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (NE)	532	4	508164 177501
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (NE)	562	4	508272 177484
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	730	4	508445 177568

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Historical Landfill Sites Licence Holder: Not Supplied Location: Heathrow Airport, Hillingdon, London Name: Heathrow Runway Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD11181 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 8HI054	A8NE (S)	327	2	507959 176634
23	Historical Landfill Sites Licence Holder: Henry Streeter (Sand and Ballast) Limited Location: South of Sipson Lane, Harlington, Middlesex Name: Imperial College Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13178 First Input Date: 31st December 1997 Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 80069 Regis Ref: TE1/L/STR004 WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: STR030	A18SE (N)	431	2	508043 177427
24	Historical Landfill Sites Licence Holder: Henry Streeter (Sand and Ballast) Limited Location: Cranford Lane West Name: South of Cranford Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD11322 First Input Date: 10th July 1986 Last Input Date: 3rd October 1989 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 5510/0046 BGS Ref: Not Supplied Other Ref: DL207, 8HI017, HIL018	A14NE (E)	855	2	508835 177109
25	Historical Landfill Sites Licence Holder: Not Supplied Location: Airport Bowl Name: Land Rear of Airport Bowl Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD11187 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 8HI063	A14NE (E)	871	2	508857 177042
26	Licensed Waste Management Facilities (Landfill Boundaries) Name: South Of Sipson Lane I I Licence Number: 80531 Location: Sipson Lane, Off Sipson Road, Sipson, West Drayton, Middlesex, UB7 0JG Licence Holder: Henry Streeter (Sand & Ballast) Ltd Authority: Environment Agency - South East Region, North East Thames Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Max Input Rate: Not Supplied Licence Status: Modified Issued: 24th December 2001 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A18NW (N)	663	2	507829 177664

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Licensed Waste Management Facilities (Landfill Boundaries) Name: Harmondsworth Landfill Site Licence Number: 0 Location: Harmondsworth Landfill Site, Holloway Lane, Sipson, Middlesex, UB7 0AE Licence Holder: Suez Recycling And Recovery Uk Ltd Authority: Environment Agency - South East Region, North East Thames Area Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied Licence Status: Effective Issued: 5th December 2016 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A12NW (W)	691	2	507245 177254
28	Licensed Waste Management Facilities (Landfill Boundaries) Name: Imperial College Licence Number: 80069 Location: Henry Streeter (Sand & Ballast) Ltd, Imperial College, Of) Sipson Lane, Harlington, Middlesex, UB7 0JG Licence Holder: Henry Streeter (Sand & Ballast) Ltd Authority: Environment Agency - South East Region, North East Thames Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Max Input Rate: Not Supplied Licence Status: Modified Issued: 5th June 1997 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A18NE (N)	858	2	508112 177850
29	Licensed Waste Management Facilities (Landfill Boundaries) Name: Little Harlington Field Licence Number: 80070 Location: Henry Streeter (Sand & Ballast) Ltd, Little Harlington Field, Sipson Lane, Sipson, Middlesex, UB7 0JG Licence Holder: Henry Streeter (Sand & Ballast) Ltd Authority: Environment Agency - South East Region, North East Thames Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Max Input Rate: Not Supplied Licence Status: Closure Issued: 7th April 1992 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A18NE (N)	876	2	508014 177875
30	Licensed Waste Management Facilities (Landfill Boundaries) Name: North Of Sipson Lane, Harlington Licence Number: 80067 Location: Henry Streeter (Sand & Ballast) Ltd, North Of Sipson Lane, Harlington, Hayes, Middlesex, UB7 0JG Licence Holder: Henry Streeter (Sand & Ballast) Ltd Authority: Environment Agency - South East Region, North East Thames Area Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Max Input Rate: Not Supplied Licence Status: PPC Issued: 15th September 1993 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A18NW (N)	919	2	507750 177912
31	Licensed Waste Management Facilities (Landfill Boundaries) Name: Sipson North East Inert Landfill Licence Number: 80594 Location: Sipson Lane, Off Sipson Road, West Drayton, Middlesex, UB7 0JG Licence Holder: Henry Streeter (Sand & Ballast) Ltd Authority: Environment Agency - South East Region, North East Thames Area Site Category: Inert LF Max Input Rate: Not Supplied Licence Status: Modified Issued: 4th June 2004 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A18NW (N)	936	2	507671 177913
32	Licensed Waste Management Facilities (Locations) Licence Number: 80069 Location: (south, Of) Sipson Lane, Harlington, Middlesex, UB7 0JG Operator Name: Henry Streeter (Sand & Ballast) Ltd Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Licence Status: Modified Issued: 5th June 1997 Last Modified: 17th June 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	847	2	507900 177850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Licensed Waste Management Facilities (Locations) Licence Number: 80594 Location: Sipson Lane, Off Sipson Road, West Drayton, Middlesex, UB7 0JG Operator Name: Henry Streeter (Sand & Ballast) Ltd Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Inert LF Licence Status: Modified Issued: 4th June 2004 Last Modified: 29th March 2011 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	937	2	507663 177913
33	Licensed Waste Management Facilities (Locations) Licence Number: 80531 Location: Sipson Lane, Off Sipson Road, Sipson, West Drayton, Middlesex, UB7 0JG Operator Name: Henry Streeter (Sand & Ballast) Ltd Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Licence Status: Modified Issued: 24th December 2001 Last Modified: 29th March 2011 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	937	2	507663 177913
33	Licensed Waste Management Facilities (Locations) Licence Number: 80070 Location: Little Harlington Field, Sipson Lane, Sipson, Middlesex, UB7 0JG Operator Name: Henry Streeter (Sand & Ballast) Ltd Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Licence Status: Closed Issued: 7th April 1992 Last Modified: 27th September 1994 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NW (N)	939	2	507666 177915
	Local Authority Landfill Coverage Name: London Borough of Hillingdon - Has not been able to supply Landfill data		0	3	507932 176986
34	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13SE (S)	184	-	508010 176791
35	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8SW (S)	667	-	507933 176293
36	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A13NE (NE)	234	-	508165 177154
37	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1934	A13SW (SW)	254	-	507650 176868
38	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A12NE (NW)	380	-	507555 177185
39	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A14NW (E)	582	-	508540 177182
40	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1934	A8NW (SW)	582	-	507647 176431

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1934	A14SW (SE)	589	-	508502 176709
42	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1881	A19SW (NE)	620	-	508508 177337
43	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1934	A8NW (S)	654	-	507669 176345
44	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A14SE (E)	680	-	508666 176953
45	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1915	A8SW (S)	792	-	507615 176218
46	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A19SE (NE)	907	-	508710 177547
47	Registered Landfill Sites Licence Holder: Sita Products & Services Ltd Licence Reference: DL600 Site Location: Holloway Lane Quarry, South Of Harmondsworth Lane, Sipson, West Drayton, Middlesex, Ub7 0ae Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: The Pickeridge, Stoke Common Road, FULMER, Buckinghamshire, SL3 6HA Authority: Environment Agency - Thames Region, North East Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Operational as far as is knownOperational Dated: 25th August 2000 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Contaminated Soils Degradable Commercial Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.02) Degradable Industrial Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.03) Inert Materials (As In Post'98 E.A.Lics And Equivalent To 21.00.00) Maximum Daily Waste Permitted By Licence With Annual Maximum Waste Prohibited Waste: Clinical Wastes Other Waste/Waste Not Otherwise Specified Special Waste (As In Epa 1990:S62 Of 1996 Regs)	A12NW (W)	779	2	507152 177256
48	Registered Landfill Sites Licence Holder: Bfi Ltd Licence Reference: DL600 Site Location: Holloway Lane Quarry, South Of Harmondsworth Lane, Sipson, West Drayton, Middlesex, Ub7 0ae Licence Easting: 507100 Licence Northing: 177600 Operator Location: The Pickeridge, Stoke Common Road, Fulmer, SLOUGH, Berkshire, SL3 6HA Authority: Environment Agency - Thames Region, North East Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 18th July 1995 Preceded By: Not Given Licence: Superseded By: DL600 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Most Lwra Cat. A = Inert Wastes Silt From Holloway Lane Gravel Plant Prohibited Waste: Clinical - As In Coll/Disp.Reg's Of '88 Special Wastes Waste N.O.S.	A17SW (NW)	989	2	507100 177600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thames Group	A13NW (W)	0	1	507932 176986
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (W)	0	1	507932 176986
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (S)	465	1	508000 176500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: 2.2 - 3.0 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	886	1	507000 176986
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: no data Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: no data Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: no data Concentration:	A14SE (E)	918	1	508904 176940
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	962	1	508000 176000
49	BGS Recorded Mineral Sites Site Name: Imperial College Playing Fields Location: Sipson, Harlington, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 2402 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Thames Gravel Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A18NE (N)	663	1	508045 177660

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	BGS Recorded Mineral Sites Site Name: Imperial College Playing Fields North Location: Harlington, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 6877 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Wolstonian Geology: Taplow Gravel Formation (Taplow Terrace) Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	995	1	508430 177890
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 507646, 177290 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 14.90 mg/kg Concentration: Cadmium Measured 4.10 mg/kg Concentration: Chromium Measured 105.50 mg/kg Concentration: Lead Measured 222.20 mg/kg Concentration: Nickel Measured 31.70 mg/kg Concentration:	A13NW (NW)	376	1	507646 177290
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508322, 177227 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 28.70 mg/kg Concentration: Cadmium Measured 1.40 mg/kg Concentration: Chromium Measured 106.80 mg/kg Concentration: Lead Measured 276.20 mg/kg Concentration: Nickel Measured 36.00 mg/kg Concentration:	A14NW (NE)	405	1	508322 177227
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 507273, 177206 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 14.60 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 77.90 mg/kg Concentration: Lead Measured 187.50 mg/kg Concentration: Nickel Measured 22.30 mg/kg Concentration:	A12NE (W)	648	1	507273 177206
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508188, 177706 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 14.10 mg/kg Concentration: Cadmium Measured 0.60 mg/kg Concentration: Chromium Measured 38.00 mg/kg Concentration: Lead Measured 22.60 mg/kg Concentration: Nickel Measured 12.20 mg/kg Concentration:	A18NE (N)	735	1	508188 177706

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: 507626, 177788 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 11.30 mg/kg Concentration: Cadmium Measured 0.80 mg/kg Concentration: Chromium Measured 89.50 mg/kg Concentration: Lead Measured 106.40 mg/kg Concentration: Nickel Measured 20.90 mg/kg Concentration:	A18NW (N)	828	1	507626 177788
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508758, 177352 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 12.60 mg/kg Concentration: Cadmium Measured 7.80 mg/kg Concentration: Chromium Measured 134.80 mg/kg Concentration: Lead Measured 153.20 mg/kg Concentration: Nickel Measured 33.60 mg/kg Concentration:	A19SE (NE)	847	1	508758 177352
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 507309, 177742 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 13.90 mg/kg Concentration: Cadmium Measured 1.20 mg/kg Concentration: Chromium Measured 77.20 mg/kg Concentration: Lead Measured 315.20 mg/kg Concentration: Nickel Measured 28.30 mg/kg Concentration:	A17NE (NW)	939	1	507309 177742
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 508660, 177727 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 15.00 mg/kg Concentration: Cadmium Measured 1.00 mg/kg Concentration: Chromium Measured 71.90 mg/kg Concentration: Lead Measured 358.70 mg/kg Concentration: Nickel Measured 25.20 mg/kg Concentration:	A19NE (NE)	991	1	508660 177727

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7209 Arsenic Minimum Concentration: 1.00 mg/kg Arsenic Average Concentration: 17.00 mg/kg Arsenic Maximum Concentration: 161.00 mg/kg Cadmium Minimum Concentration: 0.10 mg/kg Cadmium Average Concentration: 0.90 mg/kg Cadmium Maximum Concentration: 165.20 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 79.00 mg/kg Chromium Maximum Concentration: 2094.00 mg/kg Lead Minimum Concentration: 11.00 mg/kg Lead Average Concentration: 280.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 2.00 mg/kg Nickel Average Concentration: 28.00 mg/kg Nickel Maximum Concentration: 506.00 mg/kg	A13NW (W)	0	1	507932 176986
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	507932 176986
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	189	1	507932 176771
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	507932 176986
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	507932 176986
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	507932 176986
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	507932 176986
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	189	1	507932 176771
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	507932 176986
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	189	1	507932 176771
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	195	1	508152 176885

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	A13NW (W)	0	1	507932 176986
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	507932 176986

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	Contemporary Trade Directory Entries Name: Superior Cargo Ltd Location: Axis House, 242, Bath Road, Hayes, Middlesex, UB3 5AY Classification: Airfreight Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	10	-	507973 176971
52	Contemporary Trade Directory Entries Name: Pest Control Support Services Location: 26, Doghurst Avenue, HAYES, Middlesex, UB3 5BJ Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	64	-	507916 177067
53	Contemporary Trade Directory Entries Name: Somerfield Location: Simpson Corner, Bath Rd, Harlington, Hayes, Middlesex, UB3 5AY Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SW (W)	81	-	507806 176954
53	Contemporary Trade Directory Entries Name: Texaco Location: Bath Road, Harlington, Hayes, UB3 5AY Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (W)	91	-	507796 176974
54	Contemporary Trade Directory Entries Name: G E Aircraft Engines Ltd Location: 635, Sipson Road, Sipson, West Drayton, UB7 0JE Classification: Aviation Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	92	-	507803 177037
55	Contemporary Trade Directory Entries Name: Heathrow Airport Location: 234, Bath Road, Harlington, HAYES, Middlesex, UB3 5AP Classification: Airports Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	102	-	508088 176979
55	Contemporary Trade Directory Entries Name: Heathrow Airport Location: 234, Bath Road, Hayes, Middlesex, UB3 5AP Classification: Airports Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	102	-	508088 176979
56	Contemporary Trade Directory Entries Name: Vanderlande Location: 1, Mondial Way, Harlington, Hayes, UB3 5AR Classification: Conveyors & Conveyor Belts Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	146	-	508119 177063
57	Contemporary Trade Directory Entries Name: Time Corporate Business Services Location: 611, Sipson Road, Sipson, West Drayton, UB7 0JD Classification: Car Engine Tuning & Diagnostic Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	175	-	507822 177165
57	Contemporary Trade Directory Entries Name: Executive Airport Parking Location: 611, Sipson Road, Sipson, West Drayton, UB7 0JD Classification: Car Painters & Sprayers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	175	-	507822 177165
58	Contemporary Trade Directory Entries Name: Apc Uk Ltd Location: Aeolian Quartet, 4, Mondial Way, Hayes, Middlesex, UB3 5AR Classification: Power Transmission Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	186	-	508173 177019
59	Contemporary Trade Directory Entries Name: Cameron Ltd Location: Mondial House, 5, Mondial Way, Harlington, Hayes, Middlesex, UB3 5AR Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	237	-	508224 177012

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	Contemporary Trade Directory Entries Name: Cooper Energy Services Location: Mondial House, 5, Mondial Way, Hayes, Middlesex, UB3 5AR Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	237	-	508224 177012
60	Contemporary Trade Directory Entries Name: Skyliner Services Ltd Location: Building 1253,P O Box 10,London Heathrow Airport, Hounslow, Middlesex, TW6 2JA Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NE (SE)	445	-	508251 176633
61	Contemporary Trade Directory Entries Name: Garrards Transport Ltd Location: 130, West End Lane, Harlington, Hayes, Middlesex, UB3 5LY Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18SE (NE)	471	-	508260 177383
61	Contemporary Trade Directory Entries Name: American Auto Services Location: 130, West End Lane, Harlington, Hayes, UB3 5LY Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	480	-	508226 177416
61	Contemporary Trade Directory Entries Name: Garrards Transport (Gtl) Ltd Location: Elder Farm, West End Lane, Harlington, Hayes, Middlesex, UB3 5LY Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	481	-	508226 177417
62	Contemporary Trade Directory Entries Name: Servcity Ltd Location: 9, Triumph Close, Harlington, Hayes, Middlesex, UB3 5BL Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	480	-	508466 177034
63	Contemporary Trade Directory Entries Name: G F S Air Cargo (Uk) Ltd Location: 41, Sipson Way, West Drayton, Middlesex, UB7 0DW Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	526	-	507379 177132
64	Contemporary Trade Directory Entries Name: R J Gale Location: 16, Sipson Way, West Drayton, Middlesex, UB7 0DN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	561	-	507403 177283
65	Contemporary Trade Directory Entries Name: Heathrow Express Location: Cardinal Point, Newall Road, London Heathrow Airport, Hounslow, TW6 2AJ Classification: Railways Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	576	-	508552 176879
66	Contemporary Trade Directory Entries Name: Middlesex Recovery Location: B, 501, Sipson Road, West Drayton, Middlesex, UB7 0JB Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	589	-	507465 177412
67	Contemporary Trade Directory Entries Name: Return Journey Collection Location: 39, Ashby Way, West Drayton, Middlesex, UB7 0JW Classification: Ceramic Manufacturers, Supplies & Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	610	-	507345 177279

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	Contemporary Trade Directory Entries Name: Mendes Commercial Cleaning Services Ltd Location: 96d, West End Lane, Hayes, Middlesex, UB3 5LX Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	619	-	508414 177448
69	Contemporary Trade Directory Entries Name: Mtm Cleaning Location: 25, Mendip Close, Harlington, Hayes, Middlesex, UB3 5LH Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	630	-	508589 177186
69	Contemporary Trade Directory Entries Name: Mtm Mobile Discos Location: 25, Mendip Close, Hayes, Middlesex, UB3 5LH Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	630	-	508589 177186
70	Contemporary Trade Directory Entries Name: West Ramp Coach Park Location: London Heathrow Airport, Hounslow, Middlesex, TW6 2QU Classification: Car Painters & Sprayers Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	639	-	507252 176887
71	Contemporary Trade Directory Entries Name: J B'S Plumbing & Heating Location: 82, Pennine Way, HAYES, Middlesex, UB3 5LP Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	658	-	508589 177266
72	Contemporary Trade Directory Entries Name: South Eastern Fuels Within Hotel Leonardo Location: Sipson Way, Sipson, West Drayton, Middlesex, UB7 0DP Classification: Oil Companies Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	677	-	507210 176963
73	Contemporary Trade Directory Entries Name: Maid 4 U Location: 43, Blunts Avenue, West Drayton, Middlesex, UB7 0DS Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	718	-	507170 177003
74	Contemporary Trade Directory Entries Name: Scrap My Car Now For Money Hays Kws Location: Capital Place, 120, Bath Road, Harlington, Hayes, Middlesex, UB3 5AN Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	779	-	508766 176969
75	Contemporary Trade Directory Entries Name: Mitie Cleaning Services Location: Building 1156, Newall Road, London Heathrow Airport, Hounslow, Middlesex, TW6 2RZ Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	789	-	508759 176830
76	Contemporary Trade Directory Entries Name: I T G Payphones Location: I T G House, 364, High Street, Hayes, Middlesex, UB3 5LF Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	829	-	508796 177180
77	Contemporary Trade Directory Entries Name: Alphonso Auto Centre Location: Unit B, Chambers Business Park, Sipson Road, Sipson, West Drayton, Middlesex, UB7 0HX Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	831	-	507391 177668

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	Contemporary Trade Directory Entries Name: Mason-Thompson Ltd Location: Unit C, Chambers Business Park, Sipson Road, Sipson, West Drayton, UB7 0HX Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A17NE (NW)	836	-	507378 177665
78	Contemporary Trade Directory Entries Name: West London Car Care Centre Location: Providence Lane, Harlington, Hayes, UB3 5EF Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	859	-	508720 177448
78	Contemporary Trade Directory Entries Name: West London Performance Motors Ltd Location: Providence Lane, Harlington, Hayes, UB3 5EF Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	859	-	508720 177448
78	Contemporary Trade Directory Entries Name: West London Performance Motors Location: Providence La, Harlington, Hayes, Middlesex, UB3 5EF Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	889	-	508734 177483
78	Contemporary Trade Directory Entries Name: L H R Car Park Location: High Street, Harlington, Hayes, Middlesex, UB3 5DU Classification: Car Painters & Sprayers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	896	-	508768 177439
79	Contemporary Trade Directory Entries Name: Business Parking Plus Terminal 1 Location: North Perimeter Road, London Heathrow Airport, Hounslow, Middlesex, TW6 2RL Classification: Car Painters & Sprayers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	866	-	507028 176846
80	Contemporary Trade Directory Entries Name: Houseproud Location: 2, Manor Farm, Manor Lane, Harlington, Hayes, Middlesex, UB3 5EG Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	897	-	508617 177639
81	Contemporary Trade Directory Entries Name: General Waste Location: 442, Sipson Road, Sipson, West Drayton, Middlesex, UB7 0HY Classification: Scrap Yards Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	908	-	507288 177685
81	Contemporary Trade Directory Entries Name: Modern Builds.Com Location: 436, Sipson Road, Sipson, West Drayton, Middlesex, UB7 0HY Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	923	-	507285 177702
82	Contemporary Trade Directory Entries Name: M E L S Ltd Location: 216, Northrop Road, London Heathrow Airport, Hounslow, Middlesex, TW6 2RS Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	918	-	508897 176875
83	Contemporary Trade Directory Entries Name: Multi Choice Mower Location: 1, Gees Court, 371a High St, Harlington, Hayes, Middlesex, UB3 5DQ Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	928	-	508824 177401

