



**Block F, Bounds Green Industrial Estate
South Way
London
N11 2UL**

Desk Study &
Ground Investigation



July 2023

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

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Executive summary

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

Brief

This report describes the findings of a site investigation carried out by Geotechnical and Environmental Associates Limited (GEA) on the instructions of Dovetail Architects, on behalf of Capital Industrial 3 Limited, with respect to the redevelopment of the site through the demolition of the existing buildings and subsequent construction of a new commercial unit. The purpose of the investigation has been to research the history of the site with respect to possible contaminative uses, to determine the ground conditions, to provide an indication of the presence of contamination and to provide information to assist with the design of shallow foundations.

Site history

The earliest map studied, dated 1868, shows the site to form part of two fields. A railway line in a cutting is present directly to the southwest of the site and gas works are located roughly 220 m to the north of the site. The 1936 OS map shows the site to be occupied by allotments with a bottle works roughly 60 m to the northeast, which was linked to the main train line by a tramway roughly 30 m to the north of the site. Between 1951 and 1967, Bounds Green Industrial Estate was constructed, including an engineering works in roughly the centre of the site. The remainder of the estate was primarily occupied by a range of works. A tank is shown approximately 60 m to the east of the site, associated with the bottle works. The bottle works are shown to have been demolished by 1973 and replaced with Middlesex Polytechnic by 1979. The surrounding area has since remained essentially unchanged. However, by 1990, a building was constructed towards the southwest of the site.

Two landfill sites are located within 250 m to the southwest of the site, on the opposite side of the railway cutting.

Ground conditions

The investigation encountered a moderate thickness of made ground, over Head Deposits and then the London Clay Formation. The made ground typically comprised brown or grey sandy gravelly clay with variable amounts of extraneous material, to depths of between 1.00 m and 1.30 m. The Head Deposits comprised firm brown mottled grey slightly gravelly clay to depths of between 1.60 m and 2.50 m. The underlying London Clay comprised firm becoming stiff fissured brown mottled grey and orange-brown silty clay to the maximum depth investigated, of 5.45 m. Tree roots

were encountered to a maximum depth of 1.60 m. Groundwater was not encountered during the investigation.

Contamination testing has identified elevated concentrations of lead, sulphide, dibenz(a,h)anthracene and asbestos. In addition, fragments of asbestos containing material were observed on the surface in close proximity to Borehole No 2.

Recommendations

Moderate width strip or pad foundation, bearing in the firm sandy gravelly clay of the Head Deposits or underlying London Clay should be placed at a minimum depth of 1.5 m, allowing for restricted new planting in accordance with Table 4 of NHBC Standards Chapter 4.2 (2023). If trees are excluded within the zone of influence shown in Table 4 of the NHBC guidance, the minimum depth can be reduced to 1.00 m subject also to the further advice on new tree and shrub planting as detailed in the NHBC guidelines. The foundations may be designed to apply a net allowable bearing pressure of 100 kN/m². This value incorporates an adequate factor of safety against bearing capacity failure and should ensure that settlement remains within normal tolerable limits. Foundations will need to be deepened in the vicinity of existing and proposed trees and NHBC guidelines should be followed in respect.

In-situ CBR testing recorded CBR values of between 5 % and in excess of 30 %, such that if the made ground is partly excavated, screened and recompacted it should provide a CBR value in the order of 5 %, but at this stage it would be prudent to design all pavements in the made ground on the basis of a CBR value of less than 2 %.

The results of falling head permeability tests have indicated that the use of shallow soakaways will not be feasible.

Site workers should be made aware of the asbestos contamination, with exposed soils kept damp to avoid dust generation. An asbestos contractor will need to hand pick and suitably bag any asbestos-containing material and also monitor dust levels using air monitoring. The investigation was limited to the external areas only and it is recommended that further investigation is carried out beneath the building footprint once access becomes available.

There is no pathway for landfill gas to reach the site and as such gas monitoring and exclusion systems are not deemed necessary.



Part 1: Investigation Report

This section of the report details the objectives of the investigation, the work that has been carried out to meet these objectives and the results of the investigation. Interpretation of the findings is presented in Part 2.

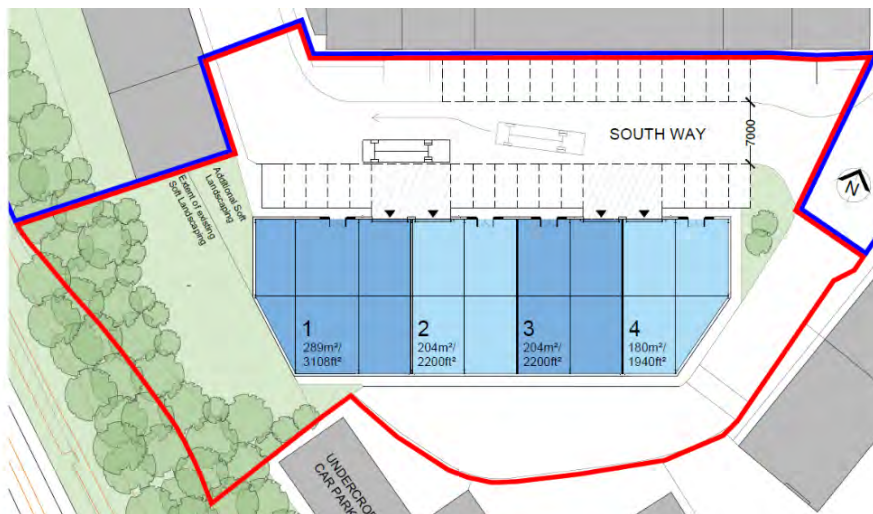
1.0 Introduction

Geotechnical and Environmental Associates Limited (GEA) has been commissioned by Dovetail Architects, on behalf of Capital Industrial 3 Limited, to carry out a desk study and ground investigation at Block F, Bounds Green Industrial Estate, South Way, London N11 2UL.

1.1 Proposed Development

It is understood that it is proposed to demolish the existing buildings and subsequently construct a new commercial unit; the majority of the remainder of the site will be covered by hardstanding.

This report is specific to the proposed development and the advice herein should be reviewed once the development proposals are finalised.



1.2 Purpose of Work

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

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

1.3 Scope of Work

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

- a review of historical Ordnance Survey (OS) maps and environmental searches sourced from the Envirocheck database;
- commissioning of a preliminary UXO risk assessment from 1st Line Defence;
- a review of readily available geology maps; and
- a walkover survey of the site carried out in conjunction with the fieldwork.

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

- four boreholes were advanced to a depth of 5.45 m by an opendrive sampler rig;
- standard penetration tests (SPTs) carried out at regular intervals within the boreholes to provide quantitative data on the strength of the soils;



- a single falling head test completed within a single borehole;
- a single hand-dug trial pit to a depth of 1.55 m in an area with limited accessibility;
- a series of five in-situ California Bearing Ratio (CBR) tests and in-situ Dynamic Cone Penetrometer tests (DCPs);
- testing of selected soil samples for contamination and geotechnical purposes; and
- provision of a report presenting and interpreting the above data, together with our advice and recommendations with respect to the proposed development.

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

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

2.0 The Site

2.1 Site Description

The site is located in the London Borough of Haringey, approximately 720 m south of New Southgate railway station and 780 m northwest of Bounds Green London Underground station. It fronts onto South Way to the north and is bounded by Ringway to the south and east and by a railway line to the west. The site may be additionally located by National Grid Reference 529175, 191691 and is shown on the map extract below.



A walkover of the site was carried out by a geotechnical engineer from GEA at the time of the fieldwork. The site is irregular in shape, with maximum dimensions of approximately 80 m east to west by 35 m north to south. It is occupied by two separate commercial buildings with the remainder of the site covered by hardstanding or compacted hardcore.

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



The northern building is a single storey building, divided into two units. The western unit was vacant at the time of the investigation and missing a roof, due to suspected fire damage, but appeared to have been most recently used for manufacturing on the basis of the remnants inside. The eastern unit was still occupied by a glazing specialist. The southern unit was formerly used as a MOT and servicing garage. The site slopes gently down to the west and from the western boundary slopes down steeply towards the railway line, which is at a level approximately 5 m lower than the site. The site is essentially devoid of vegetation, with the exception of a number of shrubs and a semi-mature fruit tree along the western boundary.

An above ground storage tank was present in the east of the forecourt of the former garage. The tank appeared to be mostly full, containing some form of oil. It appeared to be in reasonable condition, but not bunded. No staining was noted beneath or around the tank.

The area to the north is roughly 2.5 m lower than the site and is supported by a retaining wall along the northern boundary. The local topography slopes down towards the north.

2.2 Site History

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

The earliest map studied, dated 1868, shows the site to form part of two fields, with a boundary running through the centre of the site. A railway line in a cutting is present directly to the southwest of the site and gas works are located roughly 220 m to the north of the site. Bounds Green Farm is shown approximately 150 m to the east of the site. Additionally, a stream, later named the Bounds Green Brook, is located roughly 140 m to the northwest of the site, flowing in a northeast direction.

By 1896, a shallow excavated area was located stretching from 20 m to the southeast to 100 m, filter beds were located on the opposite side of the railway, located roughly 200 m to the west of the site and by 1913, the filter beds had expanded to be from approximately 160 m to the west of the site. Additionally, the gas works had expanded by this time, such that the nearest gas holder and a tank were located 200 m to the north of the site. The stream to the north was partially culverted by 1913 and completely so by 1936.

The 1935 OS map shows Bounds Green Farm had been cleared and replaced with a number of terraced houses, tennis courts and a bowling green, extending south to the railway line. The 1936 OS map shows a bottle works roughly 60 m to the northeast of the site, which is

linked to the main train line by a tramway roughly 30 m to the north of the site. The area to the north of the tramway, at a distance of 100 m from the site was occupied by a series of irregular mounds. The site was occupied by allotment gardens at this time. The filter beds and gas works had further expanded by this time, to be approximately 130 m and 160 m from the site, respectively. Bounds Green Brook had also been largely culverted by this time.

The 1946 aerial photograph shows the site to be occupied by allotments and the area to the north was occupied by hummocky ground. Two commercial buildings had been constructed approximately 60 m to the southeast, labelled as an engineering works and down quilt factory on the 1951 OS map. Additionally, a coal yard was located with these, approximately 30 m to the east of the site. The 1951 map shows a refuse heap located 100 m to the northeast of the site, adjacent to the mounded hummocky ground, which continues to be present until some time between 1951 and 1967. Also by 1967, Bounds Green Industrial Estate had been constructed, including an engineering works in roughly the centre of the site. The remainder of the estate was primarily occupied by a range of works. The filter beds were no longer marked and a warehouse had been constructed in the place of the coal yard. A tank is shown approximately 60 m to the east of the site, associated with the bottle works.

The bottle works is shown to have been demolished by 1973 and replaced with Middlesex Polytechnic by 1979. The surrounding area has since remained essentially unchanged. However, by 1990, a building was constructed towards the southwest of the site.

2.3 Other Information

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

The Envirocheck report has indicated there are two landfill sites located within 250 m of the site. One located 46 m to the southwest, which accepted waste including inert waste between December 1940 and December 1980 and associated to the infilling of the filter beds, and another located 197 m to the southwest.

There is a single waste management facility located within 250 m of the site, located 77 m to the northwest, associated with a vehicle dismantlers, which operated between February 1993 and January 2004. Additionally, there is a single waste treatment or disposal site located within 250 m of the site, located 59 m to the west, which is associated with a



scrapyard and is still operational as far as is known and accepts cars/lorries/vehicles/bodies, including lead/acid batteries and tyres. Both of these sites commenced on the same date and operated under Kengrade Ltd and are expected to represent the same entry. No waste transfer sites are located within 250 m of the site.

Two areas of potentially infilled land are located within 250 m of the site, located 153 m to the north and 218 m to the west, associated with a pond, marsh, river or stream.

A single fuel station entry is listed within 500 m of the site, located 125 m to the northwest, associated with the existing BP garage.

A single pollution incident to controlled waters is located within 250 m of the site, located 173 m to the north of the site, recorded as a Category 3 minor incident involving oils in November 1991.

Eight contemporary trade directory entries are listed on site, seven of which are inactive and associated with a printers, precision engineers, garage service, upholstery manufacturers, pest and vermin control and catering equipment. An active printers is listed on site. A further 43 are listed within 100 m of the site site; a summary of the most notable contemporary trade directories are summarised below.

Distance	Location	Entry	Active / Inactive
4 m NE	Unit C2, Bounds Green Industrial Estate	Medical Instruments - Manufacturers	Inactive
5 m NW	Unit C7, Bounds Green Industrial Estate	Laundries and Launderettes	Inactive
6 m W	Unit E1, Bounds Green Industrial Estate	Clothing and Fabrics - Manufacturers	Inactive
8 m W	Unit E2, Bounds Green Industrial Estate	Clothing and Fabrics - Manufacturers	Inactive
8 m E	2, Horizon Trade Park	Mechanical Engineers	Active
12 m W	Unit E2, Bounds Green Industrial Estate	Picture and Picture Frame Renovating and Restoring	Inactive
12 m W	Unit E2, Bounds Green Industrial Estate	Medical and Dental Laboratories	Inactive
17 m W	Unit E3, Bounds Green Industrial Estate	Car Breakers and Dismantlers	Inactive

Distance	Location	Entry	Active / Inactive
26 m W	Unit E4, Bounds Green Industrial Estate	Clothing and Fabrics - Manufacturers	Inactive
34 m N	North Way	Engineers - General	Inactive
41 m E	Unit 6, Sussex Works	Clothing and Fabrics - Manufacturers	Active
47 m SE	3 Munro Drive	Machine Shops	Inactive
53 m NW	Unit D1, Bounds Green Industrial Estate	Printers	Inactive
55 m NW	Unit D1, Bounds Green Industrial Estate	Printers	Inactive
55 m NW	Unit F3, Bounds Green Industrial Estate	MOT Testing Centre	Inactive
55 m NW	Unit A2	Joinery Manufacturers	Inactive
55 m NW	Unit B8, Bounds Green Industrial Estate	Clothing and Fabrics - Manufacturers	Inactive
57 m N	Unit D3, Bounds Green Industrial Estate	Dry Cleaners	Active
57 m N	Unit B3, Bounds Green Industrial Estate	Laundries and Launderettes	Inactive
59 m NE	12 Gateway Mews	Car Dealers	Inactive
59 m NE	12 Gateway Mews	Air Conditions and Refrigeration Contractors	Active
61 m NW	Unit B2, Bounds Green Industrial Estate	Screen Process Printers	Inactive
61 m NW	Unit B1, Bounds Green Industrial Estate	Clothing and Fabrics - Manufacturers	Inactive
74 m N	Unit B5-7, Bounds Green Industrial Estate	Car Body Repairs	Inactive
74 m N	Unit D1, Bounds Green Industrial Estate	Printers	Inactive
74 m N	Ringway, Bounds Green Industrial Estate	Car Body Repairs	Inactive
76 m N	Unit 3F, Bounds Green Industrial Estate	Garage Services	Inactive
79 m NE	Unit 2, Gateway Mews	Footwear Manufacturers and Wholesale	Active



Distance	Location	Entry	Active / Inactive
85 m N	Horizon Trade Park	Digital Printing	Inactive
87 m N	Unit A2, Bounds Green Industrial Estate	Joinery Manufacturers	Inactive
89 m E	10 Gateway Mews	Tungsten Tool Manufacturers and Distributors	Inactive
89 m E	10 Gateway Mews	Clothing Accessory Manufacturers	Inactive
94 m NW	Bounds Green Industrial Estate	Clothing and Fabrics - Manufacturers	Inactive

The site is located within a nitrate vulnerable zone, but does not lie within any other areas of sensitive land use.

Reference to records compiled by the Health Protection Agency (formerly the National Radiological Protection Board) indicates that the site falls within an area where less than 1% of homes are affected by radon emissions and therefore radon protective measures will not be necessary.

2.4 Preliminary UXO Risk Assessment

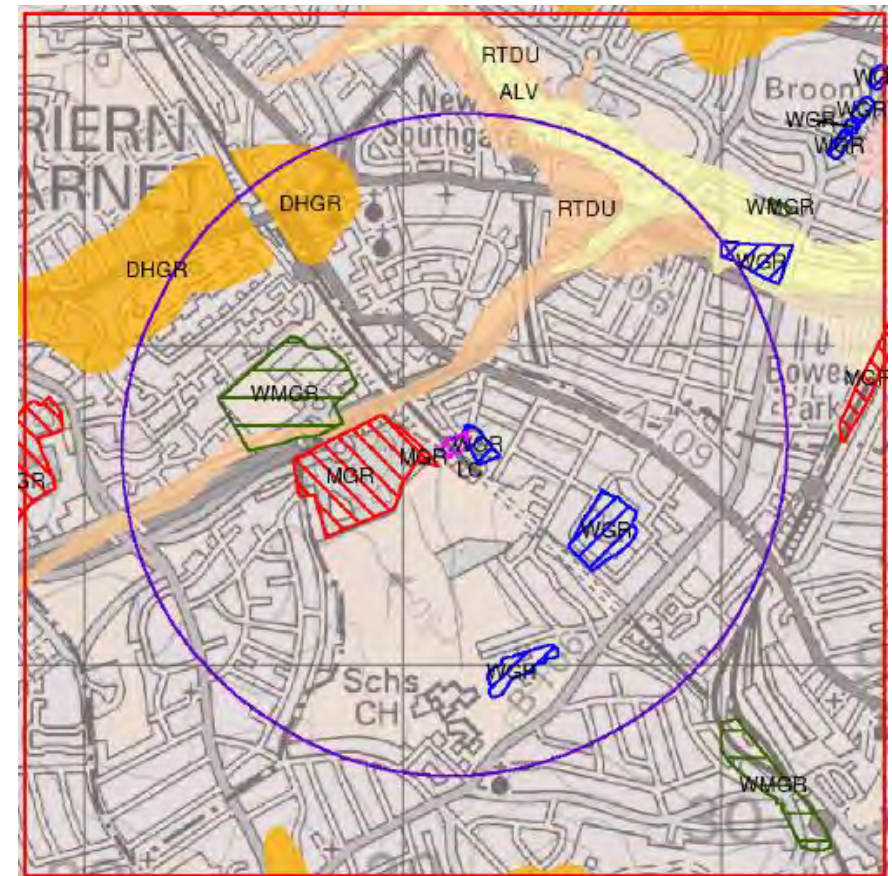
A Preliminary UXO Risk Assessment has been completed by 1st Line Defence (report ref PA17432-00, dated 22nd February 2023), and the report is included in the appendix. The risk assessment has been carried out in accordance with the guidelines provided by CIRIA², which state that the likelihood of encountering and detonating UXO below a site should be assessed along with establishing the consequences that may arise. The first phase comprises a preliminary risk assessment, which should be undertaken at an early stage of the development planning. If such an assessment identifies a high level of risk then a detailed risk assessment should be carried out by a UXO specialist, which will identify an appropriate course of action with regard to risk mitigation.

The report indicates that, during World War II (WWII), the site was located within the Municipal Borough of Wood Green, which sustained a high bomb density. London Bomb Census mapping does not record any bomb strikes either on site or in the vicinity, with the nearest 160 m to the northeast and 120 m to the south. Given that the site was located adjacent to the railway and factories, it is likely that there would have been regular inspections. On the basis of the findings of the report, the risk from UXO was not considered

to be significantly elevated above the background level for London and as such, no further research was recommended.

2.5 Geology

The British Geological Survey (BGS) map of the area (sheet 256) indicates that the site is directly underlain by the London Clay with an area of worked ground, directly to the south of the site and made ground to the west.



2 CIRIA C681 (2009) *Unexploded ordnance (UXO) A guide for the construction industry*



A series of BGS boreholes are located within 100 m to the north and east of the site. These encountered a variable thickness of made ground, over the London Clay Formation to the maximum depth of the boreholes, of 30.00 m. The London Clay comprised firm becoming stiff fissured grey mottled brown silty clay with claystones and lenses of silt.

2.6 Hydrology and Hydrogeology

The London Clay Formation is classified as an Unproductive Stratum, referring to rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow. The London Clay cannot support a water table or effectively transmit groundwater flow because of its low permeability and cohesive nature. The permeability will be predominantly secondary, through fissures in the clay. Published data indicates the horizontal permeability of the London Clay to generally range between 1×10^{-11} m/s and 1×10^{-9} m/s.

The nearest surface water feature is an unknown feature, located 208 m to the southeast of the site.

Groundwater was not encountered within the aforementioned BGS boreholes. The site is not located within a groundwater source protection zone.

The site is not within an area shown by the Environment Agency to be at risk from flooding from rivers or the sea or from surface water and is shown not to be at risk of groundwater flooding, as defined by the BGS.

The site is almost entirely covered by the existing buildings and hardstanding and therefore infiltration of rain water into the ground beneath the site is limited such that the majority of surface runoff is likely to drain into combined sewers in the road.

2.7 Preliminary Risk Assessment

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

2.7.1 Source

The desk study findings indicate that the site does have a potentially contaminative history having been occupied by a commercial unit, which has been used as a printers and engineers and by a garage, including an above ground storage tank, since sometime between 1951 and 1967. Additionally, the surrounding area has had a number of commercial uses, including a dry cleaners, laundry and launderette, car dismantlers, printers, vehicle garages and various manufacturers since roughly the same time. With reference to the relevant DoE Industry Profiles³, the following are considered to be potential contaminants associated with the above list of contaminative uses.

- ☒ metals, metalloids and their compounds;
- ☒ inorganic elements and compounds;
- ☒ light oils from machining operations;
- ☒ polychlorinated biphenyls (PCBs);
- ☒ petroleum hydrocarbons (TPH) and polyaromatic hydrocarbons (PAH) from fuel oils;
- ☒ various solvents including chlorinated solvents; and
- ☒ asbestos.

Two landfill sites are listed within 250 m of the site, located 46 m and 197 m to the southwest of the site, which represent possible sources of landfill gas. The historical uses of the surrounding sites could result in the generation of hydrocarbon or solvent vapour. A refuse heap and area of hummocky ground was identified by the desk study to the northeast of the site, although these features were above ground and do not represent a source of ground gas.

2.7.2 Receptor

The continued use of the site for commercial purposes will result in the end users representing moderately sensitivity receptors. As the site is underlain by an Unproductive Stratum, groundwater is not considered to be a particularly sensitive receptor. Adjacent sites are considered to be moderately sensitive receptors; Buried services are likely to come



into contact with any contaminants present within the soils through which they pass and site workers are potential receptors during construction or maintenance works.

2.7.3 Pathway

The presence of negligibly permeable London Clay will limit the potential for groundwater percolation into the underlying chalk, and thus a pathway is not considered likely to exist to the major aquifer. Within the site, end users will be isolated from direct contact with any contaminants present within the made ground by the presence of the buildings and the extent of the hardstanding. Perched water within the made ground could allow the migration of contamination to neighbouring sites. Buried services may be exposed to any contaminants present within the soil through direct contact and site workers will come into contact with the soils during construction works.

The railway cutting is likely to provide a vent which cuts-off the pathway for any landfill gas migrating towards the site from the identified landfill sites to the southwest, such that no pathway is likely to exist to the site.

The site slopes down towards the northwest, such that any mobile contamination within the made ground is likely to follow the local topography and flow towards the northwest, such that any sources of contamination located to the north of the site are unlikely to mobilise towards the site.

2.7.4 Preliminary Risk Appraisal

On the basis of the above it is considered that there is a MEDIUM to LOW risk of there being a significant contaminant linkage at this site which would result in a requirement for major remediation work.

The desk study has identified a risk of landfill gas. However, given the location and depth of the railway cutting, there is no contamination linkage to the site.

3.0 Exploratory Work

In order to meet the objectives described in Section 1.2, four boreholes were advanced to a depth of 5.45 m using an opendrive sampler rig and a single trial pit was hand excavated to a depth of 1.55 m to provide additional coverage in an area with limited accessibility. The borehole locations were limited to the external areas of the site while the buildings remained in use. Additionally, a series of five California Bearing Ratio (CBR) tests was completed across the site.

During boring, disturbed samples were obtained from the boreholes for subsequent laboratory examination and testing. Standard Penetration Tests (SPTs) were carried out at regular intervals to provide additional quantitative data on the strength of soils encountered. A selection of the samples recovered from the boreholes was submitted to a soil mechanics laboratory for a programme of geotechnical testing and an analytical laboratory for a programme of contamination testing.

All of the above work was carried out under the supervision of a geotechnical engineer from GEA. The borehole, trial pit and CBR records are appended, together with a site plan indicating the exploratory positions.

3.1 Sampling Strategy

Due to the proximity of the site to the railway, the borehole and CBR locations were agreed with Network Rail, and were positioned on site by a GEA engineer to provide optimum coverage of the site within accessible areas, whilst avoiding known or suspected services.

Six samples of the made ground has been tested for the presence of contamination. The analytical suite of testing was selected to identify hydrocarbon contamination resulting from the former use of the site and a range of typical industrial contaminants for the purposes of general coverage. The analytical suite for the soil included a range of metals, total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAH), total cyanide and monohydric phenols. In addition, the samples were screened for the presence of asbestos. A selection of the samples were tested for the presence of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).

The analyses were carried out at an MCERTs accredited laboratory with the majority of the testing suite accredited to MCERTS standards. A summary of the MCERTs accreditation and test methods are included with the attached results and further details are available upon request.



4.0 Ground Conditions

The investigation has identified slightly different ground conditions to those expected, in that, beneath a moderate thickness of made ground, soils interpreted as Head Deposits were encountered over the London Clay Formation.

4.1 Made Ground

Beneath a surface covering of tarmac, concrete or hardcore the made ground typically comprised brown or grey sandy gravelly clay with variable amounts of whole bricks, brick and concrete fragments, coal, ash, slag, pottery, tile, breeze block, organic material, carbonaceous material roots and rootlets, to depths of between 1.00 m and 1.30 m.

Fragments of suspected asbestos containing material (ACM) were identified on the surface in close proximity to Borehole No 2.

Apart from the presence of fragments of suspected ACM on the surface surrounding Borehole No 2 and extraneous material noted above, no other visual or olfactory evidence of contamination was observed during the fieldwork. Six samples of the made ground have however been analysed for a range of contaminants as a precautionary measure and the results are detailed within Section 4.5.

4.2 Head Deposits

This material was encountered in each of the boreholes and comprised firm brown mottled grey slightly sandy slightly gravelly clay with decayed roots, sand horizons and roots and rootlets, to depths of between 1.60 m and 2.50 m.

Roots were encountered to a maximum depth of 1.60 m.

The results of plasticity index tests indicate the clay to be of medium volume change potential.

4.3 London Clay

The London Clay comprised firm becoming stiff fissured brown mottled grey and orange-brown silty clay, to the maximum depth investigated, of 5.45 m.

The results of plasticity index tests indicate the clay to be of high volume change potential.

4.4 Groundwater

Groundwater was not encountered within any of the exploratory locations.

4.5 Soil Contamination

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

Determinant	BH1 0.90 m	BH2 0.20 m	BH3 0.50 m	BH4 0.60 m	TP1 0.50 m	DCP2 0.40 m
pH	8	11.1	8.7	6.6	7.2	12.1
Arsenic	18	12	18	27	33	15
Cadmium	< 0.2	0.6	< 0.2	< 0.2	< 0.2	< 0.2
Chromium	33	78	39	21	24	25
Copper	150	68	78	40	41	26
Lead	130	2400	100	120	120	36
Mercury	0.6	< 0.3	< 0.3	0.3	0.3	< 0.3
Nickel	35	36	31	10	14	19
Selenium	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	150	940	240	67	110	59
Total Cyanide	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total PAH	13.1	315	9.37	15.8	9.05	4.44
Benzo(a)pyrene	1.2	29	0.85	1.5	0.86	0.39
Naphthalene	< 0.05	0.94	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	0.21	4.6	0.12	0.29	0.13	0.05
TPH	30	1400	13	43	11	25
Sulphide	29	780	17	4.2	15	14
Total Organic Carbon %	2.5	3	0.9	2	2.2	0.4

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



High concentrations of total TPH have been recorded in the sample from Borehole No 2, such that speciated testing was triggered. However, no individual carbon chain lengths were elevated.

In addition, each of the samples of the made ground, have been screened for the presence of asbestos with loose fibres of chrysotile asbestos, at a concentration of less than 0.001 % identified in the samples from Borehole No 2.

4.5.1 Generic Quantitative Risk Assessment

The use of a risk-based approach has been adopted to provide an initial screening of the test results to assess the need for subsequent site-specific risk assessments. Contaminants of concern are those that have values in excess of generic human health risk-based guideline values, which are either the CLEA⁴ Soil Guideline Values where available, the Suitable 4 Use Values⁵ (S4UL) produced by LQM/CIEH calculated using the CLEA UK Version 1.07⁶ software, or the DEFRA Category 4 Screening values⁷, assuming a residential end use without plant uptake. The key generic assumptions for this end use are as follows:

- that groundwater will not be a critical risk receptor;
- that the critical receptor for human health will be a working female aged 16 years old to 65 years old;
- that the exposure duration will be 49 years;
- that the critical exposure pathways will be direct soil and indoor dust ingestion, skin contact with soils and dust, and inhalation of dust and vapours; and
- that the building type equates to a three-storey office.

It is considered that these assumptions are conservative for the proposed commercial end use but enable the risks to site workers to be adequately assessed. The tables of generic

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

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

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

The results of the chemical analyses have indicated the sample from Borehole No 2 to contain elevated concentrations of lead, sulphide and dibenz(a,h)anthracene. Additionally, loose fibres of chrysotile asbestos, at a concentration of less than 0.001 % were identified from the same sample.

