

PHASE 1 PRELIMINARY RISK ASSESSMENT REPORT

bp Pinkham Way, North Circular Road, London N11 2UU

10058657-ARC-XX-XX-RP-ZZ-0003-01-Preliminary Risk Assessment - bp Pinkham Way

DECEMBER 2022

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Phase 1 Preliminary Risk Assessment Report

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Acronyms and Abbreviations

ACM	Asbestos Containing Material
Arcadis	Arcadis (UK) Limited
BGS	British Geological Survey
BP	BP Oil UK Limited
BTEX	Benzene, Toluene, Ethylbenzene, total Xylenes
CLEA	Contaminated Land Exposure Assessment
CLR	Contaminated Land Report
CoC	Contaminants of Concern
CPU	Continued Petroleum Usage
DEFRA	Department for Environment, Food and Rural Affairs
EA	Environment Agency
m bgl	Metres Below Ground Level
MCertS	Monitoring Certification Scheme
N/A	Not Applicable
NAPL	Non-Aqueous Phase Liquids
PAH	Polycyclic Aromatic Hydrocarbon
PFS	Petroleum Filling Station
PID	Photo-Ionisation Detector
QA	Quality Assurance
QC	Quality Control
UKAS	United Kingdom Accreditation Service
US EPA	United States Environmental Protection Agency
UST	Underground Storage Tank
UV	Ultra Violet

Executive Summary

<i>Introduction</i>	Arcadis Consulting (UK) Limited (Arcadis) was commissioned by bp Pulse to carry out a Phase 1 Preliminary Risk Assessment (PRA) at bp Pinkham Way, North Circular Road, London N11 2UU (the “site”).
<i>Objectives</i>	It is understood that bp intends to remove the fuel infrastructure and convert the Site to an Electric Vehicle (EV) charging station.
<i>Scope of Work</i>	The scope for the PRA will include the following: • Site walkover (reconnaissance) including observation of surrounding properties and photographs of the Site during the visit (if applicable and permitted); • Purchase and review of Groundsure Insight report, comprising historical mapping as well as geological and environmental data; • Review of online database information held by the Environment Agency and British Geological Survey; • Preliminary Unexploded Ordnance (UXO) assessment using freely available information provided by Zetica; • Review of geological, hydrogeological and hydrological mapping; • Development and presentation of a Conceptual Site Model (CSM)/ Preliminary Risk Assessment (PRA); • Preparation and issue of the interpretative report with recommendations for further work (if required); and, • Full technical appendices.
<i>Site Findings</i>	After the completion of the PRA, the following pollutant linkages are considered potentially active based on the current use of the Site as a petrol filling station (PFS): • Direct contact with potentially contaminated soils by on-site and construction workers; • Partitioning of Contaminants of Concern (CoC) from impacted soil and groundwater into soil gas as well as vertical and lateral migration from the site and the subsequent inhalation of indoor and outdoor air by on-site commercial workers and neighbouring residents; • Lateral migration of soil gas CoC via preferential pathways (e.g. utility channels) followed by inhalation of indoor air; and, • Lateral migration of dissolved phase CoC to surface waters, likely to be through adjacent/nearby superficial deposits.
<i>Conclusion and Recommendations</i>	Assessment of the potentially active contaminant linkages indicates a low risk to human health receptors and a moderate / very low risk to controlled waters. It is recommended a round of groundwater sampling be undertaken from the 5no. boreholes identified on site during the site walkover, to collect up to date data regarding whether the ongoing use of the site may have had an impact on groundwater quality.

1 Overview

1.1 Introduction

Arcadis Consulting (UK) Limited (Arcadis) was commissioned by bp Pulse (bp) to carry out a Phase 1 Preliminary Risk Assessment (PRA) of bp Pinkham Way, North Circular Road, London N11 2UU (the “site”), in accordance with Arcadis’ Proposal dated 11th November 2022.

A Site Location Plan and Site Layout Plan are presented as Figure 1 and Figure 2 respectively.

The Site is currently an operational Petrol Filling Station (PFS).

Arcadis has been requested to provide a report to convey the potential environmental risks associated with owning and operating the site. For the purpose of the assessments presented herein it is understood bp intends to remove the fuel infrastructure and convert the site to an Electric Vehicle (EV) charging station.

The work was carried out in accordance with the terms and conditions set out in the Master Service Agreement (MSA) EPSCM-2017-0022 between Arcadis (UK) Ltd and BP International Limited.

1.2 Objectives and Scope of Work

The objective of this report is to provide bp with a document which details the findings of a PRA, undertaken to assess the potential for source-pathway-target (S-P-T) linkages to be present and active at the site, and the level of potential risk associated with these if present.

The scope of works undertaken to complete this may be summarised as follows:

- A Site walkover assessment to provide additional information to support the development of the CSM,
- Purchase and review of a Groundsure Insight report, comprising geological and environmental data,
- Purchase and review of available historical and current Ordnance Survey (OS) map records,
- Review of online database information held by the Environment Agency and British Geological Survey,
- Assessment of potentially contaminative land uses on the Site or nearby, and identification of Potential Areas of Concern (PAOC) through a desktop study review,
- Development of a CSM for the site, cognisant of the intent to redevelop the site as an EV charging facility,
- Unexploded Ordnance (UXO) risk screening based on information freely available from Zetica,
- Completion of a risk assessment of the potentially active S-P-T linkages identified, with recommendations for further work (if required),
- Full technical appendices.

NOTE: The Site is understood to have had some refurbishment works undertaken since the previous Arcadis reporting dated 2019; with 6no. underground storage tanks (USTs) previously situated close to the retail shop since removed and 4no. new USTs installed in the east of the site. Similarly, boreholes mentioned as part of the 2019 reporting are not thought to be the same monitoring wells identified during the recent site walkover. These variations should be kept in mind when reading different sections of this report.

1.3 Data Sources

The following information sources were reviewed during preparation of this Phase 1 PRA:

- Groundsure report reference GS-9243174 (dated 6th December 2022) including historic mapping
- British Geological Survey (BGS) GeolIndex online viewer

- Interactive Map Viewer | Coal Authority (bgs.ac.uk)
- Zetica Limited (Zetica) Regional Unexploded Bomb Risk maps
- Your long term flood risk assessment - GOV.UK (check-long-term-flood-risk.service.gov.uk)
- London Borough of Enfield & London Borough of Haringey Planning Portals
- Previous Site Assessment Report by Arcadis (Ref: 10031977-AUK-XX-XX-RP-ZZ-0001-02-PRA Pinkham Way, dated 23rd September 2019)
- Previous Site Assessment Report by Arcadis (Ref: 10031977-AUK-XX-XX-RP-ZZ-0014-01-ESA Pinkham Way, dated 23rd August 2019)

A site walkover, which included an informal interview with site staff, was undertaken by Arcadis on 6th December 2022. Photographs taken during the site walkover are presented in Appendix E.