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	Contemporary Trade Directory Entries Name: Delite Blinds Location: 371a, High Street, Hayes, Middlesex, UB3 5DQ Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	965	-	508854 177425
83	Contemporary Trade Directory Entries Name: C P Packaging Suppliers Ltd Location: 371a, High Street, Hayes, Middlesex, UB3 5DQ Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	965	-	508854 177425
83	Contemporary Trade Directory Entries Name: The London Meat Co Location: 371a, High Street, Harlington, Hayes, Middlesex, UB3 5DQ Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	965	-	508854 177425
84	Contemporary Trade Directory Entries Name: London Concrete Location: Sipson Quarry, Sipson Lane, Harlington, Hayes, Middlesex, UB3 5EJ Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Manually positioned within the geographical locality	A19NW (NE)	932	-	508480 177790
85	Contemporary Trade Directory Entries Name: Transport Logistic Services Location: Bath Rd, West Drayton, Middlesex, UB7 0DB Classification: Freight Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	934	-	506955 176898
86	Contemporary Trade Directory Entries Name: Envirolec Electrical & Renewable Energy Contractors Location: 337, High Street, Harlington, Hayes, Middlesex, UB3 5DQ Classification: Electrical goods - servicing & repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	937	-	508770 177514
86	Contemporary Trade Directory Entries Name: Harlington Carpet Cleaners Location: 26, Manse Close, Harlington, Hayes, Middlesex, UB3 5ED Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	967	-	508787 177544
87	Contemporary Trade Directory Entries Name: Exchange Gearboxes Ltd Location: 228, High Street, Harlington, Hayes, Middlesex, UB3 5DS Classification: Gearboxes Status: Active Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	943	-	508679 177640
87	Contemporary Trade Directory Entries Name: Premier Dryclean & Laundry Location: 210, High Street, Harlington, Hayes, Middlesex, UB3 5DS Classification: Dry Cleaners Status: Active Positional Accuracy: Manually positioned to the address or location	A19NE (NE)	967	-	508666 177688
88	Contemporary Trade Directory Entries Name: Aviation Fuel Services Ltd Location: Calshot Way, London Heathrow Airport, Hounslow, TW6 1PY Classification: Oil Fuel Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	946	-	507450 176122
89	Contemporary Trade Directory Entries Name: Claire Air Sea Cargo Ltd Location: Bath Road, West Drayton, Middlesex, UB7 0DB Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	956	-	506930 176972
89	Contemporary Trade Directory Entries Name: Clare Air Sea Cargo Ltd Location: Bath Road, West Drayton, Middlesex, UB7 0DB Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	956	-	506930 176972

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	Contemporary Trade Directory Entries Name: Komfort Services Location: 7, Sipson Lane, Harlington, Hayes, Middlesex, UB3 5EH Classification: Boxes & Cartons Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	964	-	508650 177700
91	Contemporary Trade Directory Entries Name: Car To Scrap Location: 77, Hudson Road, Harlington, Hayes, Middlesex, UB3 5EN Classification: Car Breakers & Dismantlers Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	968	-	508571 177772
92	Contemporary Trade Directory Entries Name: Yonder International Ltd Location: Suite 6 Swinfield, Hounslow, Middlesex, TW6 1YH Classification: Freight Forwarders Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	979	-	507339 176150
93	Contemporary Trade Directory Entries Name: Sipson Coachworks Ltd Location: Sipson Lane, West Drayton, Middlesex, UB7 0JG Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (N)	997	-	507559 177944
94	Fuel Station Entries Name: Co-Op Harlington Location: Bath Road Sipson Road, Harlington, West Drayton, Outer London, UB3 5AY Brand: Texaco Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A13SW (W)	81	-	507806 176977
95	Fuel Station Entries Name: Heathrow North Diesel Automat Location: Newall Road, Cranford, Hounslow, Outer London, TW6 2RZ Brand: Prax Premises Type: Petrol Station Status: Non-Retail Positional Accuracy: Manually positioned within the geographical locality	A14SE (E)	754	-	508721 176823
96	Points of Interest - Commercial Services Name: Car Wash Location: Bath Road, Sipson Road, Harlington, West Drayton, Middlesex, UB3 5AY Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13SW (W)	81	5	507806 176977
96	Points of Interest - Commercial Services Name: Co-Op Harlington Location: Bath Road, Sipson Road, Harlington, West Drayton, UB3 5AY Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13NW (W)	110	5	507779 177003
97	Points of Interest - Commercial Services Name: Sky Diamond Within Renaissance Hotel Location: Bath Road, Heathrow, Hounslow, TW6 2AQ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13SE (SE)	130	5	508044 176872
98	Points of Interest - Commercial Services Name: Samsonite Ltd Location: Samsonite House 4, Mondial Way, Harlington, Hayes, UB3 5AR Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NE (E)	186	5	508173 177019
99	Points of Interest - Commercial Services Name: Scandinavian Airlines Cargo Location: 1 World Business Centre Heathrow, Newall Road, London Heathrow Airport, Hounslow, TW6 2RE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SE (E)	305	5	508271 176883

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	Points of Interest - Commercial Services Name: American Auto Services Location: Elder Farm, 130 West End La, Harlington, Hayes, Middlesex, UB3 5LY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (NE)	480	5	508226 177416
100	Points of Interest - Commercial Services Name: R J G Classics Location: Unit 1 130 West End La, Harlington, Hayes, Middlesex, UB3 5LY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (NE)	480	5	508226 177416
100	Points of Interest - Commercial Services Name: American Auto Services Location: 130 West End Lane, Harlington, Hayes, UB3 5LY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (NE)	480	5	508226 177416
100	Points of Interest - Commercial Services Name: Auto Interiors of London Location: 130 West End Lane, Harlington, Hayes, UB3 5LY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (NE)	480	5	508226 177416
100	Points of Interest - Commercial Services Name: Auto Interiors of London Location: 130 West End Lane, Hayes, UB3 5LY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SE (NE)	481	5	508226 177417
100	Points of Interest - Commercial Services Name: Garrards Transport Ltd Location: Unit 3 Elder Farm Business Complex, West End Lane, Harlington, Hayes, UB3 5LY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A18SE (NE)	481	5	508226 177417
100	Points of Interest - Commercial Services Name: Garrards Transport Ltd Location: Unit 3 Elder Farm, West End Lane, Harlington, Hayes, Middlesex, UB3 5LY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A18SE (NE)	481	5	508226 177417
101	Points of Interest - Commercial Services Name: Collectors Car Parts Location: 43-45 Sipson Way, Sipson, West Drayton, UB7 0DW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (W)	522	5	507380 177120
101	Points of Interest - Commercial Services Name: G F S Air Cargo (UK) Ltd Location: 41 Sipson Way, West Drayton, UB7 0DW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12NE (W)	526	5	507379 177132
102	Points of Interest - Commercial Services Name: Dimerco Express UK Ltd Location: Capital Place 120, Bath Road, Harlington, Hayes, UB3 5AN Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SE (E)	779	5	508766 176969
103	Points of Interest - Commercial Services Name: Shiners Location: 5 Warner Close, Harlington, Hayes, UB3 5LG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NE (E)	801	5	508758 177219

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	Points of Interest - Commercial Services Name: Alphonso Auto Centre Location: Unit B Chambers Business Park, Sipson Road, Sipson, West Drayton, UB7 0HX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	831	5	507391 177668
104	Points of Interest - Commercial Services Name: Alphonso Auto Centre Location: Unit B Chambers Business Park, Sipson Road, Sipson, West Drayton, UB7 0HX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	831	5	507391 177668
104	Points of Interest - Commercial Services Name: Mason-Thompson Ltd Location: Unit C Chambers Business Park, Sipson Road, Sipson, West Drayton, UB7 0HX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	836	5	507379 177666
104	Points of Interest - Commercial Services Name: Mason-thompson Ltd Location: Unit C Chambers Business Park, Sipson Road, Sipson, West Drayton, UB7 0HX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	836	5	507378 177665
104	Points of Interest - Commercial Services Name: Mason-thompson Ltd Location: Unit C Chambers Business Park, Sipson Road, Sipson, West Drayton, UB7 0HX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	836	5	507379 177666
104	Points of Interest - Commercial Services Name: Alan John Willoughby Location: 401 Sipson Road, Sipson, West Drayton, UB7 0HY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17NE (NW)	920	5	507315 177722
105	Points of Interest - Commercial Services Name: West London Car Care Centre Location: Providence Lane, Harlington, Hayes, UB3 5EF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	860	5	508711 177465
105	Points of Interest - Commercial Services Name: Harlington Car Repair Centre Location: Providence Lane, Harlington, Hayes, UB3 5EF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	860	5	508723 177446
105	Points of Interest - Commercial Services Name: West London Performance Motors Ltd Location: Providence Lane, Harlington, Hayes, UB3 5EF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	870	5	508717 177473
106	Points of Interest - Commercial Services Name: General Waste Location: 442 Sipson Road, Sipson, West Drayton, UB7 0HY Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A17NE (NW)	908	5	507288 177685
107	Points of Interest - Commercial Services Name: Exchange Gear Boxes Location: 228 High Street, Harlington, Hayes, UB3 5DS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	943	5	508679 177640

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	Points of Interest - Commercial Services Name: Car to Scrap Location: 77 Hudson Road, Harlington, Hayes, UB3 5EN Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A19NW (NE)	968	5	508570 177772
109	Points of Interest - Manufacturing and Production Name: Regus Plc Location: World Business Centre Heathrow, Newall Road, London Heathrow Airport, Hounslow, Middlesex, TW6 2RJ Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A13SE (E)	305	5	508271 176883
109	Points of Interest - Manufacturing and Production Name: World Business Centre Location: TW6 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	348	5	508306 176855
110	Points of Interest - Manufacturing and Production Name: Tank Location: UB3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	557	5	508238 177497
110	Points of Interest - Manufacturing and Production Name: Quarry Location: UB3 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	596	5	508322 177492
111	Points of Interest - Manufacturing and Production Name: Quarry Location: UB3 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	744	5	508095 177735
112	Points of Interest - Manufacturing and Production Name: Tanks Location: TW6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	804	5	507096 176815
113	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)	844	5	507386 177681
113	Points of Interest - Manufacturing and Production Name: Works Location: UB7 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	846	5	507382 177680
114	Points of Interest - Manufacturing and Production Name: Quarry Location: UB3 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	859	5	508526 177669
115	Points of Interest - Manufacturing and Production Name: Tank Location: TW6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	864	5	508837 176839
116	Points of Interest - Manufacturing and Production Name: Airport Gate Business Centre Location: UB7 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	869	5	507018 176964

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	Points of Interest - Manufacturing and Production Name: Tanks Location: UB7 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	938	5	506950 177007
116	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	A12SW (W)	954	5	506933 176974
116	Points of Interest - Manufacturing and Production Name: Works Location: UB7 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	960	5	506927 176977
117	Points of Interest - Manufacturing and Production Name: Gravel Pit Location: UB7 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	879	5	507097 177386
118	Points of Interest - Manufacturing and Production Name: Tanks Location: TW6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	951	5	506947 176813
119	Points of Interest - Manufacturing and Production Name: Gravel Pit Location: UB7 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	962	5	507090 177540
120	Points of Interest - Manufacturing and Production Name: Tank Location: UB3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19NW (N)	964	5	508278 177918
121	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	A12NW (W)	966	5	506927 177095
121	Points of Interest - Manufacturing and Production Name: Works Location: UB7 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11NE (W)	971	5	506922 177094
122	Points of Interest - Public Infrastructure Name: Texaco Location: Bath Road, Harlington, Hayes, UB3 5AY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (W)	81	5	507806 176977
122	Points of Interest - Public Infrastructure Name: Texaco Location: Bath Road, Harlington, Hayes, UB3 5AY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (W)	81	5	507806 176977
122	Points of Interest - Public Infrastructure Name: Somerfield London Harlington 3351-4 Location: Bath Road, Hayes, UB3 5AY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (W)	81	5	507807 176977

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	Points of Interest - Public Infrastructure Name: Texaco Location: Bath Road, Sipson Road, Harlington, West Drayton, UB3 5AY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (W)	81	5	507806 176977
123	Points of Interest - Public Infrastructure Name: Heathrow Airport Operations Communications Team Location: 234 Bath Road, Harlington, Hayes, UB3 5AP Category: Air Class Code: Airports and Landing Strips Positional Accuracy: Positioned to address or location	A13SE (E)	102	5	508088 176979
123	Points of Interest - Public Infrastructure Name: Heathrow Airport Location: 234 Bath Road, Harlington, Hayes, UB3 5AP Category: Air Class Code: Airports and Landing Strips Positional Accuracy: Positioned to address or location	A13SE (E)	102	5	508088 176979
123	Points of Interest - Public Infrastructure Name: B A A Plc Location: 234 Bath Road, Harlington, Hayes, UB3 5AP Category: Air Class Code: Airports and Landing Strips Positional Accuracy: Positioned to address or location	A13SE (E)	102	5	508088 176979
124	Points of Interest - Public Infrastructure Name: Heathrow Airport Police Station Location: Northside, London Heathrow Airport, Hounslow, TW6 2DJ Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SW (W)	176	5	507716 176917
124	Points of Interest - Public Infrastructure Name: Metropolitan Police Service Heathrow Airport Location: Northside, London Heathrow Airport, Hounslow, TW6 2DJ Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13SW (W)	176	5	507716 176917
125	Points of Interest - Public Infrastructure Name: Heathrow Fire Station Location: Heathrow Fire Station Building 450, Northern Perimeter Road, London Heathrow Airport, Hounslow, TW6 2RR Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A12SW (W)	766	5	507134 176818
126	Points of Interest - Public Infrastructure Name: Onyx Ltd Location: Building 1156, Newall Road, London Heathrow Airport, Hounslow, TW6 2RZ Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14SE (E)	789	5	508759 176830
127	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	A14NW (NE)	368	5	508280 177223
127	Points of Interest - Recreational and Environmental Name: Playground Location: Browngraves Road, UB3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	368	5	508280 177222
128	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 (W)	559	5	507339 177106
128	Points of Interest - Recreational and Environmental Name: Playground Location: Sipson Way, UB7 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	559	5	507339 177106

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	Areas of Adopted Green Belt Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan Status: Adopted Plan Date: 30th September 1998	A13NE (N)	139	6	507942 177150
130	Areas of Adopted Green Belt Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan Status: Adopted Plan Date: 30th September 1998	A17SE (NW)	540	6	507522 177400
131	Areas of Adopted Green Belt Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan Status: Adopted Plan Date: 30th September 1998	A12NW (W)	693	6	507243 177255
132	Areas of Adopted Green Belt Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan Status: Adopted Plan Date: 30th September 1998	A14NE (E)	852	6	508832 177109
133	Areas of Adopted Green Belt Authority: London Borough of Hillingdon Plan Name: Hillingdon Unitary Development Plan Status: Adopted Plan Date: 30th September 1998	A18NE (N)	861	6	508108 177853
134	Nitrate Vulnerable Zones Name: Colne And Guc (From Confluence With Chess To Ash) Nvz Description: Surface Water Source: Environment Agency, Head Office	A12NW (W)	696	8	507240 177255

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Spelthorne Borough Council - Environmental Health Department Royal Windsor and Maidenhead Unitary Council - Environmental Health Department Slough Borough Council - Environmental Protection London Borough of Hillingdon - Environmental Protection Unit London Borough of Hounslow - Contaminated Land Section London Borough of Ealing - Environmental Health and Trading Standards Division South Buckinghamshire District Council - Environmental Health Department	April 2014 August 2013 February 2018 March 2015 May 2014 October 2013 October 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	January 2018	Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	As notified
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	January 2018 January 2018 January 2018	Quarterly Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control London Borough of Hillingdon - Environmental Health Department Spelthorne Borough Council - Environmental Health Department London Borough of Hounslow - Environmental Health Department Royal Windsor and Maidenhead Unitary Council - Environmental Health Department London Borough of Ealing - Environmental Health and Trading Standards Division Slough Borough Council - Environmental Health Department South Buckinghamshire District Council - Environmental Health Department	August 2014 December 2014 February 2013 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 Spelthorne Borough Council - Environmental Health Department London Borough of Hounslow - Environmental Health Department Royal Windsor and Maidenhead Unitary Council - Environmental Health Department London Borough of Ealing - Environmental Health and Trading Standards Division Slough Borough Council - Environmental Health Department South Buckinghamshire District Council - Environmental Health Department	August 2014 December 2014 February 2013 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 Spelthorne Borough Council - Environmental Health Department London Borough of Hounslow - Environmental Health Department Royal Windsor and Maidenhead Unitary Council - Environmental Health Department London Borough of Ealing - Environmental Health and Trading Standards Division Slough Borough Council - Environmental Health Department South Buckinghamshire District Council - Environmental Health Department	August 2014 December 2014 February 2013 January 2015 July 2015 June 2014 September 2014	Variable Variable Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Thames Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - Thames Region	January 2015	
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 Environment Agency - Thames Region - South East Area	January 2018 January 2018 January 2018 January 2018	Quarterly Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Thames Region	January 2018	Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	January 2018	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2018	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2018	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2018	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2018	Quarterly
Flood Defences Environment Agency - Head Office	February 2018	Quarterly
OS Water Network Lines Ordnance Survey	January 2018	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	January 2018	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Thames Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - North East Thames Area Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - North East Area Environment Agency - Thames Region - South East Area	January 2018 January 2018 January 2018 January 2018	Quarterly 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 Environment Agency - Thames Region - South East Area	January 2018 January 2018 January 2018 January 2018	Quarterly Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Buckinghamshire County Council London Borough of Ealing London Borough of Hillingdon - Environmental Health Department London Borough of Hounslow - Environmental Health Department Royal Windsor and Maidenhead Unitary Council - Planning Policy Unit Slough Borough Council South Buckinghamshire District Council Spelthorne Borough Council - Environmental Health Department Surrey County Council	May 2000 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 Not Applicable
Local Authority Recorded Landfill Sites South Buckinghamshire District Council Buckinghamshire County Council London Borough of Ealing London Borough of Hillingdon - Environmental Health Department London Borough of Hounslow - Environmental Health Department Royal Windsor and Maidenhead Unitary Council - Planning Policy Unit Slough Borough Council Spelthorne Borough Council - Environmental Health Department Surrey County Council	August 2006 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 September 2003	Not Applicable 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 Environment Agency - Thames Region - South East Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Thames Region - North East Area Environment Agency - Thames Region - South East Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Thames Region - North East Area Environment Agency - Thames Region - South East Area	June 2015 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2017	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Buckinghamshire County Council London Borough of Ealing London Borough of Hounslow Slough Borough Council - Development & Consumer Protection Dep. South Buckinghamshire District Council - Development Control Department Spelthorne Borough Council - Planning Department Surrey County Council London Borough of Hillingdon Royal Windsor and Maidenhead Unitary Council	February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 January 2016 October 2015	Variable Variable Variable Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Buckinghamshire County Council London Borough of Ealing London Borough of Hounslow Slough Borough Council - Development & Consumer Protection Dep. South Buckinghamshire District Council - Development Control Department Spelthorne Borough Council - Planning Department Surrey County Council London Borough of Hillingdon Royal Windsor and Maidenhead Unitary Council	February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 January 2016 October 2015	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	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2017	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	October 2015	As notified
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
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	June 2015	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