The significance of these results is considered further in Part 2 of the report.

⁴ Updated Technical Background to the CLEA Model (Science Report SC050021/SR3) Jan 2009 and Soil Guideline Value reports for specific contaminants; all DEFRA and Environment Agency.

⁵ The LQM/CIEH S4ULs for Human Health Risk Assessment S4UL3065 November 2014

⁶ Contaminated Land Exposure Assessment (CL|EA) Software Version 1.071 Environment Agency 2015

⁷

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



Part 2: Design Basis Report

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

5.0 Ground Model

The desk study has indicated that the site has a potentially contaminative history as it has been occupied by a printers, engineers and garage, including an above ground storage tank, since at least 1967. In addition, the surrounding area has had a number of commercial uses, including a dry cleaners, laundry and laundrette, car dismantlers, printers, vehicle garages and various manufacturers since roughly the same time. The site is not at risk from migrating landfill gas.

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

-  below a moderate thickness of made ground, Head Deposits were encountered, over the London Clay Formation;
-  the made ground typically comprises brown or grey sandy gravelly clay with variable amounts of extraneous material, to depths of 1.00 m and 1.30 m;
-  fragments of suspected asbestos containing material (ACM) was observed on the surface in close proximity to Borehole No 2;
-  the Head Deposits comprise firm brown mottled grey slightly gravelly clay to depths of between 1.60 m and 2.50 m;
-  the London Clay comprises firm becoming stiff fissured brown mottled grey and orange-brown silty clay, to the maximum depth investigated, of 5.45 m;
-  roots and rootlets were encountered to a maximum depth of 1.60 m;
-  groundwater was not encountered within any of the exploratory locations; and
-  chemical analyses have indicated the sample from Borehole No 2 to contain elevated concentrations of lead, sulphide, dibenz(a,h)anthracene and asbestos fibres, with regards to a commercial end use.

6.0 Advice & Recommendations

The firm sandy gravelly clay of the Head Deposits or underlying London Clay should provide a suitable bearing stratum for spread foundations supporting the anticipated light loads.

6.1 Spread Foundations

Moderate width strip or pad foundations bearing on the firm sandy gravelly clay of the Head Deposits or London Clay should be placed at a minimum depth of 1.5 m, allowing for restricted new planting in accordance with Table 4 of NBHC Standards Chapter 4.2 (2023). If trees are excluded within the zone of influence shown in Table 4 of the NHBC guidance, the minimum depth can be reduced to 1.0 m subject also to the further advice on new tree and shrub planting as detailed in the NHBC guidelines. The foundations may be designed to apply a net allowable bearing pressure of 100 kN/m². This value incorporates an adequate factor of safety against bearing capacity failure and should ensure that settlement remains within normal tolerable limits. The recommended bearing pressure takes account of the variable nature of the soils and any foundations should be nominally reinforced where they span clay and granular material to protect against differential settlement.

Foundations will need to be deepened in the vicinity of existing and proposed trees and National House Building Council (NHBC) guidelines should be followed in this respect. High shrinkability clays should be assumed. Where trees are to be removed the required founding depth should be determined on the basis of the existing tree height if it is less than 50% of the mature height and on the basis of full mature height if the current height is more than 50% of the mature height. Where a tree is to be retained the final mature height should be adopted. Notwithstanding NHBC guidelines, all foundations should extend beyond the zone of desiccation. In this respect it would be prudent to have all foundation excavations inspected by a suitably experienced engineer. Due allowance should be made for future growth of the trees.

The requirement for compressible material alongside foundations should be determined by reference to the NHBC guidelines. If trees are to be planted in close proximity to the new buildings founding depths should be deepened in accordance with NHBC guidelines and using the mature height of the tree. High shrinkability clay should be assumed.



6.2 Shallow Excavations

On the basis of the borehole findings it is considered that it will be generally feasible to form relatively shallow excavations terminating within the made ground, Head Deposits or London Clay without the requirement for lateral support, although localised instabilities may occur where more granular material or groundwater is encountered.

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

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

6.3 Ground Floor Slab

Within the zone of influence of trees, all ground floor slabs should be fully suspended over a void in accordance with NHBC guidelines. Outside the influence of trees, following the removal of the moderate thickness of made ground, it should be possible to adopt a lightly loaded ground bearing floor slab directly on the Head Deposits or London Clay, subject to proof rolling and infilling any soft spots with compacted granular fill. Alternatively a suspended floor slab could be adopted within the made ground.

6.4 Effect of Sulphates

Chemical analyses have revealed low concentrations of soluble sulphate and a near neutral to alkali pH in accordance with Class DS-1 conditions of Table C2 of BRE Special Digest 1:SD Third Edition (2005). The measured pH values of the samples show that an ACEC class of AC-1s would be appropriate for the site. This assumes a static water condition at the site. The guidelines contained in the digest should be followed in the design of foundation concrete.

6.5 Disposal of Surface Water

A single falling head test was completed within Borehole No 1, the water level was recorded to slightly rise over the three and a half hour test, such that shallow soakaway drainage is not likely to be feasible and consideration should be given to discharging surface water into the sewer drainage.

6.6 Pavement Design

A series of three in-situ California Bearing Ratio (CBR) tests were carried out in vehicular accessible parts of the site and two Dynamic Cone Penetrometer (DCP) tests were completed in the southern half where vehicular access was limited. Each of the tests were located within the made ground and yielded CBR values of between 5 % and greater than 30 %.

If the made ground is partly excavated, screened and recompacted it should provide a CBR value in the order of 5 %, but at this stage it would be prudent to design all pavements in the made ground on the basis of a CBR value of less than 2 %.

6.7 Contamination Risk Assessment

The site has been occupied by a printers, engineers and garage, including an above ground storage tank, since at least 1967. In addition, the surrounding area has had a number of commercial uses, including a dry cleaners, laundry and laundrette, car dismantlers, printers, vehicle garages and various manufacturers since roughly the same time.

Elevated concentrations of lead, sulphide and dibenz(a,h)anthracene were recorded in the made ground from Borehole No 2 which was positioned in the west of the site adjacent to the existing fire damaged building. In addition, fragments of suspected asbestos containing material (ACM) were identified on the surface in close proximity to Borehole No 2 and loose fibres of chrysotile asbestos were identified in the sample of the made ground from that location, at a concentration of 0.001 %.

The exact source of the lead contamination is unknown but the made ground was noted as containing fragments of extraneous material. As a result the lead contamination is not expected to be in a soluble state and should not, therefore, pose a risk to adjacent sites, groundwater or buried services.



The source of the sulphide contamination is unknown, but this contaminant does not represent a significant risk to end users, adjacent sites or groundwater, although the risk to site workers is discussed below.

An evaluation of the speciated results of the PAH contamination from Borehole No 2 has identified it is of uncertain origin, but the ratio of certain PAH compounds is indicative of the sample being part burnt coal, coal tar or tarmac. Given that fragments of coal and ash were observed within the made ground, it is likely that fragments of such material are the source of the dibenz(a,h)anthracene contamination. As such, no risk is envisaged to end users, neighbouring sites, groundwater, or site workers.

As asbestos is insoluble, it is not considered to pose any meaningful risk to groundwater, the development or to neighbouring sites through migration in the ground. It is however potentially hazardous to human health as airborne fibres and could thus pose a risk through inhalation. At a maximum concentration of less than 0.001 %, asbestos is not considered capable of generating airborne fibres at concentrations in excess of 0.1 fibres per ml air and therefore does not pose a significant risk to site workers. The asbestos containing material is only a risk to humans if the asbestos fibres are made airborne. In wet soil, the asbestos is highly unlikely to be released so the risk is minimal, but it is essential that the soil is not allowed to dry out and produce dust and this could be achieved by capping or damping down. It is recommended that an asbestos expert is consulted and that air monitoring is carried out during groundworks.

It is recommended that an asbestos contractor be contacted to hand pick and suitably bag and fragments of ACM visible on the surface prior to any groundworks. This will involve the work being carried out in accordance with the Control of Asbestos Regulation, including tool box talks for all workers and having the correct PPE in place.

A requirement for landfill gas monitoring has not been identified.

6.7.1 End Users

The majority of the soil is to remain either beneath the proposed building or external hardstanding, such that a risk to end users is only present within areas of soft landscaping, which are proposed in the west and east of the site. It is recommended that in areas of soft landscaping, that a cover thickness of imported subsoil and topsoil of up to 600 mm in thickness should be specified for new areas of soft landscaping, in accordance with BRE guidance. Imported soils should be certified as clean with appropriate documentation. The clean cover should include 150 mm thickness of certified topsoil at the surface.

6.7.2 Site Workers

Apart from the physical hazards represented by the fill materials, concentrations of potentially carcinogenic lead have been measured in the shallow soils in the southwest of the site. Site workers should be made aware of the contamination and a programme of working should be identified to protect workers handling any soil. The method of site working should be in accordance with guidelines set out by HSE⁸ and CIRIA⁹ and the requirements of the Local Authority Environmental Health Officer. A specialist contractor should be contacted to remove any made ground suspected to contain asbestos and the excavated material kept damp and not stockpiled on site or left to dry out.

A watching brief should be maintained during the site works and if any suspicious soil is encountered, it should be inspected by a suitably qualified engineer and further testing carried out if required.

6.8 Waste Disposal

Under the Waste Framework Directive, waste is classified as being either Hazardous or Non-Hazardous and landfills receiving waste are classified as accepting hazardous or non-hazardous wastes or the non-hazardous sub-category of inert waste in accordance with the Waste Directive. Waste classification is a staged process and this investigation represents the preliminary sampling exercise of that process. Once the extent and location of the waste that is to be removed has been defined, further sampling and testing may be necessary. The results from this ground investigation should be used to help define the sampling plan for such further testing, which could include WAC leaching tests where the totals analysis indicates the soil to be a hazardous waste or inert waste from a contaminated site. It should however be noted that the Environment Agency guidance

8 HSE (1992) HS(G)66 *Protection of workers and the general public during the development of contaminated land* HMSO

9 CIRIA (1996) *A guide for safe working on contaminated sites* Report 132, Construction Industry Research and Information Association



WM3¹⁰ states that landfill WAC analysis, specifically leaching test results, must not be used for waste classification purposes.

Any spoil arising from excavations or landscaping works, which is not to be re-used in accordance with the CL:AIRE¹¹ guidance, will need to be disposed of to a licensed tip. Waste going to landfill is subject to landfill tax at either the standard rate of £102.10 per tonne (about £190.00 per m³) or at the lower rate of £3.25 per tonne (roughly £6.00 per m³). However, the classifications for tax purposes and disposal purposes differ and currently all made ground and topsoil is taxable at the 'standard' rate and only naturally occurring soil and stones, which are accurately described as such in terms of the 2011 Order, would qualify for the 'lower rate' of landfill tax.

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

Soil Type	Waste Classification (Waste Code)	WAC Testing Required Prior to Landfill Disposal?	Current applicable rate of Landfill Tax
Made ground (Borehole No 2 and DCP No 2)	Hazardous (17 05 03)	Yes	£102.10/tonne (Standard rate)
Made ground (rest of site)	Non-hazardous (17 05 04)	No	£102.10/tonne (Standard rate)
Natural Soils	Inert non-hazardous (17 05 04)	Should not be required but confirm with receiving landfill	£3.25 / tonne (Reduced rate for uncontaminated naturally occurring rocks and soils)

The hazardous classification for the sample from Borehole No 2 is due to high concentrations of TPH and a high alkaline level of pH causes the classification in DCP No 2.

Under the requirements of the Waste Directive all waste needs to be pre-treated prior to disposal. The pre-treatment process must be physical, thermal, chemical or biological, including sorting. It must change the characteristics of the waste in order to reduce its volume, hazardous nature, facilitate handling or enhance recovery. The waste producer can carry out the treatment but they will need to provide documentation to prove that this has been carried out. Alternatively, the treatment can be carried out by an approved

contractor. The Environment Agency has issued a position paper¹² which states that in certain circumstances, segregation at source may be considered as pre-treatment and thus excavated material may not have to be treated prior to landfilling if the soils can be segregated onsite prior to excavation by sufficiently characterising the soils insitu prior to excavation.

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

10 Environment Agency 2015. *Guidance on the classification and assessment of waste*. Technical Guidance WM3 First Edition
11 CL:AIRE March 2011. *The Definition of Waste: Development Industry Code of Practice* Version 2

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



7.0 Outstanding Risks & Issues

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

7.1 Site-Specific Risks

Gas and vapour monitoring has not been completed at the request of the client. If any monitoring is required at a later date, gas and groundwater monitoring standpipes will need to be installed. The investigation was limited to the external areas only and it is recommended that further investigation is carried out beneath the building footprint once access becomes available.

This investigation has identified the presence of contamination and there may be a requirement for a separate remediation proposals report to be prepared to comply with planning requirements. The remediation will need to be supervised and verified by a geoenvironmental engineer and a completion or validation report will also probably be required to support the planning application.

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

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

7.2 General Risks

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

The comments made regarding gas and groundwater are based on observations made during the period the work has been carried out. Conditions may vary as a result of seasonal or other effects.

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



Appendix

a. Field Work

Site Plan
Borehole Records
Borehole Soakage Test Results
Trial Pit Records
CBR Test Results

b. Lab Testing

Geotechnical Test Results
Chemical Test Results
Generic Risk Based Screening Values

c. Desk Study

Envirocheck Extracts
Historical Maps
UXO Preliminary Risk Assessment



appendix a

Field Work

Site Plan
Borehole Records
Borehole Soakage Test Results
Trial Pit Records
CBR Test Results

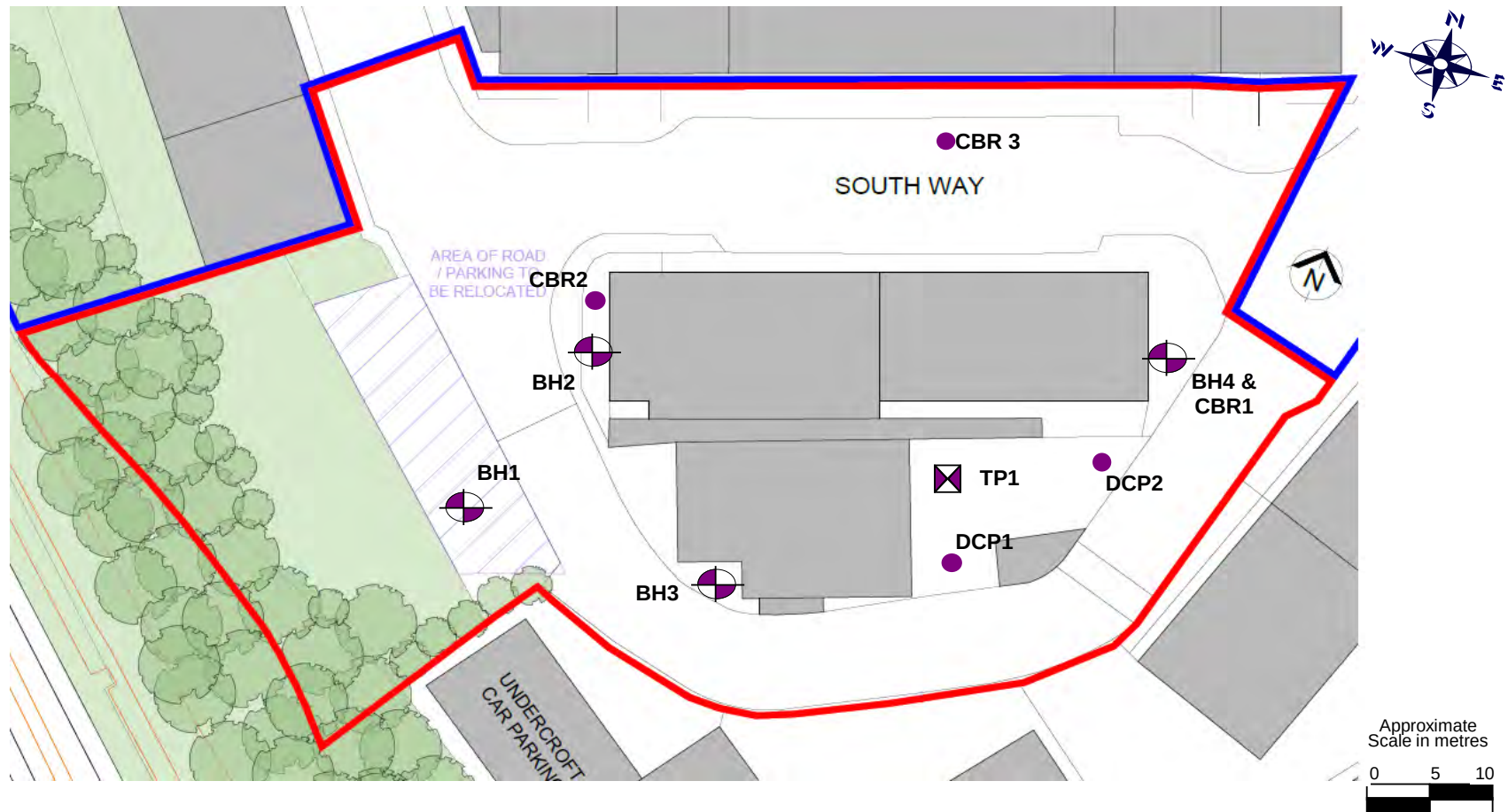
Site Block F, Bounds Green Industrial Estate, South Way, London N11 2UL

Client Capital Industrial 3 Limited

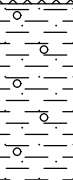
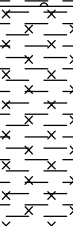
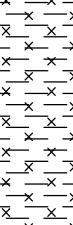
Engineer Dovetail Architects

Job Number
J23051

Sheet
1/1



Project Block F, Bounds Green Industrial Estate, Southway, London N11 2UL				BOREHOLE No BH1
Job No J23051	Date 02-05-23 02-05-23	Ground Level (m OD)	Co-Ordinates ()	
Client Capital Industrial 3 Limited		Engineer Dovetail Architects		Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA				Instrument / Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	
0.50	D1	1,1/1,1,2,2 N60 = 10				0.05	TARMAC	
						(0.65)	MADE GROUND (brown very sandy becoming slightly sandy very gravelly becoming gravelly CLAY with brick and concrete fragments, coal, ash and slag)	
0.90	D2	4,4/4,5,4,4 N60 = 27				0.70	MADE GROUND (dark grey mottled grey gravelly clay with brick fragments, cloth, abundant ash, slag, flint and chalk gravel, coal, pottery and roots and rootlets)	
						(0.60)		
1.70	D3	2,2/3,3,3,4 N60 = 21				1.30	Stiff grey mottled dark grey and orange-brown becoming very sandy slightly gravelly becoming very gravelly CLAY with carbonaceous material and roots and rootlets to 1.50 m. Sand is fine to coarse. Gravel is fine to coarse, very angular to rounded flint	
						(1.20)		
2.20	D4	3,3/4,4,3,3 N60 = 22				2.50	Stiff fissured brown mottled grey and orange-brown silty CLAY with partings of fine sand and silt, decayed roots and claystones at 3.10 m	
						(2.95)		
2.70	D5	3,4/4,5,5,5 N60 = 30				5.45		
3.20	D6							
3.70	D7							
4.20	D8							
4.70	D9							

Boring Progress and Water Observations						GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	
						Groundwater not encountered
All dimensions in metres Scale 1:50			Method/ Plant Used Opendrive Sampler Rig			Logged By LB

Project Block F, Bounds Green Industrial Estate, Southway, London N11 2UL				BOREHOLE No BH2	
Job No J23051	Date 02-05-23 02-05-23	Ground Level (m OD)	Co-Ordinates ()		
Client Capital Industrial 3 Limited		Engineer Dovetail Architects		Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA				Instrument / Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	
0.20	D1	1,2/2,2,2,2 N60 = 13				0.30	MADE GROUND (grey very gravelly sand with brick and concrete fragments, tarmac, coal, ash, metal, tile and breeze block)	
0.50	D2					(0.50) 0.80	MADE GROUND (brown slightly sandy slightly gravelly clay with whole bricks, brick fragments, metal, slag, coal and flint gravel)	
1.00	D3					(0.40) 1.20	MADE GROUND (dark grey sandy gravelly clay with brick fragments, slag, ash, coal and flint gravel)	
1.40	D4					(0.40) 1.60	Firm light grey mottled brown slightly sandy gravelly CLAY. Gravel is fine to coarse, subangular to rounded flint. Sand is fine to coarse	
1.90	D5	2,3/3,4,4,3 N60 = 22					Firm becoming stiff fissured brown mottled grey and orange-brown silty CLAY with partings of fine sand and silt, decayed rootlets and claystones	
2.40	D6							
2.90	D7							
3.40	D8	3,3/3,3,2,3 N60 = 17				(3.85)		
3.90	D9							
4.40	D10							
4.90	D11	4,5/5,5,4,5 N60 = 30				5.45		

Boring Progress and Water Observations						GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	
						Groundwater not encountered

All dimensions in metres Scale 1:50	Method/ Plant Used Opendrive Sampler Rig	Logged By LB
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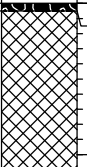
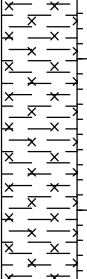
Project Block F, Bounds Green Industrial Estate, Southway, London N11 2UL				BOREHOLE No BH3	
Job No J23051	Date 02-05-23 02-05-23	Ground Level (m OD)	Co-Ordinates ()		
Client Capital Industrial 3 Limited		Engineer Dovetail Architects		Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA				Instrument / Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	
						0.20	Unreinforced CONCRETE	
0.50	D1					(0.60)	MADE GROUND (brown mottled grey sandy gravelly CLAY with brick and concrete fragments)	
0.90	D2	2,2/3,3,3,3 N60 = 19				1.00	MADE GROUND (dark grey slightly sandy slightly gravelly CLAY with rare brick fragments, organic material and carbonaceous material)	
1.20	D3					1.10		
1.60	D4					1.40	Firm brown mottled grey silty CLAY	
2.10	D5	3,3/4,4,3,3 N60 = 22					Medium dense grey clayey gravelly fine to coarse SAND with a slight organic odour. Gravel is fine to medium, subangular to rounded flint	
2.60	D6						Firm becoming stiff fissured brown mottled grey silty CLAY with rare medium flint gravel to 1.80 m, partings of fine sand and silt, decayed roots and claystone / sandstones	
3.10	D7	4,4/3,4,4,5 N60 = 25				(4.05)		
3.60	D8							
4.10	D9	4,3/3,3,3,4 N60 = 21						
4.60	D10	4,5/5,6,6,5 N60 = 35				5.45		

Boring Progress and Water Observations						GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	
						Groundwater not encountered

All dimensions in metres Scale 1:50	Method/ Plant Used Opendrive Sampler Rig	Logged By LB
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Project Block F, Bounds Green Industrial Estate, Southway, London N11 2UL				BOREHOLE No BH4	
Job No J23051	Date 02-05-23 02-05-23	Ground Level (m OD)	Co-Ordinates ()		
Client Capital Industrial 3 Limited		Engineer Dovetail Architects		Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA				Instrument / Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	
0.60	D1	1,2/2,3,2,2 N60 = 14				0.05	TARMAC	
						(1.05)	MADE GROUND (dark grey sandy gravelly clay with tile, tarmac, decayed roots, carbonaceous material, ash and flint)	
						1.10		
1.20	D2	3,3/3,4,4,4 N60 = 24				(0.50)	Firm grey mottled brown silty CLAY with rare fine subrounded flint gravel, decayed roots and roots	
						1.60		
1.70	D3	3,4/4,5,4,5 N60 = 29					Firm becoming stiff from 2.20 m fissured brown mottled orange-brown and grey silty CLAY with partings of fine sand and silt and decayed roots	
2.20	D4	4,4/4,3,3,4 N60 = 22						
2.70	D5	4,4/5,5,5,6 N60 = 33						
3.20	D6							
3.70	D7							
4.20	D8							
4.70	D9							
						5.45		

Boring Progress and Water Observations						GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	
						Groundwater not encountered

All dimensions in metres Scale 1:50	Method/ Plant Used Opendrive Sampler Rig	Logged By LB
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Site Block F, Bounds Green Industrial Estate, South Way, London N11 2UL

Client Capital Industrial 3 Limited

Engineer Dovetail Architects

Job Number
J23051Sheet
1/2

Date: 02 May 2023

Borehole No: 1

Test No: 1

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 5.00

Casing depth (m): 0.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m)

D2 (m)

T1 (min)

T2 (min)

Time (mins)	Depth to Water (m)	Depth of Water (m)
-------------	-----------------------	-----------------------

0	2.350	2.65
1	2.340	2.66
2	2.340	2.66
14	2.340	2.66
30	2.340	2.66
45	2.330	2.67
90	2.330	2.67
210	2.320	2.67

Soakage Volume (m³) 0.000Soakage Area (m²) 0.02

Time (min) 0

Soakage rate (m/sec) NA

Soakage rate (m/day) NA

Remarks:

Test carried out in opendrive sampler borehole



GEA

Geotechnical & Environmental Associates
www.gea-ltd.co.uk

Borehole Soakage Test

Site Block F, Bounds Green Industrial Estate, South Way, London N11 2UL

Client Capital Industrial 3 Limited

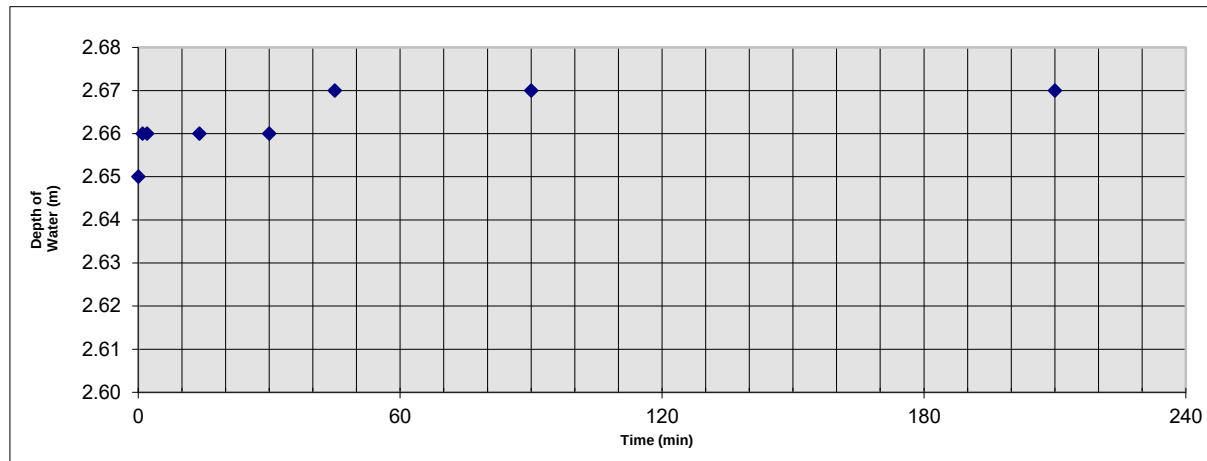
Engineer Dovetail Architects

Job Number
J23051

Sheet
2/2

Soakage Graph

Test No: 1



Remarks:

Test carried out in opendrive sampler borehole

Project Block F, Bounds Green Industrial Estate, Southway, London N11 2UL				TRIAL PIT No TP1
Job No J23051	Date 02-05-23 02-05-23	Ground Level (m OD)	Co-Ordinates ()	
Client Capital Industrial 3 Limited		Engineer Dovetail Architects		Sheet 1 of 1

[illegible]

GENERAL REMARKS

Groundwater not encountered

All dimensions in metres Scale 1:25	Method/ Plant Used Hand Dug	Logged By LB
--	---------------------------------------	------------------------



In Situ California Bearing Ratio (CBR)

Job Ref 33405

CBR No. CBR1

Site Name Block F Bounds Green Industrial Estate, London, N11 2UL

Depth m 0.50

Project No. J23051

Client

GEA

Date of Test 02/05/2023

Soil Description

Dark grey slightly sandy silty CLAY with rare fm angular to sub-angular gravel

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 1

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

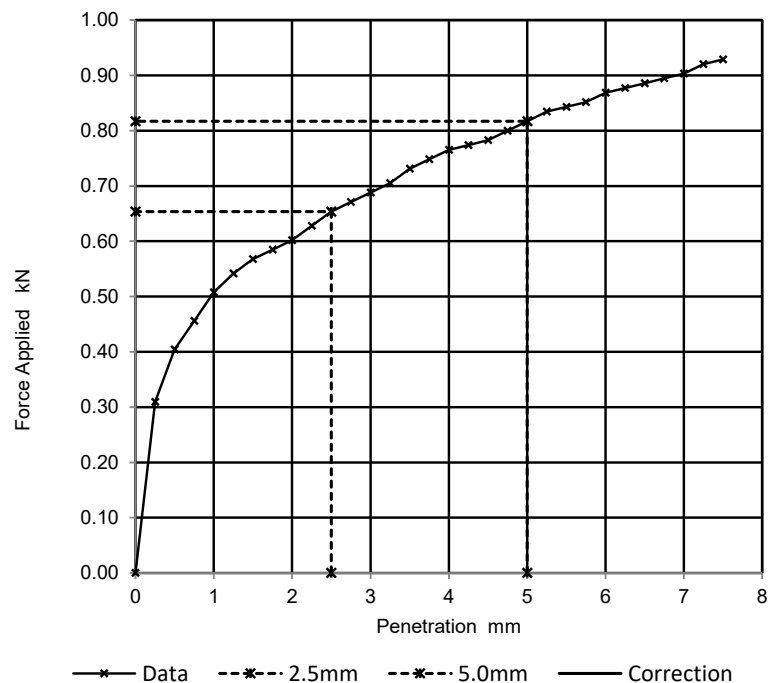
Proving Ring Factor 8.6 N/div

Temperature 15 °C
Environmental Conditions Sunny/Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	36	0.31
0.50	47	0.40
0.75	53	0.46
1.00	59	0.51
1.25	63	0.54
1.50	66	0.57
1.75	68	0.58
2.00	70	0.60
2.25	73	0.63
2.50	76	0.65
2.75	78	0.67
3.00	80	0.69
3.25	82	0.71
3.50	85	0.73
3.75	87	0.75
4.00	89	0.77
4.25	90	0.77
4.50	91	0.78
4.75	93	0.80
5.00	95	0.82
5.25	97	0.83
5.50	98	0.84
5.75	99	0.85
6.00	101	0.87
6.25	102	0.88
6.50	103	0.89
6.75	104	0.89
7.00	105	0.90
7.25	107	0.92
7.50	108	0.93

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %		Moisture Content	
	Penetration			CBR Value
	2.5mm	5mm	%	
No	5.0	4.1	5.0	23



Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 09/05/2023

2519

NOTE: The report shall not be reproduced except in full without authority of the laboratory. These results only apply to the locations tested.