1.4 Reliability of Information/ Limitations

Arcadis' liability, pursuant to the terms of the appointment of Arcadis by bp, is strictly limited to the work undertaken and the matters contained and specifically referred to in this report.

A copy of Arcadis' Study Limitations is presented in Appendix A.

1.5 Reliance

The current report has been prepared for the sole use of bp. The contents of this report may not be used or relied upon by any person other than this party without the express written consent and authorisation of Arcadis.

2 Previous Environmental Work

Prepared by:	Arcadis on behalf of bp Oil UK Limited
Report Title	Preliminary Site Assessment
Report Ref:	10031977-AUK-XX-XX-RP-ZZ-0001-02-PRA Pinkham Way, dated 23 rd September 2019 (version 02 – originally issued July 2019)
Findings	Arcadis were commissioned to undertake a Preliminary Risk Assessment to assess the potential risks to human health and water resources. The redevelopment on the site consisted of tank replacement works. The scope of work comprised: • Assessment of potentially contaminative land uses on the Site or nearby land and identification of Potential Areas of Concern (PAOC) through a desk-top study; • A site walkover to provide additional information to support the development of the CSM and intrusive site investigation; • A Petroleum Officer enquiry. At the time of the site walkover, five underground storage tanks (USTs) were located to the south of the canopy and the sixth (redundant Autogas tank) was located to the west of the canopy. Six monitoring wells were located on the site but could not be assessed. The site was directly underlain by London Clay Formation (Unproductive Aquifer) anticipated to be up to 150m thick and therefore a consistent groundwater body was not anticipated to be present beneath the site. As London Clay was considered to inhibit both vertical and lateral migration of contaminants from the site to off-site water resource receptors and the underlying deep aquifer units, S-P-T linkages associated with water resource receptors were not considered to present a potentially significant risk; however, Arcadis suggested that the presence or absence of groundwater should be confirmed through a Phase 2 Environmental Site Assessment (ESA). The following pollutant linkages were considered potentially active based on the current and future use of the site as a PFS with the assumption that buildings, hardstanding or vegetation cover the Site: • Partitioning of CoC from soil and groundwater into soil gas, vertical migration (upwards) towards the ground surface and the subsequent inhalation of indoor and outdoor air by on-site commercial workers and neighbouring residents; • Lateral migration of CoC to surface waters, likely to be through adjacent superficial deposits

Prepared by:	Arcadis on behalf of bp Oil UK Limited
Report Title	Environmental Site Assessment
Report Ref:	10031977-AUK-XX-XX-RP-ZZ-0014-01-ESA Pinkham Way, dated 23 rd August 2019
Findings	Arcadis were commissioned to undertake a Phase II Environmental Site Assessment to provide a summary of current environmental conditions and assessment of the site's suitability for Continued Petroleum Use.

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Prepared by:	Arcadis on behalf of bp Oil UK Limited
	The planned scope of work comprised: • Site walkover to assess the current conditions, provide a review of environmental constraints at the site and confirm accessibility along with supervision of a full utility survey; • Utility spot clearance of intrusive locations prior to intrusive works and advancement of inspection pits to a target depth of 2.0m below ground level (bgl) via vacuum excavation; • Up to 5no. boreholes to be drilled to a maximum depth of 6.0m bgl; • Logging of soils to BS 5930:2015 and field headspace screening with a Photo-Ionisation Detector (PID); • Collection of soil samples for environmental laboratory analysis; • Installation of HDPE groundwater monitoring wells at each new location; • Collection of groundwater samples from newly installed wells on the Site and submission of samples for analysis; • Permanent ground gas monitoring in the newly installed wells; and • Completion of a Phase II Environmental Site Assessment report including Generic Quantitative Risk Assessment (GQRA) with comparison to Arcadis Generic Assessment Criteria (GAC) based on CPU. Following issue of the proposed scope of works a limited geotechnical scope was included within the assessment. The Site Investigation comprised drilling five boreholes BH101 to BH105 to a target depth of 6m bgl. Monitoring wells were screened across the bedrock to assess the potential presence of groundwater contamination. Gas taps were fitted to each well to allow subsequent bulk gas monitoring. Groundwater was sampled from monitoring wells (BH101, BH102, BH104, BH105) using low-flow sampling techniques. BH101, BH102, BH104, BH105 were also monitored for ground gas. Geology encountered comprised the following • Surfacing of bitumen or medium strong black CONCRETE to approximately 0.18m bgl; • Made Ground comprising of black sandy GRAVEL with occasional cobble of concrete to approximately 1.40m bgl; • Soft becoming firm to very stiff brown or brown mottled grey and orange slightly sandy CLAY, interpreted as London Clay down to approximately 6.45m bgl Groundwater strikes were observed in BH101 at 0.30m, BH102 at 2.90m, BH103B at 0.80m and BH105 at 0.60m during the drilling of boreholes. Arcadis identified a hydrocarbon odour in BH105 at 0.5 to 0.7m bgl. Arcadis concluded that none of the CoC concentrations in the soil and groundwater samples analysed exceeded the GAC derived for the protection of human health receptors. Therefore, the risks posed to human health receptors associated with current and future use of the Site (PFS workers) from measured concentrations of CoC in soil and groundwater was considered to be low. The majority of the CoC in soil were measured below the GAC protective of water resource receptors, with the exception of a number of polycyclic aromatic hydrocarbon (PAH) compounds, benzene, toluene, naphthalene and phenol in the soil sample collected from BH105 at a depth of 0.5-0.6m bgl, which was associated with the Made Ground. A number of inorganic compounds were measured in excess of the GAC in groundwater; however, the exceedances were generally marginal, typically isolated, with no significant on-Site source identified. The risk to water resources from the inorganics measured was not considered significant.

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Prepared by:	Arcadis on behalf of bp Oil UK Limited
	Arcadis suggested that no further detailed environmental assessment was required and the Site was suitable for current use as a petrol filling station. The findings of the site assessment in relation to ground gas and the single monitoring visit undertaken, indicated that the overall risk was considered to be low, based on the planned redevelopment (tank and line replacement).

3 Preliminary Risk Assessment – Desk Study

3.1 Site Description and Location

The site is located at bp Pinkham Way, North Circular Road, London N11 2UU.

The site comprises an area of approximately 0.3 hectares. At the time of writing, that the site is an operational Petrol filling station (PFS).

Item	Information
National Grid Reference	529125E, 191826N.
Size	Approximately 0.3 hectares (ha).
Elevation	Approximately 40m above ordnance datum (AOD),
Topography	The Site is generally flat.

3.2 Surrounding Land Use

The following land use are present immediately adjacent to the Site:

Direction	Land Use(s)
North	North Circular Road runs parallel to the northern boundary of the site. Beyond is an open plot.
South	Commercial properties and associated car parking
East	A car dealer (Alan Day Van Centre) is present adjacent on the east beyond which is an open plot with vegetation.
West	An open plot with vegetation is adjacent on the west beyond which is a commercial property.