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

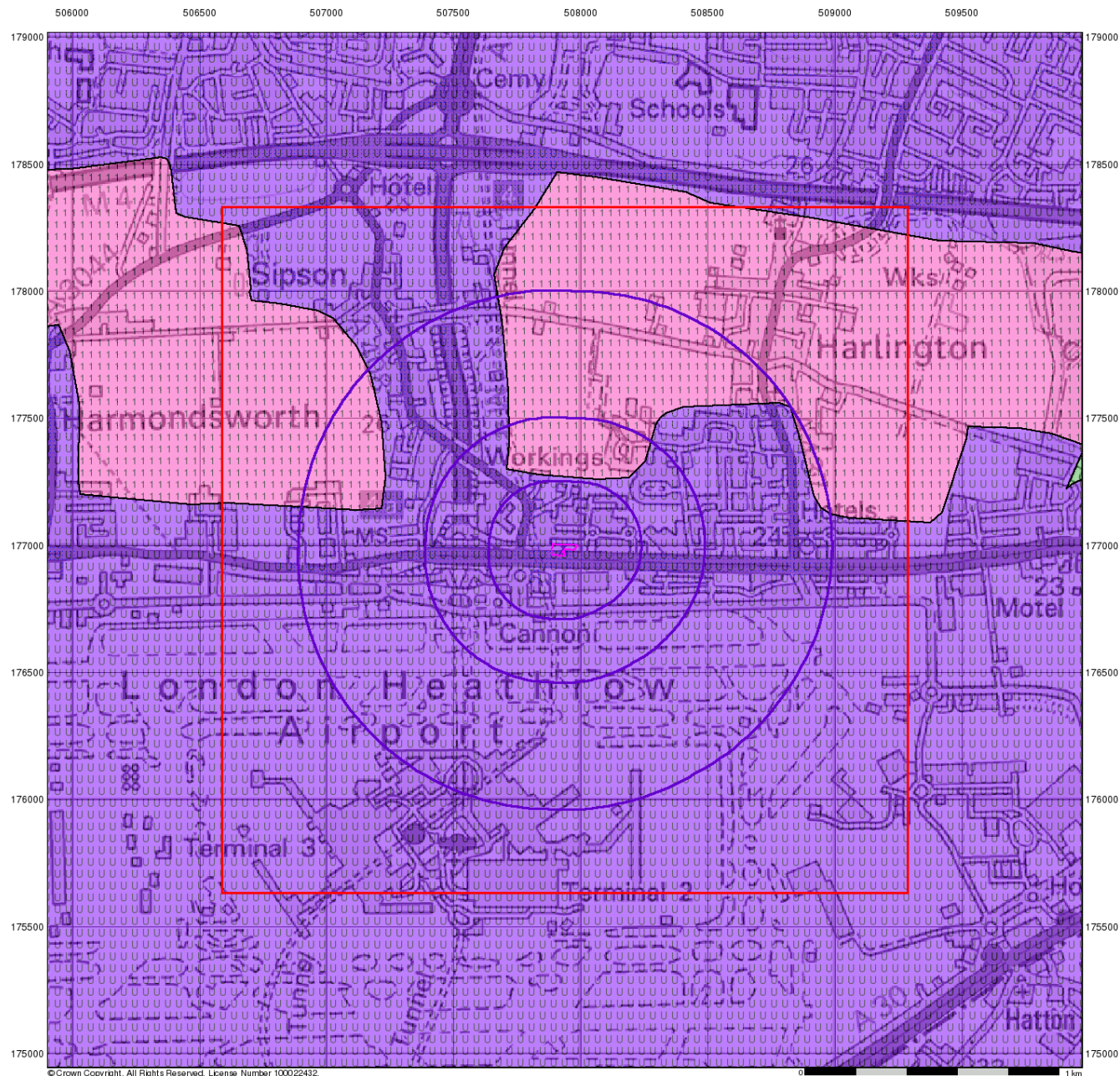
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	October 2017	Bi-Annually
Areas of Adopted Green Belt London Borough of Ealing London Borough of Hillingdon London Borough of Hounslow Royal Windsor and Maidenhead Unitary Council Slough Borough Council South Buckinghamshire District Council - Development Control Department Spelthorne Borough Council	February 2018 February 2018 February 2018 February 2018 February 2018 February 2018 February 2018	As notified As notified As notified As notified As notified As notified As notified
Areas of Unadopted Green Belt London Borough of Ealing London Borough of Hillingdon London Borough of Hounslow Royal Windsor and Maidenhead Unitary Council Slough Borough Council South Buckinghamshire District Council - Development Control Department Spelthorne Borough Council	February 2018 February 2018 February 2018 February 2018 February 2018 February 2018 February 2018	As notified As notified As notified As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	February 2018	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2018	Bi-Annually
Marine Nature Reserves Natural England	January 2018	Bi-Annually
National Nature Reserves Natural England	February 2018	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	February 2018	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2018	Bi-Annually
Special Areas of Conservation Natural England	January 2018	Bi-Annually
Special Protection Areas Natural England	February 2018	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	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	London Borough of Hillingdon - Environmental Health Department Civic Centre, High Street, Uxbridge, Middlesex, UB8 1UW	Telephone: 01895 250111 Fax: 01895 277443 Website: www.hillingdon.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
6	London Borough of Hillingdon Civic Centre, High Street, Uxbridge, Middlesex, UB8 1UW	Telephone: 01895 250111 Fax: 01895 250830 Website: www.hillingdon.gov.uk
7	London Borough of Hounslow Civic Centre, Lampton Road, Hounslow, Middlesex, TW3 4DN	Telephone: 020 8862 5970 Fax: 020 8862 5801 Website: www.hounslow.gov.uk
8	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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0 1 km



Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer (Highly Permeable)

Minor Aquifer (Variably Permeable)

Non Aquifer (Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

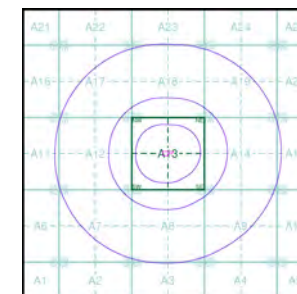
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

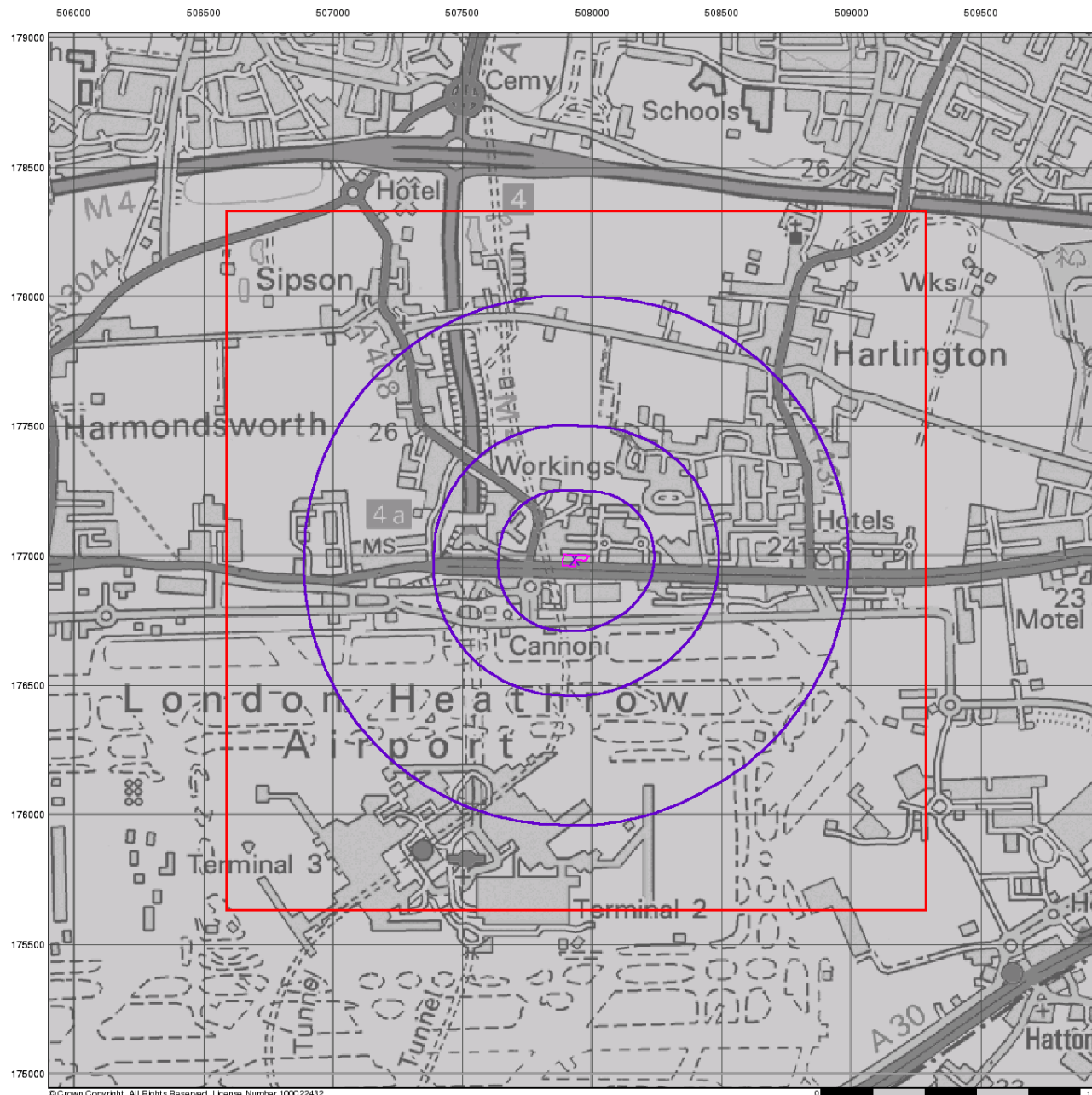
Order Number: 160780146_1_1
 Customer Ref: RML 6606
 National Grid Reference: 507930, 176990
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY



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Bedrock Aquifer Designation

General

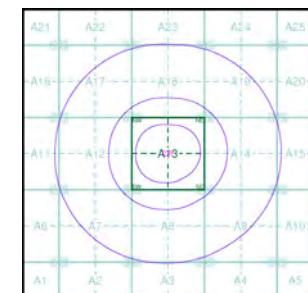
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

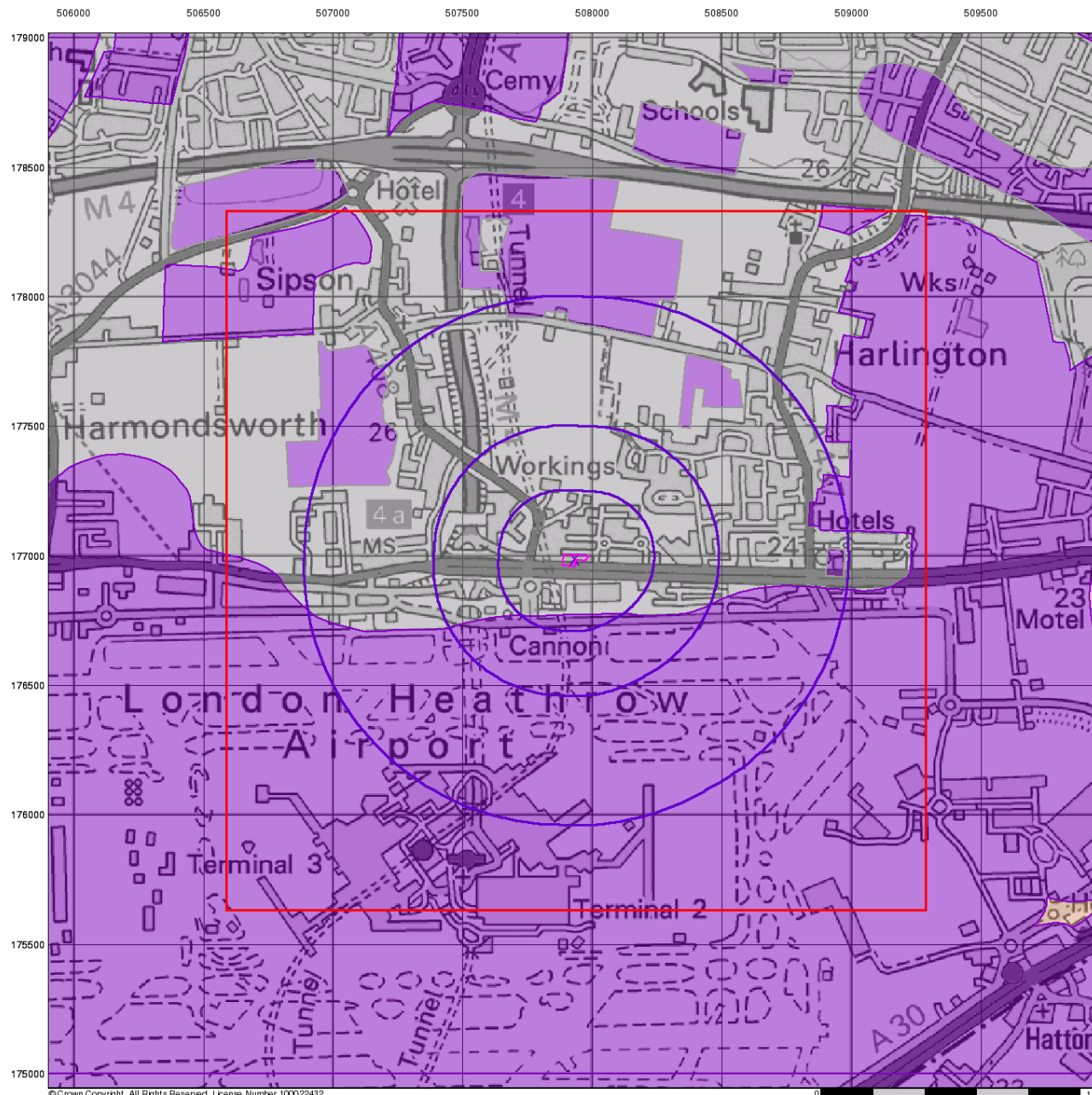
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 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

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0 1 km



Superficial Aquifer Designation

General

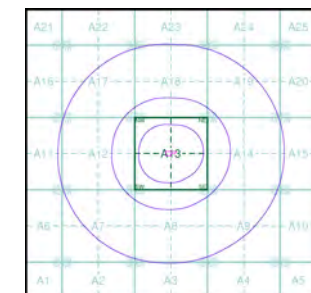
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

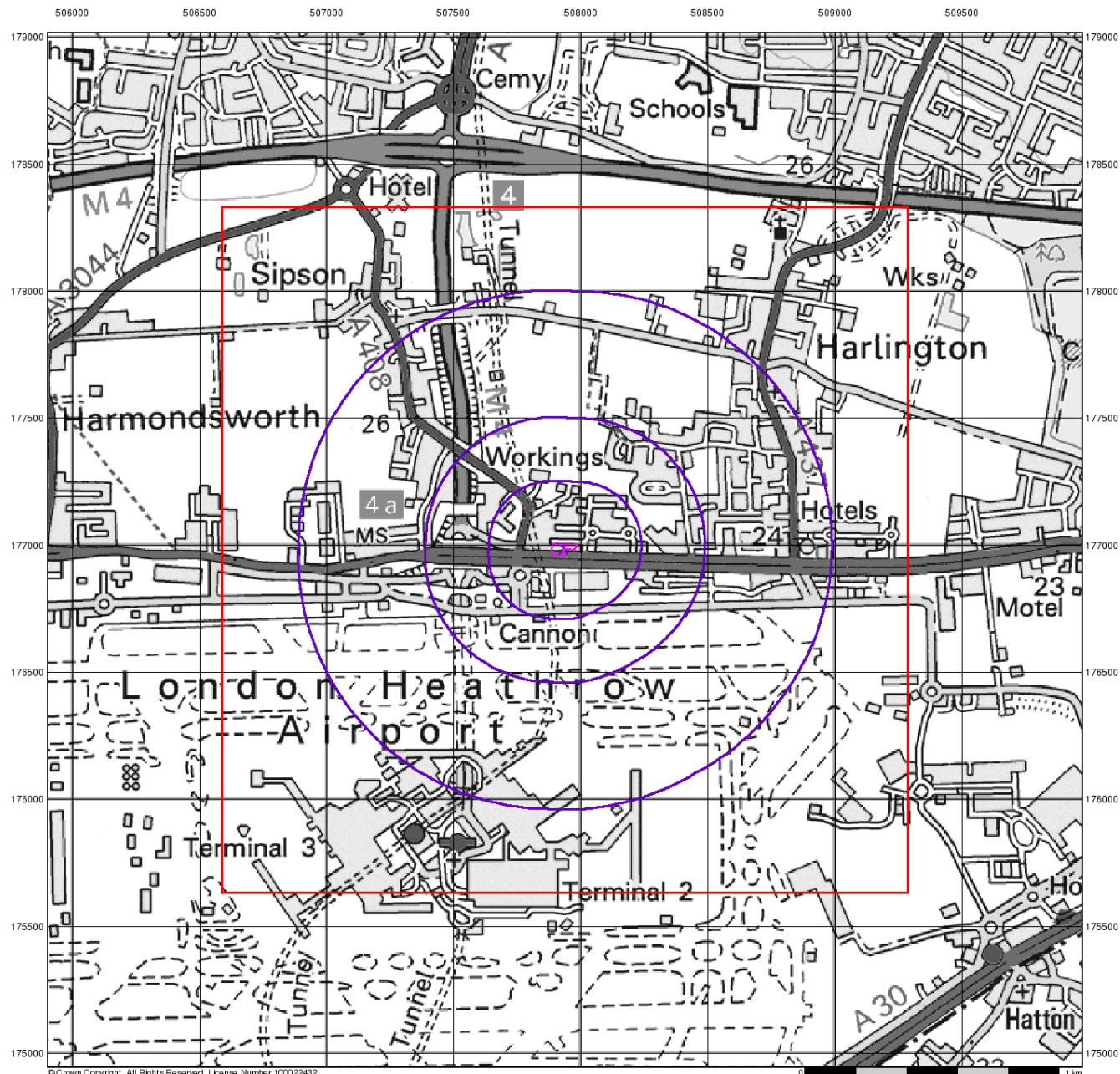
Order Number: 160780146_1_1
 Customer Ref: RML 6606
 National Grid Reference: 507930, 176990
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

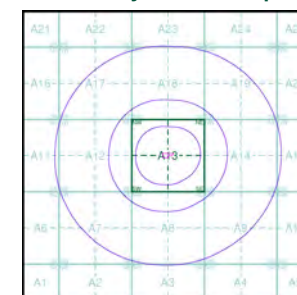
General

- Specified Site ○ Specified Buffer(s) X Bearing Reference Point
- Slice 8 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

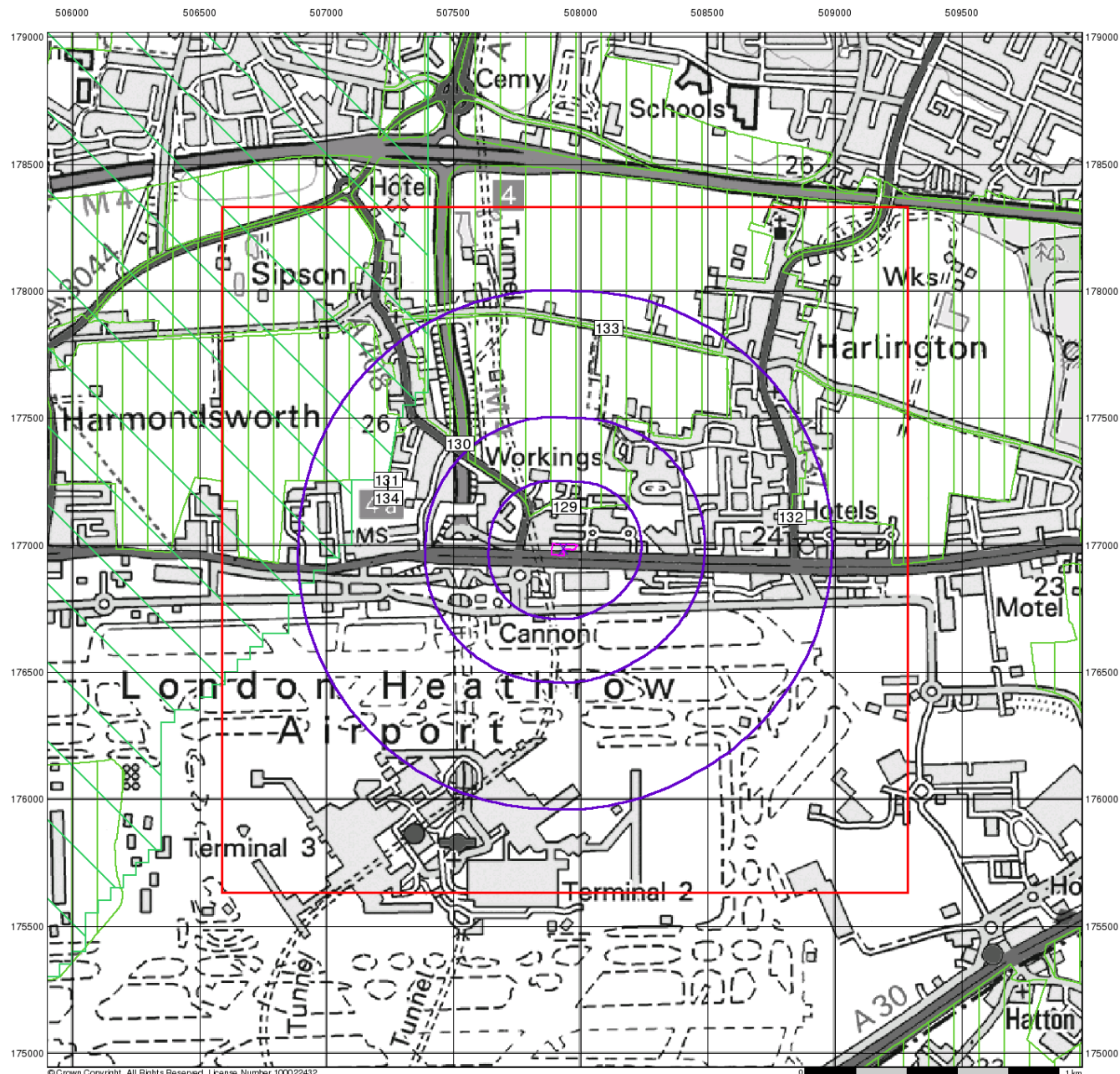
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 Search Buffer (m): 1000

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Sensitive Land Uses

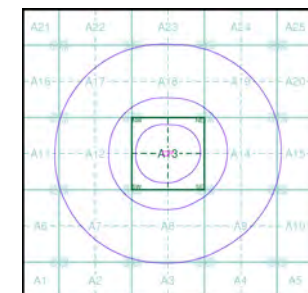
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