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

MSF-5-R16



In Situ California Bearing Ratio (CBR)

Job Ref 33405

CBR No. CBR2

Site Name Block F Bounds Green Industrial Estate, London, N11 2UL

Depth m 0.50

Project No. J23051

Client

GEA

Date of Test 02/05/2023

Soil Description

Brown and dark grey slightly sandy silty CLAY with rare fmc sub-angular to sub-rounded gravel, traces of rootlets and glass fragments

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 2

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

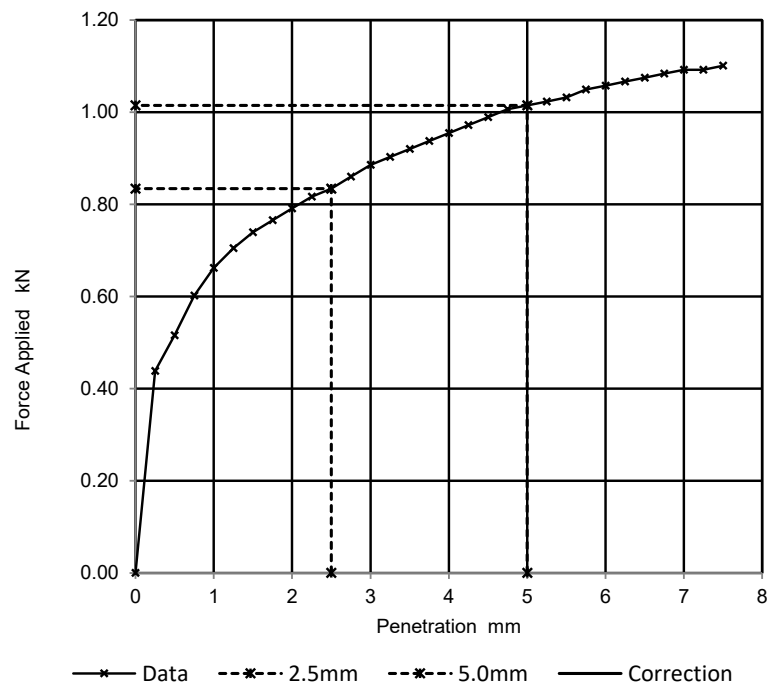
Proving Ring Factor 8.6 N/div

Temperature 15 °C
Environmental Conditions Sunny/Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	51	0.44
0.50	60	0.52
0.75	70	0.60
1.00	77	0.66
1.25	82	0.71
1.50	86	0.74
1.75	89	0.77
2.00	92	0.79
2.25	95	0.82
2.50	97	0.83
2.75	100	0.86
3.00	103	0.89
3.25	105	0.90
3.50	107	0.92
3.75	109	0.94
4.00	111	0.95
4.25	113	0.97
4.50	115	0.99
4.75	117	1.01
5.00	118	1.01
5.25	119	1.02
5.50	120	1.03
5.75	122	1.05
6.00	123	1.06
6.25	124	1.07
6.50	125	1.08
6.75	126	1.08
7.00	127	1.09
7.25	127	1.09
7.50	128	1.10

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content
	Penetration		CBR Value	
	2.5mm	5mm		%
No	6.3	5.1	6.3	29



Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
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Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 09/05/2023

2519

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

MSF-5-R16



In Situ California Bearing Ratio (CBR)

Job Ref 33405

CBR No. CBR3

Site Name Block F Bounds Green Industrial Estate, London, N11 2UL

Depth m 0.50

Project No. J23051

Client

GEA

Date of Test 02/05/2023

Soil Description

Dark greyish brown slightly silty slightly clayey sandy fmc angular to sub-angular GRAVEL (gravel includes crushed concrete, clinker and glass fragments)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 3

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

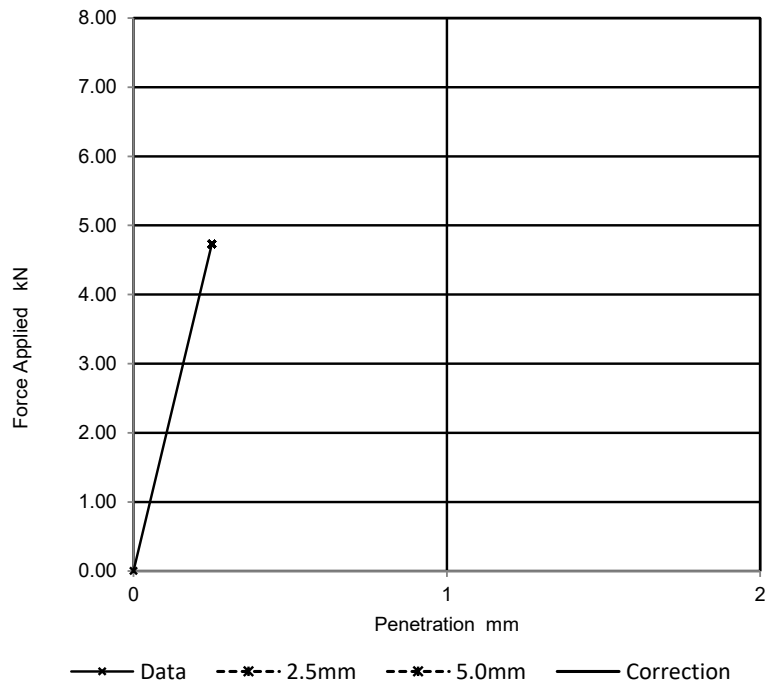
15 0C

Sunny/Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	550	4.73
0.50		
0.75		
1.00		
1.25		
1.50		
1.75		
2.00		
2.25		
2.50		
2.75		
3.00		
3.25		
3.50		
3.75		
4.00		
4.25		
4.50		
4.75		
5.00		
5.25		
5.50		
5.75		
6.00		
6.25		
6.50		
6.75		
7.00		
7.25		
7.50		

Force versus Penetration Plot



Remarks

Maximum kentledge reached

Results

Curve correction applied	CBR Values, %			Moisture Content %
	Penetration		CBR Value	
	2.5mm	5mm		
No	-	-	>30	8.6



Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 09/05/2023

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

MSF-5-R16



appendix b

Lab Testing

Geotechnical Test Results

Chemical Test Results

Generic Risk Based Screening Values



Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results

Job No.	Project Name	Programme	
33409	Bounds Green	Samples received	04/05/2023
		Schedule received	04/05/2023
Project No.	Client	Project started	05/05/2023
J23051	GEA	Testing Started	17/05/2023

[illegible]

Test Methods: BS1377: Part 2: 1990:
 Natural Moisture Content : clause 3.2
 Atterberg Limits: clause 4.3, 4.4 and 5.0
These results only apply to the items tested

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

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

**Checked and
Approved**

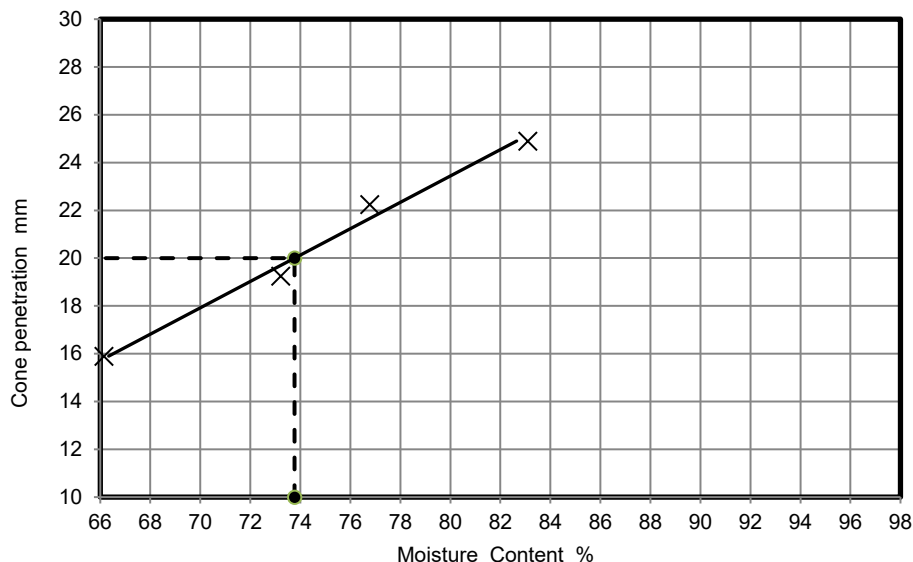
Initials	J.P
Date:	19/05/2023



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	33409
Borehole/Pit No.	BH1
Sample No.	-
Depth Top	2.70 m
Depth Base	- m
Sample Type	D
Samples received	04/05/2023
Schedules received	04/05/2023
Project Started	05/05/2023
Date Tested	17/05/2023

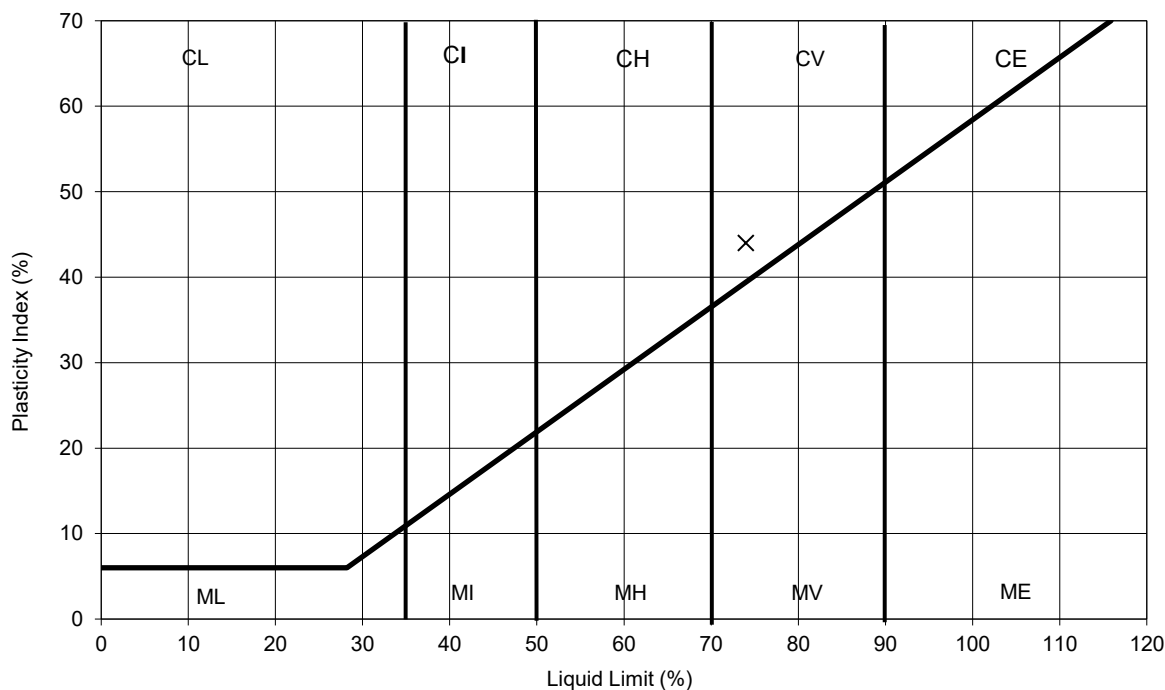
Site Name	Bounds Green		
Project No.	J23051	Client	GEA
Soil Description	Orangish brown slightly mottled bluish grey silty CLAY with rare fine carbonaceous fragments		



NATURAL MOISTURE CONTENT	29	%
% PASSING 425µm SIEVE	99	%
LIQUID LIMIT	74	%
PLASTIC LIMIT	30	%
PLASTICITY INDEX	44	%

Remarks

PLASTICITY INDEX



These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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

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

Checked and Approved

Initials: J.P

Date: 19/05/2023

2519

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

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

33409

Borehole/Pit No.

BH2

Site Name

Bounds Green

Sample No.

-

Project No.

J23051

Client

GEA

Depth Top

1.40

m

Depth Base

-

m

Sample Type

D

Soil Description

Orangish brown mottled bluish grey slightly gravelly silty CLAY with light grey sand pockets (gravel is fm and sub-angular to rounded)

Samples received

04/05/2023

Schedules received

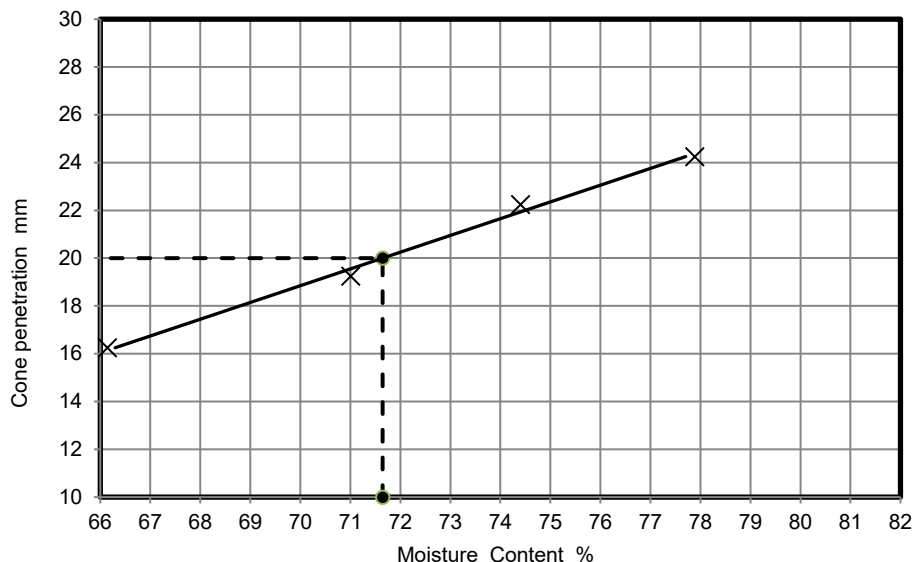
04/05/2023

Project Started

05/05/2023

Date Tested

17/05/2023



NATURAL MOISTURE CONTENT

43

%

% PASSING 425µm SIEVE

85

%

LIQUID LIMIT

72

%

PLASTIC LIMIT

30

%

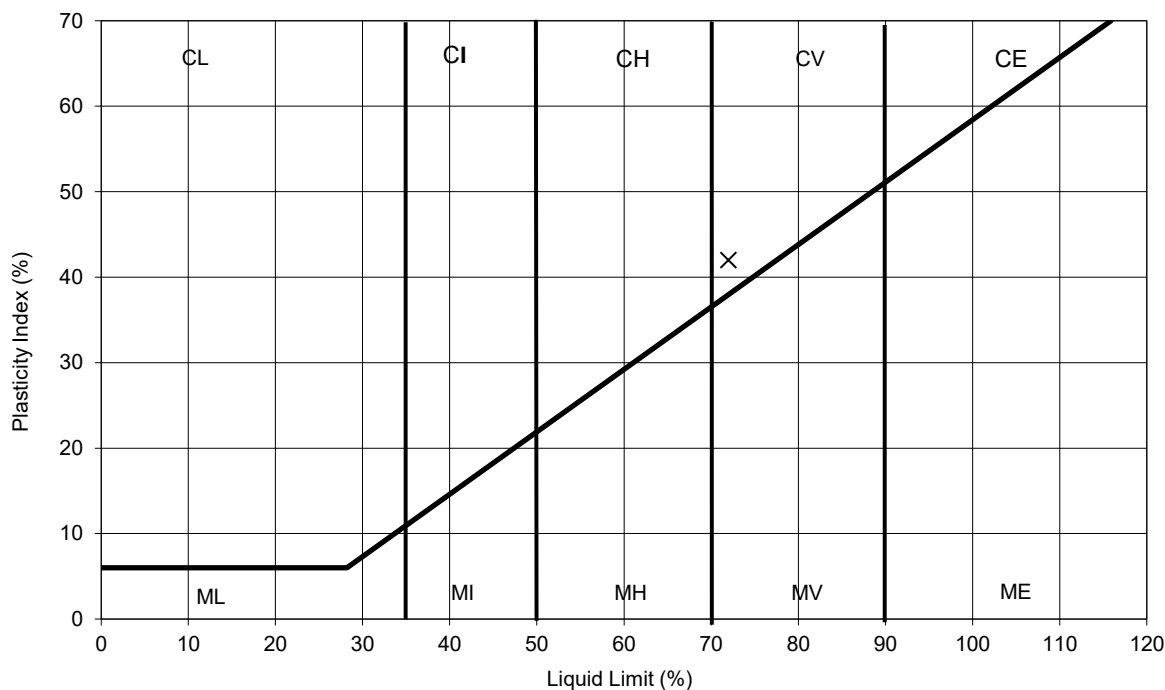
PLASTICITY INDEX

42

%

Remarks

PLASTICITY INDEX



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TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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

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

Checked and Approved

Initials: J.P

Date: 19/05/2023

2519

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

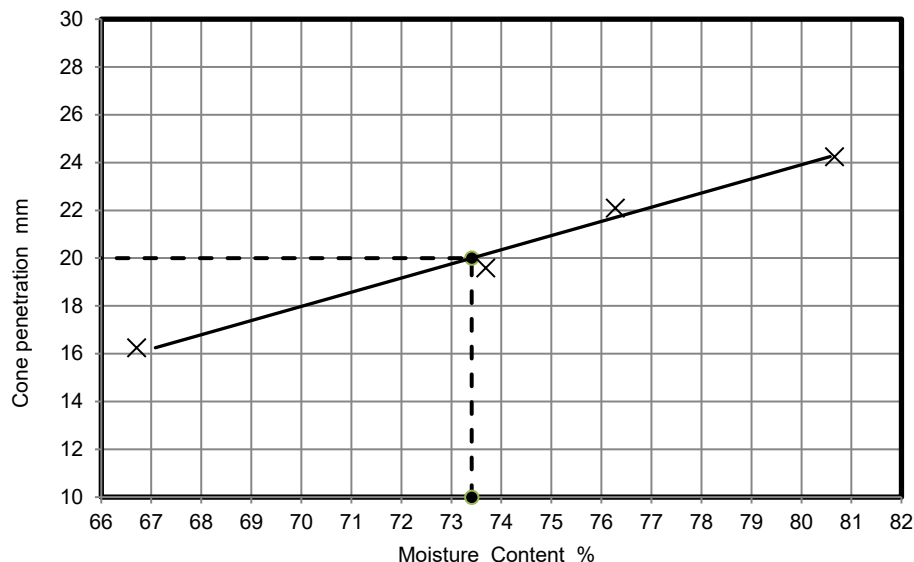
MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	33409
Borehole/Pit No.	BH2
Sample No.	-
Depth Top	2.40 m
Depth Base	- m
Sample Type	D
Samples received	04/05/2023
Schedules received	04/05/2023
Project Started	05/05/2023
Date Tested	17/05/2023

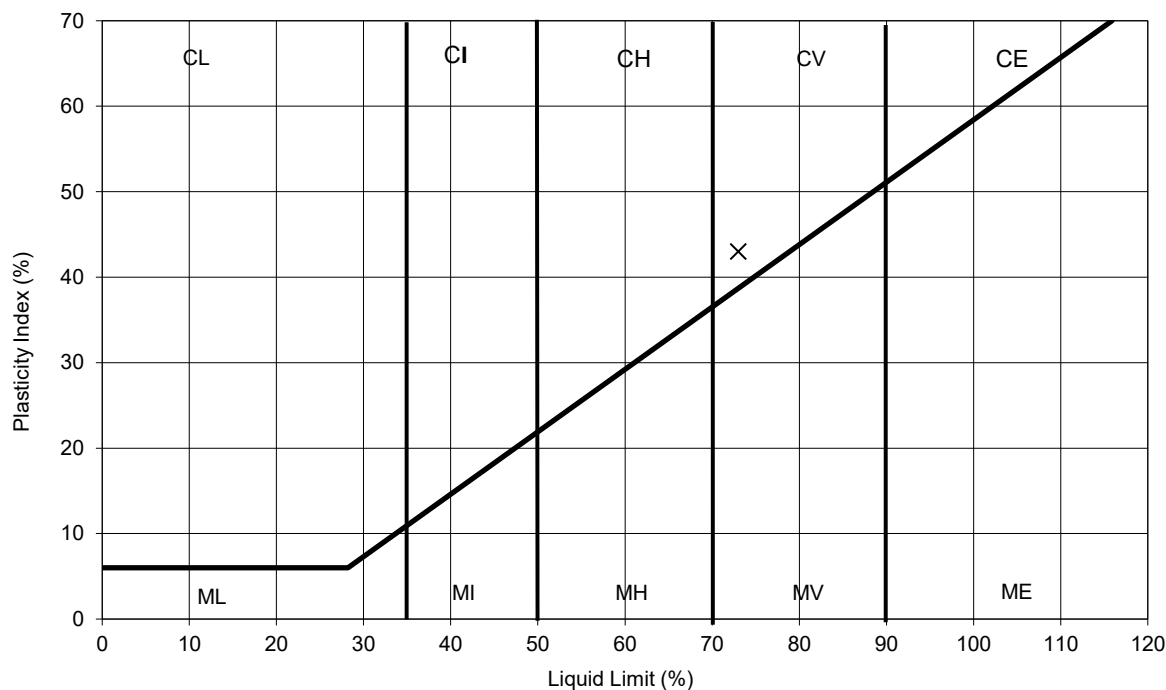
Site Name	Bounds Green		
Project No.	J23051	Client	GEA
Soil Description	Orangish brown slightly mottled bluish grey silty CLAY		



NATURAL MOISTURE CONTENT	30	%
% PASSING 425µm SIEVE	100	%
LIQUID LIMIT	73	%
PLASTIC LIMIT	30	%
PLASTICITY INDEX	43	%

Remarks

PLASTICITY INDEX



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TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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

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

Checked and Approved

Initials: J.P

Date: 19/05/2023

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

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33409

Borehole/Pit No. BH3

Site Name Bounds Green

Sample No. -

Project No. J23051 Client GEA

Depth Top 1.60 m

Depth Base - m

Sample Type D

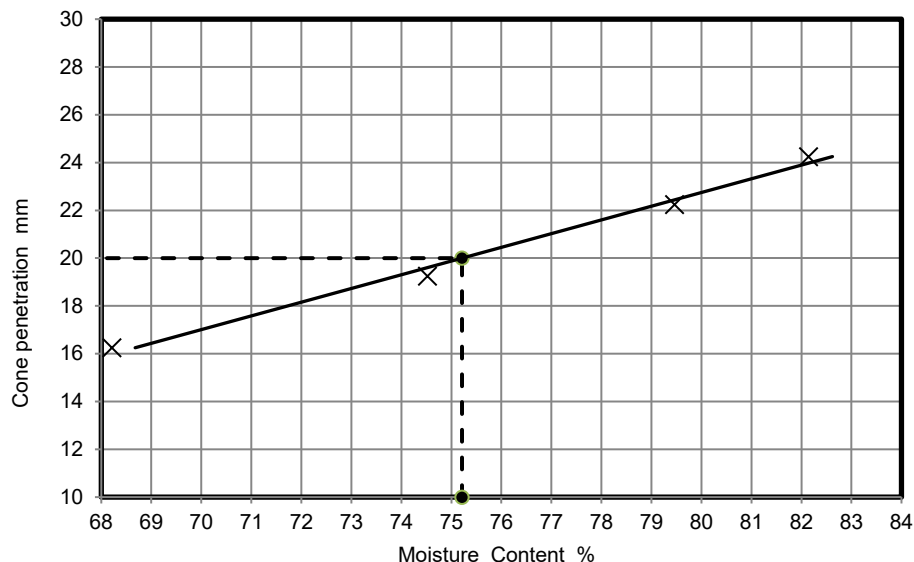
Soil Description Orangish brown slightly mottled bluish grey slightly gravelly silty CLAY with grey sand pockets (gravel is fm and sub-angular to rounded)

Samples received 04/05/2023

Schedules received 04/05/2023

Project Started 05/05/2023

Date Tested 17/05/2023



NATURAL MOISTURE CONTENT

34 %

% PASSING 425µm SIEVE

87 %

LIQUID LIMIT

75 %

PLASTIC LIMIT

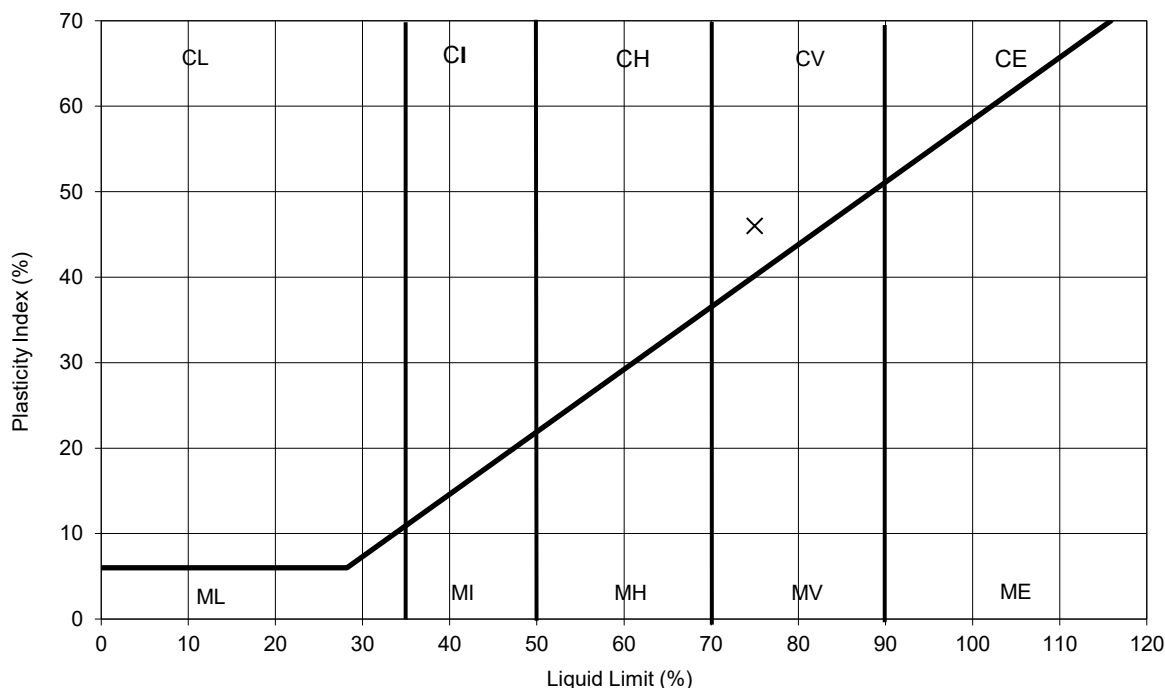
29 %

PLASTICITY INDEX

46 %

Remarks

PLASTICITY INDEX



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TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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

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Checked and Approved

Initials: J.P

Date: 19/05/2023

2519

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

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

33409

Borehole/Pit No.

BH3

Site Name

Bounds Green

Sample No.

-

Project No.