The Groundsure report (Appendix B) identified contemporary trade directory entries within 250m of the site. The table below summaries those considered to be pertinent to the ground condition of the site with regards to potentially contaminative land uses:

Trade Entry	Classification	Approximate distance and direction from the Site	Active/ Inactive
Bp Service station	Petrol and Fuel stations	On Site	Active
Igo Travel	Vehicle Hire and Rental	9m southeast	
Safestore Ltd	Container and Storage	14m southeast	
Odlar Joinery	General Construction Supplies	14m southeast	
Electricity Substation	Electrical Features	Seven located within 250m, the nearest is 35m northeast.	

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Transit Parts	Vehicle Parts and Accessories	44m southeast	Inactive
Pylon	Electrical Features	57m north	
Mast	Telecommunication Features	67m north	
Studio Design & Print	Published Goods	72m south	
Insat International	Electrical Production and Manipulation Equipment	97m east	
Industrial Estate	Business Parks and Industrial Estate	97m south	
Seltex	Wood Products including Charcoal, Paper, Card and Board	129m southeast	
Chelsea Air Conditioning Ltd.	Construction Completion Services	129m southeast	
Langham Lifts Ltd.	Industrial Repairs and Servicing	175m southeast	
	Garage	On Site	
Tank	Unspecified	On Site 9m north 17m northwest 25m northwest 63m northwest	
	Unspecified Commercial/ Industrial	17m northwest 25m north	
	Gas Works	28m northwest 78m northwest	
	Smithy	58m northeast 77m north 79m north	

3.3 Historical Land Use

A review of the available historical Ordnance survey maps (Appendix B) has been undertaken to access the historical development of the Site and immediate surrounding areas:

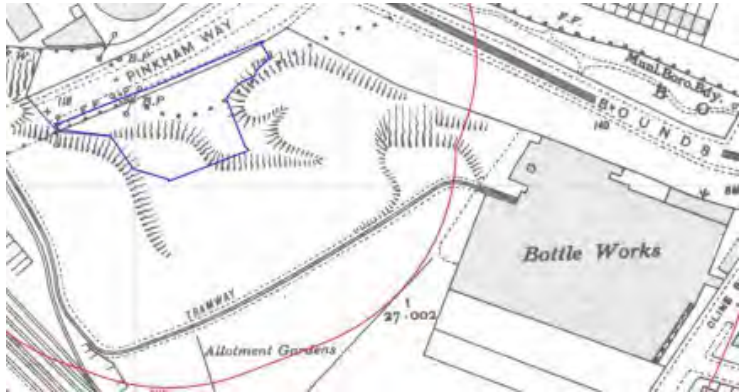
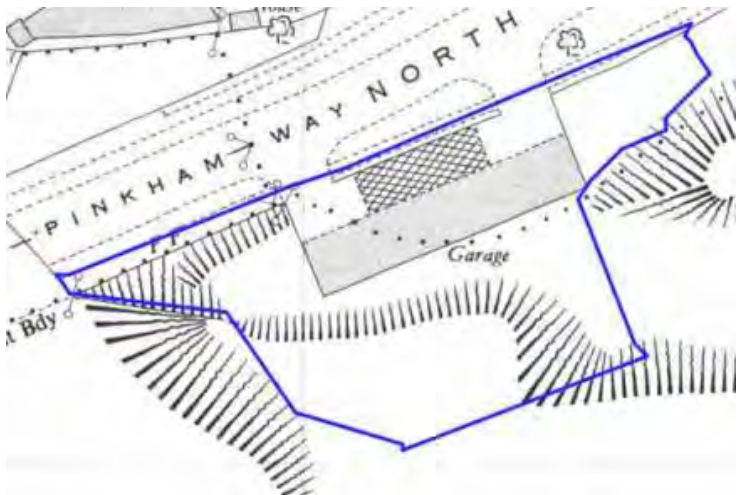
3.3.1 Site History (On Site)

Details of the site history can be seen in the table below:

Site Use	Period	Detail
Open/undeveloped land	1866-1898	The site was part of open undeveloped land with no structures present.
Open plot & man-made slopes	1913 - 1920	Topographic features associated with the construction of a railway line nearby to the south west encroached into the west sector of the site.

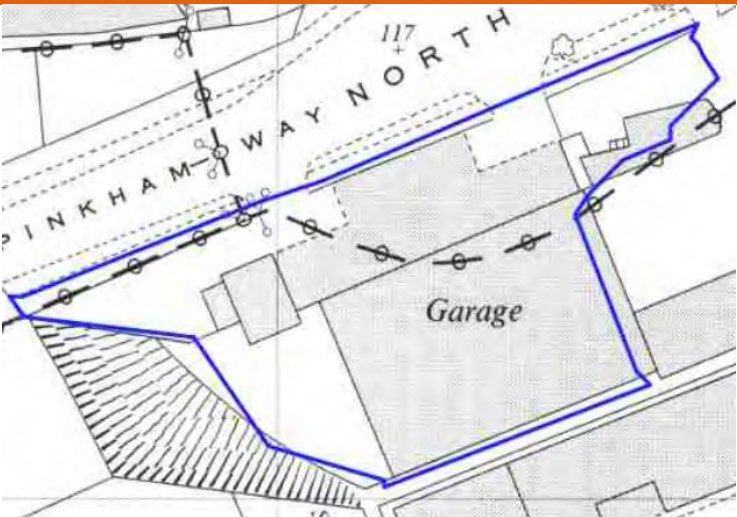
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Site Use	Period	Detail
Man-made slopes	1936 - 1938	Further development of a Bottle Works to the east of the site with an associated tramway saw additional landscaping works undertaken in the area, including level changes within the study area boundary:  The map shows a site with a tramway running along the bottom. To the east of the site is a large area labeled 'Bottle Works'. To the west of the site is an area labeled 'Allotment Gardens'. The site is bounded by Pinkham Way to the north and a boundary line to the south. The map also shows a 'Bdy' (boundary) line and a 'Tramway' line.
Garage, man-made slopes	1951 – 1952	A garage had been constructed in the north central part of the Site:  The map shows a site with a garage constructed in the north central part. The site is bounded by Pinkham Way North to the north and a boundary line to the south. The map also shows a 'Bdy' (boundary) line and a 'Garage' line.
Garage	1968 - 2001	The garage had been extended to the South covering most of the Site.

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Site Use	Period	Detail
		
Petrol Filling Station	2003	The Site had been developed into its current layout

3.3.2 Potentially Contaminative Historic Land Uses - Surrounding Area

Land Use	Period	Potentially Contaminative Land Uses and Changes
Railway lines, Gasworks, Gasometers	1867 – 1873	Railway line running northwest-southeast approximately 90m west. Gas works with two gasometers approximately 130m northwest. Gas works approximately 250m northwest. Gasometers were observed approximately 400m northwest of the Site.
Railway lines, Gasworks, Gasometers, Made Ground, Sewage Works, Railway sidings, Engine House	1895 - 1898	A tank associated with the aforementioned Gas works approximately 100m north of the Site. Sewage works with Filter beds approximately 260m southwest of the Site. The eastern embankment of the railway line has been replaced with railway sidings. An engine house approximately 450m west of the Site.
Railway lines, Gasworks, Gasometers, Made Ground, Sewage Works, Railway sidings, Engine House, Tank, Smithy	1913 - 1914	Additional development north and northwest of the Site. A tank approximately 90m north of the Site. A smithy approximately 85m north of the Site. Additional filter beds approximately 150m southwest of the Site.
Railway lines, Gasworks, Gasometers, Made Ground, Sewage Works, Railway	1920	An engine house approximately 480m northwest of the Site.