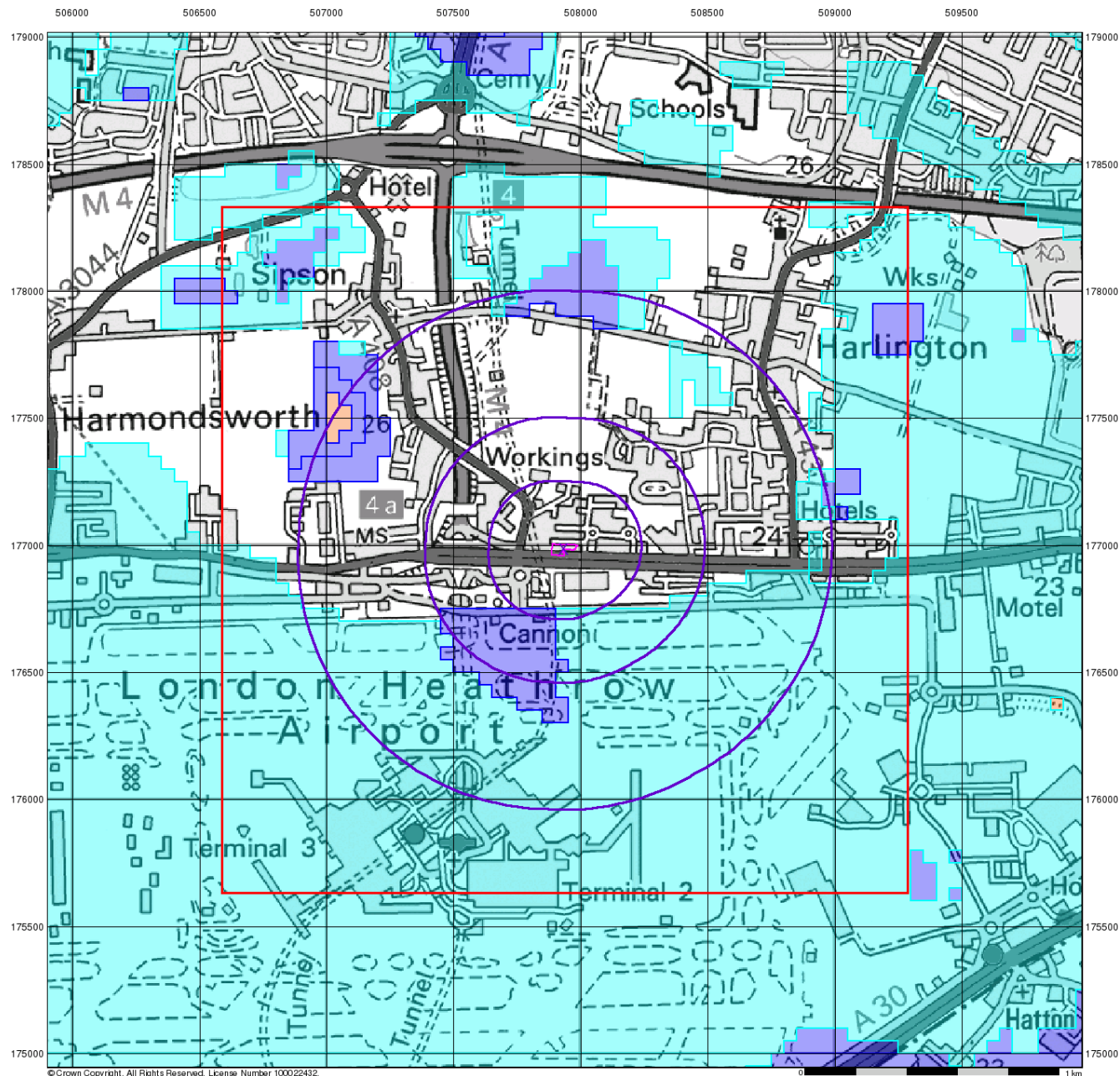
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 National Grid Reference: 507930, 176990
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

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Risk Management

BGS Flood GFS Data

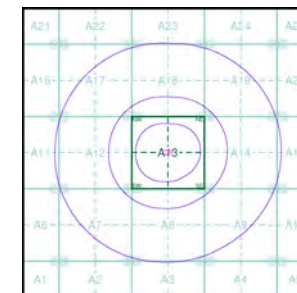
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

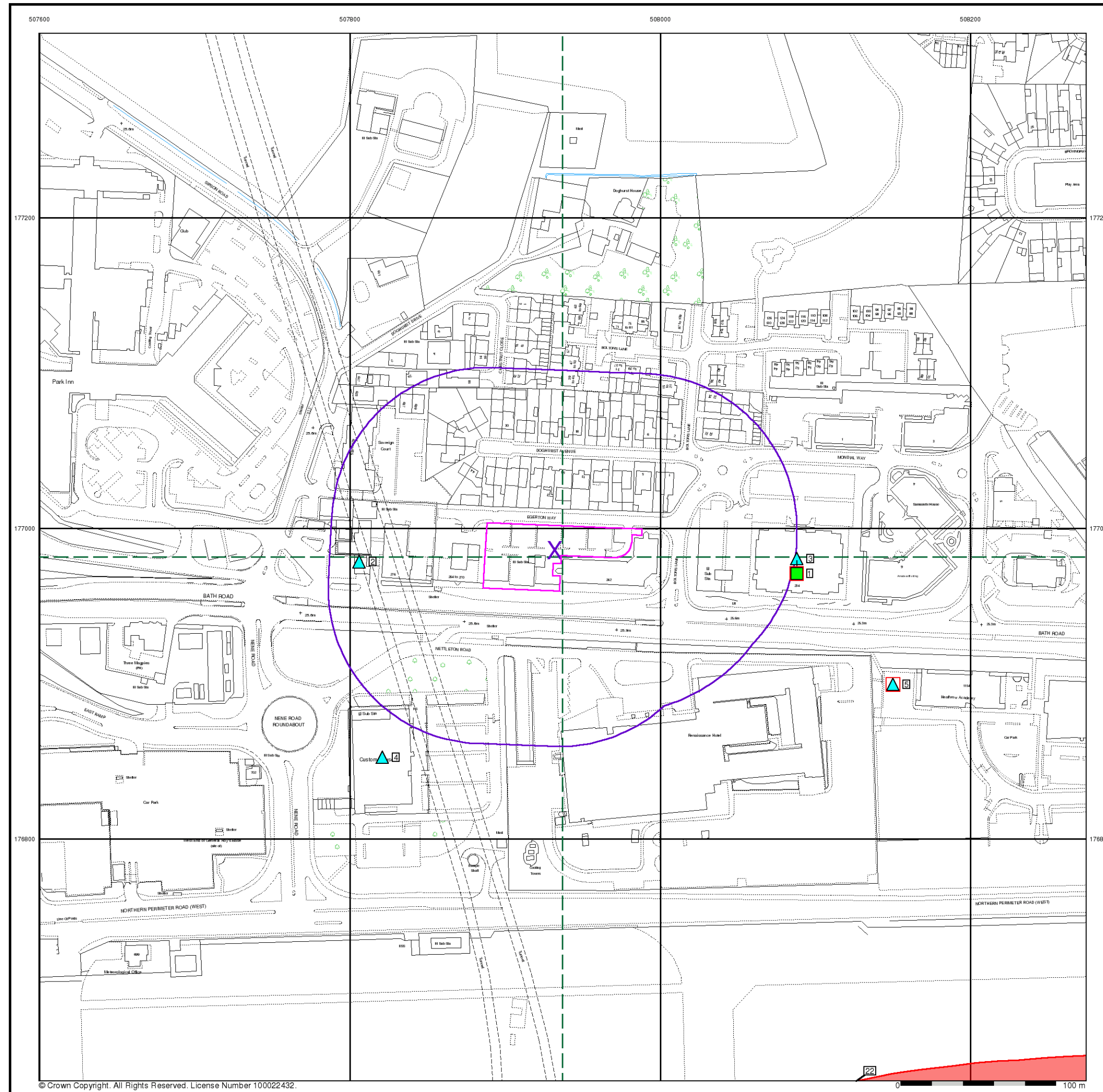
Order Number: 160780146_1_1
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 National Grid Reference: 507930, 176990
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

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Landmark
 INFORMATION GROUP

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

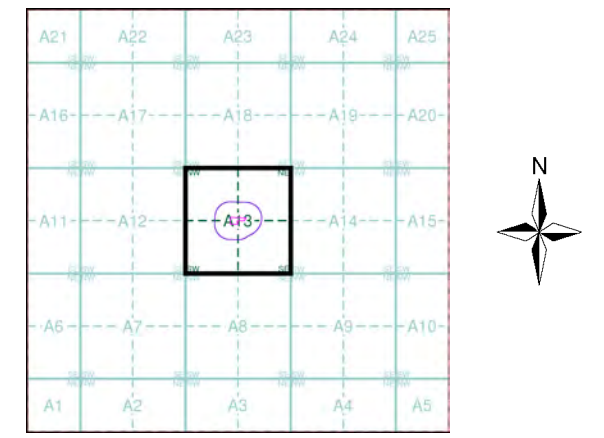


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Risk Management

- General**
 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Types at Location
 - Pylon
 - Overhead Transmission Line
- Agency and Hydrological**
 - Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Hazardous Substances**
 - COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Waste**
 - BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A13



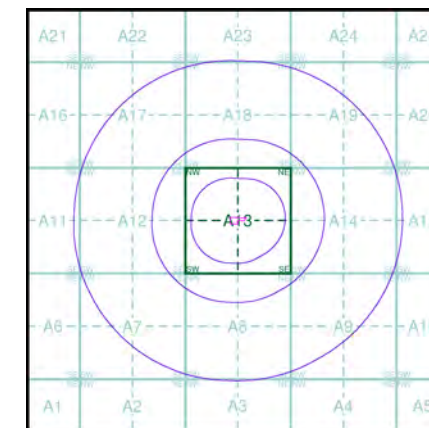
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Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Plot Buffer (m): 100

Site Details
L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY

Risk Management

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



Order Details

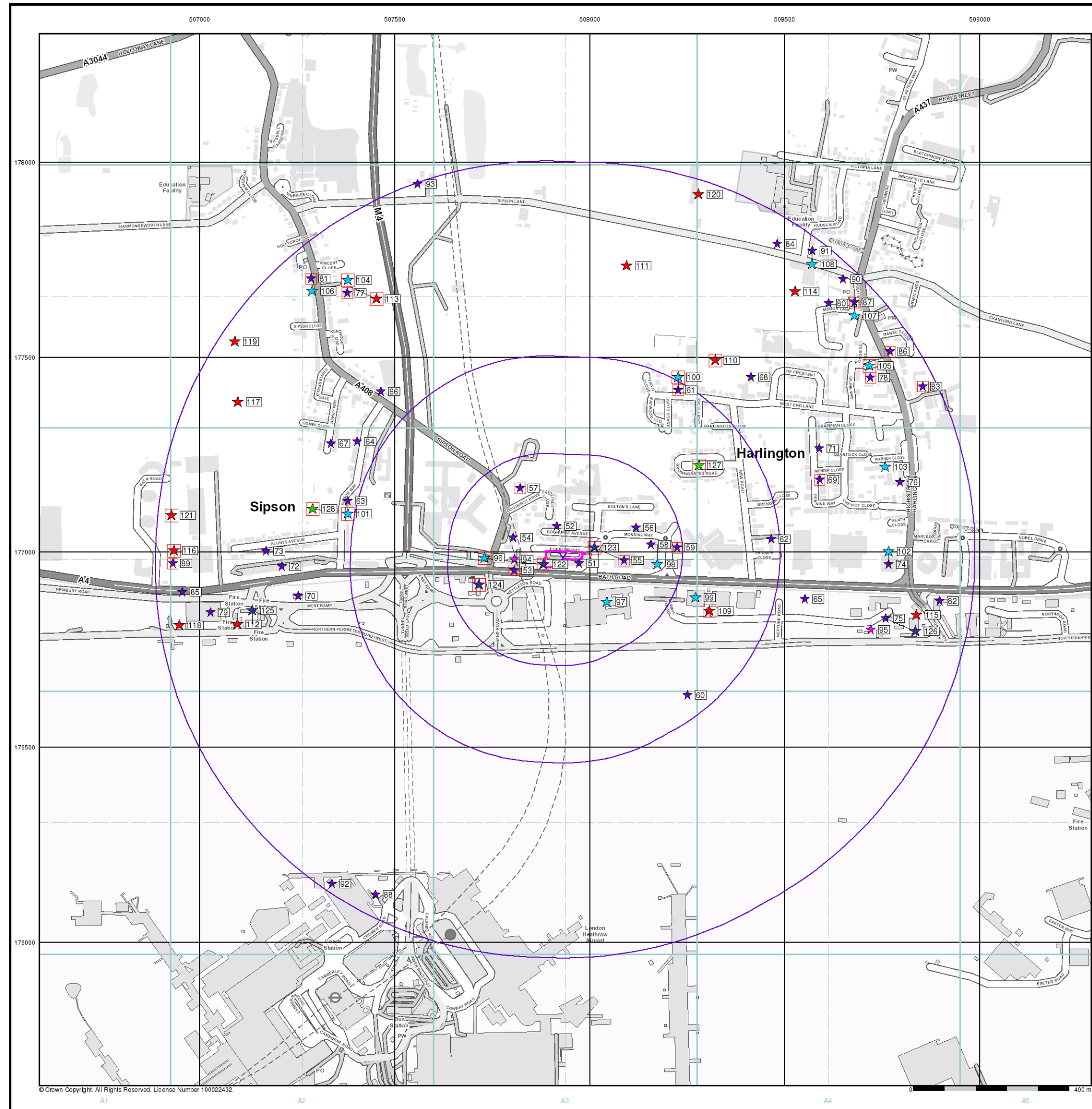
Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY

Landmark
INFORMATION GROUP

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



Risk Management

Industrial Land Use Map

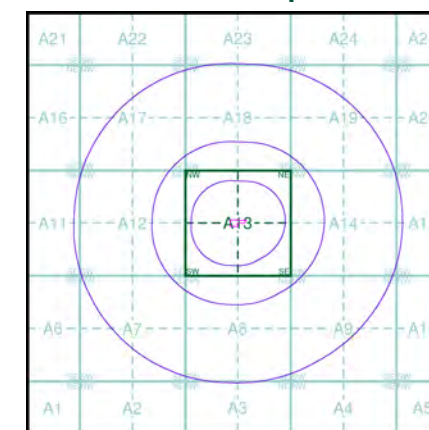
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

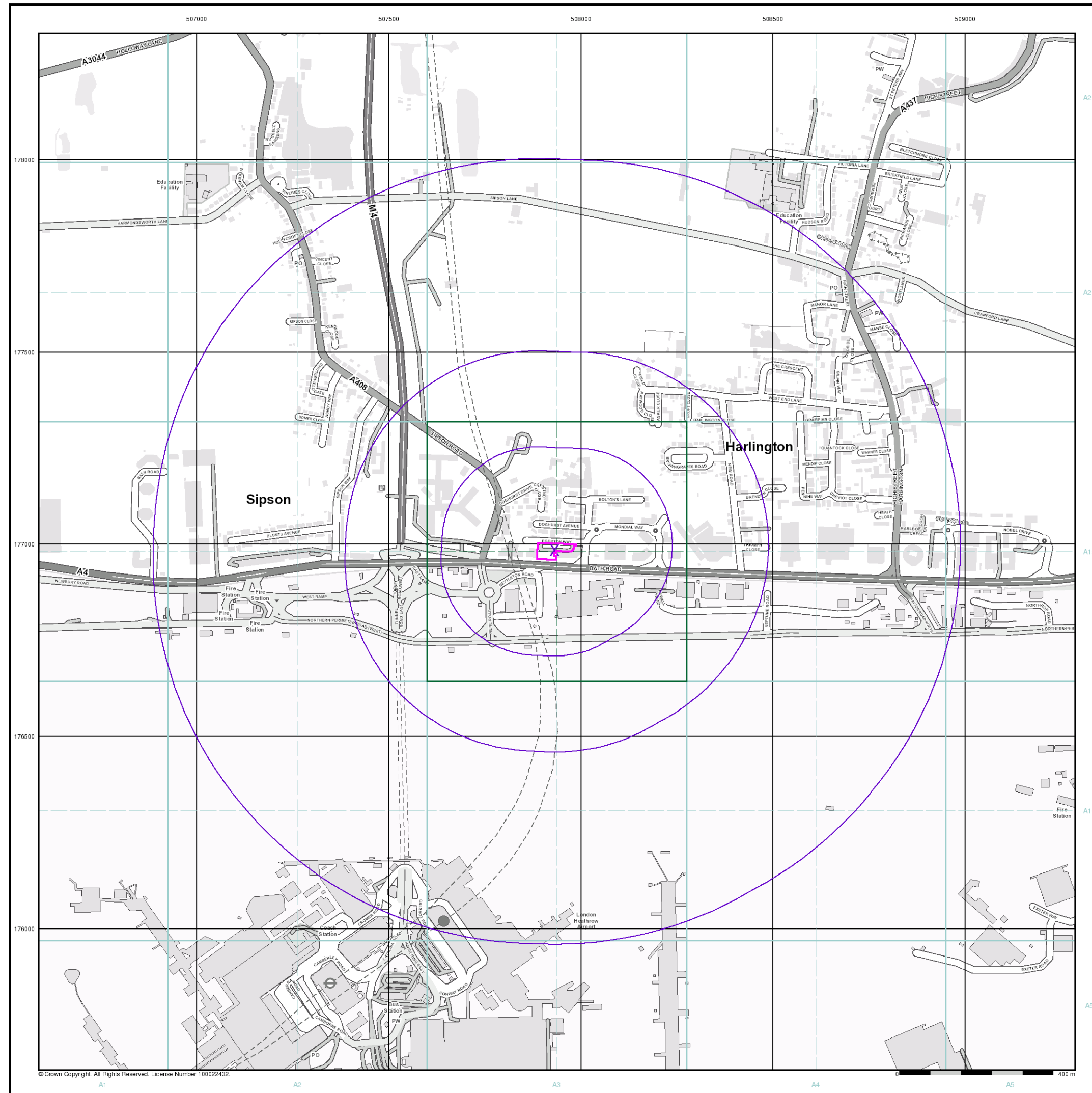
Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY

Landmark
INFORMATION GROUP

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



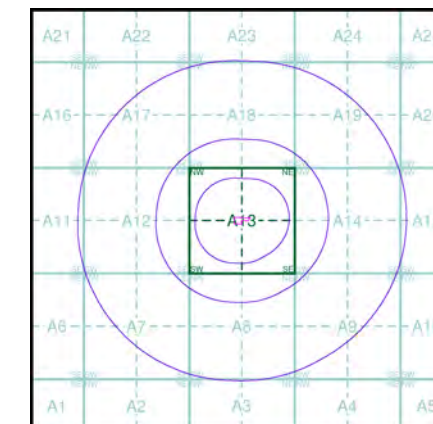
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

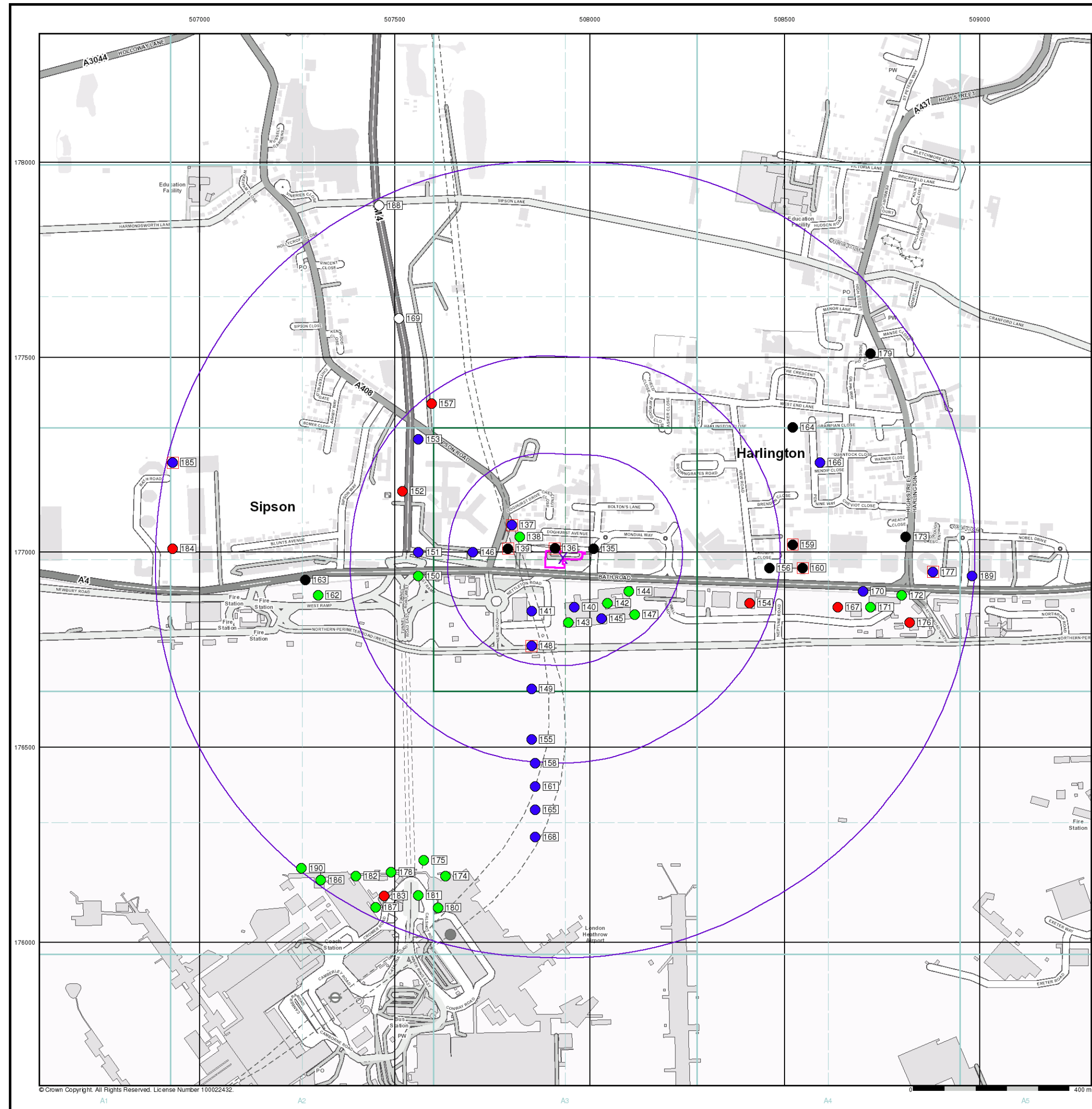
Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY

Landmark
INFORMATION GROUP

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



General

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

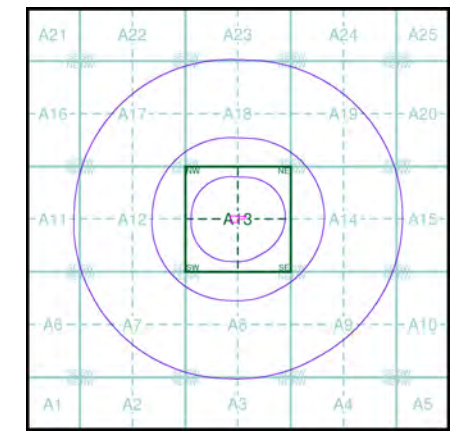
Agency and Hydrological (Boreholes)

- 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: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY



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

Risk Management

General

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

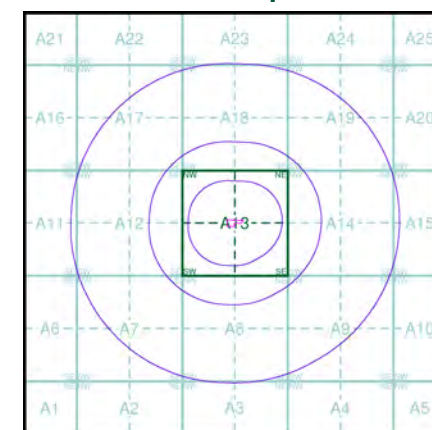
OS Water Network Data

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

Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY

Landmark
INFORMATION GROUP

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

General

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

Risk of Flooding from Surface Water

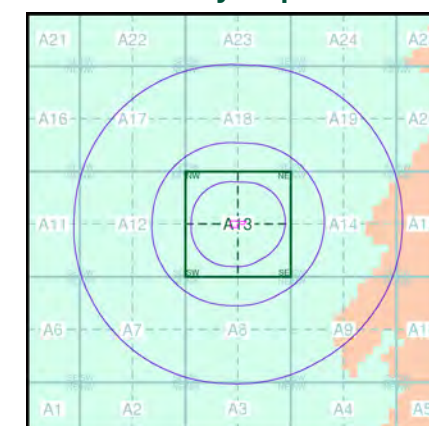
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY

Landmark
INFORMATION GROUP

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

Middlesex

Published 1866 - 1890

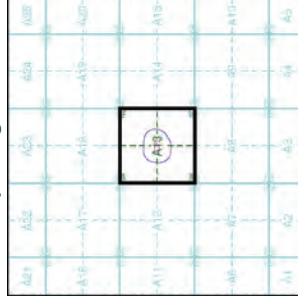
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840s. The 1854 edition of the 2,500 scale maps was the first to be published by Ordnance Survey. 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)

019_04	1880	1:2,500
019_08	1866	1:2,500

Historical Map - Segment A13

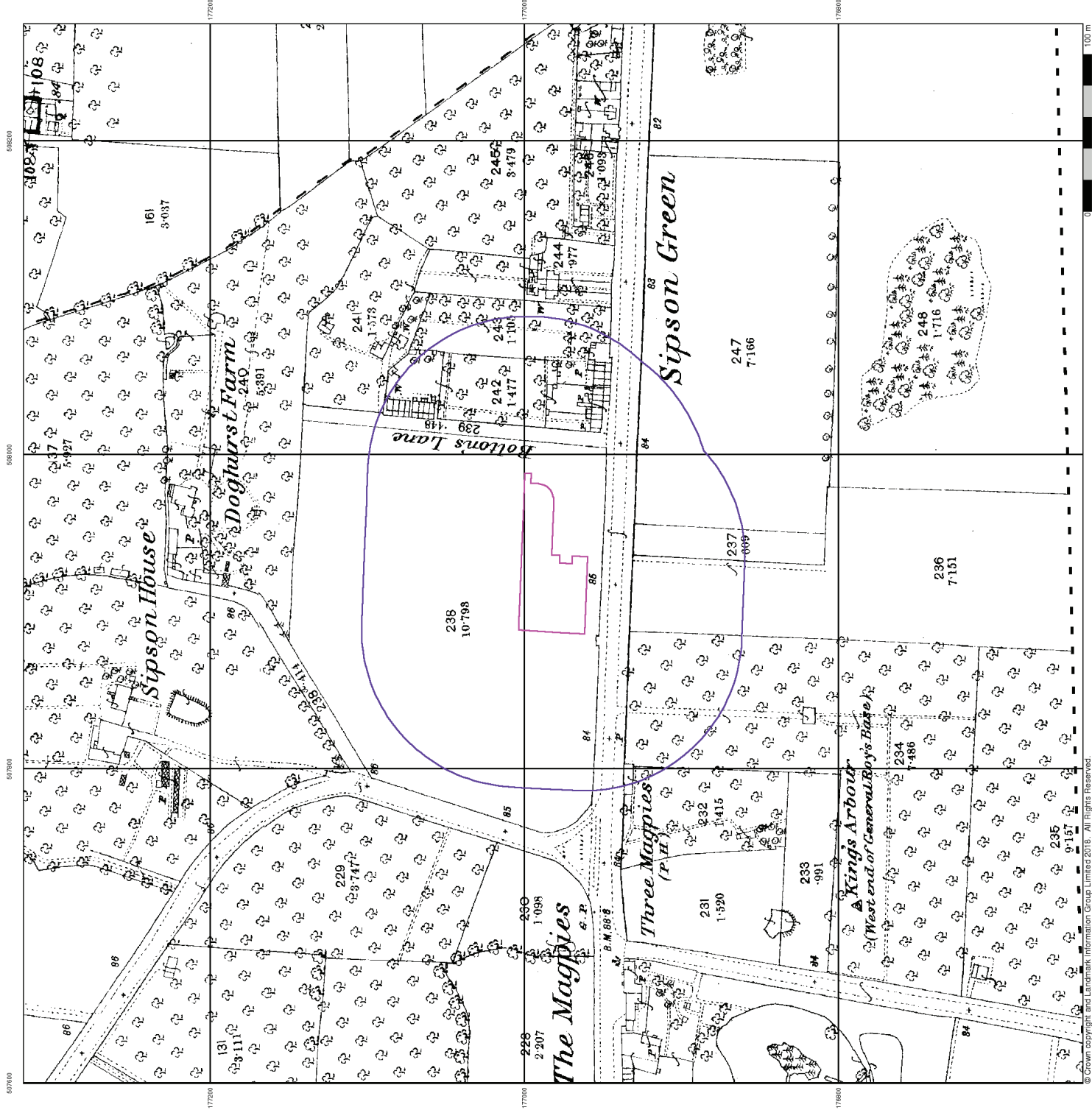


Order Details

Order Number: 160780146_1_1
 Customer Ref: RML 6606
 National Grid Reference: 507930, 176990
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 100

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY

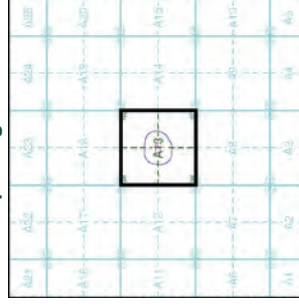


The historical maps shown were reproduced from maps predominantly held at the time adopted for England, Wales and Scotland in the 1940s. 1854 the 1:2,500 scale maps were produced by the Ordnance Survey, which covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

019_04	1895	1:2,500
019_08	1895	1:2,500

Historical Map - Segment A13

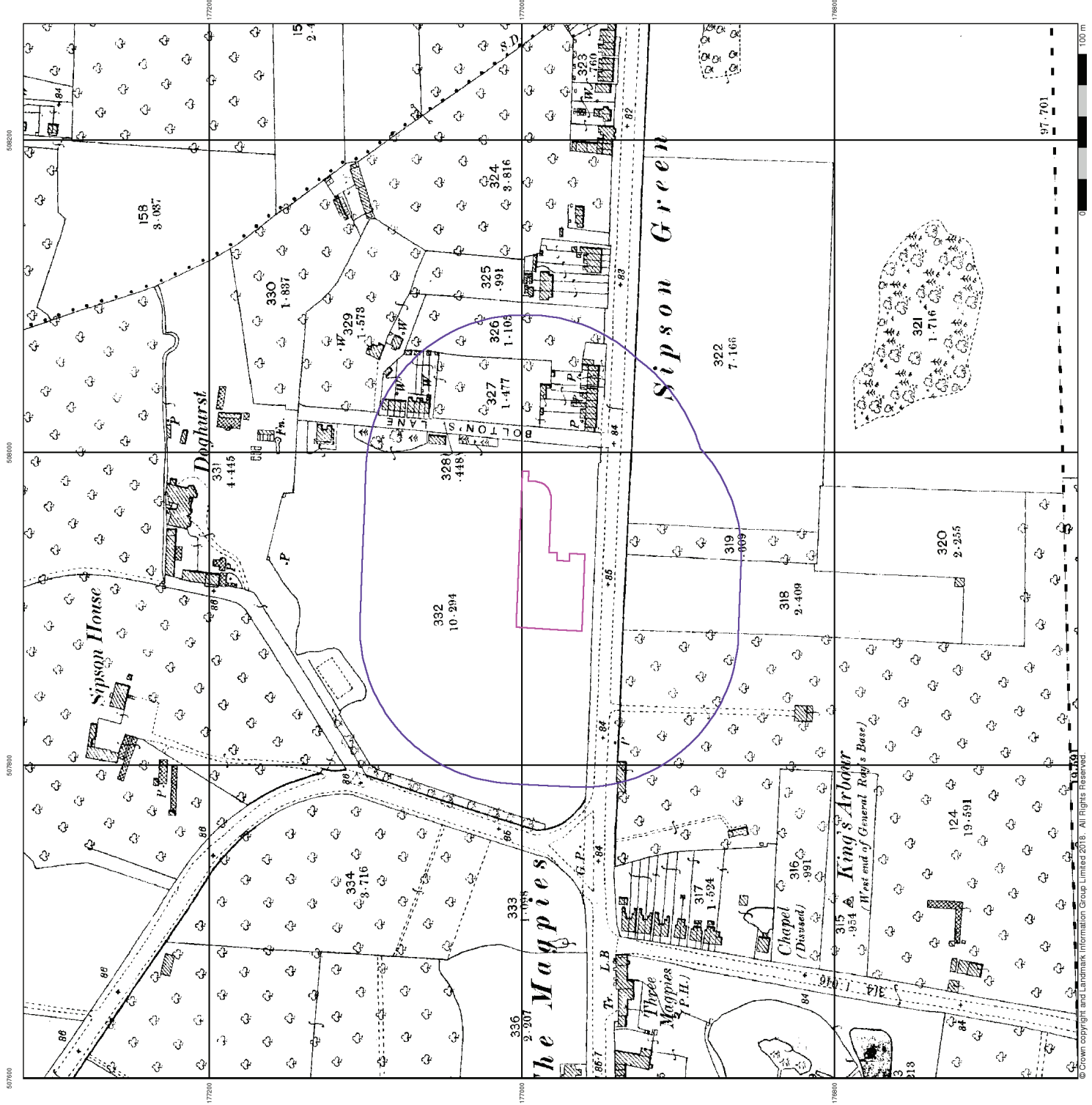


Order Details

Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

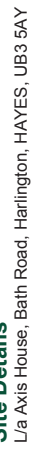
Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY



Year	Number of people (thousands)
04	10,000
14	8,000
50	6,000

A 10x10 grid of points labeled A1 through A100. The grid is divided into four 5x5 quadrants by dashed lines. A 2x2 grid of points is highlighted with a thick black border, and the point A18 is circled in purple.



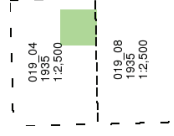
Middlesex

Published 1935

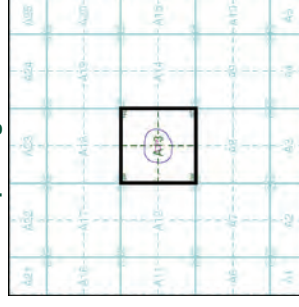
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1940s. 1854 the 2,500 scale maps were produced by the Ordnance Survey. The maps were surveyed by the Ordnance Survey in 1854. 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

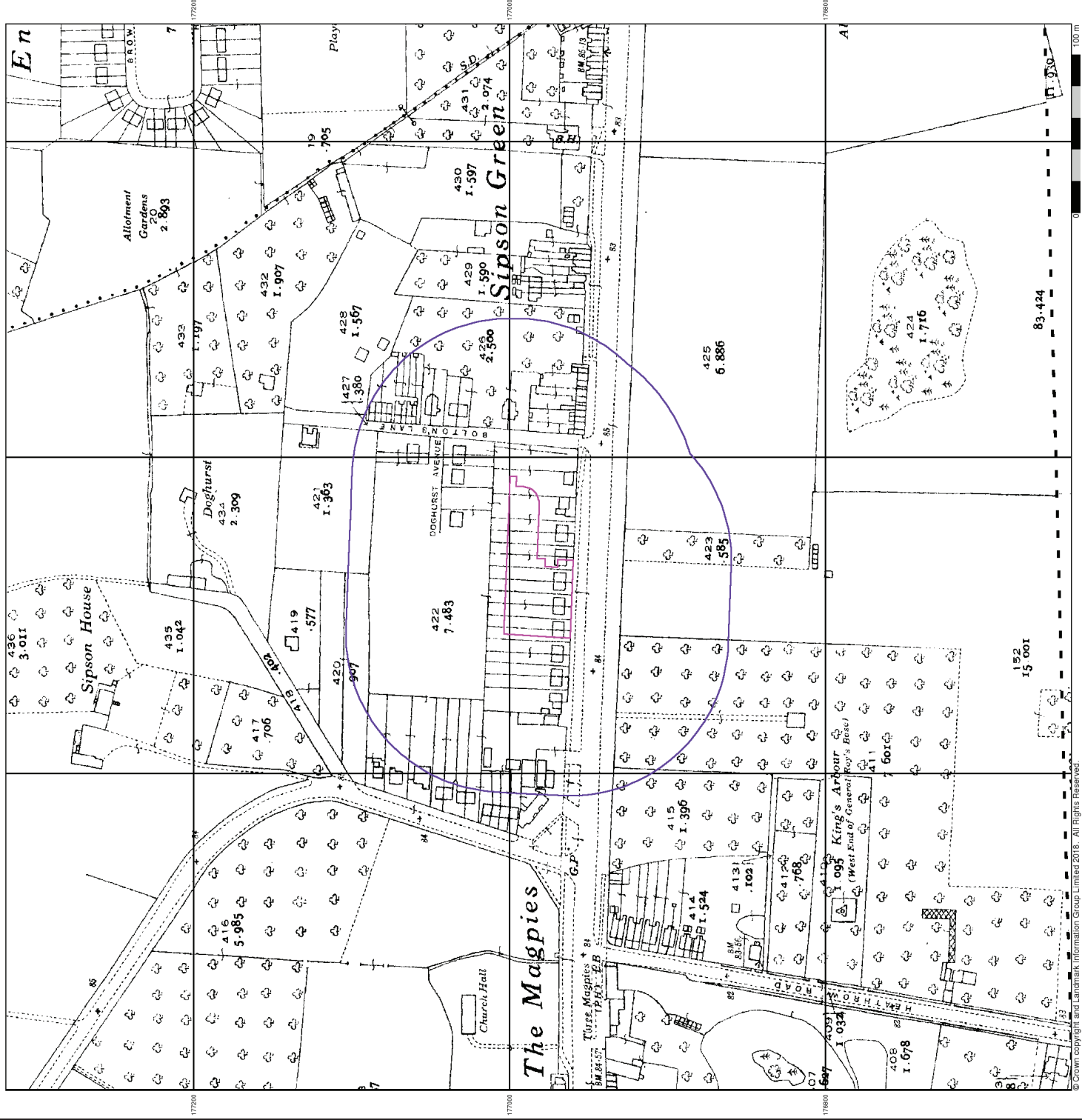


Order Details

Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY



Ordnance Survey Plan

Published 1961 - 1966

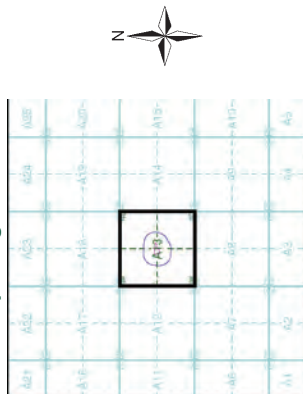
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held in the custody of the Ordnance Survey. The maps of England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published 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 outlying areas.

Map Name(s) and Date(s)

Year	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
TQ0777SE	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
TQ0777SW	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
TQ0778NE	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
TQ0778NW	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030

Historical Map - Segment A13



Order Details

Order Details

Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
A
Slice: 0.29
Site Area (Ha): 100
Search Buffer (m):

Site Details

Site Details
 1/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY

Supply of Unpublished Survey Information

Published 1973 - 1974

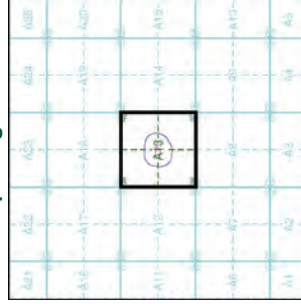
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

TO0777SE	TO0877SW
1974	1974
1:1,250	1:1,250
TO0777NE	TO0878NW
1974	1973
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

Order Number: 160780146_1_1
 Customer Ref: RML 6606
 National Grid Reference: 507930, 176990
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 100

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY



Additional SIMs

Published 1981 - 1989

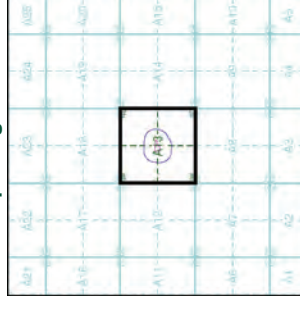
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further minor editions of the mapping which were produced and published in 1947 to 1989. The maps are on microfilm and contain details on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TO0777SE	1981
1:1,250	1:1,250
TO0778NE	1989
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

Order Number: 160780146_1_1
 Customer Ref: RML 6606
 National Grid Reference: 507930, 176990
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 100

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY





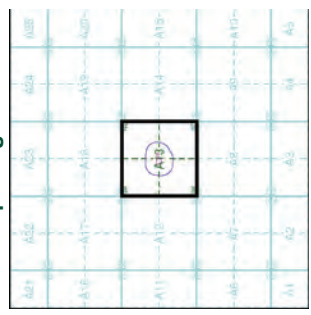
Large-Scale National Grid Data Published 1992 Source map scale - 1:1,250

Large Scale National Grid Data: superseded SIM cards (Ordnance Survey's information on Midland) in 1992, and continued to be produced until 1999. These maps were produced by the Ordnance Survey and provide detailed information on houses and other built-up areas, as well as topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TO0777SE	TO0875SW
1992	1992
1:1,250	1:1,250
TO0778NE	TO0876NW
1992	1992
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY



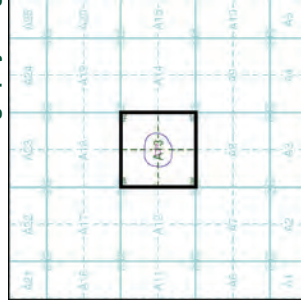
Tel: 0844 844 9652
Fax: 0844 844 9651
Web: www.envirocheck.co.uk

Historical Aerial Photography Published 1999

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



Historical Aerial Photography - Segment A13



Order Details

Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 100

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY

10k Raster Mapping

Published 2006

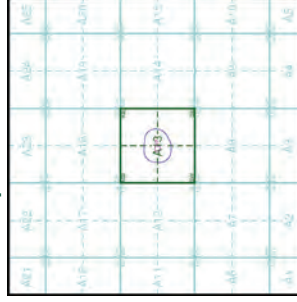
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

TQ07NE
2006
1:10,000

Historical Map - Slice A



Order Details

Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY



VectorMap Local

Published 2018

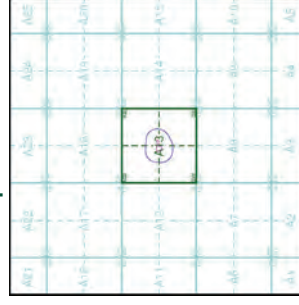
Source map scale - 1:10,000

VectorMap Local (Bastard) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced at a scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating geographical information. OS VectorMap Local is derived from large-scale information surveyed at 1:250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10,000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

TQ07NE
2018
Variable

Historical Map - Slice A



Order Details

Order Number: 160780146_1_1
Customer Ref: RML 6606
National Grid Reference: 507930, 176990
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

L/a Axis House, Bath Road, Harlington, HAYES, UB3 5AY





RISK MANAGEMENT LIMITED

Tel : 01883 343572
Fax : 01883 344060

Title :

SITE PHOTOGRAPHS

Project Name :
L/a Axis House, Bath Road,
Harlington, Hayes, UB3 5AY

Scale : NTS

Report
Date : May. 2018

Plate **1**

Job No : RML 6606



RISK MANAGEMENT LIMITED

Tel : 01883 343572
Fax : 01883 344060

Title :

SITE PHOTOGRAPHS

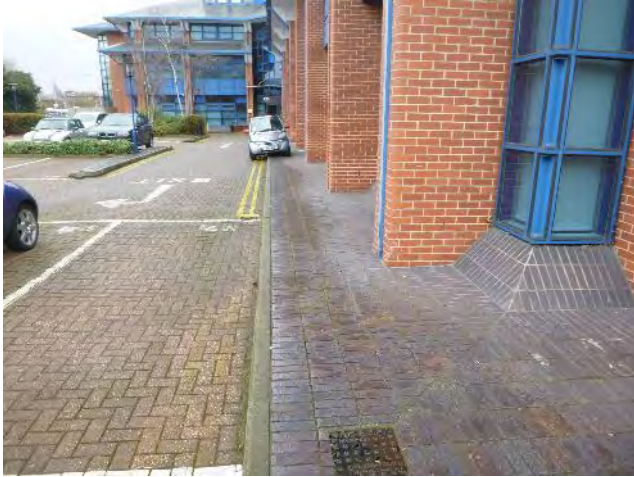
Project Name :
L/a Axis House, Bath Road,
Harlington, Hayes, UB3 5AY

Scale : NTS

Report
Date : May. 2018

Plate **2**

Job No : RML 6606



RISK MANAGEMENT LIMITED

Tel : 01883 343572
Fax : 01883 344060

Title :

SITE PHOTOGRAPHS

Project Name :
L/a Axis House, Bath Road,
Harlington, Hayes, UB3 5AY

Scale : NTS

Report
Date : May. 2018

Plate **3**

Job No : RML 6606

PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK IN THE VICINITY OF ELECTRICITY CABLES

ADVICE TO SITE PERSONNEL

MANAGEMENT NOTE

Please ensure that a copy of this note is read by your site management and to your site operatives.