J23051

Client

GEA

Depth Top

2.60

m

Depth Base

-

m

Sample Type

D

Soil Description

Orangish brown slightly mottled bluish grey silty CLAY

Samples received

04/05/2023

Schedules received

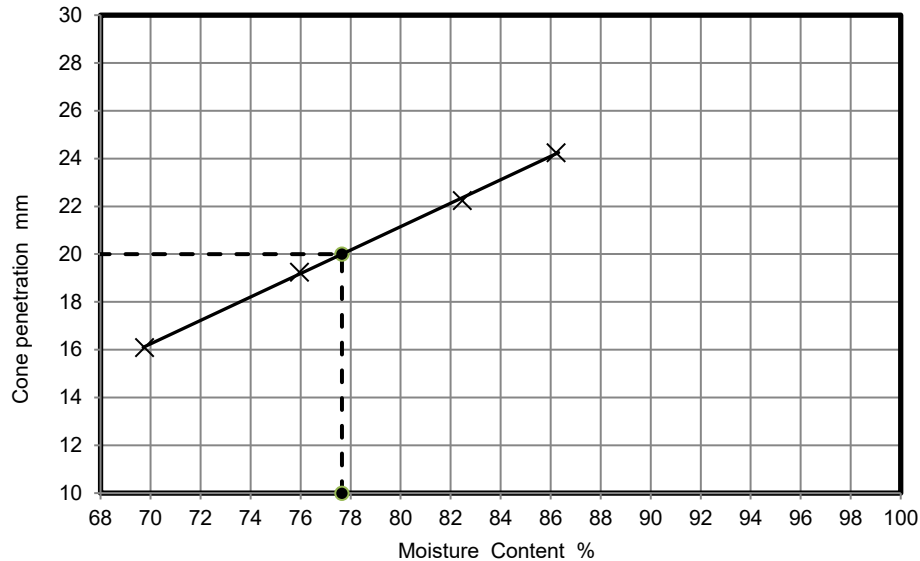
04/05/2023

Project Started

05/05/2023

Date Tested

17/05/2023



NATURAL MOISTURE CONTENT

32

%

% PASSING 425µm SIEVE

100

%

LIQUID LIMIT

78

%

PLASTIC LIMIT

36

%

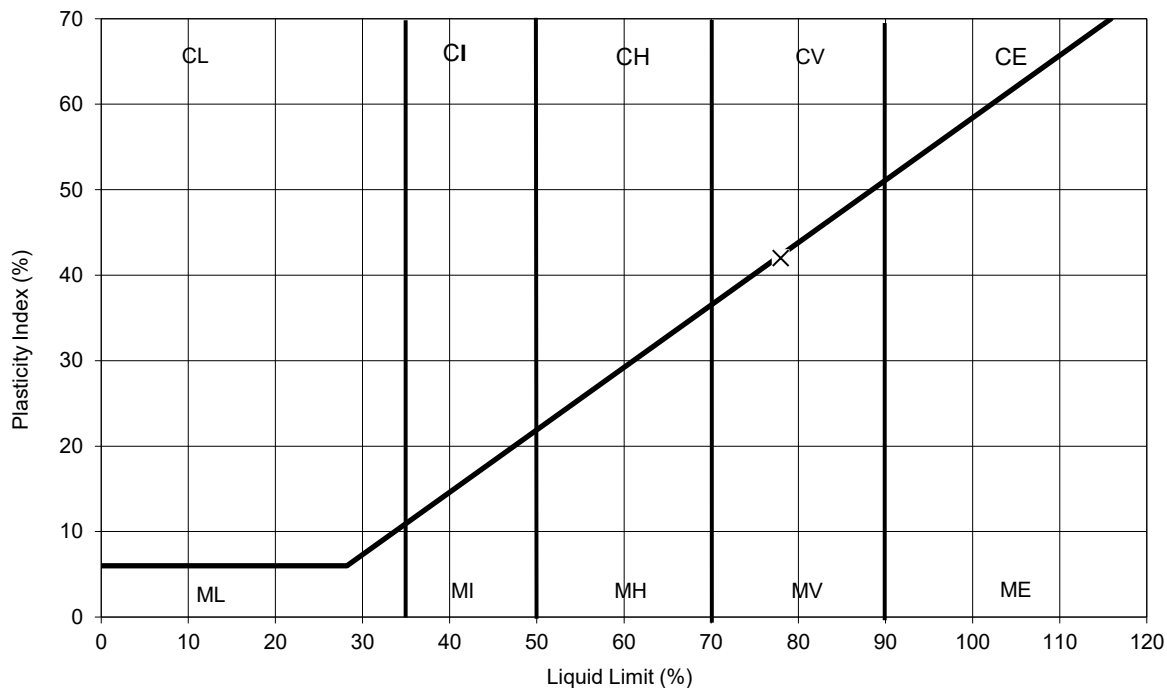
PLASTICITY INDEX

42

%

Remarks

PLASTICITY INDEX



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TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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

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

Checked and Approved

Initials: J.P

Date: 19/05/2023

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

MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No. 33409

Borehole/Pit No. BH4

Site Name Bounds Green

Sample No. -

Project No. J23051

Client

GEA

Depth Top 1.70 m

Depth Base - m

Sample Type D

Soil Description

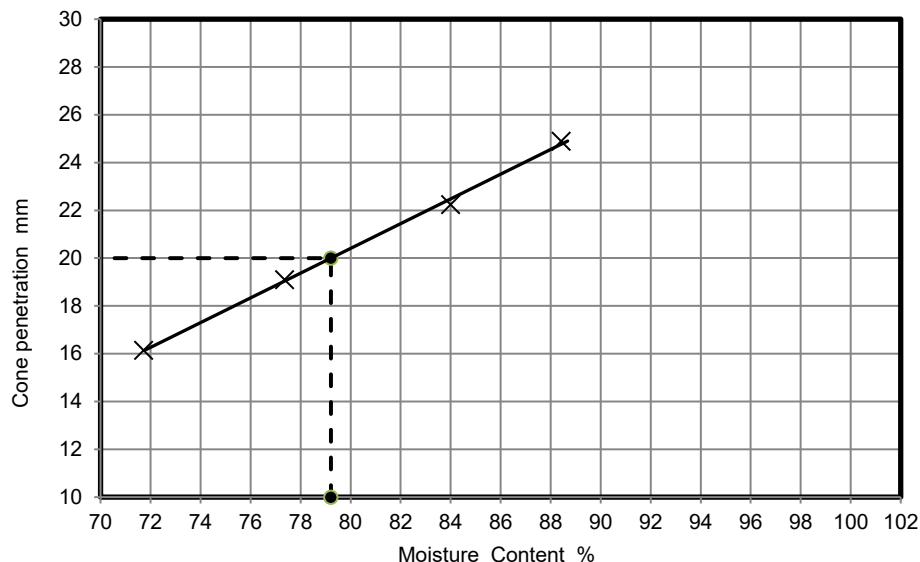
Orangish brown slightly mottled bluish grey silty CLAY with rare fine gravel

Samples received 04/05/2023

Schedules received 04/05/2023

Project Started 05/05/2023

Date Tested 17/05/2023



NATURAL MOISTURE CONTENT

32

%

% PASSING 425µm SIEVE

99

%

LIQUID LIMIT

79

%

PLASTIC LIMIT

32

%

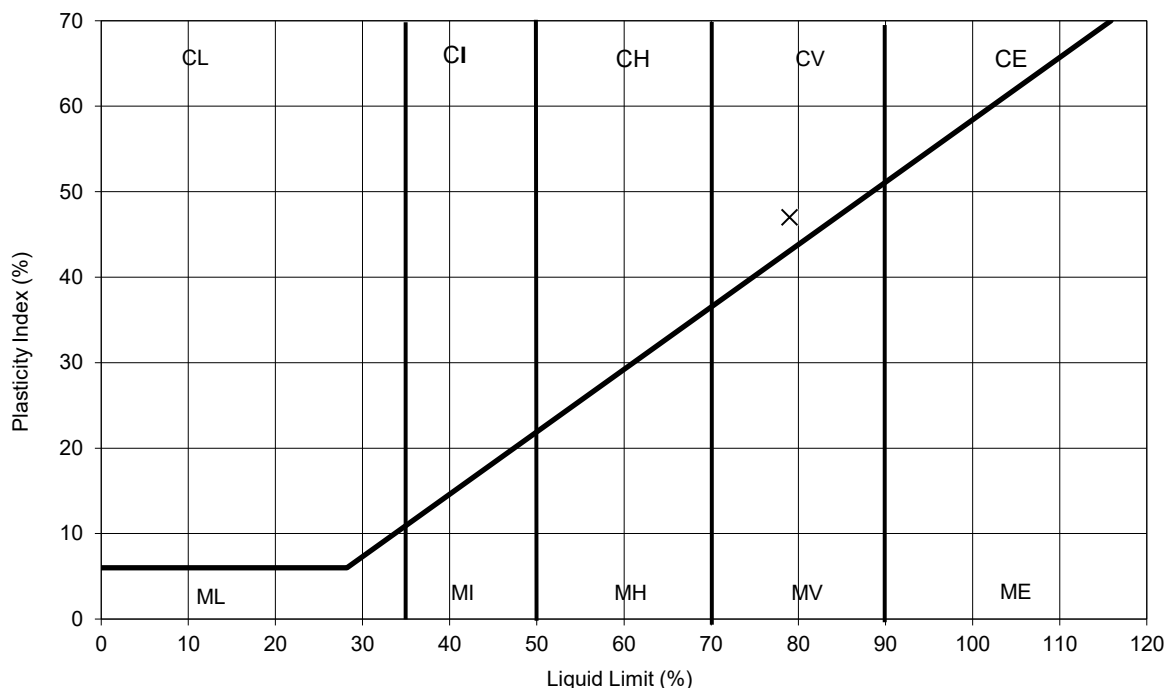
PLASTICITY INDEX

47

%

Remarks

PLASTICITY INDEX



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TEST METHOD

BS1377: Part 2 :Clause 4.3 : 1990 Determination of the liquid limit by the cone penetrometer method

BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index

BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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

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Checked and Approved

Initials: J.P

Date: 19/05/2023

2519

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

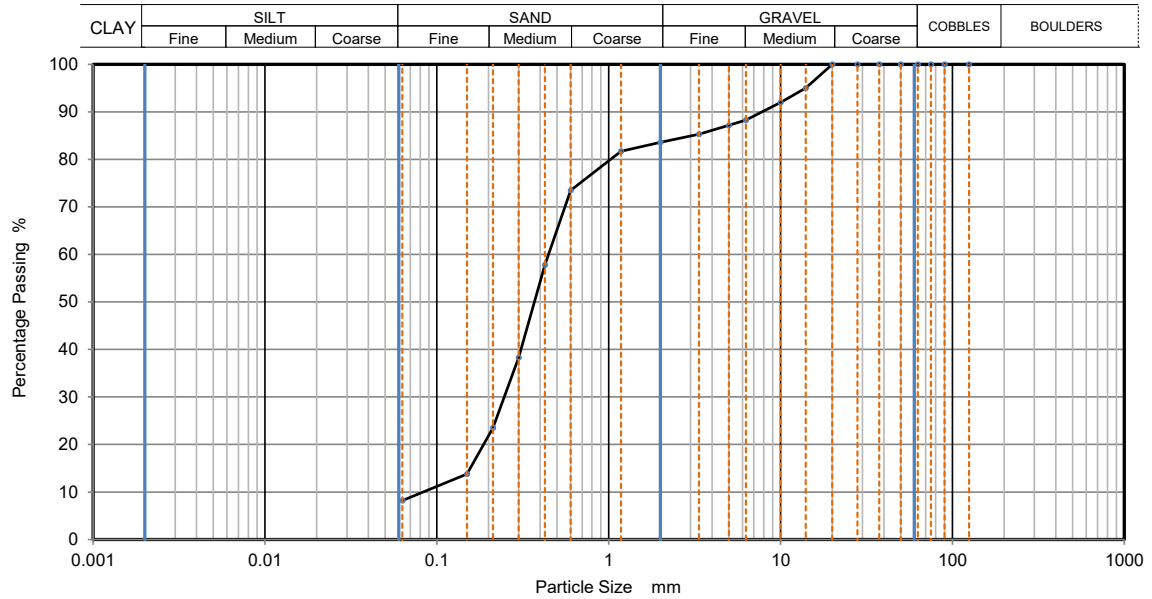
MSF-5 R2



PARTICLE SIZE DISTRIBUTION

	PARTICLE SIZE DISTRIBUTION			Job Ref	33409	
				Borehole/Pit No.	BH3	
Site Name	Bounds Green			Sample No.	-	
Project No.	J23051	Client	GEA	Depth Top	1.20	m
Soil Description	Grey, bluish grey and orangish brown clayey gravelly SAND (gravel is fm and sub-rounded)			Depth Base	-	m
				Sample Type	D	
				Samples received	04/05/2023	
				Schedules received	04/05/2023	
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	05/05/2023	
These results only apply to the items tested				Date tested	16/05/2023	

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	95		
10	92		
6.3	88		
5	87		
3.35	85		
2	84		
1.18	82		
0.6	74		
0.425	58		
0.3	38		
0.212	24		
0.15	14		
0.063	8		

Sample Proportions	% dry mass
Very coarse	0.0
Gravel	16.4
Sand	75.3
Fines <0.063mm	8.2

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	5.4
Curvature Coefficient	1.6

Remarks

Preparation and testing in accordance with BS1377 unless noted below

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K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU

Email: james@k4soils.com

Tel: 01923 711288

Checked and Approved

Initials: J.P

Date: 19/05/2023

2519

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

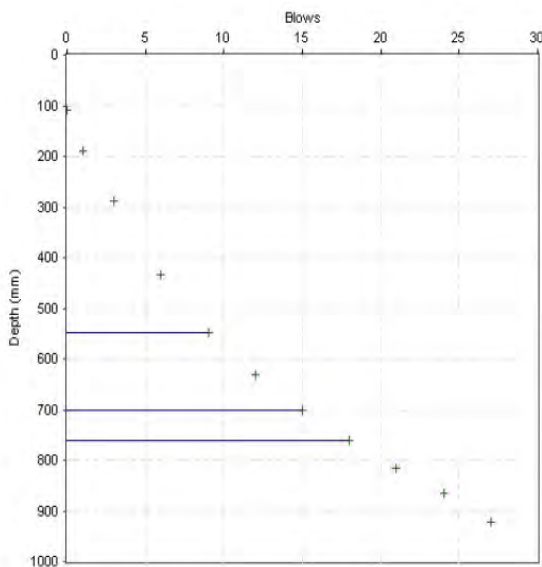
MSF-5-R3



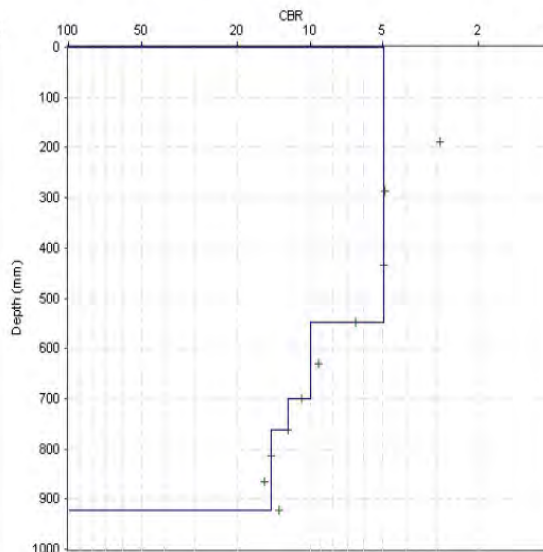
Dynamic Cone Penetrometer Test (DCP)

Test No.	DCP 1
Depth (m)	0.00
Date of Test	02/05/23
Zero error (mm)	27.00

Job No.	33405	Project Name	Block F Bounds Green Industrial Estate, London, N11 2UL
Project No.	J23051	Client	GEA
Test Method	Documented In-House Method based on TRL Informatin Note - R8157		



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	49.00	5	549	549
2	25.17	10	151	700
3	20.67	12	62	762
4	17.78	14	160	922

Remarks

TRL Equation $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$
Cone Angle 60°

These results only apply to the items (locations) tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory



2519

Test Report by **K4 SOILS LABORATORY**
Unit 8 Olds Close
Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288
Email: james@K4soils.com

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

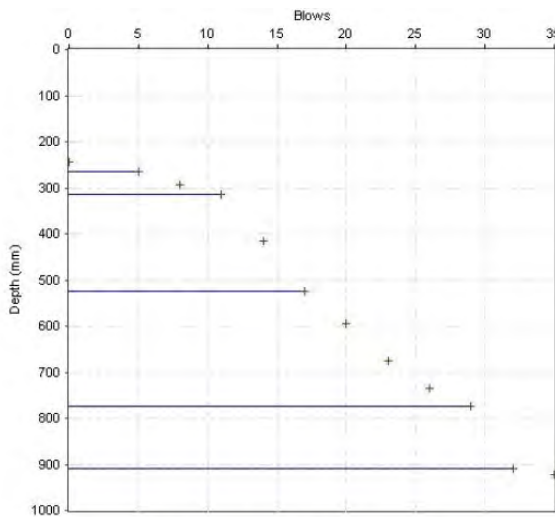
Checked and Approved
Name KP
Date 17/05/2023



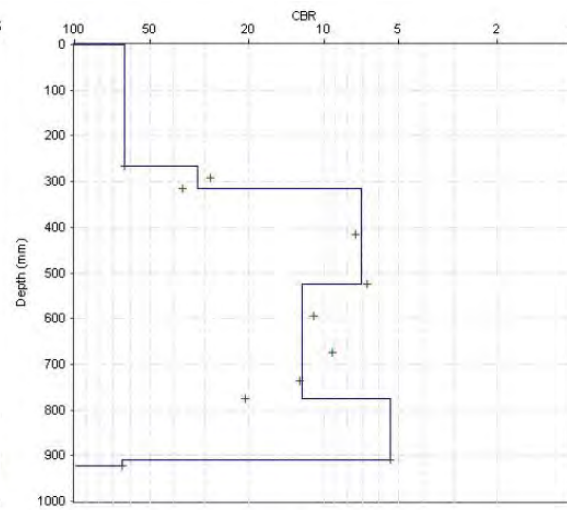
Dynamic Cone Penetrometer Test (DCP)

Test No.	DCP 2
Depth (m)	0.00
Date of Test	02/05/23
Zero error (mm)	27.00

Job No.	33405	Project Name	Block F Bounds Green Industrial Estate, London, N11 2UL
Project No.	J23051	Client	GEA
Test Method	Documented In-House Method based on TRL Informatin Note - R8157		



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	Penetration Rate (mm/blow)	CBR (%)	Thickness (mm)	Depth to layer bottom (mm)
1	4.40	63	265	265
2	8.33	32	50	315
3	35.00	7	210	525
4	20.75	12	249	774
5	45.00	5	135	909
6	4.33	64	13	922

Remarks

TRL Equation $\log_{10}(\text{CBR}) = 2.48 - 1.057 \times \log_{10}(\text{Strength})$
Cone Angle 60°

These results only apply to the items (locations) tested

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2519

Test Report by **K4 SOILS LABORATORY**
Unit 8 Olds Close
Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288
Email: james@K4soils.com

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

Checked and Approved
Name KP
Date 17/05/2023

					Sulphate Content (Gravimetric Method) for 2:1 Soil: Water Extract and pH Value - Summary of Results Tested in accordance with BS1377 : Part 3 : 2018, Clause 7.6 & Clause 12						
Job No. 33409		Project Name Bounds Green					Programme Samples received 04/05/2023 Schedule received 04/05/2023				
Project No. J23051		Client GEA					Project started 05/05/2023 Testing Started 17/05/2023				
Hole No.	Sample				Soil description	Dry Mass passing 2mm %	SO4 Content mg/l	pH	Remarks		
	Ref	Top m	Base m	Type							
BH1	-	1.70	-	D	Greenish grey slightly gravelly sandy silty CLAY with dark grey organic stains (gravel is fmc and sub-rounded)	82	120	7.6			
BH3	-	2.60	-	D	Orangish brown slightly mottled bluish grey silty CLAY	100	130	7.6			
TP1	-	1.20	-	D	Bluish grey and brown slightly organic silty CLAY with rare fine gravel	98	50	7.8			
					Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com These results only apply to the items tested NOTE: The report shall not be reproduced except in full without authority of the laboratory					Checked and Approved Initials J.P. Date: 19/05/2023	
2519					Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)					MSF-5-R29	



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Analytical Report Number : 23-32057

Project / Site name:	Bounds Green	Samples received on:	03/05/2023
Your job number:	J23051	Samples instructed on/ Analysis started on:	04/05/2023
Your order number:		Analysis completed by:	12/05/2023
Report Issue Number:	1	Report issued on:	12/05/2023
Samples Analysed:	6 soil samples		

Signed: _____

Anna Goc
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

Analytical Report Number: 23-32057
Project / Site name: Bounds Green

Lab Sample Number				2669286	2669287	2669288	2669289	2669290
Sample Reference				BH1	BH2	BH3	BH4	TP1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.90	0.20	0.50	0.60	0.50
Date Sampled				02/05/2023	02/05/2023	02/05/2023	02/05/2023	02/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	85	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	6.2	21	16	16
Total mass of sample received	kg	0.001	NONE	1.3	1.3	1.3	1.3	1.3

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

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8	11.1	8.7	6.6	7.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	450	3200	730	340	540
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.16	0.095	0.15	0.025	0.1
Sulphide	mg/kg	1	NONE	29	780	17	4.2	15
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	39	210	22	28	14
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.5	3	0.9	2	2.2

Total Phenols

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

Naphthalene	mg/kg	0.05	NONE	< 0.05	0.94	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	NONE	0.07	1.6	< 0.05	0.06	0.05
Acenaphthene	mg/kg	0.05	NONE	< 0.05	1	0.1	0.06	< 0.05
Fluorene	mg/kg	0.05	NONE	0.09	1.2	0.09	0.06	< 0.05
Phenanthrene	mg/kg	0.05	NONE	1.1	25	1	0.91	0.51
Anthracene	mg/kg	0.05	NONE	0.25	8.4	0.17	0.2	0.11
Fluoranthene	mg/kg	0.05	NONE	2	53	1.6	2.5	1.7
Pyrene	mg/kg	0.05	NONE	2.1	47	1.4	2.3	1.5
Benzo(a)anthracene	mg/kg	0.05	NONE	1.2	31	0.78	1.4	0.78
Chrysene	mg/kg	0.05	NONE	1.3	28	0.8	1.5	0.9
Benzo(b)fluoranthene	mg/kg	0.05	NONE	1.5	39	0.94	2.2	0.92
Benzo(k)fluoranthene	mg/kg	0.05	NONE	0.59	11	0.51	0.74	0.53
Benzo(a)pyrene	mg/kg	0.05	NONE	1.2	29	0.85	1.5	0.86
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	NONE	0.6	17	0.47	0.95	0.5
Dibenz(a,h)anthracene	mg/kg	0.05	NONE	0.21	4.6	0.12	0.29	0.13
Benzo(ghi)perylene	mg/kg	0.05	NONE	0.78	18	0.57	1.1	0.56

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	NONE	13.1	315	9.37	15.8	9.05
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Analytical Report Number: 23-32057
Project / Site name: Bounds Green

Lab Sample Number	2669286	2669287	2669288	2669289	2669290
Sample Reference	BH1	BH2	BH3	BH4	TP1
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.90	0.20	0.50	0.60	0.50
Date Sampled	02/05/2023	02/05/2023	02/05/2023	02/05/2023	02/05/2023
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	12	18	27	33
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.6	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	9.9	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	33	78	39	21	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	150	68	78	40	41
Lead (aqua regia extractable)	mg/kg	1	MCERTS	130	2400	100	120	120
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.6	< 0.3	< 0.3	0.3	0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	35	36	31	10	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	150	940	240	67	110

Monoaromatics & Oxygenates

Benzene	µg/kg	5	NONE	-	< 5.0	-	-	-
Toluene	µg/kg	5	NONE	-	< 5.0	-	-	-
Ethylbenzene	µg/kg	5	NONE	-	< 5.0	-	-	-
p & m-xylene	µg/kg	5	NONE	-	< 5.0	-	-	-
o-xylene	µg/kg	5	NONE	-	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	< 5.0	-	-	-

Petroleum Hydrocarbons

TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	NONE	30	1400	13	43	11
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TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	NONE	-	< 1.0	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	NONE	-	7.2	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	NONE	-	28	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	NONE	-	740	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	780	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	NONE	-	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	NONE	-	6.8	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	NONE	-	100	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	NONE	-	390	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	500	-	-	-

TPH (C8 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12) EH_CU_1D_TOTAL	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16) EH_CU_1D_TOTAL	mg/kg	4	NONE	< 4.0	14	< 4.0	< 4.0	< 4.0
TPH (C16 - C21) EH_CU_1D_TOTAL	mg/kg	1	NONE	5.5	130	< 1.0	6	1
TPH (C21 - C35) EH_CU_1D_TOTAL	mg/kg	1	NONE	24	1100	12	35	9.9
TPH Total C8 - C35 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	29	1300	12	41	11

Analytical Report Number: 23-32057
Project / Site name: Bounds Green

Lab Sample Number	2669286	2669287	2669288	2669289	2669290
Sample Reference	BH1	BH2	BH3	BH4	TP1
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.90	0.20	0.50	0.60	0.50
Date Sampled	02/05/2023	02/05/2023	02/05/2023	02/05/2023	02/05/2023
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Chloroethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Bromomethane###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Vinyl Chloride	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,1-Dichloroethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Trichloromethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,1,1-Trichloroethane###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,2-Dichloroethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,1-Dichloropropene###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Benzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Tetrachloromethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,2-Dichloropropane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Trichloroethene###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Dibromomethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Bromodichloromethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Cis-1,3-dichloropropene###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Toluene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,1,2-Trichloroethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,3-Dichloropropane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Dibromochloromethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Tetrachloroethene###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,2-Dibromoethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Chlorobenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,1,1,2-Tetrachloroethane###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Ethylbenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
p & m-Xylene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Styrene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Tribromomethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
o-Xylene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Isopropylbenzene###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Bromobenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
n-Propylbenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
2-Chlorotoluene###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
4-Chlorotoluene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
tert-Butylbenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
sec-Butylbenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,3-Dichlorobenzene###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
p-Isopropyltoluene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,2-Dichlorobenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,4-Dichlorobenzene###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Butylbenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,2-Dibromo-3-chloropropane###	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0

Analytical Report Number: 23-32057
Project / Site name: Bounds Green

Lab Sample Number				2669286	2669287	2669288	2669289	2669290
Sample Reference				BH1	BH2	BH3	BH4	TP1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.90	0.20	0.50	0.60	0.50
Date Sampled				02/05/2023	02/05/2023	02/05/2023	02/05/2023	02/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
1,2,3-Trichlorobenzene	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
Phenol	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
2-Chlorophenol	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
2-Methylphenol	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
Hexachloroethane	mg/kg	0.05	NONE	-	-	< 0.05	-	< 0.05
Nitrobenzene	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
Isophorone	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
Naphthalene	mg/kg	0.05	NONE	-	-	< 0.05	-	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
2-Chloronaphthalene	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
Dimethylphthalate	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	< 0.1	-	< 0.1
Acenaphthylene	mg/kg	0.05	NONE	-	-	< 0.05	-	0.05
Acenaphthene	mg/kg	0.05	NONE	-	-	0.1	-	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
Dibenzofuran	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
Diethyl phthalate	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
Fluorene	mg/kg	0.05	NONE	-	-	0.09	-	< 0.05
Azobenzene	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	NONE	-	-	< 0.2	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
Phenanthrene	mg/kg	0.05	NONE	-	-	1	-	0.51
Anthracene	mg/kg	0.05	NONE	-	-	0.17	-	0.11
Carbazole	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	15	-	< 0.2
Anthraquinone	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
Fluoranthene	mg/kg	0.05	NONE	-	-	1.6	-	1.7
Pyrene	mg/kg	0.05	NONE	-	-	1.4	-	1.5
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	< 0.3	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	NONE	-	-	0.78	-	0.78
Chrysene	mg/kg	0.05	NONE	-	-	0.8	-	0.9
Benzo(b)fluoranthene	mg/kg	0.05	NONE	-	-	0.94	-	0.92
Benzo(k)fluoranthene	mg/kg	0.05	NONE	-	-	0.51	-	0.53
Benzo(a)pyrene	mg/kg	0.05	NONE	-	-	0.85	-	0.86
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	NONE	-	-	0.47	-	0.5



Analytical Report Number: 23-32057
Project / Site name: Bounds Green

Lab Sample Number				2669286	2669287	2669288	2669289	2669290
Sample Reference				BH1	BH2	BH3	BH4	TP1
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.90	0.20	0.50	0.60	0.50
Date Sampled				02/05/2023	02/05/2023	02/05/2023	02/05/2023	02/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Dibenz(a,h)anthracene	mg/kg	0.05	NONE	-	-	0.12	-	0.13
Benzo(ghi)perylene	mg/kg	0.05	NONE	-	-	0.57	-	0.56

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



Analytical Report Number: 23-32057
Project / Site name: Bounds Green

Lab Sample Number				2669291
Sample Reference				DCP2
Sample Number				None Supplied
Depth (m)				0.40
Date Sampled				02/05/2023
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	65
Moisture Content	%	0.01	NONE	6.7
Total mass of sample received	kg	0.001	NONE	1.3

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

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	12.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	9500
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.024
Sulphide	mg/kg	1	NONE	14
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	130
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.4

Total Phenols

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

Naphthalene	mg/kg	0.05	NONE	< 0.05
Acenaphthylene	mg/kg	0.05	NONE	< 0.05
Acenaphthene	mg/kg	0.05	NONE	< 0.05
Fluorene	mg/kg	0.05	NONE	< 0.05
Phenanthrene	mg/kg	0.05	NONE	0.38
Anthracene	mg/kg	0.05	NONE	0.06
Fluoranthene	mg/kg	0.05	NONE	0.76
Pyrene	mg/kg	0.05	NONE	0.69
Benzo(a)anthracene	mg/kg	0.05	NONE	0.42
Chrysene	mg/kg	0.05	NONE	0.39
Benzo(b)fluoranthene	mg/kg	0.05	NONE	0.46
Benzo(k)fluoranthene	mg/kg	0.05	NONE	0.28
Benzo(a)pyrene	mg/kg	0.05	NONE	0.39
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	NONE	0.26
Dibenz(a,h)anthracene	mg/kg	0.05	NONE	0.05
Benzo(ghi)perylene	mg/kg	0.05	NONE	0.3