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Land Use	Period	Potentially Contaminative Land Uses and Changes
sidings, Engine House, Tank, Smithy		
Railway lines, Gasworks, Gasometers, Made Ground, Sewage Works, Railway sidings, Engine House, Tank, Tramway, Coal Bunkers, Engineering works, Bottle Works	1936 - 1938	North Circular Road was developed parallel to the northern boundary of the Site. A tramway running west and south of the site approximately 80m away from the western and southern boundary. Coal bunkers approximately 80m west of the Site along the railway sidings. Engineering works approximately 100m northeast of the Site. Bottle works approximately 120m southeast of the Site. Gasworks approximately 250m northwest of the Site no longer shown. Two tanks associated with sewage works approximately 200m and 300m southwest of the Site. The smithy was no longer shown.
Railway lines, Gasworks, Gasometers, Made Ground, Sewage Works, Railway sidings, Engine House, Tank, Tramway, Coal Bunkers, Engineering works, Bottle Works, Refuse heap, Coal yard	1950 - 1952	Additional filter beds with tanks, humus tanks and storm tanks associated with the sewage works to the southwest of the Site. Purifiers with associated tanks, valve pits and pump houses approximately 60m north of the Site. A refuse heap approximately 100m east of the Site. Gas works with associated tanks, coolers and engine room approximately 150m north-northwest of the Site. A tank associated with Bottle Works approximately 120m southeast of the Site. A coal yard associated with a quilt factory approximately 150m southeast of the Site. Engineering works approximately 200m southeast of the Site.
Railway lines, Gasworks, Gasometers, Made Ground, Railway sidings, Engine House, Tank, Coal Bunkers, Engineering works, Bottle Works, Industrial Estate, Mansory Works, Depot	1968 - 1970	The purifiers north of the Site no longer exists. Sewage Works no longer exists. Tramway no longer exists Bunds Green Industrial Estate with associated Engineering Works, Joinery Works, Depots, Warehouses approximately 20m south of the Site A masonry works approximately 150m southeast of the Site A depot approximately 200m west of the Site.
Railway lines, Gasworks, Gasometers, Made Ground, Railway sidings, Tank, Coal Bunkers, Engineering works,	1975	A landfill approximately 300m northwest of the Site.

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Land Use	Period	Potentially Contaminative Land Uses and Changes
Bottle Works, Industrial Estate, Mansory Works, Depot, Landfill		
Railway lines, Gasworks, Gasometers, Made Ground, Railway sidings, Tank, Coal Bunkers, Engineering works, Bottle Works, Industrial Estate, Mansory Works, Depot, Landfill	1982	Residential properties in between railway line and High Road, located approximately 200m northwest of the Site no longer exist
Railway lines, Gasworks, Gasometers, Made Ground, Railway sidings, Tank, Coal Bunkers, Engineering works, Industrial Estate, Mansory Works, Depot, Landfill, College	1983	Bottle Works was replaced by Middlesex Polytechnic College
Railway lines, Gasometers, Made Ground, Railway sidings, Tank, Coal Bunkers, Engineering works, Industrial Estate, Mansory Works, Depot, College, Coal yard	1991	The landfill was disused. Gasworks north of the Site was developed into a superstore with a single gasometer still present. Engineering works no longer observed northeast of the Site. A coal yard approximately 70m west of the Site. New South Industrial Estate was developed approximately 150m north of the Site.
Railway lines, Gasometers, Made Ground, Railway sidings, Tank, Coal Bunkers, Engineering works, Industrial Estate, Mansory Works, Depot, College, Coal yard	1993	Coal bunkers present northwest of the Site no longer visible. Coal bunkers present to the west of the Site were still present.
Railway lines, Gasometers, Made Ground, Railway sidings, Tank, Engineering works, Industrial Estate, Depot, College, Retail Park	2001	Coal bunkers are no longer shown. A retail park constructed approximately 300m northwest of the Site.
Railway lines, Gasometers, Made Ground, Railway sidings, Tank, Engineering works, Industrial Estate, Depot, Retail Park	2010	A Depot approximately 50m northwest of the Site. College was replaced by residential/ commercial properties.

Land Use	Period	Potentially Contaminative Land Uses and Changes
Railway lines, Made Ground, Railway sidings, Tank, Engineering works, Industrial Estate, Depot, Retail Park	2022	The Site surrounding has been developed to its current layout. Gasometer north of the Site was no longer shown.

3.4 Planning Review

From a review of the London Borough of Enfield & London Borough of Haringey planning portals, the following planning applications were identified in relation to the Site:

19/03190/OA: Removal and replacement of underground tank system including new tank farm comprising 2 no. 80,000 L underground storage steel tanks, formalisation of car parking (19 no. spaces, including 2 no. electric vehicle spaces and 1 no. DDA), relocation of A/W bay, and installation of new substation, LV panel enclosures and vent stack – UNKONWN

OA/07/0010: Demolition of car wash and replacement with revised car parking layout - UNKNOWN

3.5 Geology

Geology	Unit	Thickness (m)
From BGS GeoIndex (BGS) online viewer (1:50,000)		
Superficial Deposits	Superficial deposits are not present on Site. The nearest Superficial deposits are River Terrace Deposits located approximately 16m north of the Site.	N/A
Bedrock	London Clay Formation comprising of bioturbated or poorly laminated, blue-grey or grey-brown, slightly calcareous, silty to very silty clay, clayey silt and sometimes silt, with some layers of sandy clay. This formation belongs to the Ypresian Age.	Up to 150m
From BGS boreholes: TQ29SE83 (approx. 50m southwest of the site), TQ29SE87 (approx. 90m northeast of the site), TQ29SE82 (approx. 120m southwest of site) TQ29SE118 (approx. 120m west of the site) and TQ29SE80 (approx. 130m west of the site)		
Made Ground	Made Ground comprised of tarmac, gravel, cobbles, mottled sandy clay with ash brick, brick pieces, ash fragments, sandy silty clay with roots, concrete and rootlets. Thickness of the Made ground was seen to increase moving westward of the Site towards the railway embankments.	2.0m-10.7m
Superficial Deposits	Not encountered in any of the boreholes.	N/A

Geology	Unit	Thickness (m)
Bedrock – London Clay Formation	Comprised of stiff, closely fissured, brown mottled orange-brown and blue-grey silty CLAY, very silty CLAY.	Commences from 2.0m-10.7m – base not encountered

3.6 Hydrogeology

Hydrogeology	Details (Groundsure Report)
Superficial geology	No aquifer on site. Closest is 16m west of the Site classified as Secondary A Aquifer.
Bedrock Geology	Unproductive Strata.
Groundwater vulnerability	N/A - Unproductive Aquifer.
No. licensed potable abstractions within 2km	Eleven records of potable abstractions were identified within 2km of the site, of which six were active. The nearest abstraction was located approximately 1035m northwest of the site, (Licence number: 29/38/09/0101).
No. licensed non-potable abstractions within 2km	Thirteen records of groundwater abstractions were identified within 2km of the site, of which eight were active. The nearest abstraction was located approximately 906m south of the site, (Licence number: TH/038/00039/044).