Early consultation with ESP Electricity Ltd prior to excavation is recommended to obtain the location of plant and precautions to be taken when working nearby.

This has been produced after consultation with and at the request of the Health and Safety Executive, the construction industry and the electricity companies.

1.0 Introduction

This procedure should be read in conjunction with the ESP Electricity Distribution Safety Rules and other relevant procedures. The object of this procedure is:

- a) To lay down the rules for the location of cable before work is started.
- b) To specify the safe working procedure to be adopted by persons who have to work on or in the vicinity of cables.

2.0 Reference

ESP Electricity G81 – Design and Planning
ESP Electricity G81 – Installation and Records
National Joint Utilities Group (NJUG) Guidance Notes
Avoiding danger from underground services HSG47 HSE Advice Booklet.

3.0 Work

- 3.1 All cables and apparatus to which the cables are connected shall be treated as being live, until they have been proved dead and all points of isolation have been established and controlled.
- 3.2 All work carried out under this procedure shall also be carried out in strict accordance with the ESP Electricity Distribution Safety Rules and other relevant procedures.
- 3.3 For the purpose of this procedure:
 - a) Work on a cable includes the intentional cutting or removal of its Sheath or Armour, cutting of its core(s) or conductor(s) and the removal of a spiking gun.
 - b) Work in the vicinity of a cable includes digging or any activity carried out at any work location where cables are or may be present, whether or not for the specific purpose of preparation for work on a cable.

4.0 Cable Locating Devices

- 4.1 An approved cable locating device is to be used on every occasion before any surface is removed or any digging is started. It must also be used during the course of any digging work.
- 4.2 Cable location devices provide information on the position of cables. They must not be used as the only means of cable location.
- 4.3 Cable locating devices must be regularly checked for correct operation.

All persons using cable locating devices must be adequately trained in their use and must be Competent Persons.

5.0 Location of Cables

- 5.1 The depth of underground cables varies greatly. It is essential that a site specific risk assessment is undertaken for the proposed work you are planning this must include obtaining an up-to-date map of the electricity cables in the area and to make use of it. The electricity cable records must be checked before any work is started. Changes in surface level or reference points, and work carried out by other people may affect the reliability of these records. Anybody excavating must be told of these possibilities.
- 5.2 Before the start of any excavation work, a cable locating device shall be used to establish the run of live cables. Reasonable steps should be taken to establish the runs of cables both along and across the length of the intended area of digging. The cable avoidance tool shall be used together with mains records and where provided, service records.

- 5.3 All cable runs either confirmed by use of the cable locating device or indicated on the mains records must be marked out on the surface using a waterproof marker. Marked cable runs must be extended 300mm beyond either end or side of the intended digging area, and must stay visible while the digging is going on. The trial hole dig method can be used to identify the run of cables using hand dig tools only.

6.0 Precautions to be Taken while Working in Vicinity of Cables

- 6.1 Work in the vicinity of cables must be carried out as if the cables are live and all excavation work must be personally supervised by a Competent Person. All persons shall wear a minimum of safety footwear, Safety Glasses, hard hat, Task Specific Gloves flame retardant overalls.
- 6.2 Approved hand tools should always be used in preference to power tools in the vicinity of cables, unless site conditions make this impracticable. Spades should always be used in preference to forks. Extreme care must always be taken when using a fork or pick. Forks must be of approved type with shortened chisel ended tines. Spades must have sharp corners of the blade rounded. The selection of a fork or pick will be assessed on a Task Specific Risk Assessment.
- 6.3 A proprietary air digging tool, which removes soil with a high-velocity jet of air, can be used to expose buried services without damage to the service. However, it will not penetrate asphalt, concrete or frozen ground. Also precautions need to be taken that will prevent injury to the operator and members of the public from ejected soil and other materials.
- 6.4 When site conditions require the use of hand held power tools they must be fitted with a short bit. The following method of work must be used:
- Using all the information provided, together with an approved cable locating device, the line of all known cables must be marked out at least 300mm past the hole that will be dug using waterproof marker.
 - Encroachment lines must be drawn 300mm parallel to and away from the outer and innermost cable marker lines. And as in (a) above these must be drawn to extend at least 300mm beyond the edge of the hole that will be dug.
 - Hand held power tools must not be used below ground level in between the encroachment lines. Hand tools must be used for progressive and careful undermining from outside the encroachment lines towards the cable(s). Hand power tools must only be used to break up any hard surface, keeping pace with, but not going past the undermining. Extreme care must, in particular, be exercised when using power tools above cables already exposed by undermining. The use of power tools must stop if at any time the cutting rate quickens, indicating softer ground. At all times, attention must be paid to the cable run marker lines outside the edges of the holes.
 - The safe digging procedure in (c) above must be followed until all cable(s) required for work or for identification have been located.
 - If all recorded or detected cables inside the digging area have been located then hand held power tools may be used below ground level to break up concrete or similar structures, but even then only when site conditions render the use of hand tools impractical.
- 6.5 During excavation, full use must be made of cable locating devices which must be used to assist in establishing the exact location of live cables.
- 6.6 Where exposed cables are likely to be damaged in any way they shall be adequately protected and/or supported. Where in the opinion of the person in charge on site it is appropriate, warning notices must be attached to cables e.g. 'live cable exposed above ground level' or 'live coiled cables'.
- 6.7 Irrespective of the color of the electricity cable it shall be considered as being in a 'live' status unless it has been confirmed and proven that the cable has been physically isolated or turned off.

If damage is caused or suspected the following action should be taken at once:

- ❖ Remove all personnel from the immediate vicinity
- ❖ Contact ESP Electricity 01372 227560 or out of hours Emergency contact Number 0800 731 6945
- ❖ Prevent any approach by the public.
- ❖ Assist electricity personnel, Police or Fire Service as requested.

REMEMBER - IF IN DOUBT, SEEK ADVICE FROM ESP Electricity Ltd.

ESP Electricity Ltd can be contacted at:

Office Address: Hazeldean, Station Road, Leatherhead, Surrey, KT22 7AA

Office Tel: 01372 227560; **Fax:** 01372 377996; **email:** plantresponses@espipelines .com

PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK IN THE VICINITY OF UNDERGROUND GAS PIPES

ADVICE TO SITE PERSONNEL

MANAGEMENT NOTE

Please ensure that a copy of this note is read by your site management and to your site operatives.

Early consultation with ES Pipelines Ltd prior to excavation is recommended to obtain the location of plant and precautions to be taken when working nearby.

This note has been produced after consultation with and at the request of the Health and Safety Executive, the construction industry and the local authorities as an interim measure pending the issue of an HSE Guidance Note.

Introduction

Damage to ES Pipelines Ltd's plant can result in uncontrolled gas escapes which may be dangerous. In addition these occurrences can cause expense, disruption of work and inconvenience to the public.

Various materials are used for gas mains and services. Cast Iron, Ductile Iron, Steel and Plastic pipes are the most widely found. Modern Plastic pipes are either bright yellow or orange in colour.

Cast Iron and Ductile Iron water pipes are very similar in appearance to Cast Iron and Ductile Iron gas pipes and if any Cast Iron or Ductile Iron pipe is uncovered, it should be treated as a gas pipe. ES Pipelines Ltd do not own any metallic gas pipes but their gas network infrastructures may be connected to Cast Iron, Ductile Iron or Steel pipes owned by Transco.

The following general precautions apply to Intermediate Pressure (2-7barg MOP), Medium Pressure (75mbarg-2barg MOP), Low Pressure (up to 75mbarg MOP) and other gas mains and services likely to be encountered in general site works and are referred to within this document as 'pipes'.

Locating Gas Pipes

It should be assumed when working in urban and residential areas that gas mains and services are likely to be present. On request, ES Pipelines Ltd will give approximate locations of pipes derived from their records. The records do not normally show the position of service pipes but their probable line can be deducted from the gas meter position. ES Pipelines Ltd's staff will be pleased to assist in the location of gas plant and provide advice on any precautions that may be required. The records and advice are given in good faith but cannot be guaranteed until hand excavation has taken place. Proprietary pipe and cable locators are available although generally these will not locate plastic pipes.

Safe working Practices

To achieve safe working conditions adjacent to gas plant the following must be observed:

Observe any specific request made by ES Pipelines Ltd's staff.

Gas pipes must be located by hand digging before mechanical excavation. Once a gas pipe has been located, mechanical excavation must proceed **with care**. A mechanical excavator must not in any case be used within 0.5 metre of a gas pipe and greater safety distances may be advised by ES Pipelines Ltd depending on the mains maximum operating pressure (MOP).

Where heavy plant may have to cross the line of a gas pipe during construction work, the number of crossing points should be kept to a minimum. Crossing points should be clearly indicated and crossings at other places along the line of the pipe should be prevented.

Where the pipe is not adequately protected by an existing road, crossing points should be suitably reinforced with sleepers, steel plates or a specially constructed reinforced concrete raft as necessary. ES Pipelines Ltd staff will advise on the type of reinforcement necessary.

No explosives should be used within 30 metres of any gas pipe without prior consultation with ES Pipelines Ltd.

ES Pipelines Ltd must be consulted prior to carrying out excavation work within 10 metres of any above ground gas installation.

Where it is proposed to carry out piling or boring within 15 metres of any gas pipe, ES Pipelines Ltd should be consulted prior to the commencement of the works.

Access to gas plant must be maintained at all times during on site works.

Proximity of Other Plant

A minimum clearance of 300 millimetres (mm) should be allowed between any plant being installed and an existing gas main to facilitate repair, whether the adjacent plant be parallel to or crossing the gas pipe. No apparatus should be laid over and along the line of a gas pipe irrespective of clearance.

No manhole or chambers shall be built over or around a gas pipe and no work should be carried out which results in a reduction of cover or protection over a pipe, without consultation with E S Pipelines Ltd.

Support and Backfill

Where excavation of trenches adjacent to any pipe affects its support, the pipe must be supported to the satisfaction of E S Pipelines Ltd and must not be used as an anchor or support in any way. In some cases, it may be necessary to divert the gas pipe before work commences.

Where a trench is excavated crossing or parallel to the line of the gas pipe, the backfill should be adequately compacted, particularly beneath the pipe, to prevent any settlement which could subsequently cause damage to the pipe.

In special cases it may be necessary to provide permanent support to the gas pipe, before backfilling and reinstatement is carried out. Backfill material adjacent to gas plant must be selected fine material or sand, containing no stones, bricks or lumps of concrete, etc., placed to a minimum depth of 150mm around the pipes and well compacted by hand. No power compaction should take place until 300 mm of selected fine fill has been suitably compacted.

If the road construction is in close proximity to the top of the gas pipe, a "cushion" of selected fine material such as sand must be used to prevent the traffic shock being transmitted to the gas pipe. The road construction depth must not be reduced without permission from the local Highway Authority.

No concrete or other hard material must be placed or left under or adjacent to any Cast Iron pipe as this may cause fracture of the pipe at a later date.

Concrete backfill should not be used closer than 300 mm to the pipe.

Damage to Coating

Where a gas pipe is coated with special wrapping and this is damaged, even to a minor extent E S Pipelines Ltd must be notified so that repairs can be made to prevent future corrosion and subsequent leakage.

Welding or "Hot Works"

When welding or other "hot works" involving naked flames are to be carried out in close proximity to gas plant and the presence of gas is suspected, E S Pipelines Ltd must be contacted before work commences to check the atmosphere. Even when a gas free atmosphere exists care must be taken when carrying out hot works in close proximity to gas plant in order to ensure that no damage occurs.

Particular care must be taken to avoid damage by heat or naked flame to plastic gas pipes or to the protective coating on other gas pipes.

Leakage from Gas Mains or Services

If damage or leakage is caused or an escape of gas is smelt or suspected the following action should be taken at once:

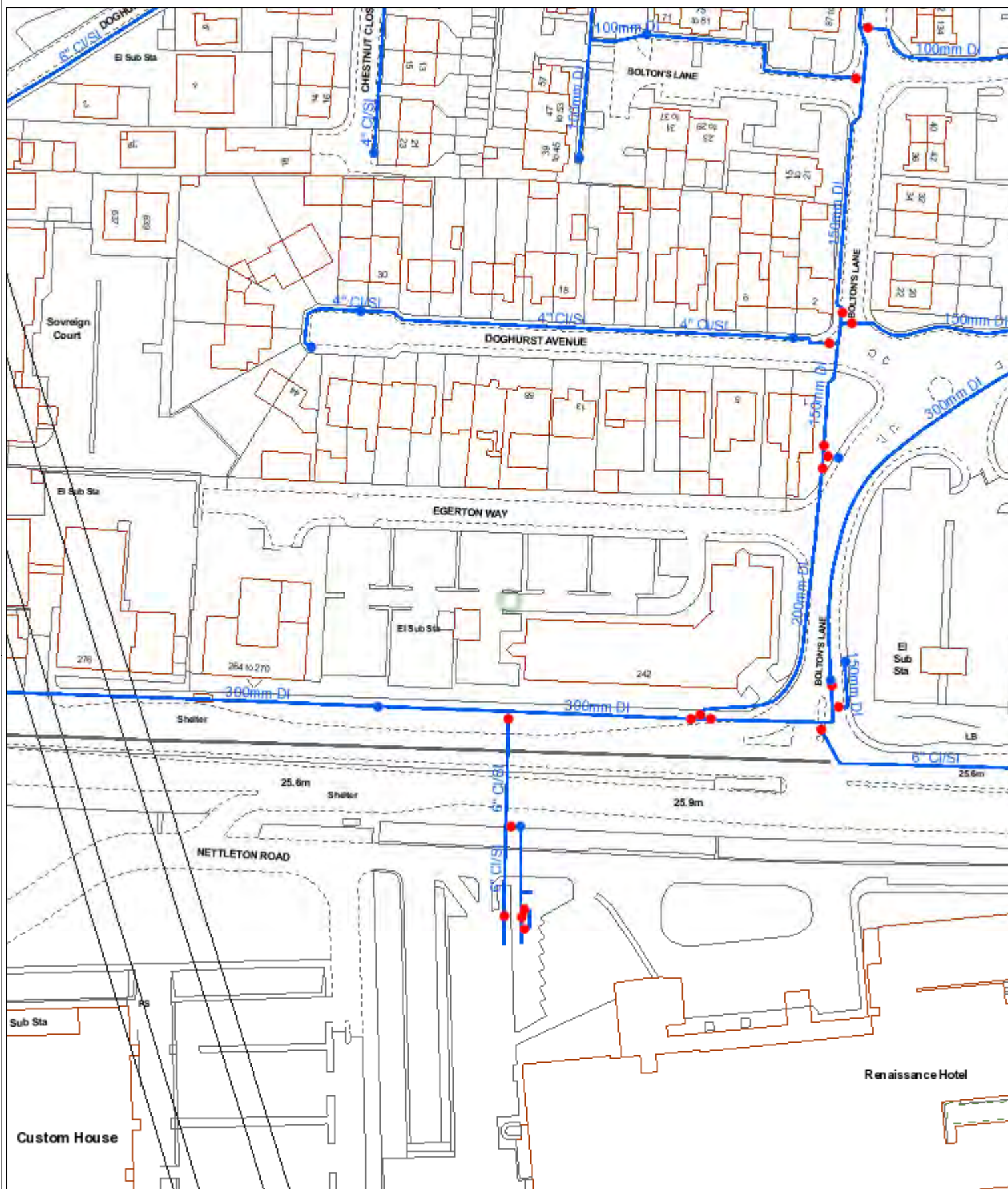
- ❖ Remove all personnel from the immediate vicinity of the escape;
- ❖ Contact Transco's National Gas Escape Call Centre, on: **0800 111 999**;
- ❖ Prevent any approach by the public, prohibit smoking, extinguish all naked flames or other source of ignition for at least 15 metres from the leakage;
- ❖ Assist gas personnel, Police or Fire Service as requested.

REMEMBER - IF IN DOUBT, SEEK ADVICE FROM E S PIPELINES LTD.

ES Pipelines Ltd can be contacted at:

Office Address: Hazeldean, Station Road, Leatherhead, Surrey, KT22 7AA

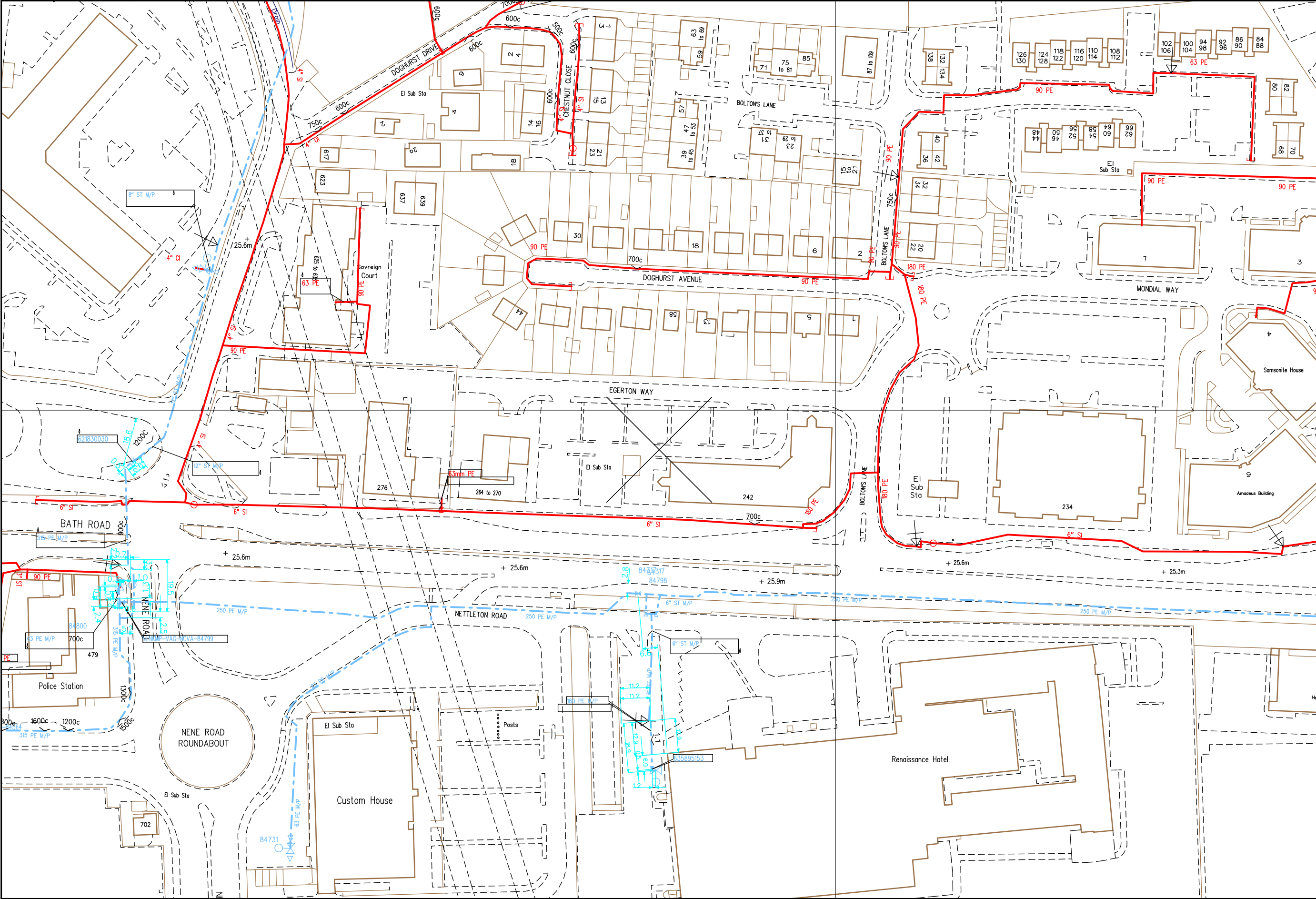
Office Tel: 01372 227560; **Fax:** 01372 377996; **email:** plantresponses@espipelines.com



© Affinity Water Limited. Based upon the Ordnance Survey map by Affinity Water Limited with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. © Crown Copyright and database rights 2017 Ordnance Survey 100022432. Plans are the property of Affinity Water Limited and may not be reproduced or distributed in any form (or any part) without the written permission of Affinity Water Limited. Plans are continuously being updated, so out of date plans should be destroyed and not relied upon. The position of apparatus shown on this plan is provided for guidance only and should not be relied upon as being precise. Therefore the Company accepts no responsibility in the event of inaccuracy. Service pipes are not necessarily shown on this plan. Cover is normally 915mm for mains and 750mm for communication pipes but this may vary. The actual position of apparatus must be determined on site by making hand dug trial holes. The Company requires a minimum of two working days notice of the intention to excavate trial holes. Except where prior written permission has been obtained, it is an offence under Section 174 of the Water Industry Act 1991 to operate or interfere with any valves, hydrants or other apparatus vested in Affinity Water.