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	NONE	4.44
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Analytical Report Number: 23-32057
Project / Site name: Bounds Green

Lab Sample Number				2669291
Sample Reference				DCP2
Sample Number				None Supplied
Depth (m)				0.40
Date Sampled				02/05/2023
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	26
Lead (aqua regia extractable)	mg/kg	1	MCERTS	36
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	59

Monoaromatics & Oxygenates

Benzene	µg/kg	5	NONE	-
Toluene	µg/kg	5	NONE	-
Ethylbenzene	µg/kg	5	NONE	-
p & m-xylene	µg/kg	5	NONE	-
o-xylene	µg/kg	5	NONE	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-

Petroleum Hydrocarbons

TPH C10 - C40 _{EH_CU_1D_TOTAL}	mg/kg	10	NONE	25
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TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	NONE	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	NONE	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	NONE	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	NONE	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	NONE	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	NONE	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	NONE	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	NONE	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-

TPH (C8 - C10) _{HS_1D_TOTAL}	mg/kg	0.1	NONE	< 0.1
TPH (C10 - C12) _{EH_CU_1D_TOTAL}	mg/kg	2	NONE	< 2.0
TPH (C12 - C16) _{EH_CU_1D_TOTAL}	mg/kg	4	NONE	< 4.0
TPH (C16 - C21) _{EH_CU_1D_TOTAL}	mg/kg	1	NONE	1.4
TPH (C21 - C35) _{EH_CU_1D_TOTAL}	mg/kg	1	NONE	24
TPH Total C8 - C35 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	25

Analytical Report Number: 23-32057
Project / Site name: Bounds Green

Lab Sample Number				2669291
Sample Reference				DCP2
Sample Number				None Supplied
Depth (m)				0.40
Date Sampled				02/05/2023
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
VOCs				
Chloromethane###	µg/kg	5	NONE	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0
Bromomethane###	µg/kg	5	NONE	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	NONE	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0
1,1-Dichloroethane	µg/kg	5	NONE	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	< 5.0
Trichloromethane	µg/kg	5	NONE	< 5.0
1,1,1-Trichloroethane###	µg/kg	5	NONE	< 5.0
1,2-Dichloroethane	µg/kg	5	NONE	< 5.0
1,1-Dichloropropene###	µg/kg	5	NONE	< 5.0
Trans-1,2-dichloroethene	µg/kg	5	NONE	< 5.0
Benzene	µg/kg	5	NONE	< 5.0
Tetrachloromethane	µg/kg	5	NONE	< 5.0
1,2-Dichloropropane	µg/kg	5	NONE	< 5.0
Trichloroethene###	µg/kg	5	NONE	< 5.0
Dibromomethane	µg/kg	5	NONE	< 5.0
Bromodichloromethane	µg/kg	5	NONE	< 5.0
Cis-1,3-dichloropropene###	µg/kg	5	NONE	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	NONE	< 5.0
Toluene	µg/kg	5	NONE	< 5.0
1,1,2-Trichloroethane	µg/kg	5	NONE	< 5.0
1,3-Dichloropropane	µg/kg	5	NONE	< 5.0
Dibromochloromethane	µg/kg	5	NONE	< 5.0
Tetrachloroethene###	µg/kg	5	NONE	< 5.0
1,2-Dibromoethane	µg/kg	5	NONE	< 5.0
Chlorobenzene	µg/kg	5	NONE	< 5.0
1,1,1,2-Tetrachloroethane###	µg/kg	5	NONE	< 5.0
Ethylbenzene	µg/kg	5	NONE	< 5.0
p & m-Xylene	µg/kg	5	NONE	< 5.0
Styrene	µg/kg	5	NONE	< 5.0
Tribromomethane	µg/kg	5	NONE	< 5.0
o-Xylene	µg/kg	5	NONE	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	< 5.0
Isopropylbenzene###	µg/kg	5	NONE	< 5.0
Bromobenzene	µg/kg	5	NONE	< 5.0
n-Propylbenzene	µg/kg	5	NONE	< 5.0
2-Chlorotoluene###	µg/kg	5	NONE	< 5.0
4-Chlorotoluene	µg/kg	5	NONE	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	NONE	< 5.0
tert-Butylbenzene	µg/kg	5	NONE	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	NONE	< 5.0
sec-Butylbenzene	µg/kg	5	NONE	< 5.0
1,3-Dichlorobenzene###	µg/kg	5	NONE	< 5.0
p-Isopropyltoluene	µg/kg	5	NONE	< 5.0
1,2-Dichlorobenzene	µg/kg	5	NONE	< 5.0
1,4-Dichlorobenzene###	µg/kg	5	NONE	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0
1,2-Dibromo-3-chloropropane###	µg/kg	5	NONE	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	NONE	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0



Analytical Report Number: 23-32057
Project / Site name: Bounds Green

Lab Sample Number				2669291
Sample Reference				DCP2
Sample Number				None Supplied
Depth (m)				0.40
Date Sampled				02/05/2023
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
1,2,3-Trichlorobenzene	µg/kg	5	NONE	< 5.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1
Phenol	mg/kg	0.2	NONE	< 0.2
2-Chlorophenol	mg/kg	0.1	NONE	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	NONE	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	NONE	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	NONE	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	NONE	< 0.1
2-Methylphenol	mg/kg	0.3	NONE	< 0.3
Hexachloroethane	mg/kg	0.05	NONE	< 0.05
Nitrobenzene	mg/kg	0.3	NONE	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2
Isophorone	mg/kg	0.2	NONE	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	NONE	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	NONE	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	NONE	< 0.3
Naphthalene	mg/kg	0.05	NONE	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	NONE	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1
Hexachlorobutadiene	mg/kg	0.1	NONE	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1
2-Chloronaphthalene	mg/kg	0.1	NONE	< 0.1
Dimethylphthalate	mg/kg	0.1	NONE	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1
Acenaphthylene	mg/kg	0.05	NONE	< 0.05
Acenaphthene	mg/kg	0.05	NONE	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2
Dibenzofuran	mg/kg	0.2	NONE	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	NONE	< 0.3
Diethyl phthalate	mg/kg	0.2	NONE	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2
Fluorene	mg/kg	0.05	NONE	< 0.05
Azobenzene	mg/kg	0.3	NONE	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	NONE	< 0.2
Hexachlorobenzene	mg/kg	0.3	NONE	< 0.3
Phenanthrene	mg/kg	0.05	NONE	0.38
Anthracene	mg/kg	0.05	NONE	0.06
Carbazole	mg/kg	0.3	NONE	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2
Anthraquinone	mg/kg	0.3	NONE	< 0.3
Fluoranthene	mg/kg	0.05	NONE	0.76
Pyrene	mg/kg	0.05	NONE	0.69
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3
Benzo(a)anthracene	mg/kg	0.05	NONE	0.42
Chrysene	mg/kg	0.05	NONE	0.39
Benzo(b)fluoranthene	mg/kg	0.05	NONE	0.46
Benzo(k)fluoranthene	mg/kg	0.05	NONE	0.28
Benzo(a)pyrene	mg/kg	0.05	NONE	0.39
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	NONE	0.26



Analytical Report Number: 23-32057
Project / Site name: Bounds Green

Lab Sample Number				2669291
Sample Reference				DCP2
Sample Number				None Supplied
Depth (m)				0.40
Date Sampled				02/05/2023
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Dibenz(a,h)anthracene	mg/kg	0.05	NONE	0.05
Benzo(ghi)perylene	mg/kg	0.05	NONE	0.3

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



Analytical Report Number: 23-32057
Project / Site name: Bounds Green
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/ weighing (%)	Total % Asbestos in Sample
2669287	BH2	0.20	152	Loose Fibres	Chrysotile	< 0.001	< 0.001

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



Analytical Report Number : 23-32057
Project / Site name: Bounds Green

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2669286	BH1	None Supplied	0.9	Brown clay and sand with chalk.
2669287	BH2	None Supplied	0.2	Brown loam and sand with tar and concrete.
2669288	BH3	None Supplied	0.5	Brown clay and sand with gravel.
2669289	BH4	None Supplied	0.6	Brown clay and sand with gravel.
2669290	TP1	None Supplied	0.5	Brown clay and sand with gravel and vegetation.
2669291	DCP2	None Supplied	0.4	Brown clay and sand with gravel and stones.

Analytical Report Number : 23-32057
Project / Site name: Bounds Green

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	NONE



Analytical Report Number : 23-32057
Project / Site name: Bounds Green

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
TPH Banding in Soil by FID	Determination of hexane extractable hydrocarbons in soil by GC-FID.	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined aravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

- Quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.

 GEA		Geotechnical & Environmental Associates www.gea-ltd.co.uk		Generic Risk-Based Soil Screening Values																																																																																																																																																																																																																																					
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(%)</td><td>10</td><td>Methanogenic potential</td></tr><tr><td>Total Cyanide</td><td>12000</td><td>WRAS</td></tr><tr><td>Total Mono Phenols</td><td>3200</td><td>SGV</td></tr><tr><td colspan="3">PAH</td></tr><tr><td>Naphthalene</td><td>190.00</td><td>S4UL</td></tr><tr><td>Acenaphthylene</td><td>83,000</td><td>S4UL</td></tr><tr><td>Acenaphthene</td><td>84,000</td><td>S4UL</td></tr><tr><td>Fluorene</td><td>63,000</td><td>S4UL</td></tr><tr><td>Phenanthrene</td><td>22,000</td><td>S4UL</td></tr><tr><td>Anthracene</td><td>520,000</td><td>S4UL</td></tr><tr><td>Fluoranthene</td><td>23,000</td><td>S4UL</td></tr><tr><td>Pyrene</td><td>54,000</td><td>S4UL</td></tr><tr><td>Benzo(a)anthracene</td><td>170.0</td><td>S4UL</td></tr><tr><td>Chrysene</td><td>350</td><td>S4UL</td></tr><tr><td>Benzo(b)fluoranthene</td><td>44.0</td><td>S4UL</td></tr><tr><td>Benzo(k)fluoranthene</td><td>1,200.0</td><td>S4UL</td></tr><tr><td>Benzo(a)pyrene</td><td>42.00</td><td>C4SL</td></tr><tr><td>Indeno(1 2 3 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Phenols	3200	SGV	PAH			Naphthalene	190.00	S4UL	Acenaphthylene	83,000	S4UL	Acenaphthene	84,000	S4UL	Fluorene	63,000	S4UL	Phenanthrene	22,000	S4UL	Anthracene	520,000	S4UL	Fluoranthene	23,000	S4UL	Pyrene	54,000	S4UL	Benzo(a)anthracene	170.0	S4UL	Chrysene	350	S4UL	Benzo(b)fluoranthene	44.0	S4UL	Benzo(k)fluoranthene	1,200.0	S4UL	Benzo(a)pyrene	42.00	C4SL	Indeno(1 2 3 cd)pyrene	500.0	S4UL	Dibenz(a h)anthracene	3.50	S4UL	Benzo (g h i)perylene	3,900	S4UL	Total PAH Screen	600.0	B(a)P / 0.15	<table><tr><th>Contaminant</th><th>Screening Value mg/kg</th><th>Data Source</th></tr><tr><td colspan="3">Hydrocarbons</td></tr><tr><td>Banded TPH (8-10)</td><td>5385</td><td>Calc1</td></tr><tr><td>Banded TPH (10-12)</td><td>24615</td><td>Calc1</td></tr><tr><td>Banded TPH (12-16)</td><td>55385</td><td>Calc1</td></tr><tr><td>Banded TPH (16-21)</td><td>43077</td><td>Calc1</td></tr><tr><td>Banded TPH 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C16-C21</td><td>28000</td><td>S4UL</td></tr><tr><td>Aromatic C21-C35</td><td>28000</td><td>S4UL</td></tr><tr><td>PRO (C₅ –C₁₀)</td><td>17397</td><td>Calc2</td></tr><tr><td>DRO (C₁₂ –C₂₈)</td><td>1,723,000</td><td>Calc2</td></tr><tr><td>Lube Oil (C₂₈ –C₄₄)</td><td>1,628,000</td><td>Calc2</td></tr><tr><td>TPH</td><td>750</td><td>Trigger to consider speciated testing</td></tr><tr><td colspan="3">Chlorinated Solvents</td></tr><tr><td>1,1,1 trichloroethane (TCA)</td><td>660</td><td>S4UL</td></tr><tr><td>tetrachloroethane (PCA)</td><td>110</td><td>S4UL</td></tr><tr><td>tetrachloroethene (PCE)</td><td>24</td><td>C4SL</td></tr><tr><td>trichloroethene (TCE)</td><td>0.73</td><td>C4SL</td></tr><tr><td>1,2-dichloroethane (DCA)</td><td>12</td><td>C4SL</td></tr><tr><td>vinyl chloride (Chloroethene)</td><td>1.1</td><td>C4SL</td></tr><tr><td>tetrachloromethane (Carbon tetra</td><td>2.9</td><td>S4UL</td></tr><tr><td>trichloromethane 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tetrachloromethane (Carbon tetra	2.9	S4UL																																																																																																																																																																																																																																							
trichloromethane (Chloroform)	99	S4UL																																																																																																																																																																																																																																							
Notes Concentrations measured below these screening values may be considered to represent 'uncontaminated conditions' which pose a 'LOW' risk to human health. Concentrations measured in excess of these values indicate a potential risk which require further, site specific risk assessment. C4SL - Defra Category 4 Screening value based on Low Level of Toxicological Risk SGV - Soil Guideline Value, derived from the CLEA model and published by Environment Agency 2009 - where not superseded by C4SL S4UL - LQM/CIEH Suitable for use Level (2015) based on 'minimal' level of risk Calc1 - sum of thresholds for Ali & Aro fractions - assuming a 35% Aro:65% Ali ratio as is commonly encountered in the soil Calc2 - sum of nearest available carbon range specified including BTEX for PRO fraction Total PAH based on B(a)P / 0.15 - GEA experience indicates that Benzo(a) pyrene rarely exceeds 15% of the total PAH concentration																																																																																																																																																																																																																																									

 GEA Geotechnical & Environmental Associates www.gea-ltd.co.uk		Generic Risk-Based Soil Screening Values	
Site	Block F, Bounds Green Industrial Estate, Southway, London N11 2UL		Job Number J23051
Client	Capital Industrial 3 Limited		Sheet 2 / 2
Engineer	Dovetail Architects		
Proposed End Use Commercial			
The key generic assumptions for this end use are as follows; ☐ that groundwater will not be a critical risk receptor; ☐ that the critical receptor for human health will be a working female aged 16 to 65 years old; ☐ that the exposure duration will be 49 years; ☐ that the building type equates to a three-storey office. ☐ that the critical exposure pathways will be direct soil and indoor dust ingestion, skin contact with soils and dust, and inhalation of dust and vapours; Where contaminant concentrations are measured at concentrations below the generic screening value it is considered that they pose an acceptable level of risk and thus further consideration of these contaminant concentrations is not required. However, where concentrations are measured in excess of the generic screening value there is considered to be a potential that they could pose an unacceptable risk and thus further action will be required which could include: ☐ additional testing to zone the extent of the contaminated material and thus reduce the uncertainty with regard to its potential risk; ☐ site specific risk assessment to refine the assessment criteria and allow an assessment to be made as to whether the concentration present would pose an unacceptable risk at this site; or ☐ soil remediation or risk management to mitigate the risk posed by the contaminant to a degree that it poses an acceptable risk.			



appendix c

Desk Study

Envirocheck Extracts
Historical Maps
UXO Preliminary Risk Assessment

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

307360015_1_1

Customer Reference:

J23051

National Grid Reference:

529160, 191690

Slice:

A

Site Area (Ha):

0.36

Search Buffer (m):

1000

Site Details:

Block F Bound Green Industrial Estate

LONDON

N11 2UL

Client Details:

Mr S Branch

GEA Ltd

Widbury Barn

Widbury Hill

Ware

Herts

SG12 7QE

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	23
Hazardous Substances	26
Geological	27
Industrial Land Use	31
Sensitive Land Use	55
Data Currency	56
Data Suppliers	63
Useful Contacts	64

Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2			8	4
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 4		3		7
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 6		Yes		
Pollution Incidents to Controlled Waters	pg 6		1		8
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 7				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 8		2		
Water Abstractions	pg 8				2 (*28)
Water Industry Act Referrals	pg 15	1			
Groundwater Vulnerability Map	pg 15	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 16	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones	pg 16				1
Extreme Flooding from Rivers or Sea without Defences	pg 16		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 16		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 16		9	13	32

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 23		1		
Historical Landfill Sites	pg 23		1	1	
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 23		1	1	
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 24		1	1	
Potentially Infilled Land (Non-Water)	pg 24			1	3
Potentially Infilled Land (Water)	pg 24		2		5
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 25			1	
Registered Waste Treatment or Disposal Sites	pg 25		1	1	
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 26		1		
Planning Hazardous Substance Consents	pg 26		1		
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 27	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry					
BGS Recorded Mineral Sites	pg 27				3
BGS Urban Soil Chemistry	pg 27		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 30	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 30	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 30		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 30	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 30	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 30	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 31	8	54	21	96
Fuel Station Entries	pg 46		1		2
Points of Interest - Commercial Services	pg 46	2	4	3	27
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 49		12	2	10
Points of Interest - Public Infrastructure	pg 51		5		11
Points of Interest - Recreational and Environmental	pg 53			5	12
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 55	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 of Property Situated Below Ground Level	A13NW (W)	66	1	529050 191691
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	70	1	529050 191650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	116	1	529000 191691
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	148	1	529100 191850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	173	1	529163 191900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	181	1	528950 191600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	249	1	528900 191550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	316	1	528850 191850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	325	1	528800 191750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	340	1	528800 191800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	343	1	528850 191900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	367	1	528750 191700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	367	1	528750 191650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	376	1	529250 192100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	385	1	528800 191900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	402	1	529350 192100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	417	1	528700 191650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	468	1	529400 192150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Markheath Construction L+Td Property Type: REAL ESTATE ACTIVITIES/BUYING/SELLING/RENTING Location: Hobart Industrial Site, Telfordroad, New Southgate, London N11 Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0788 Permit Version: 1 Effective Date: 9th April 1986 Issued Date: 9th April 1986 Revocation Date: 21st July 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Bounds Greenbrook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A13NE (N)	254	2	529220 191980
2	Discharge Consents Operator: Markheath Construction Ltd Property Type: CONSTRUCTION OF BUILDINGS Location: Offices/Land Unit, Lower Park Road, Off Station Road, New Southgate, London Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cntw.0005 Permit Version: 1 Effective Date: 2nd October 1989 Issued Date: 2nd October 1989 Revocation Date: 21st July 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Bounds Greenbrook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A13NW (N)	290	2	529100 192000
3	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Br Land, Muswellbr Landmuswell Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2408 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 13th October 2015 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pymmes Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A12NE (W)	340	2	528800 191800
3	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Br Land, Muswellbr Landmuswell Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2408 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pymmes Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m	A12NE (W)	340	2	528800 191800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Pinkham Way Cso Atlas Road . Barnet London N11 3nw Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Csac.1088 Permit Version: 2 Effective Date: 7th May 2021 Issued Date: 7th May 2021 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Bounds Green Brook Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SE (W)	446	2	528670 191680
4	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Oop Alexandra Road Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2825 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 13th October 2015 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Bounds Green Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SE (W)	476	2	528640 191670
4	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Oop Alexandra Road Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2825 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Bounds Green Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 10m	A12SE (W)	476	2	528640 191670
4	Discharge Consents Operator: Thames Water Utilities Limited. Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Pinkham Way Cso Atlas Road . Barnet London N11 3nw Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CSAC.1088 Permit Version: 1 Effective Date: 8th July 1988 Issued Date: 8th July 1988 Revocation Date: 6th May 2021 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Bounds Greenbrook Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m	A12NE (W)	477	2	528640 191700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Pinkham Way Overflown11 Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2833 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 13th October 2015 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Bounds Green Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SW (W)	690	2	528430 191601
5	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Pinkham Way Overflown11 Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2833 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Bounds Green Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 10m	A12SW (W)	690	2	528430 191601
5	Discharge Consents Operator: Thames Water Authority Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Foul Sewer Storm Overflow, Pinkham Way, London N11 Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctrc.2052 Permit Version: 1 Effective Date: 21st October 1983 Issued Date: 21st October 1983 Revocation Date: 8th July 1988 Discharge Type: Settled storm discharge - storm tank discharges Discharge: Freshwater Stream/River Environment: Receiving Water: Bounds Greenbrook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A12SW (W)	690	2	528430 191600
6	Discharge Consents Operator: S Jamszewski Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 39 Arnos Road, London N11 Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.2188 Permit Version: 1 Effective Date: 1st February 1988 Issued Date: 1st February 1988 Revocation Date: 28th January 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Pymmes Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A18NE (N)	873	2	529200 192600
7	Local Authority Pollution Prevention and Controls Name: Carlton Dry Cleaners Location: Unit C7 Down, Northway, Bounds Green Industrial Estate, London, N11 2uu Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	5	3	529141 191710

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Local Authority Pollution Prevention and Controls Name: Marshall Panelcraft Location: Units B5/6/7 Lower Ringway, Bounds Green Industrial, London, N11 4ud Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: HGY/003 Dated: 1st April 1999 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13NW (N)	58	3	529157 191773
9	Local Authority Pollution Prevention and Controls Name: Pinkham Way Sf Connect Location: North Circular Road, LONDON, N11 2UU Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: PV-34/v1 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	A13NW (N)	108	3	529137 191819
10	Local Authority Pollution Prevention and Controls Name: Priory Footwear Ltd Location: Roman Road, London, N10 2NJ Authority: London Borough of Barnet, Environmental Health Department Permit Reference: 990397 Dated: 3rd November 1993 Process Type: Local Authority Air Pollution Control Description: PG6/8 Textile and fabric coating of finishing processes Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	767	4	528605 191102
11	Local Authority Pollution Prevention and Controls Name: Elegance Location: 390 Bowes Road, London, N11 1AH Authority: London Borough of Enfield, Environmental Health Department Permit Reference: P000127 Dated: 1st October 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A18NW (N)	773	5	529136 192498
12	Local Authority Pollution Prevention and Controls Name: Golden Touch Dry Cleaners Location: 42 Bounds Green Road, London, N11 2eu Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: DC23 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	A14SE (E)	787	3	529962 191488
13	Local Authority Pollution Prevention and Controls Name: Clothes Care Dry Cleaners Location: 1 Maidstone Road, Bounds Green, N11 2TR Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: DC12 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	A14SE (E)	818	3	530004 191527
13	Local Authority Pollution Prevention and Controls Name: Clothes Care Location: 1 Maidstone Road, London, N11 2tr Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: Not Supplied 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	A14SE (E)	818	3	530004 191527

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Local Authority Pollution Prevention and Controls Name: Waterfall ConnectBp Oil Uk Ltd Location: Oakleigh Road South, LONDON, N11 1NH Authority: London Borough of Barnet, Environmental Health Department Permit Reference: PPC23 Dated: 13th January 1999 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	A17NE (NW)	943	4	528752 192567
14	Local Authority Pollution Prevention and Controls Name: Friern Barnet Service Station Location: Friern Barnet Road, LONDON, N11 1NE Authority: London Borough of Barnet, Environmental Health Department Permit Reference: Lapc/Vr/038 Dated: 13th October 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address	A17NE (NW)	962	4	528751 192588
	Nearest Surface Water Feature	A13SE (SE)	208	-	529254 191475
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: SOUTHGATE Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 14th November 1991 Incident Reference: NE910015 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	173	2	529200 191900
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: COLNEY HATCH Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 17th November 1993 Incident Reference: NE930786 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	617	2	528500 191700
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: SOUTHGATE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 18th November 1994 Incident Reference: NE940847 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	692	2	529500 192350
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: FRIERN BARNET Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 25th July 1990 Incident Reference: NE900307 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	834	2	528300 191500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Bowes Road, SOUTHGATE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 2nd December 1991 Incident Reference: NE910573 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	839	2	529700 192400
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Colney Hatch Lane, FRIERN BARNET Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 15th March 1990 Incident Reference: NE900088 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	897	2	528300 191300
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Arnos Road, NEW SOUTHGATE Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 18th March 1997 Incident Reference: THNE1997031170 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NW (N)	923	2	529500 192600
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: SOUTHGATE Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 16th August 1994 Incident Reference: NE940621 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	940	2	529800 192450
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: NEW SOUTHGATE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 29th January 1991 Incident Reference: NE910042 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	979	2	529800 192500
	River Quality Name: Pymmes Bk GQA Grade: River Quality C Reach: Green Bk - Salmon Bk Estimated Distance (km): 12.8 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A19NW (NE)	962	2	529594 192605

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, North East Area Incident Date: 8th July 2018 Incident Reference: 1630353 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A13NE (N)	187	2	529187 191914
23	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, North East Area Incident Date: 12th January 2019 Incident Reference: 1673640 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A13NE (N)	203	2	529165 191928
24	Water Abstractions Operator: The Muswell Hill Golf Company Limited Licence Number: Th/038/0009/044 Permit Version: 2 Location: Borehole - Confined Chalk At Muswell Hill Golf Club Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Muswell Hill Golf Club, London Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st August 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SW (S)	760	2	529066 190897
24	Water Abstractions Operator: Muswell Hill Golf Club Licence Number: Th/038/0009/044 Permit Version: 1 Location: Borehole - Confined Chalk At Muswell Hill Golf Club Authority: Environment Agency, Thames Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Muswell Hill Golf Club, London Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 30th October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SW (S)	760	2	529066 190897
	Water Abstractions Operator: Affinity Water Limited Licence Number: 29/38/09/0101 Permit Version: 102 Location: Brunswick Park Road Pumping Station Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SE (NW)	1178	2	528700 192800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Veolia Water Central Limited Licence Number: 29/38/09/0101 Permit Version: 101 Location: Brunswick Park Road Pumping Station Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th July 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SE (NW)	1178	2	528700 192800
	Water Abstractions Operator: Three Valleys Water Plc Licence Number: 29/38/09/0101 Permit Version: 100 Location: Brunswick Park Road Pumping Station Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 455 Yearly Rate (m3): 165929 Details: Chalk (Undifferentiated) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th September 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SE (NW)	1178	2	528700 192800
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 104 Location: Myddleton Road - Nlars Point 12 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Nlars Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 23rd July 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SE (E)	1379	2	530560 191447
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 103 Location: Myddleton Road - Nlars Point 12 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th October 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SE (E)	1382	2	530560 191430

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 102 Location: Myddleton Road - Nlars Point 12 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th December 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SE (E)	1382	2	530560 191430
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 101 Location: Myddleton Road - Nlars Point 12 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st March 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SE (E)	1382	2	530560 191430
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 100 Location: Myddleton Road - Nlars Point 12 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 275000 Yearly Rate (m3): 55000000 Details: Aggregated Volume From 35 Sites Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th June 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SE (E)	1382	2	530560 191430
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 104 Location: Whittington Road - Nlars Point 11 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Nlars Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 23rd July 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1389	2	530594 191734

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 103 Location: Whittington Road - Nlars Point 11 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th October 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1395	2	530600 191730
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 102 Location: Whittington Road - Nlars Point 11 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th December 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1395	2	530600 191730
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 101 Location: Whittington Road - Nlars Point 11 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st March 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1395	2	530600 191730
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 100 Location: Whittington Road - Nlars Point 11 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th June 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1395	2	530600 191730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 103 Location: Bowes Road, Enfield - Nlars Point 44 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th October 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1521	2	530660 192150
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 102 Location: Bowes Road, Enfield - Nlars Point 44 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th December 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1521	2	530660 192150
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 104 Location: Bowes Road, Enfield - Nlars Point 44 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Nlars Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 23rd July 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20SE (E)	1530	2	530663 192172
	Water Abstractions Operator: London Borough Of Enfield Licence Number: 29/38/09/0099 Permit Version: 100 Location: Broomfield Park Authority: Environment Agency, Thames Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 205 Yearly Rate (m3): 20457 Details: Broomfield Park, Southgate Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 18th July 1980 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SW (NE)	1538	2	530300 192800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0152D Permit Version: Not Supplied Location: Bowes Road, PALMERS GREEN Authority: Environment Agency, Thames Region Abstraction: Public Water Supply Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 10000 Yearly Rate (m3): 1 Details: Also Artificial Recharge. Annual Total Aggregated To Another Licence; Licence Status: Expired 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	A20SE (E)	1574	2	530700 192200
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 103 Location: Station Road - Nlars Point 13 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th October 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NW (SE)	1806	2	530480 190410
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 102 Location: Station Road - Nlars Point 13 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th December 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NW (SE)	1806	2	530480 190410
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 101 Location: Station Road - Nlars Point 13 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st March 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NW (SE)	1806	2	530480 190410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 100 Location: Station Road - Nlars Point 13 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 275000 Yearly Rate (m3): 55000000 Details: Aggregated Volume From 35 Sites Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th June 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NW (SE)	1806	2	530480 190410
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 104 Location: Station Road - Nlars Point 13 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Nlars Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 23rd July 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NW (SE)	1807	2	530484 190412
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 103 Location: King'S Arms Bridge - Nlars Point 10 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th October 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1849	2	530920 192400
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 102 Location: King'S Arms Bridge - Nlars Point 10 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th December 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1849	2	530920 192400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 101 Location: King'S Arms Bridge - Nlars Point 10 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st March 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1849	2	530920 192400
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 100 Location: King'S Arms Bridge - Nlars Point 10 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 275000 Yearly Rate (m3): 55000000 Details: Aggregated Volume From 35 Sites Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th June 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1849	2	530920 192400
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 29/38/09/0157 Permit Version: 104 Location: King'S Arms Bridge - Nlars Point 10 Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Nlars Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 23rd July 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1851	2	530917 192415
25	Water Industry Act Referrals Name: Alpha Engraving Co Ltd Location: ALPHA ENGRAVING CO LTD, F1 SOUTHWAY, BOUNDS GREEN IND EST, BOUNDS GREEN, LONDON, LONDON, N11 2UL Authority: Environment Agency, Thames Region Permit Reference: BZ8891 Dated: 24th November 2005 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorised Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	2	529164 191692
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NE (NE)	0	6	529163 191691