A groundwater vulnerability map is presented in the Groundsure report (Appendix B).

3.7 Hydrology

Item	Details (Groundsure Report)
Nearest identified surface water feature.	River Brook is located approximately 80m northeast of the Site.
No. licensed surface water abstractions within 2km.	None identified.

3.8 Source Protection Zones

Hydrogeology	Details (Groundsure Report)
In SPZ?	No
Which SPZ?	Not Applicable

3.9 Flooding

Item	Details (Groundsure Report)
Flood probability (rivers and sea)	Flood Zone 2: Land and property have a very low probability of flooding (less than 0.1% annual probability of river or sea flooding).
Flood risk from surface water	Low risk – Area has a chance of flooding between 0.1% to 1% each year.
Flood Risk from Anecdotal evidence	None obtained from site staff.

3.10 Ecologically Sensitive Sites

Item	Details (Groundsure Report)
Ramsar Sites	None identified.
Sites of Special Scientific Interest	None identified.
Special Protection Areas	None identified.
Nitrate Vulnerable Zone	The Site is a nitrate vulnerable zone for surface water.

3.11 Landfills

Landfill Gas Sources	Details (Groundsure Report)
Historical landfills	One record of historical landfill located 348m southwest of the Site.
Registered landfills	Two records of historical registered landfills the nearest located at 119m southwest of the Site with waste type being Inert. (Site Ref: 8BA006, 8HG003, 5090/0005).

3.12 Discharge Consents

Item	Details (Groundsure Report)
Discharge consents for the Site	None identified
Discharge consents within 500m	Eight consents have been found, the closest was approximately 124m northeast of the site; related to miscellaneous discharges – surface water, Permit Number: CTWC.0788. No record of Red list discharge consents have been identified within 500m of the Site.

3.13 Environment Permits

Item	Details (Groundsure Report)
Environmental permits for the Site	Part B permit for Pinkham Way SF Connect for unloading of petrol into storage services at service stations.
Environmental permits within 500m	Part B permit for Marshall Panelcraft located at 43m south of the Site for respraying of road vehicles. Part B permit for Upstage Theatrical Dry Cleaners Services located at 94m south of the Site for dry cleaning.

3.14 Pollution Incidents to Controlled Water

Item	Details (Groundsure Report)
Pollution incidents at the Site	None identified.
Pollution incidents within 500m	There were nine records of substantial pollution incidents, the nearest being: Water Impact: Category 4 (No Impact); Land Impact: Category 4 (No Impact); Air Impact: Category 4 (No Impact). At 21m northeast of the site one pollution incident occurred on 26/02/2002 with Specific Waste Materials a pollutant. Incident Identification: 60723.

3.15 Unexploded Ordnance

With reference to the Zetica unexploded bomb risk map attached in Appendix C, the site falls within an area of 'low' bomb risk.

During WWII, the Site was located in the Municipal Borough (CB) of Southgate, which officially recorded 221 No. High Explosive (HE) bombs with a regional bombing density of 60.2 bombs per 405 hectares (ha).

Records have been found indicating that several HE bombs fell in close proximity to the Site.

The Pre-Desk Study Assessment (PDSA, Appendix C) recommends a detail desk study assessment (DDSA) be commissioned to assess, and potentially zone, the UXO hazard level on the Site.

3.16 Coal/ Mine Workings

A search of publicly available data on the Coal Authority Property Search Service website, accessed on 5th December 2022 indicates that the site is not within an area likely to be affected by coal mining activities, is not within a coal mining reporting area, and no mine entries were found within 500m of the site.

Five records of historical unspecified ground workings (1912, 1920, 1938 and 1962) and one record of unspecified pit (1938) on site were identified.

3.17 Radon

According to the Groundsure® report, the subject site is located in a lower probability radon area, where less than 1% of homes are above the recommended action level requiring radon protection measures. Therefore, no radon protection measures are typically considered necessary in construction of new dwellings or extensions.

3.18 Petroleum Officer

A Request for Information was sent to London Fire Brigade for completion by the Petroleum Officer. Their response was awaited at the time of writing.

During the site walkover the details of the 4no. fuel storage tanks were provided by the site manager – See Section 4.2.

The tanks are now located in the east of the Site – it is noted at the time of the previous Arcadis reporting (2019) it was recorded that there were 6no. tanks on site, located neared to the retail shop.

4 Preliminary Risk Assessment – Site Walkover

The Site was inspected on 6th December 2022 to identify PAOC with regards to the Environmental conditions which could have affected the sub-surface. Photographs of the Site are presented in Appendix E.

4.1 Site Description

The Site is an operational PFS comprising:

- An area of approximately 0.3 ha adjacent to North Circular Road,
- The Site comprises a Fuel Station including electric charging and a Retail shop,
- Hardstanding at the Site mainly comprises Tarmac and Concrete, observed to be in good condition,
- Four USTs are located on the eastern portion of the Site with their associated vent near the southern boundary,
- No Above Ground Storage Tanks are present on the Site.

4.2 Fuel Storage Tanks

The Site walkover identified the following storage tanks:

Tank	Capacity (Litres)	Contents	Construction Type / Condition	Approximate Date of Installation
1	47,500	Unleaded	Could not be confirmed during site walkover	2020 (prior to that tanks were near the retail shop)
1	14,500	Ult_Unleaded		
3	14,500	Ult_Diesel		
4	76,000	Diesel		

4.3 Drainage and other Man-made Preferential Pathways

The Site walkover identified an interceptor at the centre of the forecourt that is emptied once in every two weeks.

4.4 Monitoring Wells

During the Site Walkover, four monitoring wells (BH1 to BH4) were observed on the Site. Photographs are included as Appendix E and the locations of the identified boreholes shown on Figure 2. These are

4.5 Visual and Olfactory Evidence of Contamination

Visual Evidence	Olfactory Evidence
Staining was observed in front of the pump dispenser units. No other visual evidence of spillage was observed during the Site walkover	No Olfactory Evidence of concern was observed during the Site walkover

4.6 Waste Management

Waste at the Site included retail waste and AdBlue cartons were also observed.

4.7 Invasive Species

No obvious visible evidence of Japanese Knotweed (JK) or other invasive species was identified on the Site. However, it is not always possible to confirm the presence of, or identify, such plants; particularly in the early stages of growth. Arcadis is unable to confirm that JK rhizomes do not exist beneath the Site.