N
1:1,250

	Distribution Main		Hydrant
	Asbestos Distribution Main		Fitting
	Abandoned Main		Easement
	Asbestos Abandoned Main		Company Boundary
	Adit / Tunnel		
	Cable		
	Searched Location		



SCALE: Not to scale	LP MAINS	
USER ID: MLOH2099	MP MAINS	
DATE: 29/03/2018	IP MAINS	
EXTRACT DATE: 06/12/2017	LHP MAINS	
MAP REF: TQ0776	NHP MAINS	
CENTRE: 507933, 176985		
Some examples of Plant Items:		
Valve		
Depth of Cover		
Syphon		
Diameter Change		
Material Change		

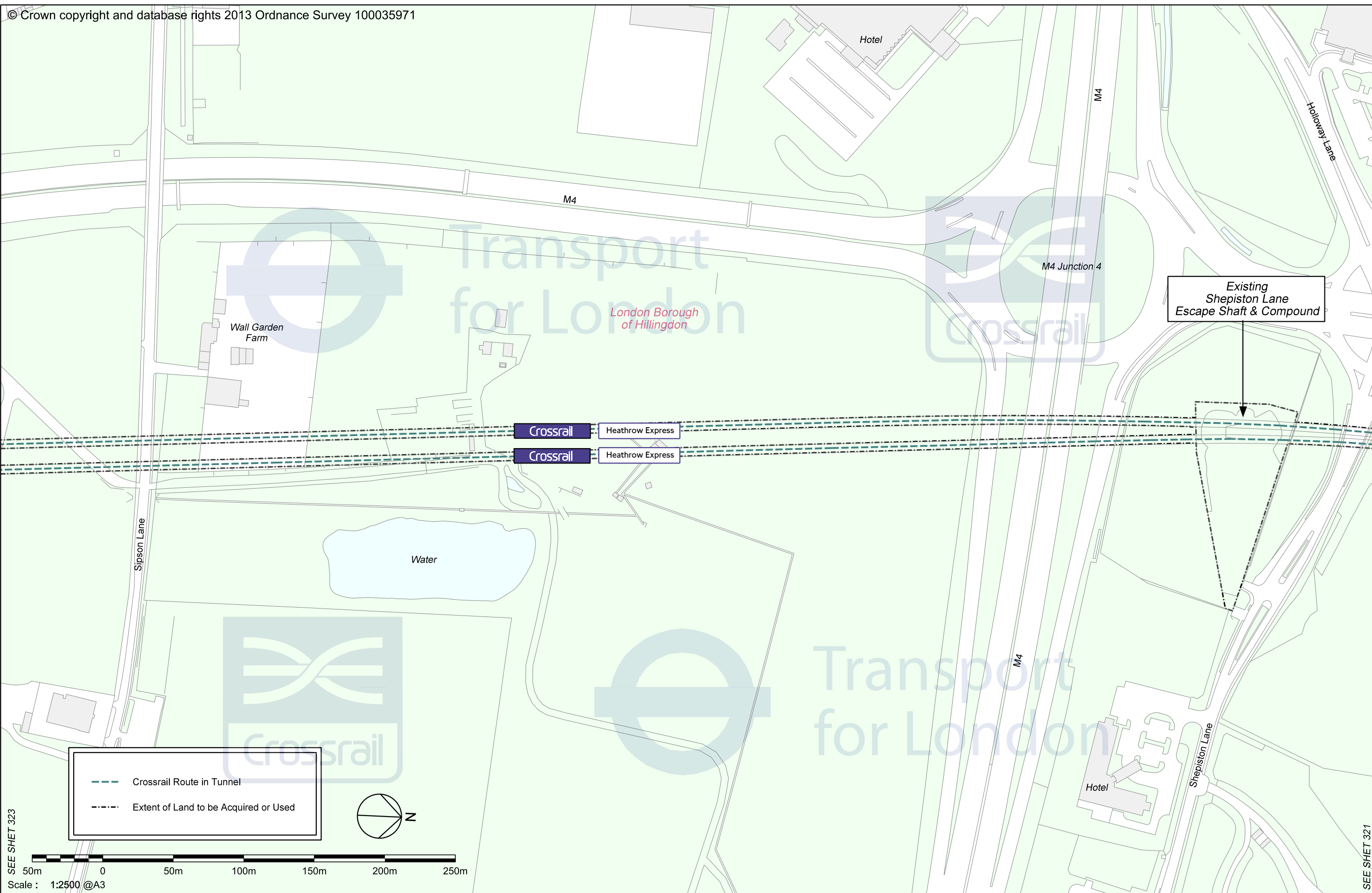
This plan shows those pipes owned by National Grid Gas plc in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.

CHECKED

MAPS Viewer Version 5.6.7.0

Local Machine

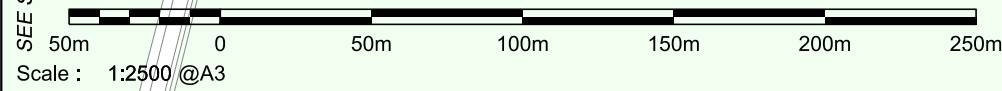
This plan is reproduced from or based on the OS map by National Grid Gas plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.



SEE SHET 323

Crossrail Route in Tunnel

Extent of Land to be Acquired or Used



SEE SHET 321



MOVING LONDON FORWARD

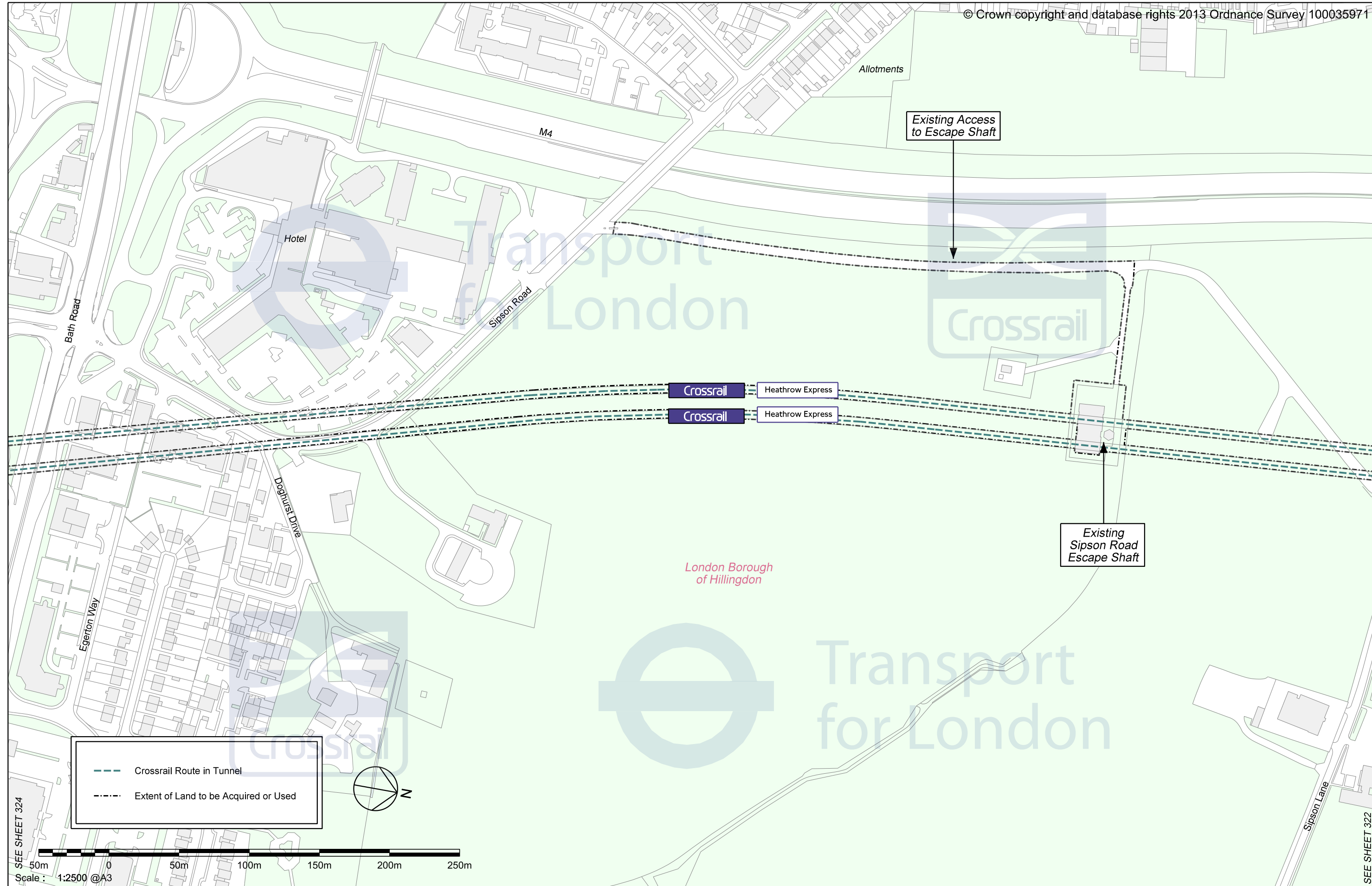
Heathrow Express Railway Tunnels Crossrail Proposals

CHECKED

This plan is indicative of proposals by Crossrail Limited and its delivery partners for the construction activity and completed works in the area shown. The size, detail and position of works are subject to alteration, as a result of design development, within the powers granted by the Crossrail Act 2008.

SHEET

322



Copy Approved for Design - Created: 28-NOV-2013

--- Crossrail Route in Tunnel
- - - - - Extent of Land to be Acquired or Used

Scale: 1:2500 @A3
0 50m 100m 150m 200m 250m



Heathrow Express Railway Tunnels Crossrail Proposals

This plan is indicative of proposals by Crossrail Limited and its delivery partners for the construction activity and completed works in the area shown. The size, detail and position of works are subject to alteration, as a result of design development, within the powers granted by the Crossrail Act 2008.

Utility Solutions GDC Requests

From: Enquiries, Unit <enquiries@environment-agency.gov.uk>
Sent: 28 March, 2018 3:59 PM
To: Utility Solutions GDC Requests
Subject: RE: Urgent Plant Enquiry - 63792 - Site at Bath Road, Harlington, Hayes - Please respond by 03/04/2018

Follow Up Flag: Follow up
Flag Status: Flagged

Hi

You may need an environmental permit if you intend to carry out work in, under, over or near to a main river flood or sea defence. You can find more information about this at:

<https://www.gov.uk/guidance/flood-risk-activities-environmental-permits>

Although the Environment Agency is classed as a statutory undertaker for certain purposes, we do not generally have plant equipment or pipelines situated in the public highway.

We have drafted this reply without conducting a specific search of our records. We ask that you make the necessary checks and if you have reason to think that your proposal will affect land or equipment which we own or is close to a watercourse as defined above, please resubmit your enquiry making this clear in your reply.

Regards

Tauseef Ayub
Customer Service Advisor

National Customer Contact Centre
Part of National Operations Services

 **0800 80 70 60**
 tauseef.ayub1@environment-agency.gov.uk
 Web Site: www.gov.uk/environment-agency

Environment Agency, Quadrant 2, 99 Parkway Ave, Parkway Business Park, Sheffield, S9 4WF

Click an icon to keep in touch with us:-



So how did we do...?

Our National Customer Contact Centre relies on customer feedback, so we really value your thoughts on how we are doing.

We will always make changes where we can to improve our service.
This will only take three minutes to complete:

<http://feedback1.environmentagency.uk.com/s3/NCCCSurvey>

Standard notice [not for use with Special Data, Personal Data or unlicensed 3rd party rights]



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Definitions

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"Commercial" means:

- offering a product or service containing the Information, or any adaptation of it, for a charge, or
- internal use for any purpose, or offering a product or service based on the Information for indirect commercial advantage, by an organisation that is primarily engaged in trade, commerce or a profession.

ESP Utilities Group
Unit 22, Bluebird House, Mole Business Park
Leatherhead
Surrey, KT22 7BA
Phone: 01372 587500
Email: plantresponses@espug.com



Dear Sir/Madam,

Thank you for your recent plant enquiry.

We can confirm that ESP Utilities Group Ltd may have gas and electric assets within the vicinity of your search. We ask that you contact ESP Utilities Ltd directly on the details shown below to request further information.

ESP are continually laying new gas and electricity networks and this notification is valid for 90 days from the date of this email. If your proposed works start after this period of time, please re-submit your enquiry.

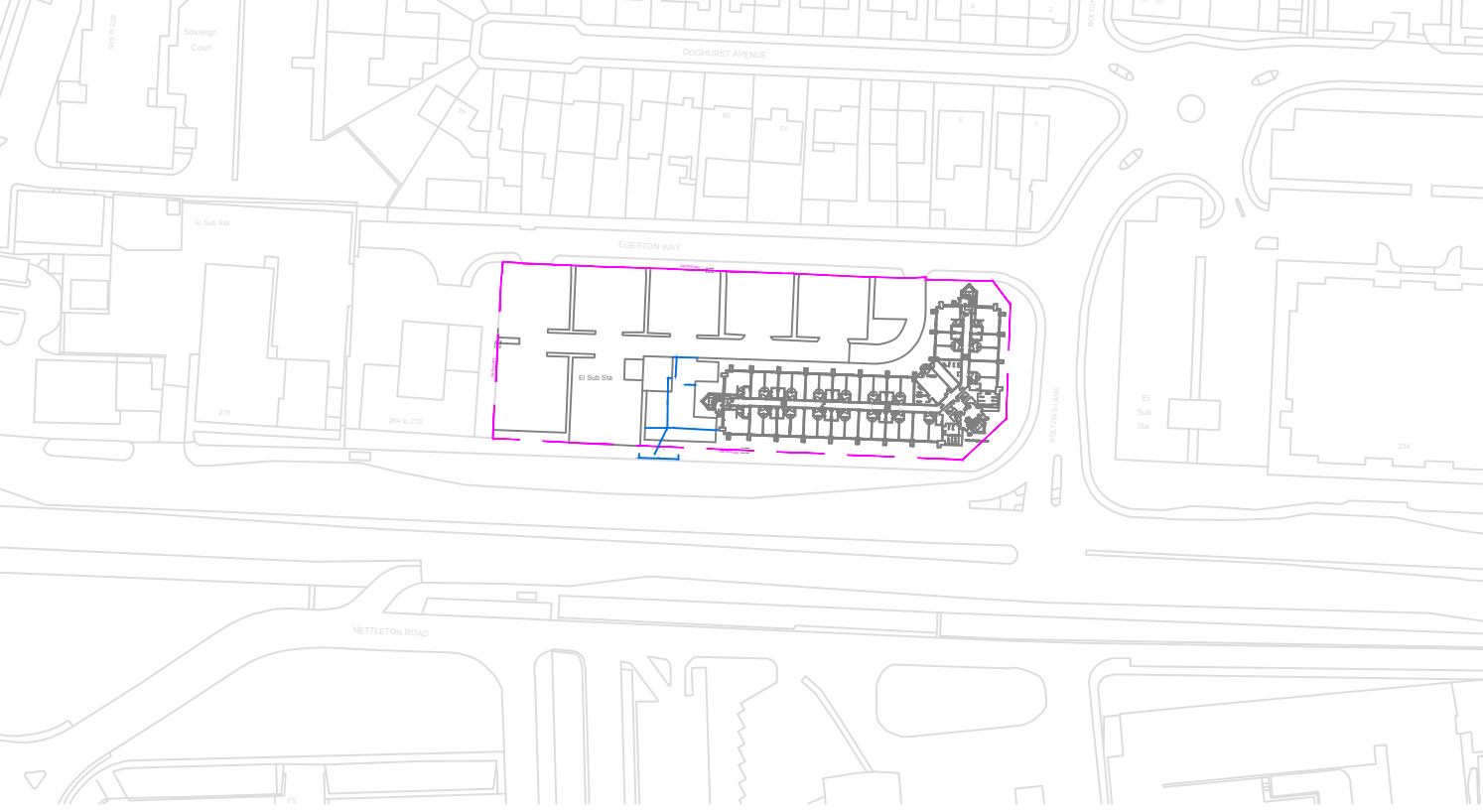
Yours faithfully,

ESP Utilities Group

Phone: 01372 587500

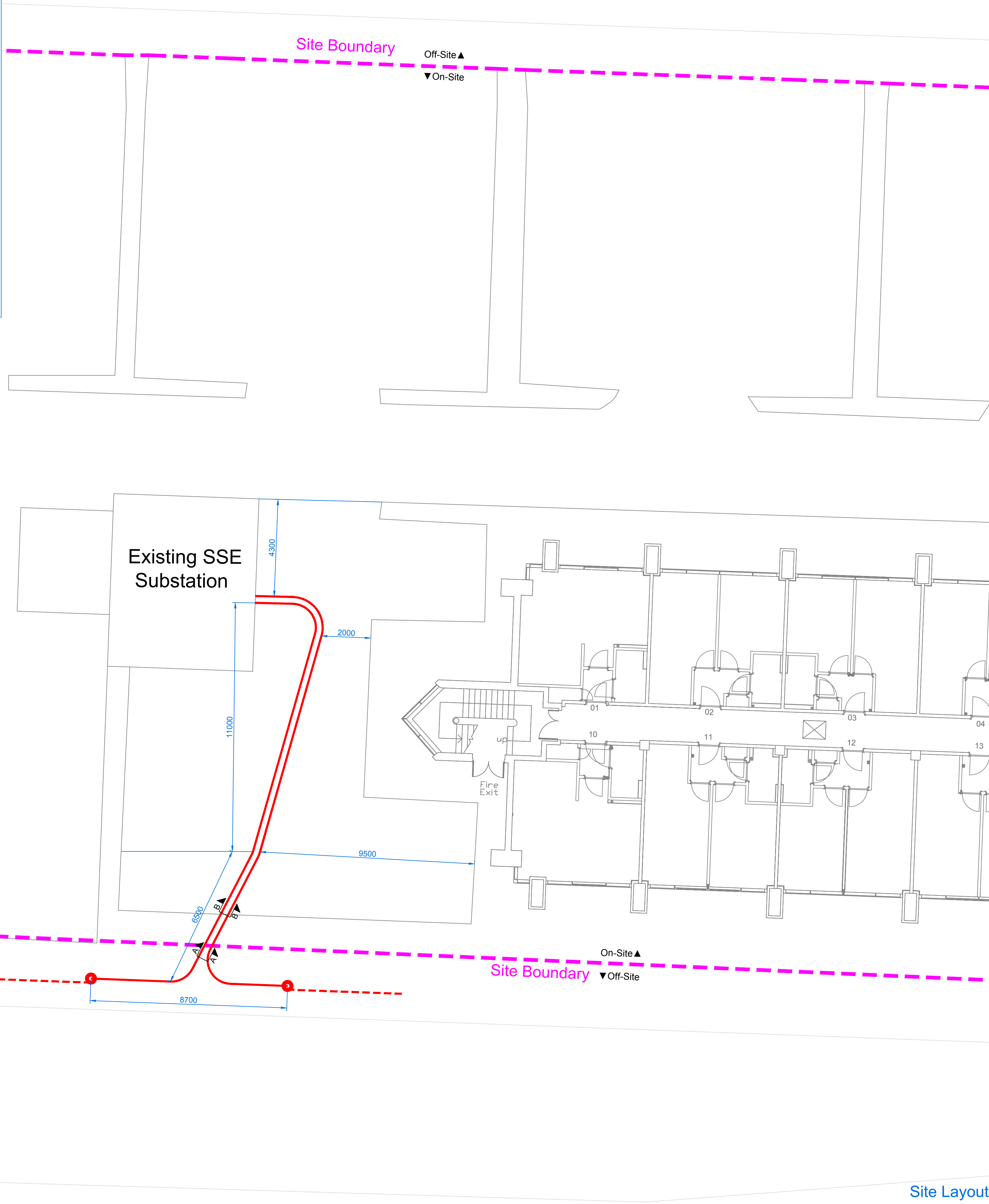
Email: plantresponses@espug.com

Key Plan

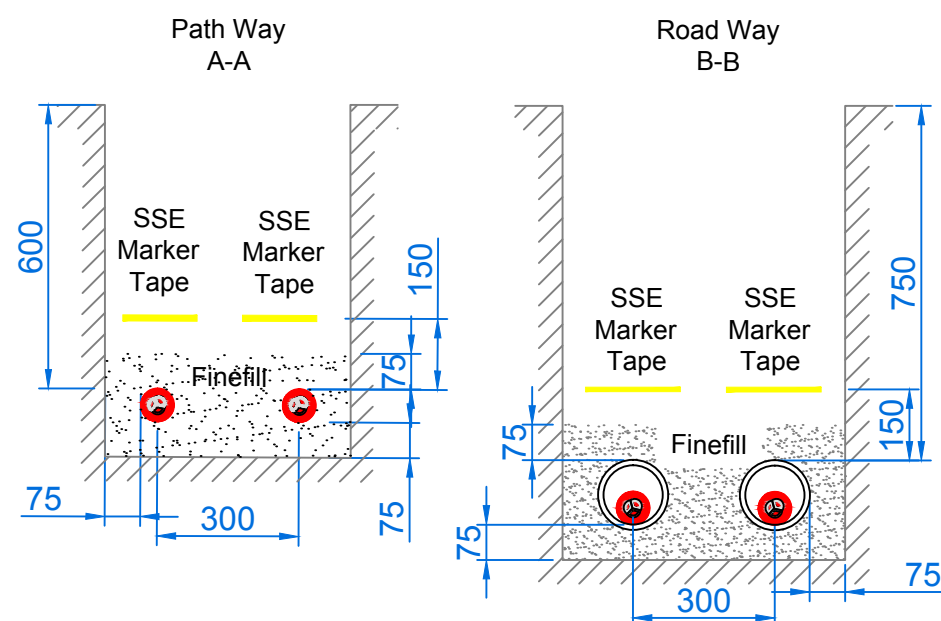


Site Address: Axis House, 242 Bath Road, Heathrow, UB3 5AY

1:250



1:16



Excavation, installation of ducting/warning Tape and reinstatement will be carried out in accordance with the SSE G81 and NRSWA requirements.