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (NE)	0	6	529163 191691
	Superficial Aquifer Designations No Data Available				
26	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A14NE (E)	764	2	529966 191774
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	100	2	529124 191806
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	139	2	529109 191846
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 442.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (W)	42	7	529089 191720
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 491.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Bounds Green Brook Catchment Name: Thames Primacy: 1	A13NW (NW)	167	7	529084 191866
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Bounds Green Brook Catchment Name: Thames Primacy: 1	A13NW (N)	177	7	529160 191900
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	208	7	529254 191475
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 666.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bounds Green Brook Catchment Name: Thames Primacy: 1	A13NE (N)	214	7	529198 191942

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	220	7	528998 191488
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	238	7	529034 191444
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 96.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	239	7	529271 191448
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	242	7	529038 191437
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	260	7	529045 191414
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	260	7	529045 191414
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	321	7	529316 191378
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	348	7	529096 191309
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	348	7	529096 191309

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	378	7	529111 191277
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 226.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	378	7	529111 191277
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bounds Green Brook Catchment Name: Thames Primacy: 1	A12NE (W)	404	7	528712 191698
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	412	7	529035 191257
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 196.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	412	7	529035 191257
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Bounds Green Brook Catchment Name: Thames Primacy: 1	A12NE (W)	443	7	528673 191691
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	467	7	529022 191204
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 608.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bounds Green Brook Catchment Name: Thames Primacy: 1	A12SE (W)	496	7	528620 191690
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	505	7	529664 191487

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SW)	585	7	528886 191129
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	598	7	529138 191056
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	598	7	529138 191056
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	604	7	529128 191049
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 161.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	604	7	529128 191049
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (SW)	652	7	528829 191084
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8NW (SW)	652	7	528829 191084
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	672	7	529148 190981
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	676	7	528998 190994

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	682	7	529042 190980
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	687	7	529008 190980
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	693	7	529012 190974
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	703	7	529020 190962
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	703	7	529020 190962
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	705	7	529017 190960
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	708	7	529013 190958
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	708	7	529023 190956
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	710	7	529025 190954

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	734	7	528983 190938
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SW (SW)	741	7	528843 190977
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SW (S)	746	7	528882 190956
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	749	7	529044 190911
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	750	7	528949 190930
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A8SW (S)	750	7	528914 190940
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	751	7	528919 190938
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	751	7	528919 190938
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	754	7	528935 190930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Bounds Green Brook Catchment Name: Thames Primacy: 1	A19NW (NE)	801	7	529680 192367
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bounds Green Brook Catchment Name: Thames Primacy: 1	A19NW (NE)	823	7	529691 192386
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 727.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pymme's Brook Catchment Name: Thames Primacy: 1	A19NW (N)	965	7	529540 192630
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 180.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pymme's Brook Catchment Name: Thames Primacy: 1	A19NW (NE)	989	7	529735 192559

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	BGS Recorded Landfill Sites Site Name: Cromwell Rd Location: LONDON, N10 Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A13SW (SW)	197	-	528942 191581
82	Historical Landfill Sites Licence Holder: London Borough of Barnet Location: Pinkham Way, Bounds Green, Friern Barnet Name: Friern Barnet Sewage works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD11390 First Input Date: 31st December 1940 Last Input Date: 31st December 1980 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 5420/0003 BGS Ref: 1055 Other Ref: 8BA006, 8HG003, 5090/0005	A13SW (W)	48	2	529069 191666
83	Historical Landfill Sites Licence Holder: Not Supplied Location: Pinkham Way, New Southgate, Barnet Name: Friern Hospital Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD11133 First Input Date: 31st December 1950 Last Input Date: 31st December 1974 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 5090/0004 BGS Ref: Not Supplied Other Ref: 8BA003, BAR003	A13NW (NW)	314	2	528861 191869
84	Licensed Waste Management Facilities (Locations) Licence Number: 80321 Location: Rear of Block D, Bounds Green Ind.Estate, Bounds Green Road, London, N11 2UD Operator Name: Kengrade Ltd Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) Licence Status: Expired Issued: 17th February 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: 11/01/2004 Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	77	2	529062 191738
85	Licensed Waste Management Facilities (Locations) Licence Number: 80314 Location: BR Goods Yard, Station Road, London, N11 1QH Operator Name: New Southgate Metal Co Ltd Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Metal Recycling Sites (Mixed) Licence Status: Expired Issued: 7th September 1993 Last Modified: 11th March 2004 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	257	2	528942 191877
	Local Authority Landfill Coverage Name: London Borough of Haringey - Has supplied landfill data		0	8	529163 191691

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: London Borough of Enfield - Has supplied landfill data		139	5	529099 191842
	Local Authority Landfill Coverage Name: London Borough of Barnet - Has supplied landfill data		175	9	528979 191791
86	Local Authority Recorded Landfill Sites Location: Former East Barnet Sewage Works, Pinkham Way Reference: 14962/6 Authority: London Borough of Barnet Last Reported Status: Closed Types of Waste: Not Supplied Date of Closure: 31/12/1980 Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A13SW (SW)	46	9	529091 191631
87	Local Authority Recorded Landfill Sites Location: Land At Friern Hospital Reference: 14962/3 Authority: London Borough of Barnet Last Reported Status: Closed Types of Waste: Not Supplied Date of Closure: 31/12/1992 Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A13NW (NW)	316	9	528853 191867
88	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8NE (SE)	454	-	529490 191334
89	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8NE (S)	651	-	529366 191040
90	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18NE (N)	663	-	529249 192388
91	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A18NW (N)	707	-	529091 192426
92	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1881	A13NW (N)	153	-	529101 191855
93	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1881	A13NW (W)	218	-	528926 191782
94	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A18SE (NE)	553	-	529460 192215
95	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1881	A19SW (NE)	824	-	529729 192358
96	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A19NW (NE)	932	-	529708 192508
97	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1946	A7NW (SW)	968	-	528255 191230
98	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A19NE (NE)	979	-	529863 192446

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	Registered Waste Transfer Sites Licence Holder: New Southgate Metals Ltd Licence Reference: DL148 MOD 3 Site Location: Br Goods Yard, Station Road, New Southgate, London, N11 1qh Operator Location: Station Road, ENFIELD, Middlesex, N11 1QH Authority: Environment Agency - Thames Region, North East Area Site Category: Transfer Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 1st November 1983 Preceded By: Not Given Licence: Superseded By: DL307 Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Household + Commercial Waste Max.Waste Permitted By Licence- Stated Waste From Construction Ind. Prohibited Waste: Biodegradable/Putrescible Waste Clinical Waste As In Coll/Disp.Reg's88 Notifiable Wastes Special Wastes	A13NW (NW)	374	2	528870 191970
100	Registered Waste Treatment or Disposal Sites Licence Holder: Kengrade Ltd T/A Park Motors Licence Reference: DL433 Site Location: Rear Of Block D, Bounds Green Industrial Estate, Bounds Green, Haringey, London, N11 2ud Operator Location: 1 Doughty Street, LONDON, Greater London, WC1N 2PH Authority: Environment Agency - Thames Region, North East Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 17th February 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Cars/Lorries/Vehicle/Bodies Incl. Lead/Acid Batteries Tyres Prohibited Waste: Clinical - As In Control.Waste Regs'92 Pcbs/Pcts Special Wastes N.O.S. Waste N.O.S.	A13NW (W)	59	2	529070 191710
101	Registered Waste Treatment or Disposal Sites Licence Holder: New Southgate Metal Company Ltd Licence Reference: DI307 Site Location: Br Goods Yard, Station Road, New Southgate, London, N11 1qh Operator Location: As Site Address Authority: Environment Agency - Thames Region, North East Area Site Category: Scrapyard - with Transfer Station 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: Licence Status: Operational as far as is knownOperational Dated: 1st January 1990 Preceded By: DI148 Mod 3 Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: L.W.R.A. Cat. A = Inert Wastes L.W.R.A. Cat. Bii = Scrap Metal (Some) L.W.R.A. Cat. E = Diff.Gen.Waste (Some) Lead/Acid Batteries Lwra Cat. Bi Gen.Non-Putresc Max.Waste Permitted By Licence Prohibited Waste: Clinical - As In Coll/Disp.Reg's Of '88 Special Wastes N.O.S. Waste N.O.S.	A13NW (NW)	374	2	528870 191970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	Notification of Installations Handling Hazardous Substances (NIHHS) Name: Transco Location: Southgate Holder Station, Station Road, LONDON, N11 1QF Status: Not Active Positional Accuracy: Manually positioned to the address or location	A13NW (N)	191	10	529099 191894
103	Planning Hazardous Substance Consents Name: Bg Transco Plc Location: Eastern, Southgate Holder Station, Station Road, London, Greater London, N11 1qf Authority: London Borough of Enfield, Planning Department Application Ref: HAZ/92/004/2 Hazardous: Liquefied extremely flammable gas (including LPG) and natural gas (whether Substance: liquefied or not) Maximum Quantity: 63 Application date: 16th November 1992 Decision: New application granted conditionallyGranted Positional Accuracy: Manually positioned to the address or location	A13NW (N)	204	11	529095 191906

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thames Group	A13NE (NE)	0	1	529163 191691
	BGS Estimated Soil Chemistry No data available				
104	BGS Recorded Mineral Sites Site Name: Bounds Green Pottery Location: Wood Green, Greater London Source: British Geological Survey, National Geoscience Information Service Reference: 182060 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: London Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	514	1	529655 191447
105	BGS Recorded Mineral Sites Site Name: Bounds Green Clay Pits Location: Wood Green, Greater London Source: British Geological Survey, National Geoscience Information Service Reference: 182059 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: London Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8NE (S)	682	1	529408 191023
106	BGS Recorded Mineral Sites Site Name: Bounds Green Clay Pits Location: Wood Green, Greater London Source: British Geological Survey, National Geoscience Information Service Reference: 182058 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: London Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8SE (S)	713	1	529294 190955
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529230, 191875 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 79.40 mg/kg Concentration: Cadmium Measured 1.60 mg/kg Concentration: Chromium Measured 106.40 mg/kg Concentration: Lead Measured 1431.30 mg/kg Concentration: Nickel Measured 40.30 mg/kg Concentration:	A13NE (N)	151	1	529230 191875
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529209, 191330 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 23.40 mg/kg Concentration: Cadmium Measured 0.60 mg/kg Concentration: Chromium Measured 88.60 mg/kg Concentration: Lead Measured 227.60 mg/kg Concentration: Nickel Measured 23.30 mg/kg Concentration:	A8NE (S)	329	1	529209 191330

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: 528720, 191788 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 12.10 mg/kg Concentration: Cadmium Measured 0.60 mg/kg Concentration: Chromium Measured 65.60 mg/kg Concentration: Lead Measured 85.60 mg/kg Concentration: Nickel Measured 20.60 mg/kg Concentration:	A12NE (W)	412	1	528720 191788
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529274, 192263 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 24.30 mg/kg Concentration: Cadmium Measured 0.80 mg/kg Concentration: Chromium Measured 72.90 mg/kg Concentration: Lead Measured 564.20 mg/kg Concentration: Nickel Measured 32.10 mg/kg Concentration:	A18SE (N)	541	1	529274 192263
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529764, 191703 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 19.40 mg/kg Concentration: Cadmium Measured 0.50 mg/kg Concentration: Chromium Measured 103.50 mg/kg Concentration: Lead Measured 623.10 mg/kg Concentration: Nickel Measured 39.10 mg/kg Concentration:	A14NW (E)	559	1	529764 191703
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528720, 191250 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 58.80 mg/kg Concentration: Cadmium Measured 0.80 mg/kg Concentration: Chromium Measured 105.80 mg/kg Concentration: Lead Measured 704.20 mg/kg Concentration: Nickel Measured 40.90 mg/kg Concentration:	A7NE (SW)	580	1	528720 191250
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529738, 191404 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 56.00 mg/kg Concentration: Cadmium Measured 0.80 mg/kg Concentration: Chromium Measured 83.60 mg/kg Concentration: Lead Measured 1504.10 mg/kg Concentration: Nickel Measured 45.20 mg/kg Concentration:	A14SW (SE)	607	1	529738 191404

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: 528734, 192205 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 14.70 mg/kg Concentration: Cadmium Measured 2.30 mg/kg Concentration: Chromium Measured 99.30 mg/kg Concentration: Lead Measured 174.80 mg/kg Concentration: Nickel Measured 26.40 mg/kg Concentration:	A17SE (NW)	641	1	528734 192205
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529725, 192330 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 17.30 mg/kg Concentration: Cadmium Measured 0.90 mg/kg Concentration: Chromium Measured 71.70 mg/kg Concentration: Lead Measured 307.60 mg/kg Concentration: Nickel Measured 32.90 mg/kg Concentration:	A19SW (NE)	800	1	529725 192330
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528263, 191717 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 17.10 mg/kg Concentration: Cadmium Measured 0.80 mg/kg Concentration: Chromium Measured 76.40 mg/kg Concentration: Lead Measured 418.30 mg/kg Concentration: Nickel Measured 32.50 mg/kg Concentration:	A12NW (W)	854	1	528263 191717
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528320, 191342 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 17.80 mg/kg Concentration: Cadmium Measured 0.60 mg/kg Concentration: Chromium Measured 86.10 mg/kg Concentration: Lead Measured 159.80 mg/kg Concentration: Nickel Measured 27.60 mg/kg Concentration:	A7NW (SW)	862	1	528320 191342
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529278, 190736 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured 22.80 mg/kg Concentration: Cadmium Measured 0.60 mg/kg Concentration: Chromium Measured 98.60 mg/kg Concentration: Lead Measured 257.20 mg/kg Concentration: Nickel Measured 44.30 mg/kg Concentration:	A8SE (S)	926	1	529278 190736

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	A13NE (NE)	0	1	529163 191691
	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: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	529163 191691
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	529163 191691
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	37	1	529102 191634
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	529163 191691
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	529163 191691
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	71	1	529163 191790
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	529163 191691
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	529163 191691
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	529163 191691
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	529163 191691

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	Contemporary Trade Directory Entries Name: Lenack Engineering Co Ltd Location: Unit C5, Down, North Way, Bounds Green Industrial Estate, London, N11 2UN Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NE (N)	0	-	529171 191712
107	Contemporary Trade Directory Entries Name: Ringway Motor Services Location: Unit F3, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	0	-	529176 191682
107	Contemporary Trade Directory Entries Name: 4 Back 4 Location: UNIT F2, BOUNDS GREEN INDUSTRIAL ESTATE, BOUNDS GREEN ROAD, WOOD GREEN, LONDON, N11 2UL Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (E)	0	-	529180 191697
107	Contemporary Trade Directory Entries Name: Abbotts Location: Unit 1, South Way, Bounds Green Ind Est, London, N11 2UL Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	0	-	529190 191678
107	Contemporary Trade Directory Entries Name: Casada Cushions Location: Unit D1B, South Way, Bounds Green Ind Est, London, N11 2UL Classification: Upholstery Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NE (N)	0	-	529169 191707
107	Contemporary Trade Directory Entries Name: Mousemesh Location: Unit F3, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	0	-	529176 191682
107	Contemporary Trade Directory Entries Name: Mousemesh Location: Unit F3, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	0	-	529176 191682
107	Contemporary Trade Directory Entries Name: Handy Catering Equipment Location: Unit F1, South Way, Bounds Green Industrial Estate, London, N11 2UL Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	529164 191692
107	Contemporary Trade Directory Entries Name: B & H Surgical Instrument Makers Location: Unit C2 Up, South Way, Bounds Green Industrial Estate, London, N11 2UL Classification: Medical Instruments - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	4	-	529184 191726
107	Contemporary Trade Directory Entries Name: J O'Connor Ltd Location: 2, HORIZON TRADE PARK, RING WAY, WOOD GREEN, LONDON, N11 2NW Classification: Mechanical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (E)	8	-	529208 191687
107	Contemporary Trade Directory Entries Name: Seltex Location: UNIT 1, HORIZON TRADE PARK, RING WAY, WOOD GREEN, LONDON, N11 2NW Classification: Wallpapers & Wall Coverings Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	8	-	529213 191702

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	Contemporary Trade Directory Entries Name: M C S Location: 15, Gateway Mews, Bounds Green, London, N11 2UT Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	30	-	529222 191746
107	Contemporary Trade Directory Entries Name: Mcs Cleaning Services Ltd Location: Unit 15, Gateway Mews, Bounds Green, London, N11 2UT Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	33	-	529222 191750
107	Contemporary Trade Directory Entries Name: Fowler & Polglaze Ltd Location: North Way, Bounds Green Ind Est, London, N11 2UN Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	34	-	529153 191746
107	Contemporary Trade Directory Entries Name: M C S Cleaning Services Location: Unit 15, Gateway Mews, Bounds Green, London, N11 2UT Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	35	-	529225 191750
108	Contemporary Trade Directory Entries Name: Carlton Laundry Services Location: Unit C7, North Way, Bounds Green Industrial Estate, London, N11 2UN Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	5	-	529141 191710
108	Contemporary Trade Directory Entries Name: Chrisele Uk Location: Unit E1, Down, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	6	-	529125 191688
108	Contemporary Trade Directory Entries Name: John Bear Ltd Location: Unit E2, Ringway, Bounds Green Ind Est, London, N11 2UD Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (W)	8	-	529120 191700
108	Contemporary Trade Directory Entries Name: Finegold & Cane Location: Unit E2, Ringway, Bounds Green Ind Est, London, N11 2UD Classification: Picture & Picture Frame Renovating & Restoring Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (W)	12	-	529116 191700
108	Contemporary Trade Directory Entries Name: Surallie Dental Laboratories Ltd Location: Unit E2, Up B, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Medical & Dental Laboratories Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	12	-	529116 191700
108	Contemporary Trade Directory Entries Name: Park Motors Car Breakers Location: Unit E3, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (W)	17	-	529113 191706
108	Contemporary Trade Directory Entries Name: Kathrina Fashion (Marketing) Ltd Location: Unit E4, Down, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (W)	26	-	529106 191713
108	Contemporary Trade Directory Entries Name: Ilesi Location: Unit 4, Ringway, Bounds Green Ind Est, London, N11 2UD Classification: Pattern Makers - Paper Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	39	-	529108 191734

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	Contemporary Trade Directory Entries Name: Studio Design & Print Location: Unit D1 Down, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	53	-	529088 191735
108	Contemporary Trade Directory Entries Name: Abbotts Print & Design Location: Unit D1 Lower, Ringway, Bounds Green Ind Est, London, N11 2UD Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	55	-	529091 191740
108	Contemporary Trade Directory Entries Name: L & J Carnell Location: Unit B2, Down, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Screen Process Printers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (NW)	61	-	529094 191751
108	Contemporary Trade Directory Entries Name: Midas Fashions London Ltd Location: Block D1 The Ringway, Bounds Green Indust Est, London, N11 2UD Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	67	-	529092 191756
109	Contemporary Trade Directory Entries Name: Lord Clothing Location: Unit 6, Sussex Works, Cline Road, London, N11 2LX Classification: Clothing & Fabrics - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (E)	41	-	529244 191691
109	Contemporary Trade Directory Entries Name: Roma Marble Location: 3, MUNRO DRIVE, CLINE ROAD, WOOD GREEN, LONDON, N11 2LZ Classification: Machine Shops Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	47	-	529227 191644
110	Contemporary Trade Directory Entries Name: Bounds Green M O T Centre Location: Unit F3 Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	55	-	529125 191760
110	Contemporary Trade Directory Entries Name: Odlar Ltd Location: Unit A2, London, N11 2UD Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	55	-	529125 191760
110	Contemporary Trade Directory Entries Name: Stitchland Location: Unit B8 Upper North Way, Bounds Green Industrial Estate, London, N11 2UN Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	55	-	529125 191760
110	Contemporary Trade Directory Entries Name: Initiate Clothing Ltd Location: Bounds Green Ind Est, Ring Way, London, N11 2UD Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	94	-	529084 191784
111	Contemporary Trade Directory Entries Name: Upstage Theatrical Dry Cleaners Location: UNIT D3, BOUNDS GREEN INDUSTRIAL ESTATE, BOUNDS GREEN ROAD, WOOD GREEN, LONDON, N11 2UL Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (N)	57	-	529158 191773

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	Contemporary Trade Directory Entries Name: Carlton Laundry Services Location: Unit B/3, Down, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	57	-	529157 191773
111	Contemporary Trade Directory Entries Name: Zetem Location: Unit B9, Down, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A13NW (NW)	68	-	529118 191772
111	Contemporary Trade Directory Entries Name: Lamb John Crash Repairs Ltd Location: Unit B5-7, Lower Ringway Bounds Green Ind Est, London, N11 2UD Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	74	-	529136 191782
111	Contemporary Trade Directory Entries Name: Print Link Bureau Location: Unit D1, Ringway, Bounds Green Ind Est, London, N11 2UL Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	74	-	529140 191784
111	Contemporary Trade Directory Entries Name: R K'S Accident Repair Centre Location: Ringway, Bounds Green Ind Est, London, N11 2UD Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	74	-	529140 191784
111	Contemporary Trade Directory Entries Name: I B Autos Ltd Location: Unit 3F Ringway Bounds Green Ind Est, London, N11 2UD Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	76	-	529154 191792
111	Contemporary Trade Directory Entries Name: Praxis Location: Horizon Trade Park, 3 Ringway Road, London, N11 2Nw Classification: Digital Printing Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (N)	85	-	529142 191796
111	Contemporary Trade Directory Entries Name: Odlar Joinery Location: Unit A2 Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (N)	87	-	529157 191805
111	Contemporary Trade Directory Entries Name: Henlys Of New Southgate Location: Pinkham Way, London, N11 2UU Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	107	-	529136 191818
111	Contemporary Trade Directory Entries Name: B P Service Station Location: North Circular Rd, London, N11 2UU Classification: Petrol Filling Stations Status: Active Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	125	-	529097 191825
111	Contemporary Trade Directory Entries Name: New Southgate Seat Location: Pinkham Way, London, N11 3UT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	125	-	529097 191825
112	Contemporary Trade Directory Entries Name: K E G Enterprises Ltd Location: 12 Gateway Mews, Bounds Green, London, N11 2UT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	59	-	529256 191736

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	Contemporary Trade Directory Entries Name: M C S Cleaning Services Location: 15 Gateway Mews, Bounds Green, London, N11 2UT Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NE (NE)	59	-	529256 191736
112	Contemporary Trade Directory Entries Name: Chelsea Air Conditioning Ltd Location: 12 Gateway Mews, Bounds Green, London, N11 2UT Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	59	-	529256 191736
112	Contemporary Trade Directory Entries Name: Xstatic Services Ltd Location: 10, Gateway Mews, Bounds Green, London, N11 2UT Classification: Tungsten Tool Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	89	-	529288 191738
112	Contemporary Trade Directory Entries Name: A K A Klothes Location: 10, Gateway Mews, Bounds Green, London, N11 2UT Classification: Clothing Accessory Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	89	-	529288 191738
112	Contemporary Trade Directory Entries Name: Ottorose Clothing Ltd Location: 8, Gateway Mews, Bounds Green, LONDON, N11 2UT Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	112	-	529312 191739
112	Contemporary Trade Directory Entries Name: Soundtech Europe Ltd Location: 8, GATEWAY MEWS, BOUNDS GREEN, WOOD GREEN, LONDON, N11 2UT Classification: Electronic Component Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (E)	112	-	529312 191739
113	Contemporary Trade Directory Entries Name: Clockstyle Clothing Ltd Location: Unit B1, Down, Ringway, Bounds Green Industrial Estate, London, N11 2UD Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	64	-	529191 191791
114	Contemporary Trade Directory Entries Name: The Grading Bureau Location: Unit 4, Tealedown Works, Cline Road, London, N11 2LX Classification: Pattern Makers - Paper Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (E)	66	-	529265 191674
114	Contemporary Trade Directory Entries Name: Gradeline Location: UNIT 5B, SUSSEX WORKS, CLINE ROAD, WOOD GREEN, LONDON, N11 2LX Classification: Pattern Makers - Industrial Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	87	-	529261 191622
114	Contemporary Trade Directory Entries Name: Bette Davis Ltd Location: Textile House, Cline Road, London, N11 2LX Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	104	-	529299 191654
114	Contemporary Trade Directory Entries Name: Textile Team Ltd Location: Textile House, Cline Road, London, N11 2LX Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	104	-	529299 191654

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	Contemporary Trade Directory Entries Name: Tower London Location: UNIT 2, GATEWAY MEWS, WOOD GREEN, LONDON, N11 2UT Classification: Footwear Manufacturers & Wholesale Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	79	-	529257 191780
116	Contemporary Trade Directory Entries Name: Ryton Crest Ltd Location: Unit 5, Sussex Works, Cline Road, London, N11 2LX Classification: Printers Textile Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	131	-	529300 191600
117	Contemporary Trade Directory Entries Name: Panama Fashions Location: Cline Rd, London, N11 2LX Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (E)	142	-	529346 191686
117	Contemporary Trade Directory Entries Name: Tiano Location: Cline Rd, London, N11 2LX Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NE (E)	148	-	529353 191697
118	Contemporary Trade Directory Entries Name: Cartech Location: Cline Road, London, N11 2LX Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	189	-	529393 191728
119	Contemporary Trade Directory Entries Name: Revolution Oil Location: 2-4 New Southgate Ind Est, Lower Pk Rd, London, N11 1QD Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (N)	296	-	529172 192022
119	Contemporary Trade Directory Entries Name: Lords Breakdown Recovery Ltd Location: 5, New Southgate Industrial Estate, Lower Park Road, London, N11 1QD Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	299	-	529180 192026
119	Contemporary Trade Directory Entries Name: Contractors Tools & Equipment Ltd Location: Unit D1, New Southgate Industrial Estate, Lower Park Road, London, N11 1QD Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	308	-	529158 192033
119	Contemporary Trade Directory Entries Name: Jones & Jennings Ltd Location: 1, New Southgate Industrial Estate, Lower Park Road, London, N11 1QD Classification: Control Panel Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	308	-	529158 192033
119	Contemporary Trade Directory Entries Name: Bluett & Co Ltd Location: 16, New Southgate Industrial Estate, Lower Park Road, London, N11 1QD Classification: Print Finishers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	314	-	529109 192028
120	Contemporary Trade Directory Entries Name: Tanner Automotive Location: Pinkham Way, London, N11 3UT Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	300	-	528854 191822

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
175	Contemporary Trade Directory Entries Name: Leighton Denny Expert Nails Location: Unit 1, Pembroke Studios, 139-141, Pembroke Road, London, N10 2JE Classification: Cosmetic Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (SW)	985	-	528406 190991
176	Contemporary Trade Directory Entries Name: Elegance Furniture Location: 180, Bowes Road, London, N11 2JG Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	969	-	530042 192204
177	Contemporary Trade Directory Entries Name: Terraproducts Ltd Location: 21, CLIFTON ROAD, WOOD GREEN, LONDON, N22 7XN Classification: Engineering Materials Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	970	-	529467 190737
178	Contemporary Trade Directory Entries Name: Odhave Group Location: 43, Poplar Grove, London, N11 3NH Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	971	-	528155 191538
179	Contemporary Trade Directory Entries Name: S B R Corporation Location: 22, Oakleigh Road South, London, N11 1NH Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	987	-	528700 192591
180	Contemporary Trade Directory Entries Name: 1402 Candles Location: Newton Av, London, N10 2NB Classification: Candle Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	993	-	528511 190886
181	Contemporary Trade Directory Entries Name: Domestic Hands Cleaning Solutions Location: 35, Firs Avenue, London, N11 3NE Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A11SE (W)	997	-	528119 191687
182	Fuel Station Entries Name: Pinkham Way Sf Connect Location: Pinkham Way , New Southgate , London, Inner London, N11 2UU Brand: Bp Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	125	-	529097 191825
183	Fuel Station Entries Name: Waterfall Sf Connect Location: Waterfall Road South Oakleigh Road South, Friern Barnet , London, Outer London, N11 1NH Brand: BP Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	959	-	528753 192585
184	Fuel Station Entries Name: Bounds Green Service Station Location: 2, Bounds Green Road , Wood Green , London, Inner London, N11 2QH Brand: Low Prices Always Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A9NE (E)	994	-	530131 191338
185	Points of Interest - Commercial Services Name: Mousemesh Location: Unit F3 Ringway, Bounds Green Industrial Estate, London, N11 2UD Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13SE (SE)	0	12	529176 191682