4.8 Potential Areas of Concern

The PAOC identified during the Site inspection were:

Location	PAOC
On-Site	Staining near pump dispenser units
Off-Site	None identified

5 Conceptual Site Model

Following completion of the desk study and site reconnaissance, a preliminary CSM has been prepared and is summarised below:

5.1 Potential Areas of Concern (PAOC) – Sources

The PAOC associated with the site which have been identified during the desk study and site walkover are:

5.1.1 On-site

Location	PAOC
Current Usage	Infilled/ Made Ground derived from the development of the Site.
	Fuel storage and distribution areas associated with the use of the Site as a PFS.
Historical Usage	Fuel storage and distribution areas associated with the use of the Site as a PFS.
	Garage
	Unspecified Ground workings

5.1.2 Off-site

Location	PAOC
Current Usage	Railway line and sidings
	Industrial Estate
	Electric substation
Historical Usage	Gas works and Gasometers
	Tanks
	Sewage Works
	Railway line and sidings
	Industrial Estate
	Bottle Works
	Unspecified tanks
	Smithy
	Coal yard and coal bunkers
	Masonry Works
	Unspecified heaps
	Unspecified ground workings

5.2 Contaminants of Concern (CoC)

CoC for the site have been selected based on the current and historical on- and off-site PAOC and with reference to the relevant Department of Environment (DoE) Industry Profiles¹.

PAOC	CoC
On-Site	
Made Ground (mixed natural soils and construction materials) associated with the construction of the Site	Petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), metals, asbestos and ground gases
Fuel storage and distribution system and forecourt water drainage system	Petroleum hydrocarbons and fuel additives.
Garage	Metals and their compounds (lead, chromium, zinc, copper, vanadium) acids and alkalis, organic compounds (solvents, PAHs, fuels/hydrocarbons, glycols and ethers, detergents) and brake fluid
Off-Site	
Made Ground	Petroleum hydrocarbons, PAHs, metals, asbestos and ground gases
Tanks and Depots and Engine House	Petroleum hydrocarbons, fuel additives and Polychlorinated biphenyls (PCBs).
Electrical substations	Potential contamination from electrical substations includes PCBs, fuel oils, metal and metalloids and hydrocarbons.
Railway Lands	Fuel oils, lubricant oil, PCBs, PAHs, ethylene glycol, creosote, herbicides, ferrous residues, metal fines, ash, and sulphates.
Industrial works in Industrial Estate	Industrial and Vehicle repairs, testing and services: Metals and their compounds, acids/alkalis, detergents Hydrocarbons and fuel additives. Printing Related Machinery Metals and metalloids, Inorganic compounds, Acids/base, Asbestos and organic compounds. Medical Equipment, Supplies and Pharmaceuticals Organic solvents, acids, alkalis and asbestos. Rubber, Silicones and Plastics Colouring pigments, rubber, rubber precursors, Vulcanising agent, processing aids, accelerators, activators, stain protectors, retarders, waxes, anti-detergents, peptises and flame retardants.
Gas Works	Petroleum hydrocarbons, PCBs, phenols, ammoniacal nitrogen and cyanide

¹ Department of Environment, "DoE Industry Profiles" [Online]. Available: <https://www.claire.co.uk/useful-government-legislation-and-guidance-by-country/198-doe-industry-profiles>

PAOC	CoC
Landfill	Ground Gas
Sewage works	Potential contaminants from sewage works includes metals, metalloids and their compounds (e.g., iron, aluminium, cadmium etc.), Inorganic compounds, Acids and alkalis, Asbestos, Organic compounds, methane, hydrogen sulphide and Microorganism.
Smithy	Metal and metalloids (iron, aluminium, chromium, lead, manganese, molybdenum, nickel, tin, vanadium, zinc), acids and alkalis, asbestos, fuel oils and PCBs.

5.3 Potential Receptors

Based on future commercial usage, the following potential receptors for the Site have been identified:

Type of Receptor	Potential Receptors
Human Health	Based on the current use of the site, on-site commercial workers are considered to be the primary human health receptors
	Site visitors and general public are also considered to be receptors.
	Neighbouring residential properties are present approximately 140m northeast of the Site and potential lateral migration of hydrocarbons off site and subsequent inhalation of vapours from impacted soils and/or groundwater beneath neighbouring properties are not considered.
Controlled Waters	The Site is recorded to directly overlie the London Clay Formation which is categorized as unproductive strata. Therefore, a consistent groundwater body is not anticipated to be present beneath the Site. The London Clay Formation is considered to inhibit both the vertical and lateral migration of contaminants from the Site to off-Site water receptors. The BGS maps record no linear features near the Site.
	However, it is noted that River Terrace Deposits are reportedly present approximately 16m west of the Site which is designated as a Secondary A Aquifer. The nearest surface water body to the Site is an inland river feature located approximately 80m northeast of the Site. Given the presence of superficial deposits immediately to the west and north of the Site and potential connectivity with the made ground, this is considered as a potential water resource receptor.

5.4 Potentially Active Pathways

Based on the information presented in this report, the primary potential sources are considered to be associated with the current and historical use of the site, with the following pathways considered potentially active:

- Direct contact with potentially contaminated soils by on-site and construction workers;
- Partitioning of CoC from impacted soil and groundwater into soil gas, vertical and lateral migration from the site, and subsequent inhalation of indoor and outdoor air by on-site commercial workers and nearby human health receptors;
- Lateral migration of CoC via preferential pathways (e.g. utility channels);
- Lateral migration of CoC to surface waters, likely to be through superficial deposits in the area or other preferential pathways.

6 Preliminary Conceptual Site Model

Based on the CSM, the table below describes and evaluates the plausible Source-Pathway-Receptor contamination linkages and the preliminary risk to sensitive receptors.

The definitions and classifications of risk are presented in Appendix F, Risk Assessment Methodology. This has been adopted from "Guidance for the Safe Development of Housing on Land Affected by Contamination" Annex 4 R&D Publication 66: 2008 Volume 2.

Source	Pathway	Receptor	Severity	Likelihood	Risk	Justification
Human Health						
Potentially impacted soil/groundwater	Vapour Inhalation: Partitioning of PCoC from soil and groundwater into soil vapour, lateral and vertical vapour migration and subsequent inhalation. Lateral migration via utility pathways.	On-site commercial workers and visitors	Mild	Low	Low	Whilst multiple sources of potentially volatile species have been identified associated with the use of the site, evidence for their presence in soils is limited. There are also reasonably limited opportunities for vapour accumulation or migration, given the use of the site and the presence of hardstanding/building footprints across the area. In 2019 Arcadis identified no CoC concentrations in soil and groundwater samples exceeded the GAC derived for the protection of human health receptors.
		Future on-site construction workers	Mild	Low	Low	
	Direct Contact: Ingestion, inhalation, dermal contact with impacted soil particulates.	On-site commercial workers and visitors	Mild	Low	Very Low	Hardstanding comprising of tarmac and concrete is currently present across the majority of the Site where workers would be reasonably expected to be present on top of the made ground. As such, the risk to receptors is reduced based on continued commercial use.
		Future on-site construction workers	Mild	Low	Low	During redevelopment works, contact with CoC is possible if contaminated soils are encountered. The risks to construction workers can be reduced through appropriate use of PPE and good working practices. Asbestos present in soil can present a potential risk to construction workers during any future redevelopment works and works should be managed in accordance with the Control of Asbestos Regulations 2012 if encountered.