Trench Cross Sections

Legend	
	Existing HV Cable
	New HV Cable
	HV Point of Connection
	Site Boundary
	New LV Cable
	IDNO Equipment
	Earthing
	Link Box

For Project Scope and Material Specifications, please refer to UKP3383 - Project Information Document - DNO

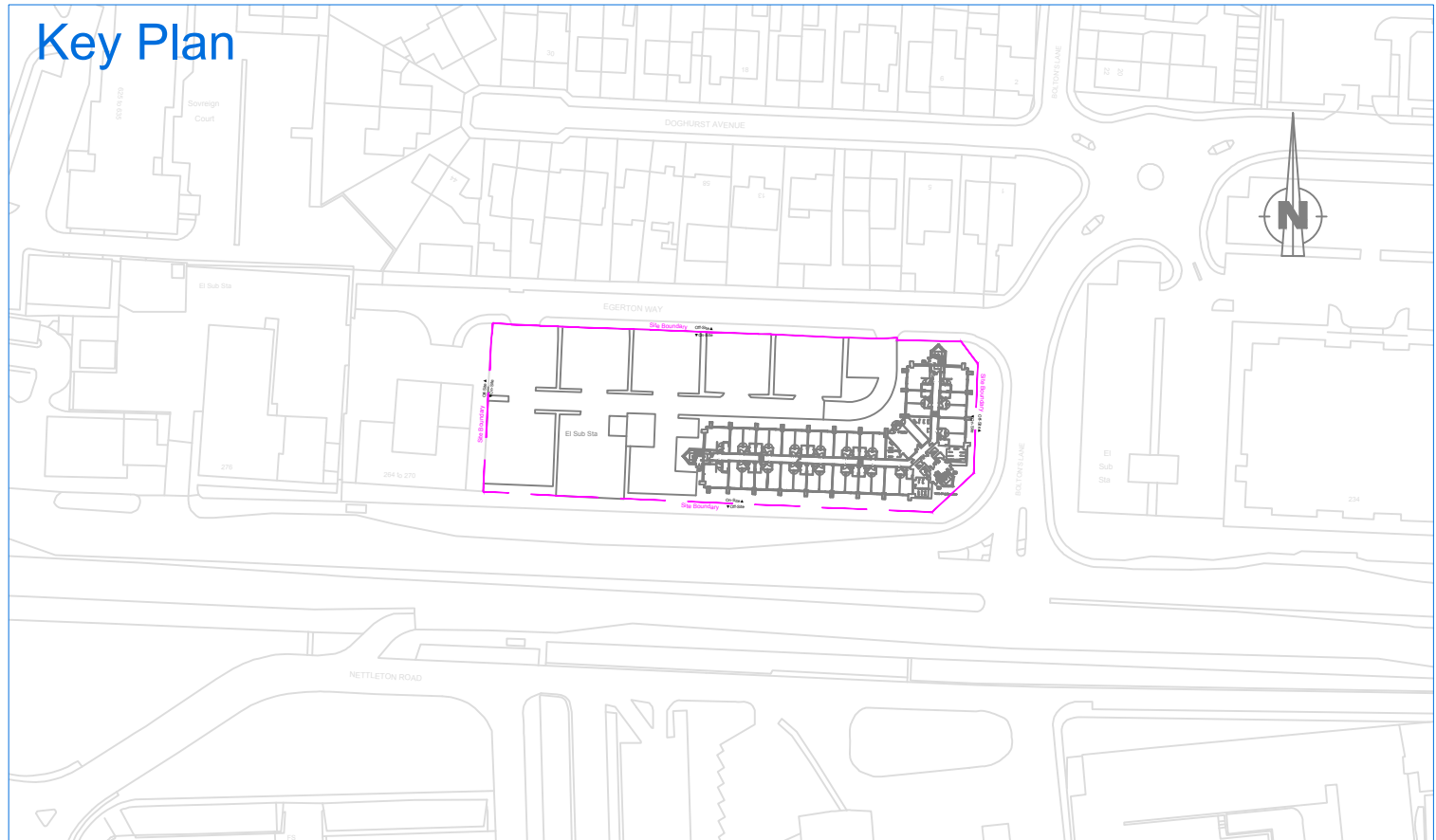


River View House
Bonds Mill Estate
Stonehouse
Gloucestershire
GL10 3RF

REV	AMENDMENT	DATE	BY
Client			
RGB Group			
Project			
Axis House			
Title			
HV As Laid Plan			
Planning Engineer		Contact No.	
Pelín Zahidler		0845 257 7105	
Project Manager		Contact No.	
Tony O'Hara		07896 541 854	
Drawn By	Checked By	Date	
CH	PS	02.11.2015	
Scale	Sheet No.	Original Size	
As Shown	1/1	A1	
Drawing No.			Rev
UKP3383 - DWG901			0
Drawing Status			
For Information Only			

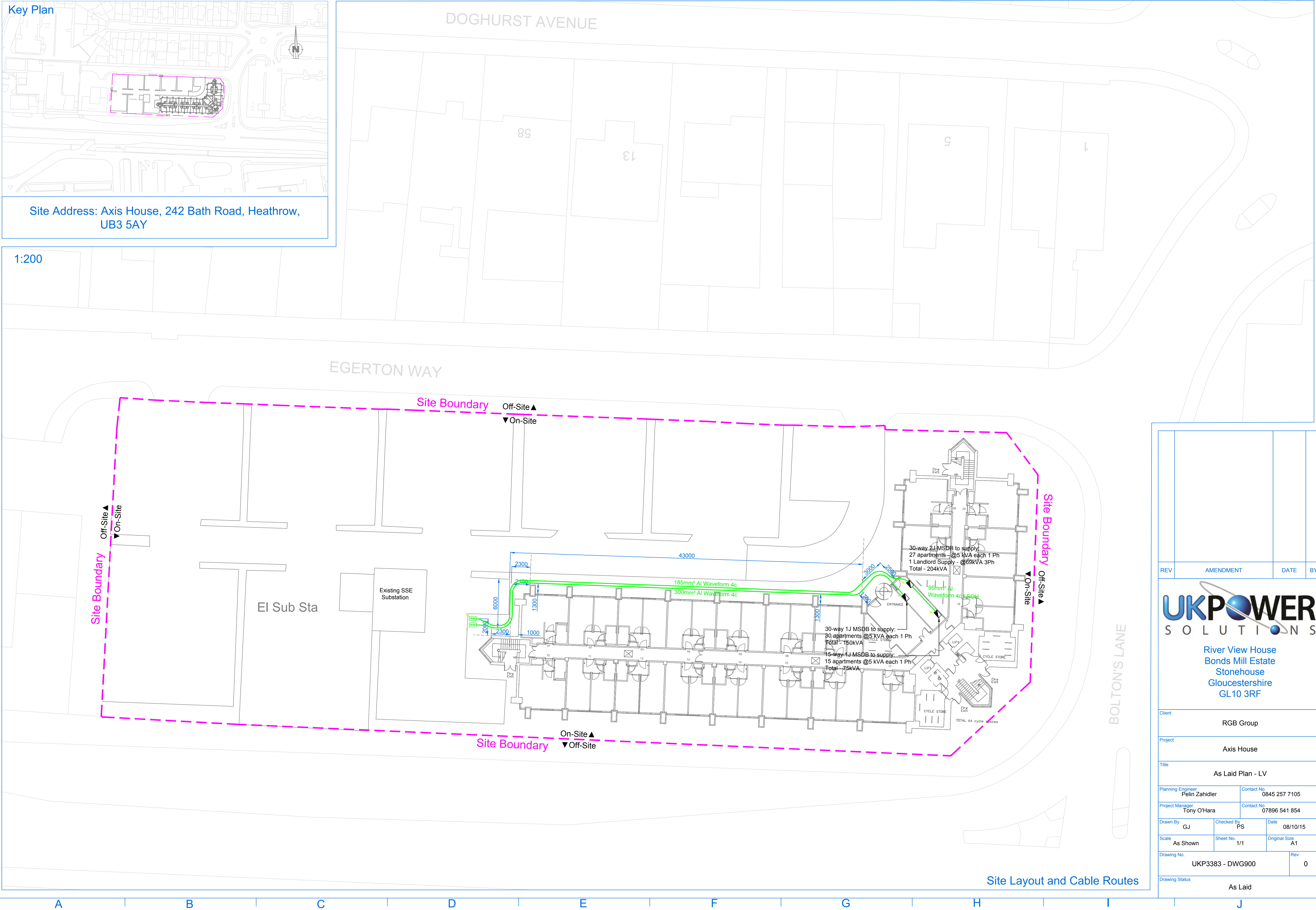
Site Layout and Cable Routes

Key Plan



Site Address: Axis House, 242 Bath Road, Heathrow, UB3 5AY

1:200





River View House
Bonds Mill Estate
Stonehouse
Gloucestershire
GL10 3RF

Client	RGB Group		
Project	Axis House		
Title	As Laid Plan - LV		
Planning Engineer	Pelin Zahidler	Contact No.	0845 257 7105
Project Manager	Tony O'Hara	Contact No.	07896 541 854
Drawn By	GJ	Checked By	PS
Scale	As Shown	Sheet No.	1/1
Date	08/10/15	Original Size	A1
Drawing No.	UKP3383 - DWG900		Rev 0
Drawing Status	As Laid		

Utility Solutions GDC Requests

From: Plantenquiries <Plantenquiries@instalcom.co.uk>
Sent: 28 March, 2018 6:08 PM
To: Utility Solutions GDC Requests
Subject: E03-18-5236 RE: Urgent Plant Enquiry - 63792 - Site at Bath Road, Harlington, Hayes - Please respond by 03/04/2018
Attachments: 63792 - Bath Road, Harlington.pdf; Guide To Excavation.pdf; CenturyLink - Instalcom Nominated Agent Letter 21.02.2018.pdf

Dear Sir or Madam,

With reference to your enquiry regarding the above noted location, we enclose the drawings on behalf of CenturyLink Communications UK Limited (formerly Level 3) indicating the approximate position of services in this area.

If you need access to the railway / underground lines as part of your works could you please contact Peter Walton (peter.walton@centurylink.com) for further information about the location of this equipment.

We would draw your attention to the fact that while the position of the plant has been shown as accurately as possible, the information is intended as a general guide only and must not be relied upon in the event of any excavations or other work in the vicinity. **We would remind you that the onus remains on you to determine the exact position for example by a hand excavated trial hole.** Instalcom accepts no liability for claims arising from any inaccuracy, omissions or errors contained herein. If you would like to query the location further, please email us accordingly and we can arrange an in depth survey, which will be charged at a cost. Enclosed is a guide to excavation works around existing plant.

Instalcom responds to plant enquiries for CenturyLink (formerly LEVEL 3), GLOBAL CROSSING (UK) LTD, GLOBAL CROSSING PEC and FIBERNET UK LTD and FIBRESPAN LTD simultaneously and therefore you only need send one copy of a plant enquiry to cover all of these companies.

If you require any further information, please do not hesitate to contact me.

Regards

Plant Enquiries Dept
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: plantenquiries@instalcom.co.uk
Web: <http://www.instalcom.co.uk>

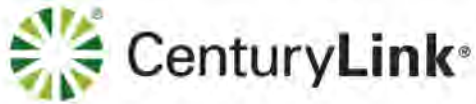




Google earth

feet
meters





To whom it may concern (Applicant)

Date as postmark

Re: On Rail Plant Protection and Diversionary Works.

History

CenturyLink Communications UK Limited ("CenturyLink") has leased from Network Rail PLC ("Network Rail") telecommunications cabling lying alongside the railway track throughout the United Kingdom, under a Finance Lease dated 30 June 1994.

CenturyLink has run cables on the railway infrastructure throughout the UK under the provision of the Network Rail Deed of Grant dated 31 March 1995.

CenturyLink has two wayleave agreements with London Underground Limited to lay Fibre Optic cables in the London Underground environment dated 30th March 1994 and 24th April 1998.

CenturyLink has a wayleave agreement with Serco and Docklands Light Railway to lay Fibre Optic cables alongside the Docklands Light Railway dated 18th March 2011

CenturyLink has an agreement with City, Greenwich, Lewisham Rail Link PLC to lay cabling along the Lewisham extension of the Docklands Light Railway dated 11th February 2002.

Application

The Applicant is proposing to undertake civil engineering works on the On Railway infrastructure (either Network Rail, London Underground Limited and Docklands Light Railway) and has requested CenturyLink to divert cabling so that the civil engineering works may proceed, and also has requested CenturyLink on completion of the civil engineering works to replace such cabling along its original route.

Please be advised that with effect from 1st June 2011 CenturyLink has engaged a nominated Agent to deal with all On Rail Plant Protection and Diversionary Works on CenturyLink's behalf.

This will cover enquiries for and from the following list of CenturyLink group companies:

CENTURYLINK COMMUNICATIONS UK LIMITED

CENTURYLINK COMMUNICATIONS EUROPE LIMITED

CenturyLink Communications UK Limited. Registered office: 7th Floor, 10 Fleet Place, London EC4M 7RB, United Kingdom. Registered in England and Wales, Company registration No. 02495998.



CenturyLink®

LEVEL 3 COMMUNICATIONS LIMITED

The nominated Agent and contact details for Instalcom are:

Instalcom Ltd
Borehamwood Ind Park
Rowley Lane, Borehamwood
WD6 5PZ, UK

Paul Alderton
paul.alderton@instalcom.co.uk
Office: +44 208 731 4600
Mobile: +44 7831 842772

The Applicant is required to liaise with the nominated Agent in order to make arrangements for the carrying out of the On Rail Plant Protection and Diversionary Works.

The nominated Agent is further authorised to collect all relevant costs associated with the On Rail Plant Protection and Diversionary Works.

The nominated Agent shall be liable for any and all charges levied against CenturyLink if the nominated Agent (including its employees, agents or sub-contractors) has acted fraudulently or negligently or breaches the authority given to it by CenturyLink for the purposes of the carrying out of the On Rail Plant Protection and Diversionary Works.

For and on behalf of CenturyLink Communications UK Limited: -

Signed Scott C. Pearce Print SCOTT C. PEARCE

Title: ASSOCIATE GENERAL COUNSEL Date 21 FEBRUARY 2018

CenturyLink Communications
UK Limited. Registered office:
7TH Floor, 10 Fleet Place, London
EC4M 7RB, United Kingdom.
Registered in England and
Wales, Company registration
No. 02495998.

SPECIAL REQUIREMENTS IN RELATION TO CENTURYLINK PLANT

1. In this special requirement, the following terms shall have the meanings assigned to it:-
 - a. "Company" means CenturyLink.
 - b. "Company Representative" means the staff of CenturyLink or its Authorized Representatives and Agents.
 - c. "Apparatus" means all surface or sub-surface equipment and plant including any associated cabling and/or ducting owned leased or rented by CenturyLink.
2. Before commencing any work or moving heavy plant or equipment over any portion of the site, the contractor shall confirm details of the Apparatus, owned, leased or rented by the Company, within the site with the Company Representative, who can be contacted at the following point: -

Instalcom Limited
Borehamwood Industrial Park
Rowley Lane
Borehamwood
Hertfordshire
WD6 5PZ
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3. Where such details show that the works or the movement of plant or equipment may endanger the Apparatus of the Company the Contractor must give the Company Representative at least 7 days written notice of the date on which it is intended to commence such works of the movement of plant and equipment in order that the presence of any sub-surface apparatus can be indicated by markers to be supplied by the Company and placed by the Contractor under the supervision of a Company Representative. The Contractor shall ensure that all Company Apparatus, particularly surface running cabling is adequately protected from damage and such protective measures shall be approved by the Company Representative.
4. In the event of a Company marker being disturbed for any reason, it shall not be replaced other than in the exact position of its former depth unless the repositioning is carried out at the direction and under the supervision of a Company Representative.
5. The Contractor shall take particular care in relation to the protection of Company Apparatus, where such Apparatus includes the presence within the site of optical fibre cabling. The contractor should particularly note that the damage to such Apparatus is extremely disruptive to the Company network and costly to reinstate. The Contractor shall make every effort to avoid the disturbance of Company Apparatus more than is absolutely necessary for the completion of the works in accordance with the contract.

6. When excavating around, moving or backfilling around Company Apparatus, the Company Representative shall be given adequate notice, which shall not be less than 3 days, of the contractor's intentions in order that he may supervise the works. The Contractor should note that the normal depth of cover for Company Apparatus and ducts are as follows: -

- a. Carriageways 600mm
- b. Footways 350mm
- c. Verges 450mm

These minimum depths of cover should be maintained wherever possible.

Where the minimum depths of cover cannot be maintained, the Contractor shall carry out the instructions of the Company Representative for the protection of Company Apparatus.

Where cables are not in duct and the required depth of cover cannot be maintained, such cables as are affected shall be enclosed and protected in UPVC duct or equivalent materials as supplied by the Company and by the method directed by the Company Representative.

With regard to excavation in the vicinity of Company Apparatus the Contractor should have particular regard to the possibility of reduced cover and the encountering of such Company Apparatus at depths of cover less than that given at **a, b and c above**.

7. All excavation adjacent to Company Apparatus is to be carried out by hand until the exact extent and/or location of Company Apparatus is known. Mechanical borers and/or excavators shall not be used within 1.0m of Company Apparatus without the supervisory presence of a Company Representative, to prevent any movement of Company Apparatus during excavations, complete shuttering shall be used as directed by the Company Representative if:-

- a. Excavation is deeper than the depth of cover of adjacent Company Apparatus.
- b. Excavation is within 1.0m of Company Apparatus in stable ground.
- c. Excavation is within 5.0m of Company Apparatus in unstable ground.

If for the completion of the works, the Contractor intends using any of the following: -

- a. Pile driving equipment within 10.0m of Company Apparatus.
- b. Explosives within 20.0m of Company Apparatus.
- c. Laser equipment within 10.0m of Company Apparatus.

The Contractor shall advise the Company Representative, giving at least 7 working days written notice in order that any special protective measure for the Company Apparatus affected may be arranged.

8. All Company manhole, joint box and /or other access points and chambers within the site shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and/or further equipment required by the Company for the maintenance of it's Apparatus, must be maintained at all reasonable times. The Contractor should particularly note that footway type jointing chambers are not specified for carriageway loadings and will need to be adequately protected and/or demolished and rebuilt under the supervision of a Company Representative where such chambers are likely to be placed at risk, either temporarily or permanently, from the movement of plant and/or equipment on the site.