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
185	Points of Interest - Commercial Services Name: Ringway Motor Services Location: Unit F3 Ringway, Bounds Green Industrial Estate, London, N11 2UD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	0	12	529176 191682
185	Points of Interest - Commercial Services Name: Ringway Motor Services Location: Unit E3 Ringway, Bounds Green Industrial Estate, London, N11 2UD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (W)	17	12	529113 191706
185	Points of Interest - Commercial Services Name: Bounds Green M O T Centre Location: Unit E3 Ringway, Bounds Green Industrial Estate, London, N11 2UD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (W)	17	12	529112 191706
185	Points of Interest - Commercial Services Name: A F Hussey (London) Ltd Location: Unit B10 Down Ringway, Bounds Green Industrial Estate, London, N11 2UD Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13NW (NW)	56	12	529112 191757
186	Points of Interest - Commercial Services Name: Cartech Location: Cline Road, London, N11 2NE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (E)	202	12	529404 191741
187	Points of Interest - Commercial Services Name: Highview Garage Location: 28-30 New Southgate Ind Est, Lower Pk Rd, London, N11 1QD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18SW (N)	341	12	529062 192040
188	Points of Interest - Commercial Services Name: Window Tinting & Windscreens Location: 133 Shrewsbury Road, London, N11 2LN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	351	12	529446 191977
188	Points of Interest - Commercial Services Name: Window Tinting & Windscreens Location: 133 Shrewsbury Road, London, N11 2LN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	351	12	529446 191977
189	Points of Interest - Commercial Services Name: All Hours Pest Control Location: 50 Alexandra Road, London, N10 2RT Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A12SE (SW)	529	12	528661 191403
189	Points of Interest - Commercial Services Name: All Hours Pest Control Location: 50 Alexandra Road, London, N10 2RT Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A12SE (SW)	529	12	528661 191403
190	Points of Interest - Commercial Services Name: I G A Courier Ltd Location: 46 Greenway Close, London, N11 3NS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (W)	619	12	528497 191662
191	Points of Interest - Commercial Services Name: Shrewsbury Motors Location: 105 Highworth Road, London, N11 2SG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (E)	625	12	529791 191924

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	Points of Interest - Commercial Services Name: Warwick Car Care Centre Ltd Location: 129-131 Warwick Road, London, N11 2SR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	857	12	529926 192181
194	Points of Interest - Commercial Services Name: Warwick Car Care Centre Ltd Location: 129 Warwick Road, Southgate, N11 2SR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	863	12	529929 192186
194	Points of Interest - Commercial Services Name: Protex Pest Control Ltd Location: 191 Bowes Road, London, N11 2HN Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A19SE (NE)	871	12	529931 192197
194	Points of Interest - Commercial Services Name: Protex Pest Control Ltd Location: 191 Bowes Road, London, N11 2HN Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A19SE (NE)	871	12	529931 192197
195	Points of Interest - Commercial Services Name: Gibbs Nicolas Ltd Location: 260 Colney Hatch Lane, London, N10 1BD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (SW)	948	12	528307 191180
195	Points of Interest - Commercial Services Name: Milan Motors Location: 262 Colney Hatch Lane, London, N10 1BD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (SW)	948	12	528307 191180
195	Points of Interest - Commercial Services Name: Nicolas Gibbs Ltd Location: Rear of 260, Colney Hatch Lane, Colney Hatch, London, N10 1BD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (SW)	949	12	528304 191183
196	Points of Interest - Commercial Services Name: Odhave Group Location: 43 Poplar Grove, London, N11 3NH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	971	12	528155 191538
196	Points of Interest - Commercial Services Name: Odhave Group Location: 43 Poplar Grove, London, N11 3NH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	971	12	528155 191538
197	Points of Interest - Commercial Services Name: Bounds Green Service Station Location: 2, Bounds Green Road, Wood Green, London, N11 2QH Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A9NE (E)	994	12	530131 191338
198	Points of Interest - Commercial Services Name: Project Cargo Shipping Ltd Location: 35 Firs Avenue, New Southgate, London, N11 3NE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A11SE (W)	999	12	528117 191685
199	Points of Interest - Manufacturing and Production Name: Works Location: N11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	20	12	529218 191727

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
199	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	A13NE (NE)	27	12	529225 191729
199	Points of Interest - Manufacturing and Production Name: Alpha M & T Ltd Location: 3 Munro Drive, Cline Road, London, N11 2LZ Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13SE (SE)	47	12	529227 191644
199	Points of Interest - Manufacturing and Production Name: Tealedown Works Location: N11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	82	12	529286 191689
199	Points of Interest - Manufacturing and Production Name: Works Location: N11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13NE (E)	82	12	529287 191712
199	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	A13NE (E)	83	12	529288 191709
200	Points of Interest - Manufacturing and Production Name: Industrial Estate Location: N11 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	47	12	529082 191709
201	Points of Interest - Manufacturing and Production Name: Roma Tiles Location: Unit A1 Down Ringway, Bounds Green Industrial Estate, London, N11 2UD Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13NW (N)	85	12	529143 191797
201	Points of Interest - Manufacturing and Production Name: Roma Marble Tiles Ltd Location: Unit A1 Down Ringway, Bounds Green Industrial Estate, London, N11 2UD Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13NW (N)	85	12	529143 191797
201	Points of Interest - Manufacturing and Production Name: Bounds Green Industrial Estate Location: N11 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	93	12	529083 191783
202	Points of Interest - Manufacturing and Production Name: Alpha Mosaic & Terrazzo Ltd Location: 2 Munro Drive, Cline Road, London, N11 2LZ Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13SE (SE)	144	12	529309 191590
202	Points of Interest - Manufacturing and Production Name: Roma Marble Ltd Location: 3 Munro Drive, Cline Road, London, N11 2LZ Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13SE (SE)	145	12	529306 191585
203	Points of Interest - Manufacturing and Production Name: New Southgate Industrial Estate Location: N11 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	286	12	529092 191993

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	Points of Interest - Manufacturing and Production Name: Tanks Location: N11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	346	12	528888 191948
205	Points of Interest - Manufacturing and Production Name: Works Location: N10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A7NE (SW)	634	12	528569 191352
205	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	A7NE (SW)	636	12	528567 191352
206	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)	737	12	528435 191392
206	Points of Interest - Manufacturing and Production Name: Works Location: N10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	737	12	528435 191392
207	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	A7NE (SW)	750	12	528630 191102
208	Points of Interest - Manufacturing and Production Name: Directrium Ltd Location: 403 Bowes Road, London, N11 1AB Category: Extractive Industries Class Code: Oil and Gas Extraction, Refinery and Product Manufacture Positional Accuracy: Positioned to address or location	A18NW (N)	755	12	528991 192453
209	Points of Interest - Manufacturing and Production Name: Clearview Location: 470 Bowes Road, London, N11 1NL Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A18NW (N)	890	12	528835 192544
210	Points of Interest - Manufacturing and Production Name: Works Location: N10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	966	12	528412 191012
210	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	A7SW (SW)	991	12	528398 190991
210	Points of Interest - Manufacturing and Production Name: Works Location: N10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	993	12	528395 190990
211	Points of Interest - Public Infrastructure Name: Pinkham Way Sf Connect Location: Pinkham Way, North Circular Road, London, N11 2UU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NW (N)	104	12	529140 191816

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
211	Points of Interest - Public Infrastructure Name: BP Services Pinkham Way Sf Connect Location: Pinkham Way, London, N11 2UU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NW (NW)	125	12	529097 191825
211	Points of Interest - Public Infrastructure Name: BP Service Station Location: Pinkham Way, London, N11 2UU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NW (NW)	125	12	529097 191825
211	Points of Interest - Public Infrastructure Name: BP Service Station Location: North Circular Road, Haringey, London, N11 2UU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NW (NW)	125	12	529097 191825
211	Points of Interest - Public Infrastructure Name: Pinkham Way Sf Connect Location: Pinkham Way, New Southgate, London, N11 2UU Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NW (NW)	125	12	529097 191825
212	Points of Interest - Public Infrastructure Name: New Southgate Rail Station Location: N11 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A17SE (NW)	706	12	528658 192226
212	Points of Interest - Public Infrastructure Name: New Southgate and Friern Barnet Station Location: Regal Drive, N11 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A17SE (NW)	706	12	528658 192226
213	Points of Interest - Public Infrastructure Name: BP Oil Waterfall Location: Oakleigh Rd South, London, N11 1NH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17NE (NW)	943	12	528752 192567
213	Points of Interest - Public Infrastructure Name: BP Service Station Location: Oakleigh Road South, London, N11 1NH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17NE (NW)	959	12	528753 192585
213	Points of Interest - Public Infrastructure Name: Waterfall Sf Connect Location: Waterfall Road South, Oakleigh Road South, Friern Barnet, London, N11 1NH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17NE (NW)	959	12	528753 192585
213	Points of Interest - Public Infrastructure Name: BP Service Station Location: BP Waterfall Connect Service Station, Oakleigh Road South, New Southgate, London, N11 1NH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17NE (NW)	962	12	528750 192587
213	Points of Interest - Public Infrastructure Name: Waterfall Connect Location: Filling Station, Oakleigh Road South, London, N11 1N Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17NE (NW)	963	12	528750 192588
214	Points of Interest - Public Infrastructure Name: Weir Location: N11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A19NW (N)	969	12	529533 192637

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	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 Haringey - Planning and Environmental Health 639 High Road, Tottenham, London, N17 8BD	Telephone: 0208 489 5183 Fax: 0208 489 5117 Website: www.haringey.gov.uk
4	London Borough of Barnet - Environmental Health Department Building 4, North London Business Park, Oakleigh Road South, London, N11 1NP	Telephone: 020 8359 2000 Fax: 020 8359 4999 Website: www.barnet.gov.uk
5	London Borough of Enfield - Environmental Health Department Civic Centre, Silver Street, Enfield, Middlesex, EN1 3XH	Telephone: 020 8366 6565 Fax: 020 8982 7088 Website: www.enfield.gov.uk
6	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
7	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
8	London Borough of Haringey - Planning Department Civic Centre, 639 High Road, Tottenham, London, N17 8BD	Website: www.haringey.gov.uk
9	London Borough of Barnet - Land Charges The Town Hall, The Burroughs, Hendon, LONDON, NW4 4BQ	Telephone: 0208 3592482 Fax: 0208 3592493 Website: www.barnet.gov.uk
10	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
11	London Borough of Enfield - Planning Department Civic Centre, Silver Street, Enfield, Middlesex, EN1 3XD	Telephone: 0208 366 6565 Fax: 0208 379 3475 Website: www.enfield.gov.uk
12	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
13	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

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

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	KPGR	KEMPTON PARK GRAVEL MEMBER	Sand and Gravel	Not Supplied - Devensian
	BHT	Boyn Hill Gravel Member	Sand and Gravel	Not Supplied - Hoxnian
	LOFT	Lowestoft Formation	Diamicton	Not Supplied - Anglian
	DHGR	Dollis Hill Gravel Member	Sand and Gravel	Not Supplied - Cromerian
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LC	London Clay Formation	Clay, Silt and Sand	Not Supplied - Ypresian



Geology 1:50,000 Maps

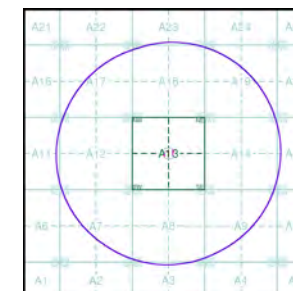
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	256
Map Name:	North London
Map Date:	2006
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

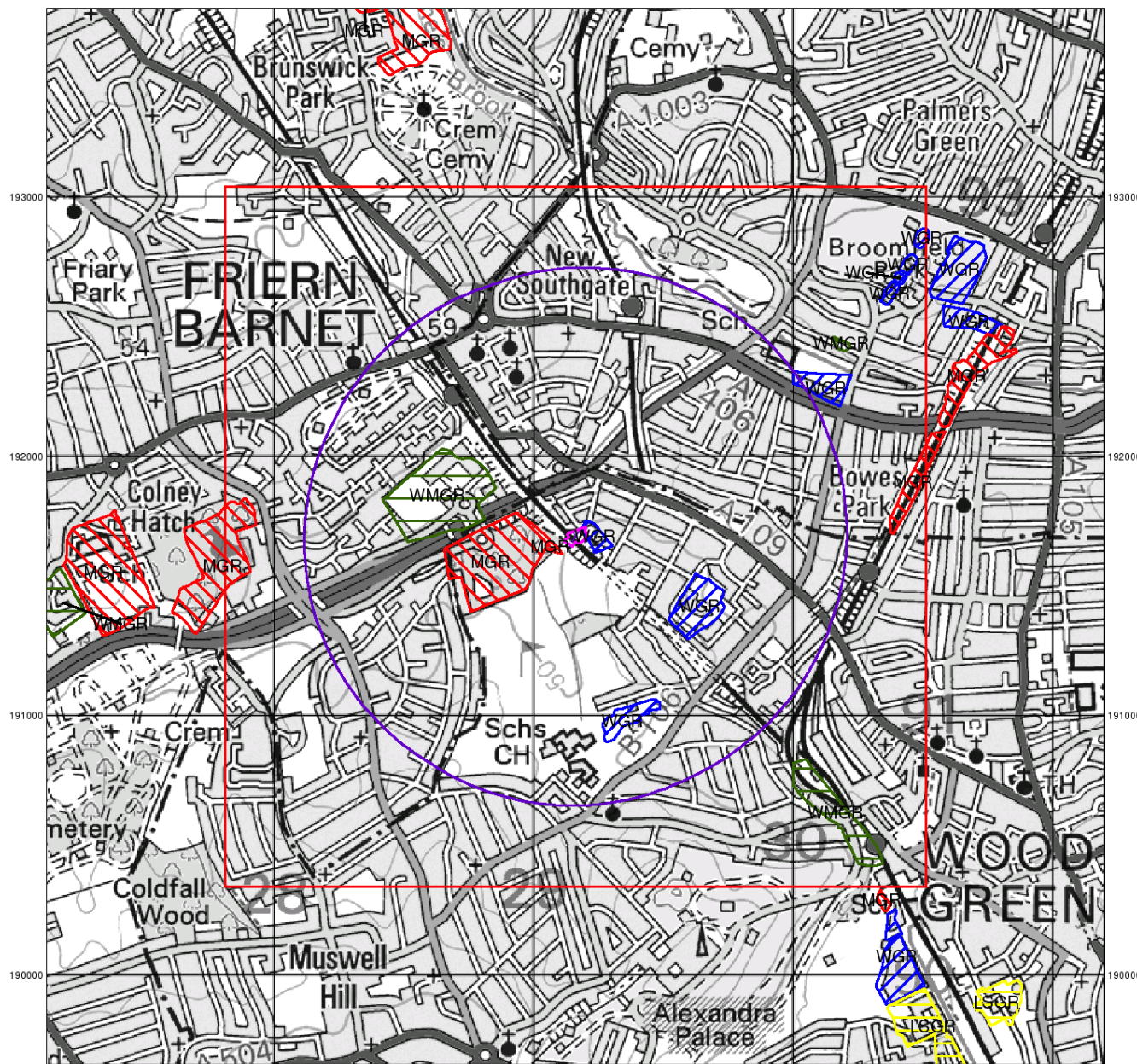


Order Details:

Order Number:	307360015_1_1
Customer Reference:	J23051
National Grid Reference:	529160, 191690
Slice:	A
Site Area (Ha):	0.36
Search Buffer (m):	1000

Site Details:

Block F Bound Green Industrial Estate, LONDON, N11 2UL



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Artificial Ground and Landslip

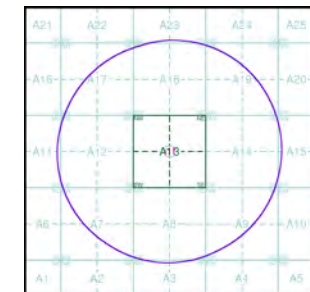
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

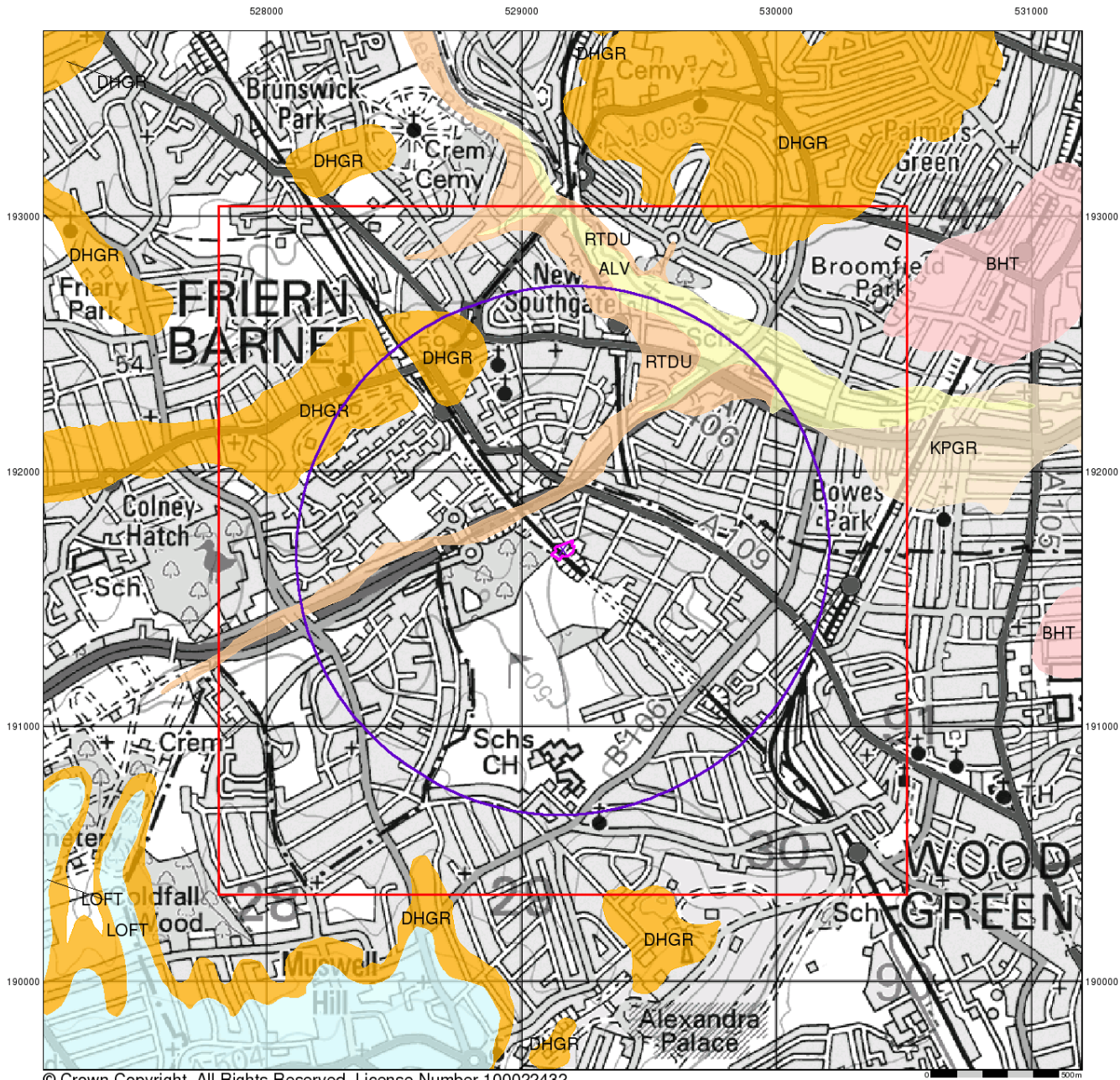
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 National Grid Reference: 529160, 191690
 Slice: A
 Site Area (Ha): 0.36
 Search Buffer (m): 1000

Site Details:

Block F Bound Green Industrial Estate, LONDON, N11 2UL

Landmark
 INFORMATION GROUP

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



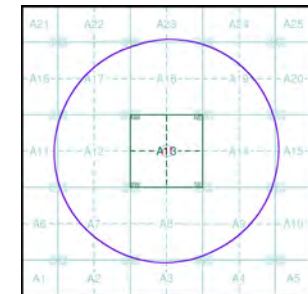
Superficial Geology

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

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

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

Superficial Geology Map - Slice A

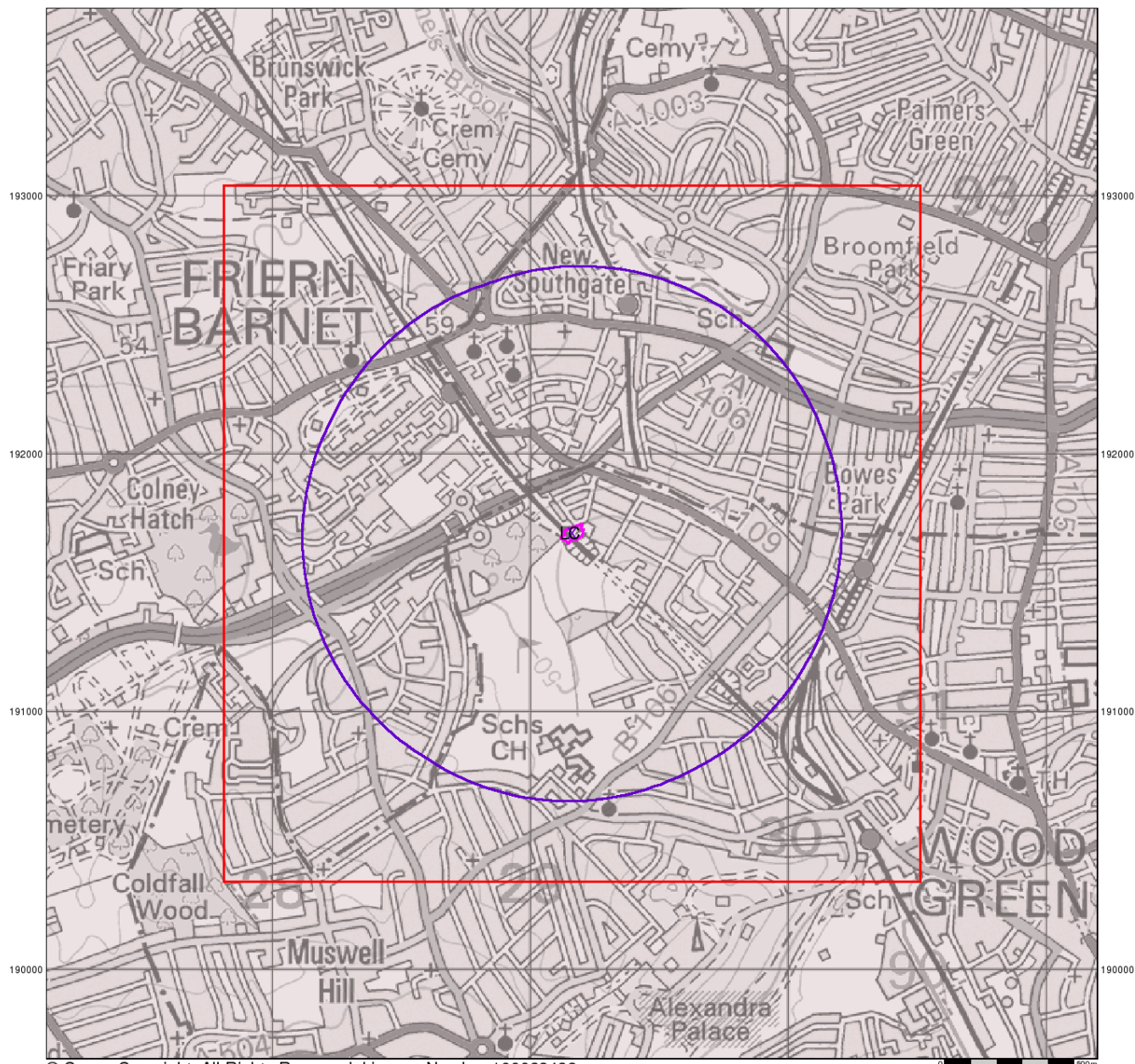


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Slice:	A
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Search Buffer (m):	1000

Site Details:

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Bedrock and Faults

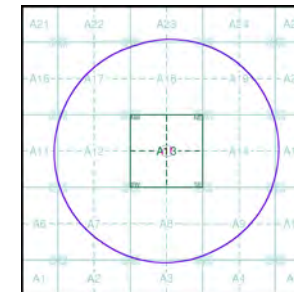
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A

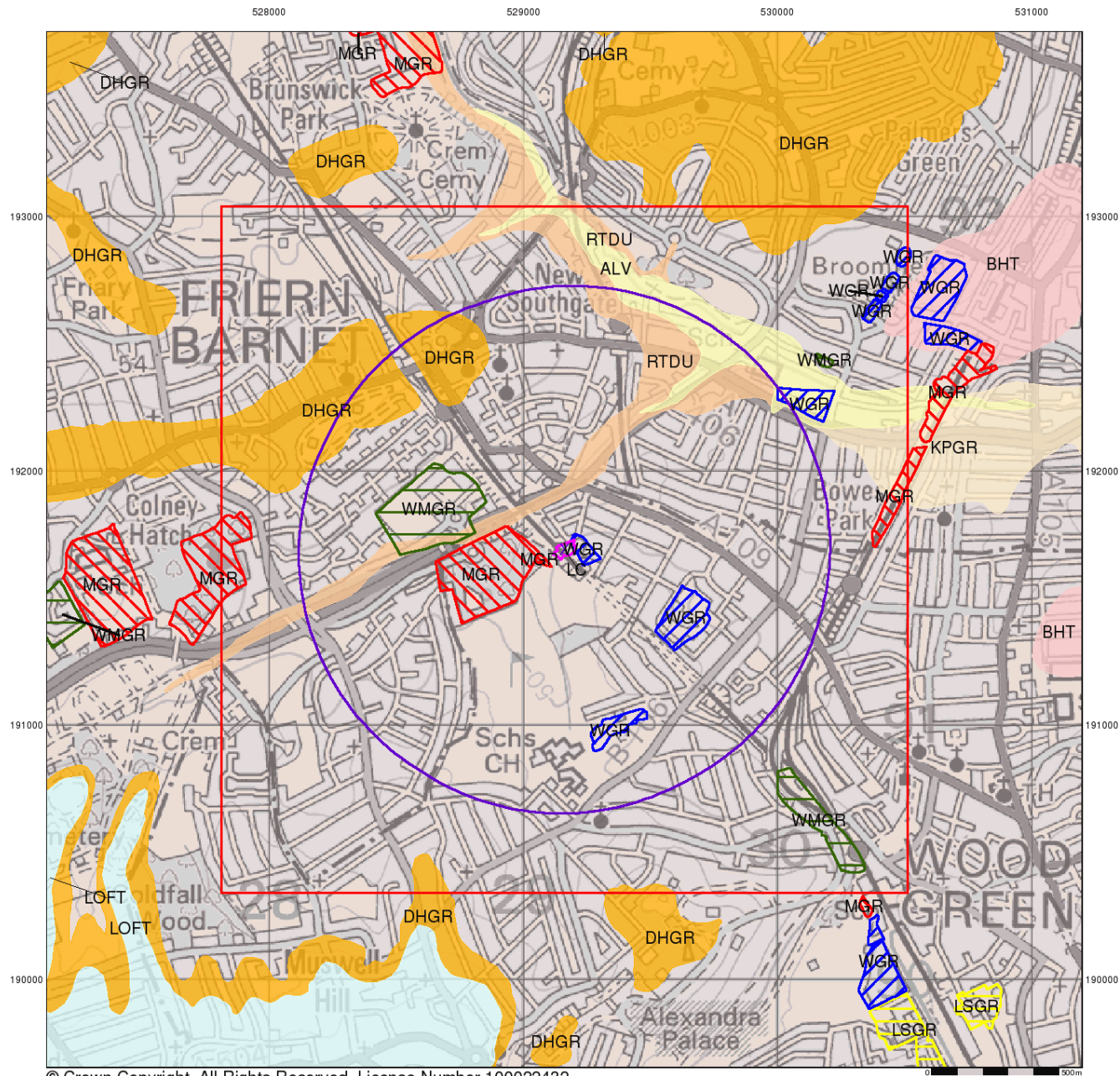


Order Details:

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 Customer Reference: J23051
 National Grid Reference: 529160, 191690
 Slice: A
 Site Area (Ha): 0.36
 Search Buffer (m): 1000

Site Details:

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Combined Surface Geology

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

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

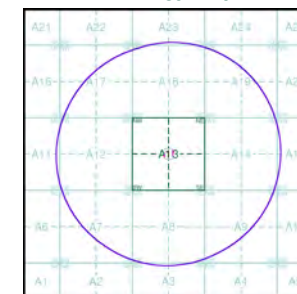
Additional Information

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

Contact

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

Combined Geology Map - Slice A

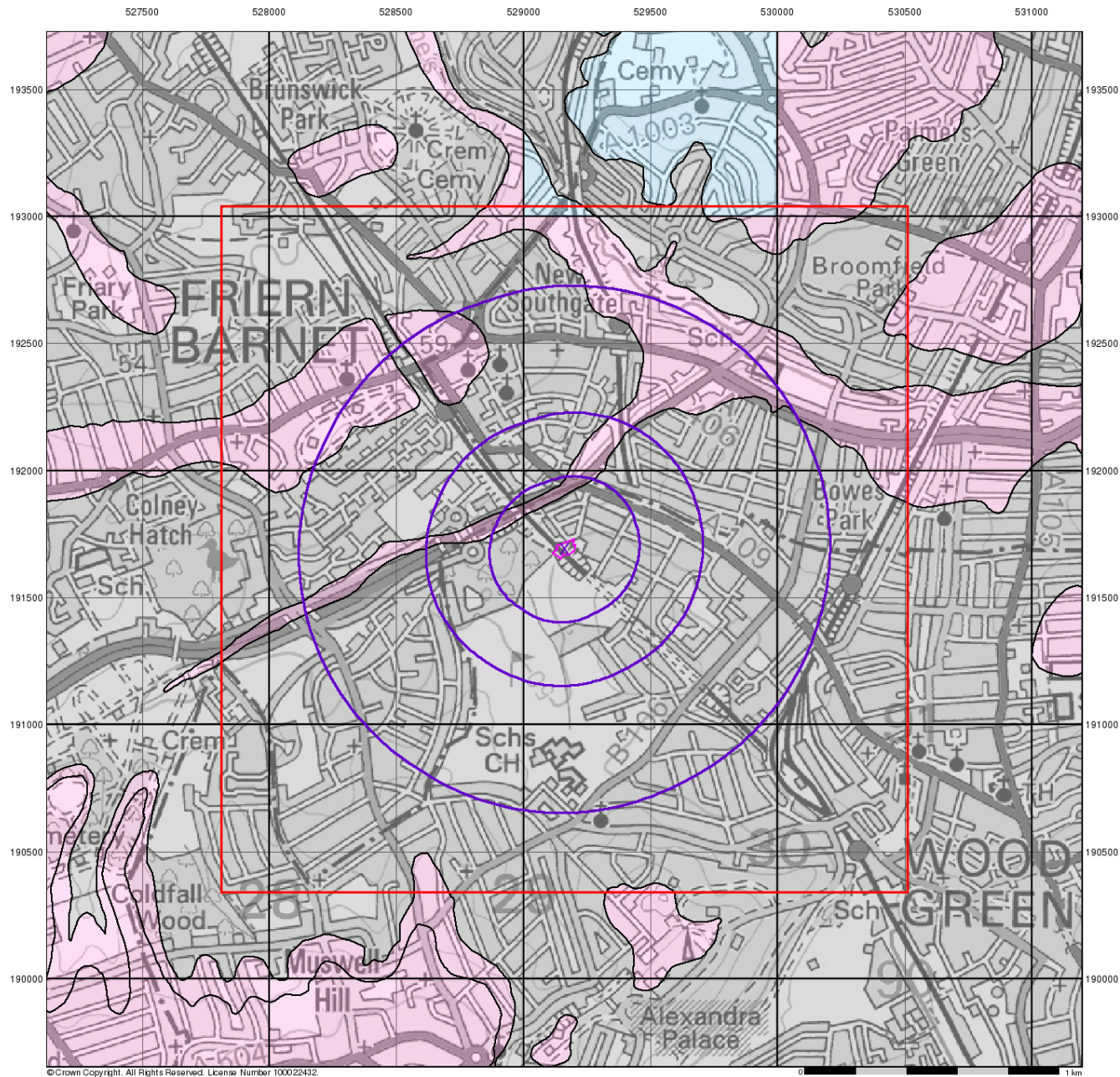


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Customer Reference:	J23051
National Grid Reference:	529160, 191690
Slice:	A
Site Area (Ha):	0.36
Search Buffer (m):	1000

Site Details:

Block F Bound Green Industrial Estate, LONDON, N11 2UL



Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

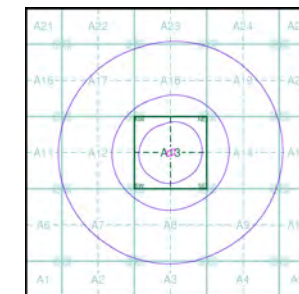
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

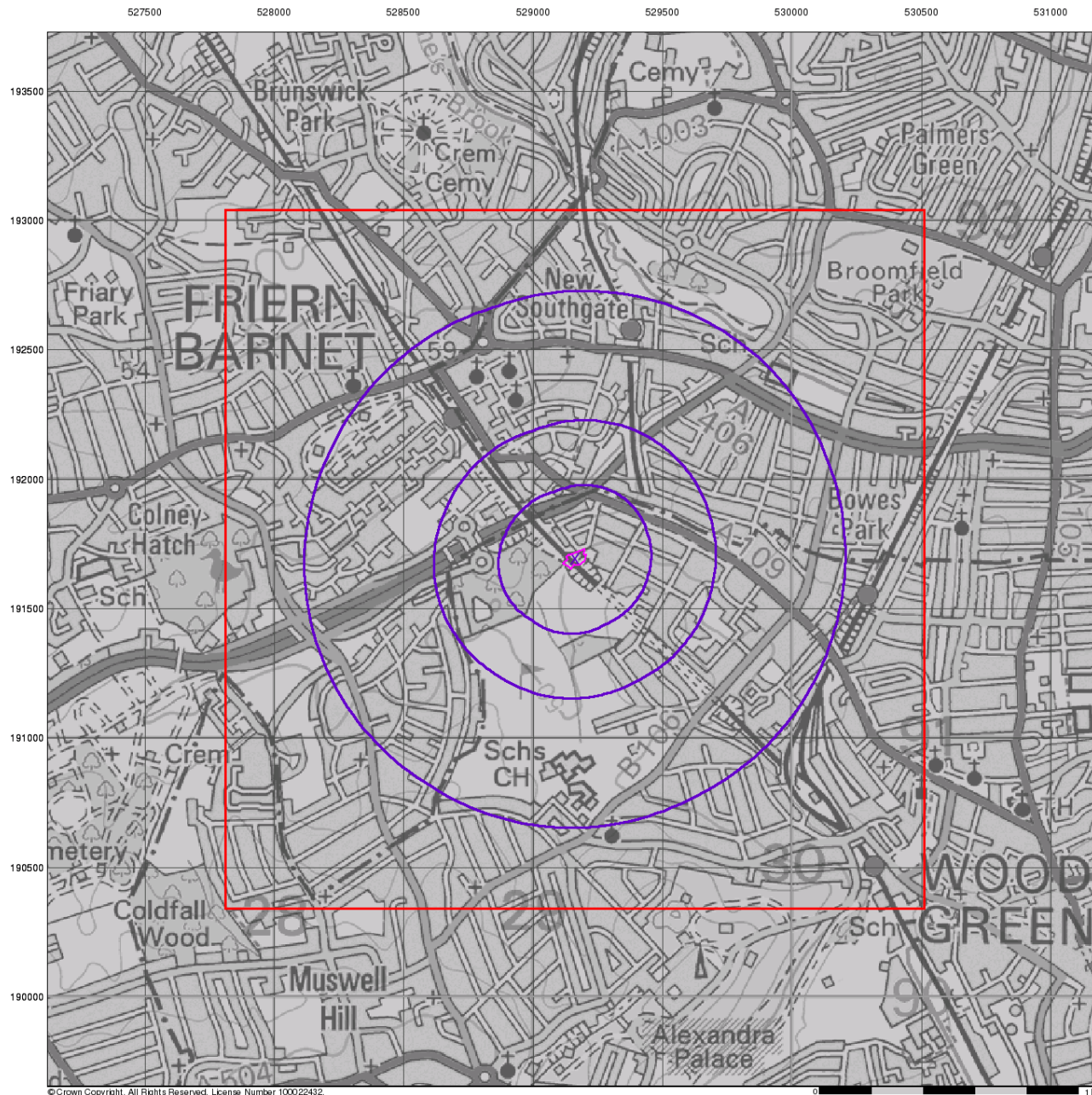
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 National Grid Reference: 529160, 191690
 Slice: A
 Site Area (Ha): 0.36
 Search Buffer (m): 1000

Site Details

Block F Bound Green Industrial Estate, LONDON, N11 2UL



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 Web: www.envirocheck.co.uk



Bedrock Aquifer Designation

General

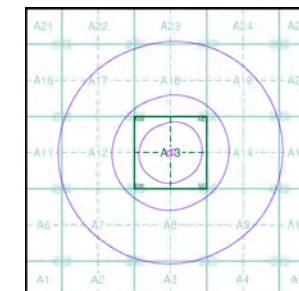
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

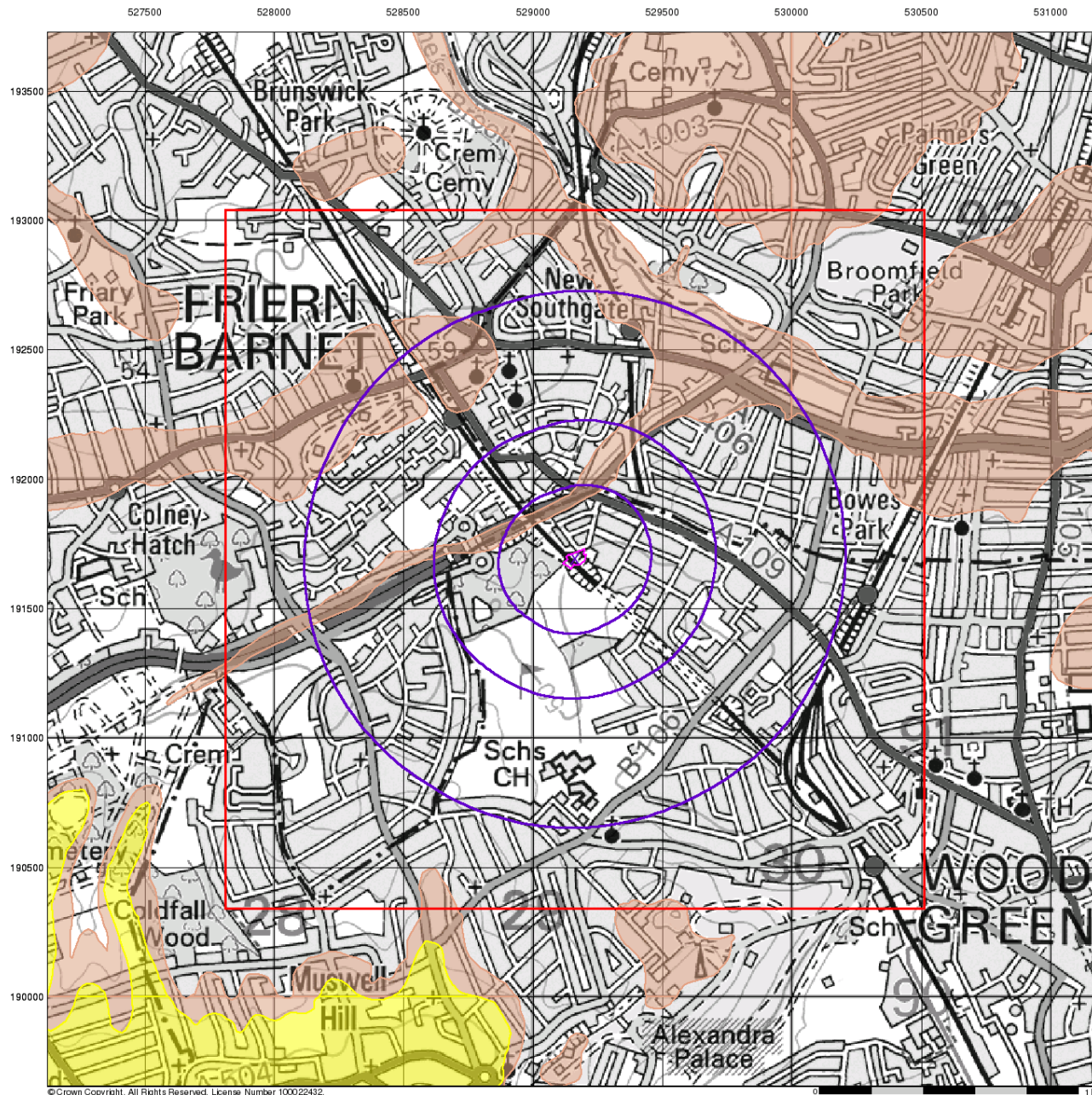
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Customer Ref: J23051
National Grid Reference: 529160, 191690
Slice: A
Site Area (Ha): 0.36
Search Buffer (m): 1000

Site Details

Block F Bound Green Industrial Estate, LONDON, N11 2UL



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Superficial Aquifer Designation

General

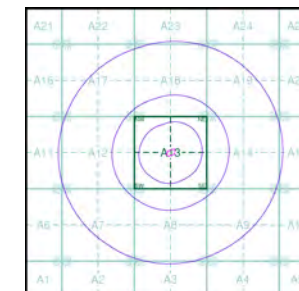
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

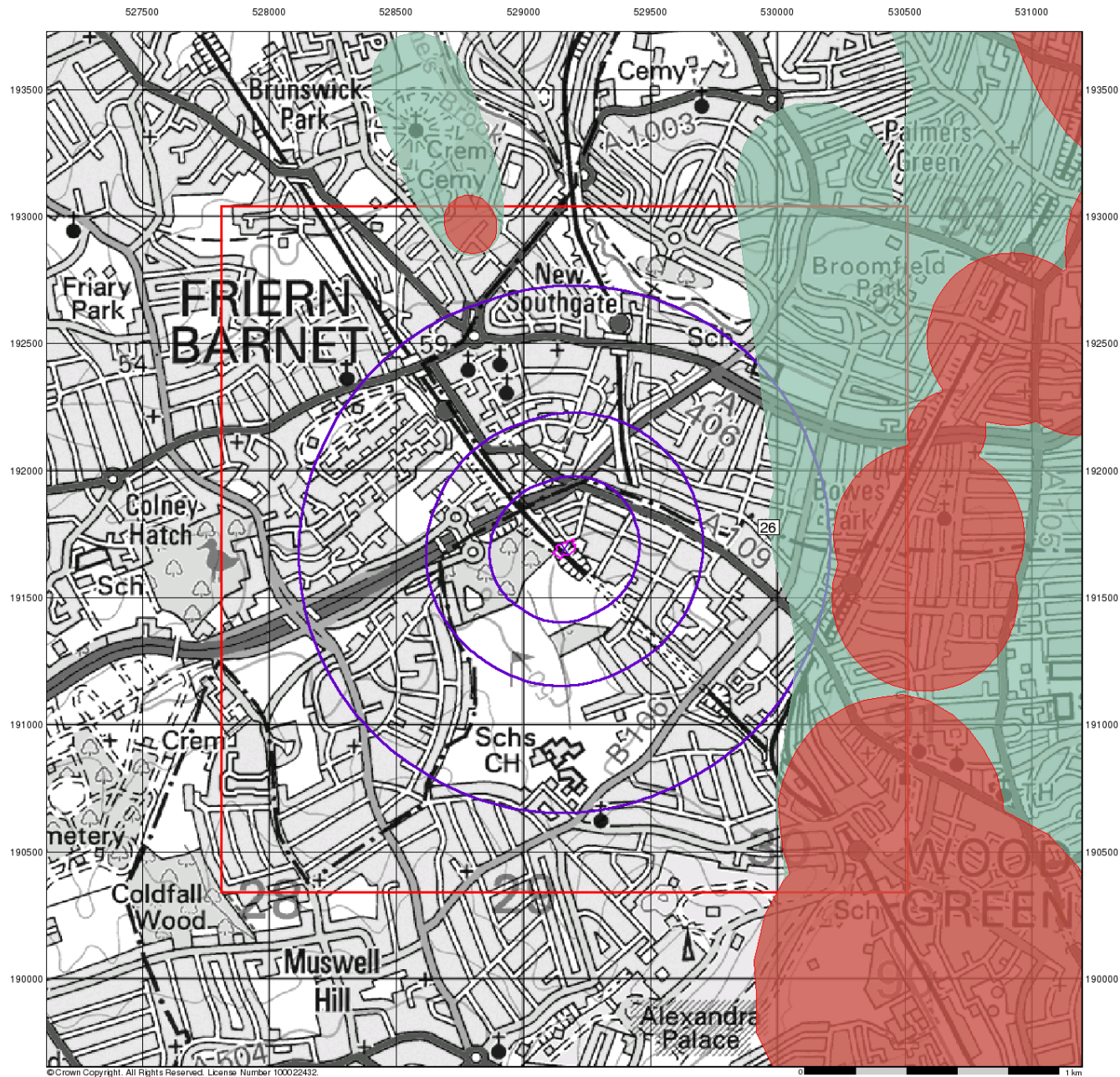
Order Number: 307360015_1_1
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 National Grid Reference: 529160, 191690
 Slice: A
 Site Area (Ha): 0.36
 Search Buffer (m): 1000

Site Details

Block F Bound Green Industrial Estate, LONDON, N11 2UL



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 Fax: 0844 844 9951
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Source Protection Zones

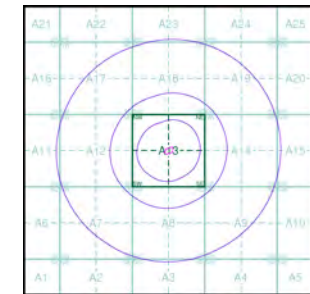
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

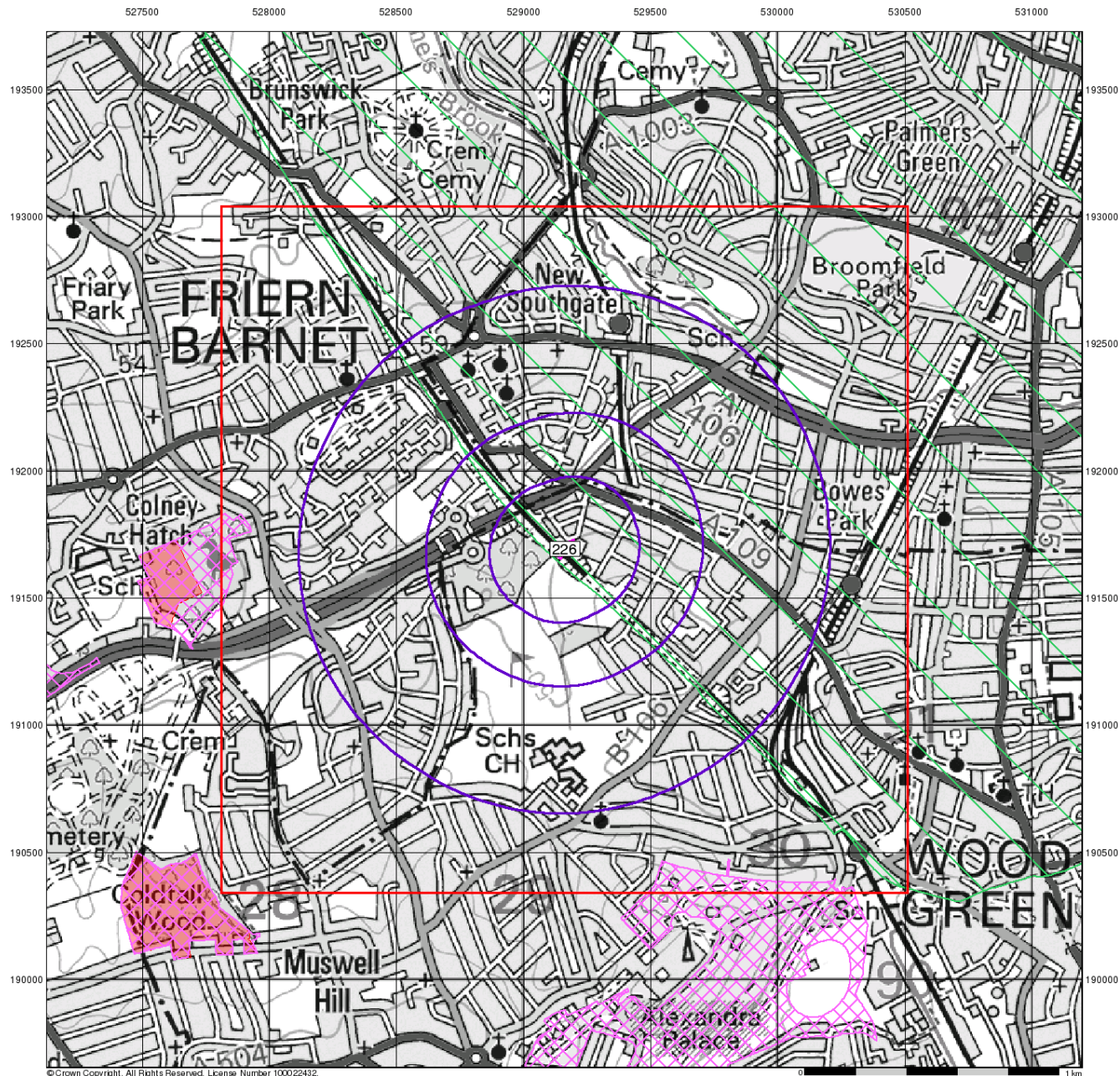
Order Number: 307360015_1_1
 Customer Ref: J23051
 National Grid Reference: 529160, 191690
 Slice: A
 Site Area (Ha): 0.36
 Search Buffer (m): 1000

Site Details

Block F Bound Green Industrial Estate, LONDON, N11 2UL



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Sensitive Land Uses

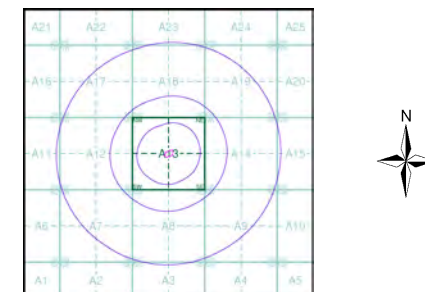
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A

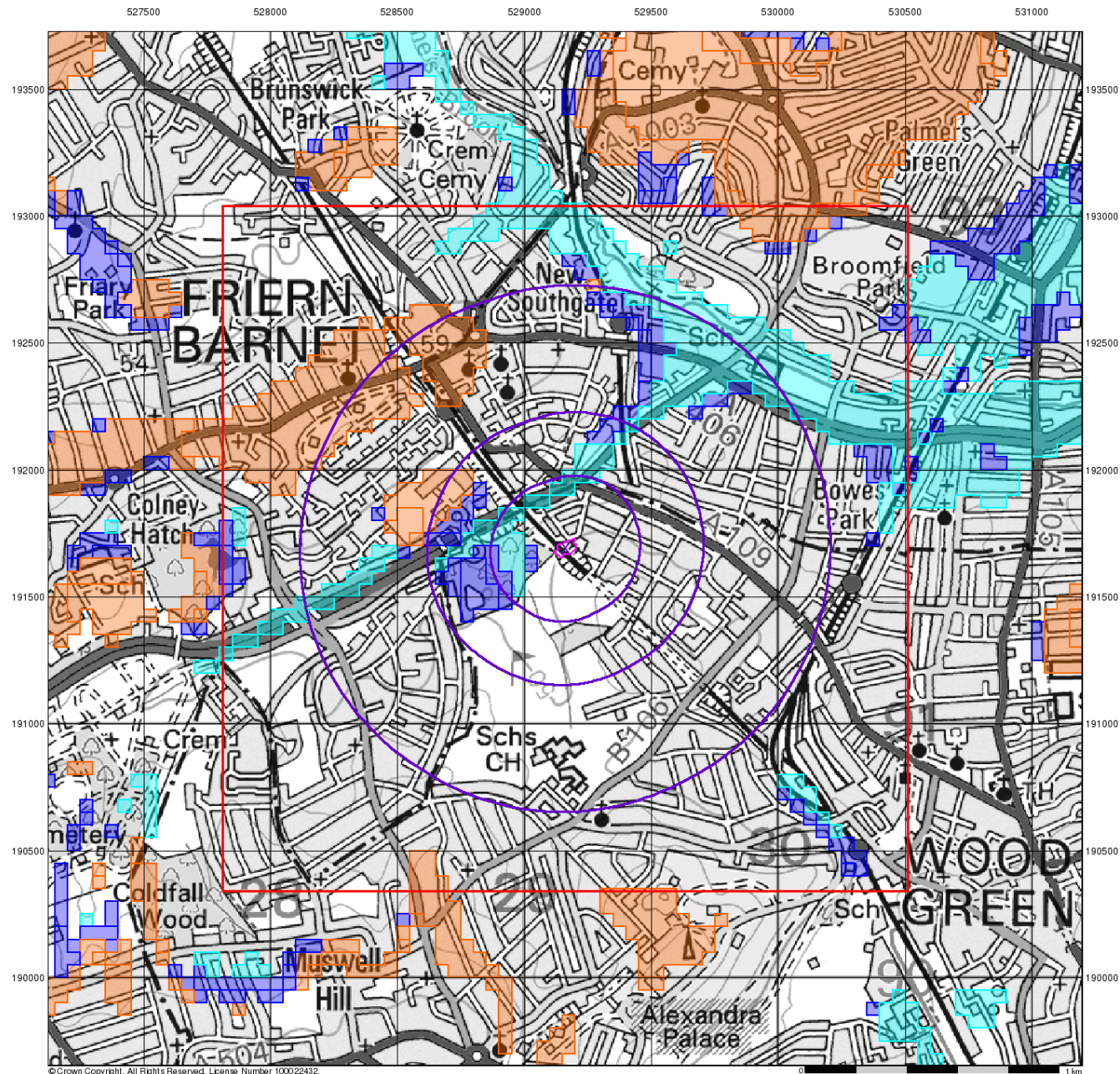


Order Details

Order Number: 307360015_1_1
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BGS Flood GFS Data

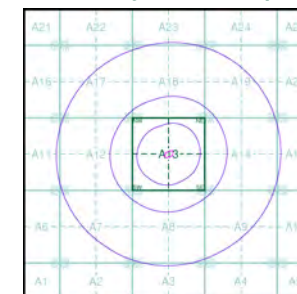
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

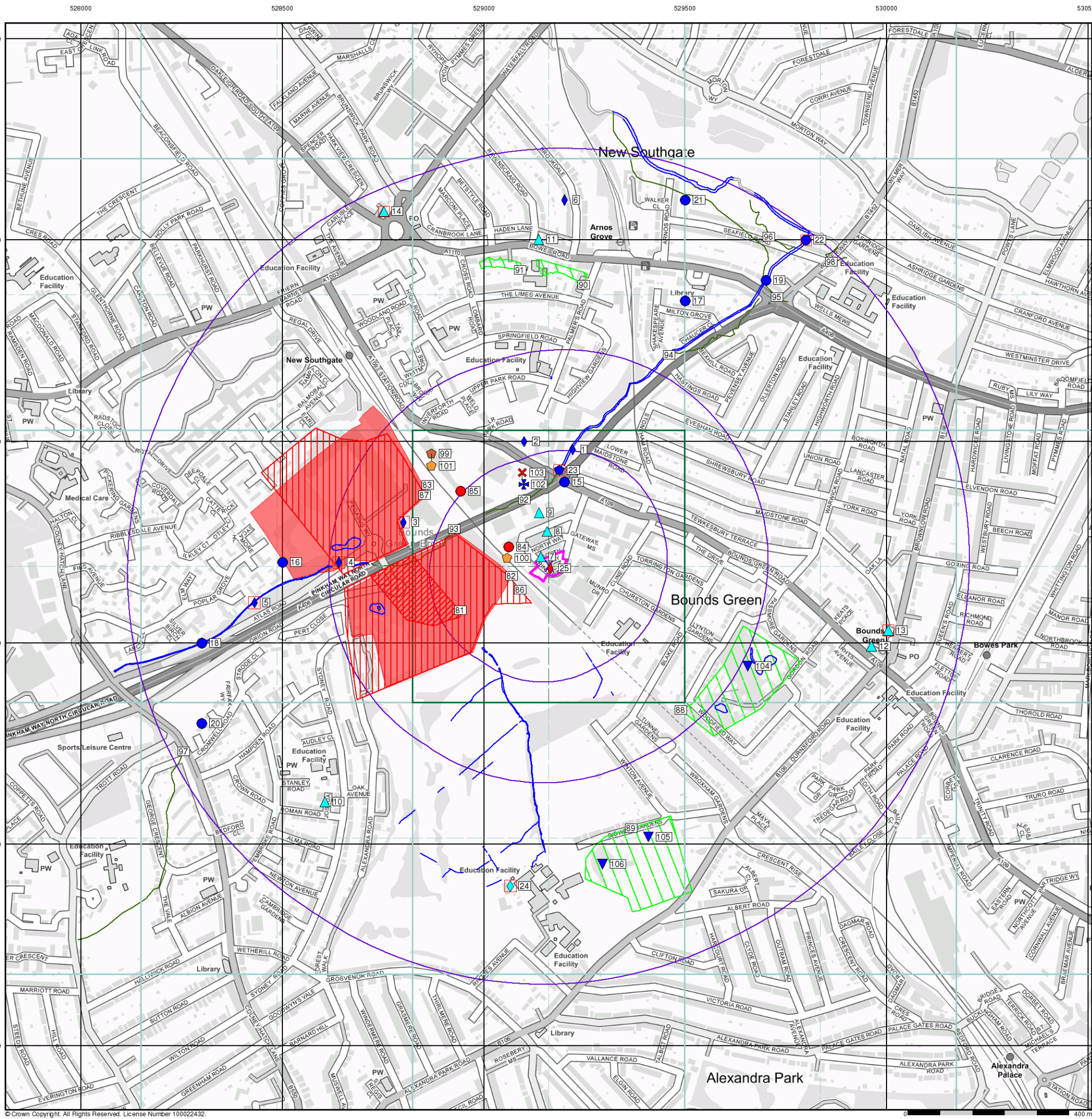
Order Number: 307360015_1_1
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General

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

Agency and Hydrological

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

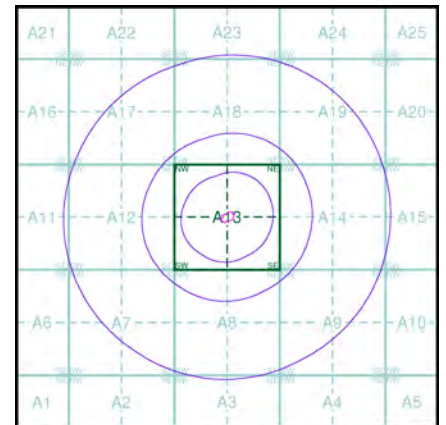
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- 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 (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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A



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