PHASE 1 PRELIMINARY RISK ASSESSMENT REPORT

bp Pinkham Way

Source	Pathway	Receptor	Severity	Likelihood	Risk	Justification
Controlled Waters						
Potentially impacted soil/ groundwater	Lateral migration to surface waters.	Secondary A Aquifer (River Terrace Deposits)	Medium	Low	Moderate / Low	In 2019 Arcadis observed the majority of CoC in soil were measured below the GAC protective of water resource receptors, with the exception of a number of PAH compounds, benzene, toluene, naphthalene and phenol, associated with the Made Ground. Several inorganic compounds were measured in excess of the GAC in groundwater, including selenium, nickel and total cyanide. The source of cyanide was considered associated with the off-Site gas works. Given the marginal exceedances Arcadis observed and absence of any significant on-site source, risk to water resources is not considered significant.

7 Summary and Conclusion

7.1 Summary

Arcadis conducted a Phase 1 Preliminary Risk Assessment along with a Site walkover on 6th December 2022 to assess the potential ground contamination risk on the Site.

Environmental Setting

The Site is an active PFS surrounded by North Circular Road to the north and commercial properties.

According to historical reports and BGS GeoIndex, the geology beneath the Site comprises of Made Ground to approximately to 1.40m bgl. Bedrock comprises of London Clay Formation (Unproductive Aquifer) described as soft becoming firm to very stiff brown or brown mottled grey and orange slightly sandy CLAY.

According to the Groundsure report (2022) the Site does not fall within EA defined source protection zone. The Site lies in an area where there is low risk of surface water flooding and very low risk of floods due to the river and sea.

Underground Storage Tanks

Four USTs were observed during the Site Walkover.

Potential Contamination

According to site walkover conducted on 6th December 2022, no records of spillages of fuel or other substances have been identified during this Phase 1 PRA. However, staining was observed in front of dispenser units.

Preliminary Risk Assessment

After the completion of the PRA, the following pollutant linkages are considered potentially active based on the current use of the Site as a PFS:

- Direct contact with potentially contaminated soils by on-site and construction workers
- Partitioning of CoC from impacted soil and groundwater into soil gas as well as vertical and lateral migration from the site and the subsequent inhalation of indoor and outdoor air by on-site commercial workers and neighbouring residents;
- Lateral migration via preferential pathways (e.g. utility channels) followed by inhalation of indoor air;
- Lateral migration of CoC to surface waters, likely to be through adjacent superficial deposits.

Previous Assessment of the Site

As outlined in Section 2, previous PRA and ESA assessments undertaken at the site did not identify any risks requiring further assessment.

Given the time which has elapsed since the most recent monitoring event however, it is considered pertinent to collect more up to date data.

7.2 Conclusions and Recommendations

The site has been found to contain five potential contaminant linkages of concern with regards to both on-site and off-site historical and current land uses.

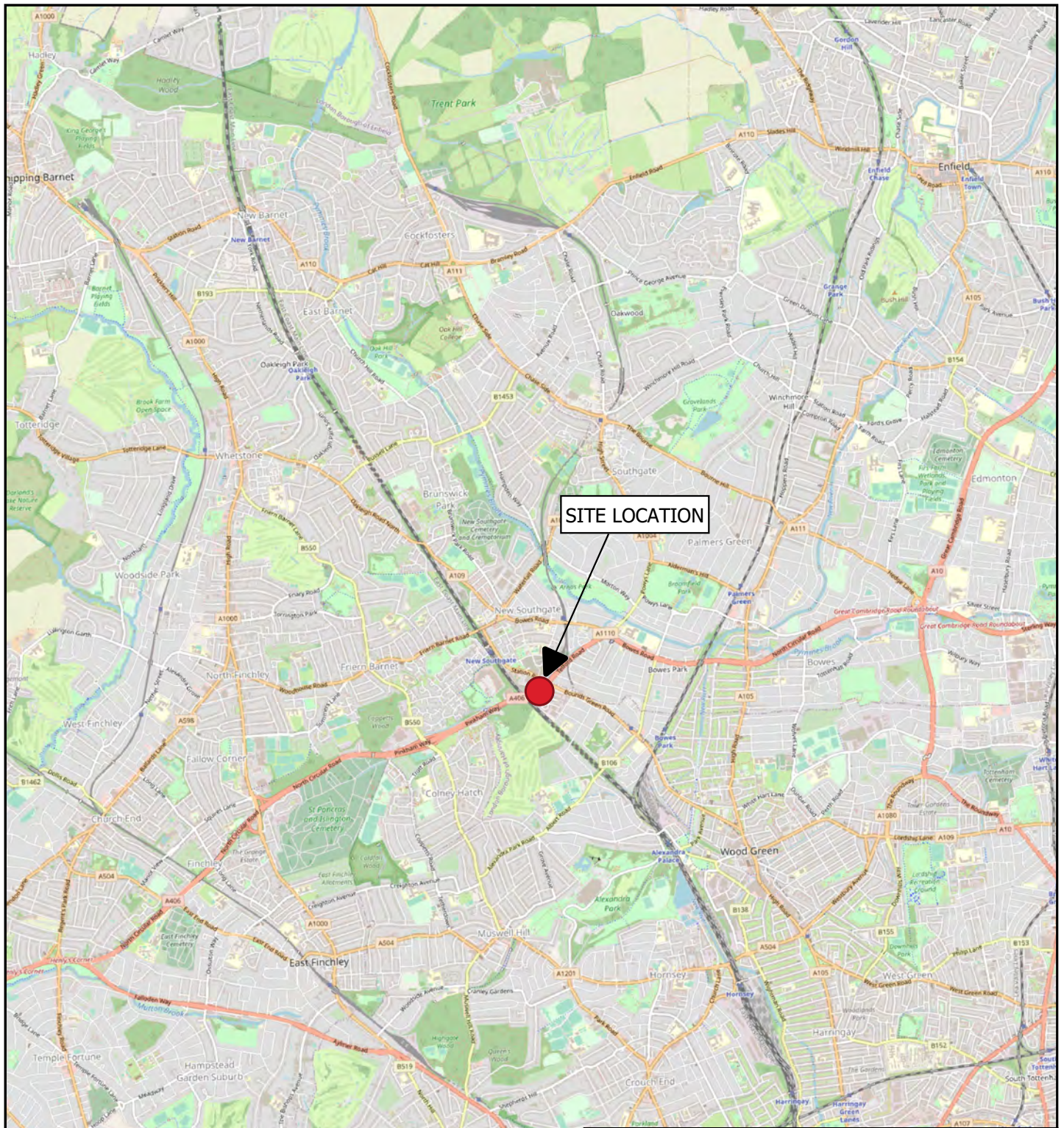
Assessment of the potentially active contaminant linkages indicate a generally **low** risk to human health receptors and a **moderate / very low** risk to controlled waters.

PHASE 1 PRELIMINARY RISK ASSESSMENT REPORT

bp Pinkham Way

It is recommended a round of groundwater sampling be undertaken from the 5no. boreholes identified on site in order to collect up to date data relating to groundwater quality beneath the property.

FIGURES



SITE LOCATION

TITLE:
SITE LOCATION PLAN

LEGEND

SITE:
Pinkham Way

 **Site Location**

SYMBOLS FOR BOREHOLES, TRIAL PITS AND OTHER SPECIFIC FEATURES ARE REPRESENTATIONS OF LOCATION ONLY AND UNLESS OTHERWISE SPECIFIED, DO NOT REPRESENT THE TRUE SIZE OF THE FEATURE.

0 750 1,500 2,250 m



CLIENT:
bp Pulse

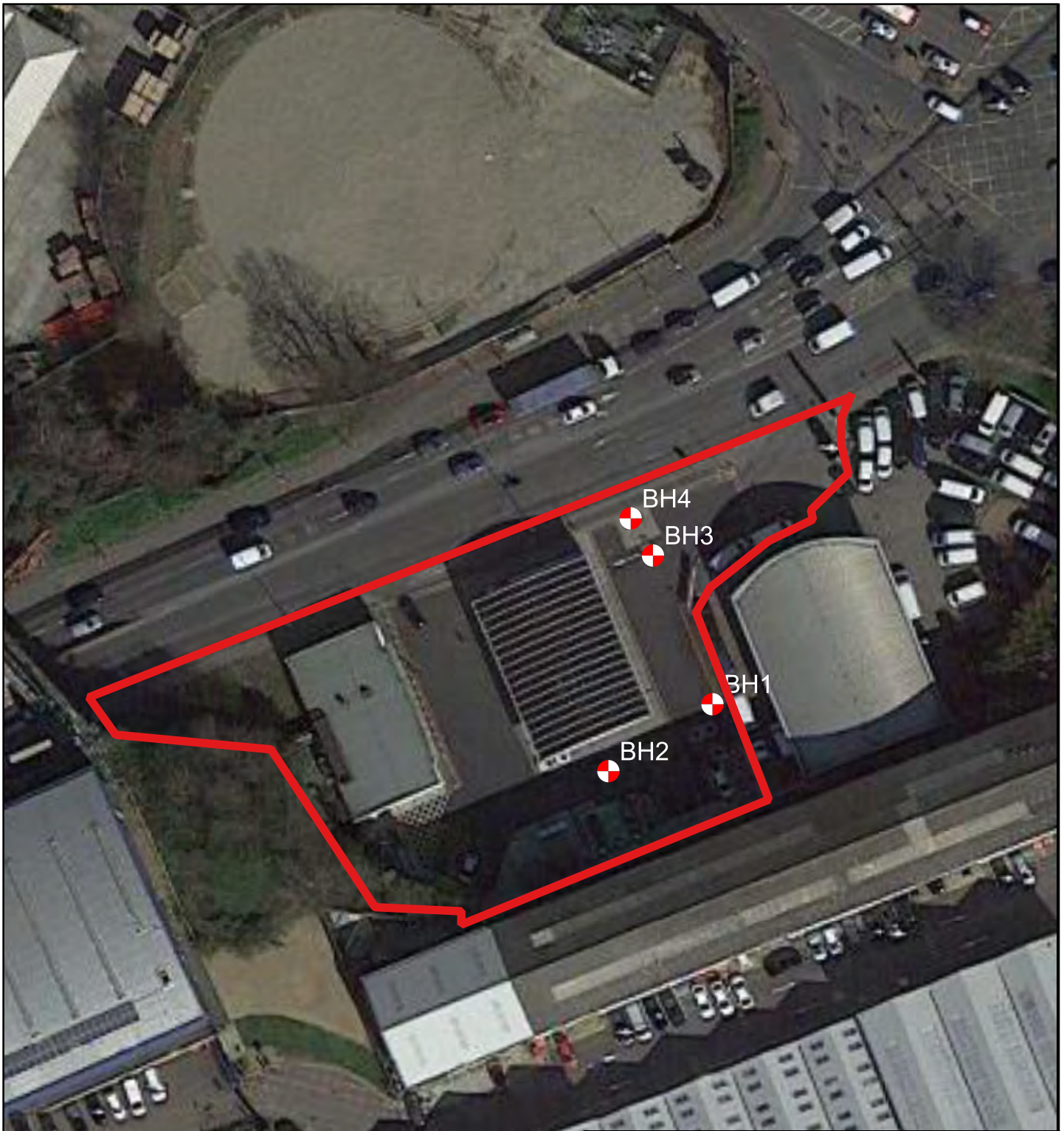
PROJECT: **10058657** **FIGURE 1**

DATE: **05/12/22** DRAWN BY: **MR**

DRG No: **10058657-ARC-XX-XX-DR-ZZ-0001-P1.1-Pinkham Way Site Location Plan**

SCALE: **1:50000** PRINT: **A4**





TITLE:
MONITORING WELL LOCATION PLAN

LEGEND	NOTES	SITE: Pinkham Way	
Site Boundary Monitoring Well Location	SYMBOLS FOR BOREHOLES, TRIAL PITS AND OTHER SPECIFIC FEATURES ARE REPRESENTATIONS OF LOCATION ONLY AND UNLESS OTHERWISE SPECIFIED, DO NOT REPRESENT THE TRUE SIZE OF THE FEATURE. 0102030 m	CLIENT: bp Pulse	
		PROJECT: 10058657	FIGURE 2
		DATE: 12/12/22	DRAWN BY: MR
		DRG No: 10058657-ARC-XX-XX-DR-ZZ-0008-P1.1-Pinkham Way Monitoring Well Location Plan	
		SCALE: 1:750	PRINT: A4
		ARCADIS	

Appendix A

Study Limitations

IMPORTANT. This appendix should be read before reliance is placed on any of the information, opinions, advice, recommendations or conclusions contained in this report.

1 This report has been prepared by Arcadis (UK) Limited ('Arcadis'), with all reasonable skill, care and diligence within the terms of the Appointment and with the resources and manpower agreed with bp Pulse (the 'Client'). Arcadis does not accept responsibility for any matters outside the agreed scope.

2 This report has been prepared for the sole benefit of the Client unless agreed otherwise in writing. The contents of this report may not be used or relied upon by any person other than this party without the express written consent and authorisation of Arcadis.

3 Unless stated otherwise, no consultations with authorities or funders or other interested third parties have been carried out. Arcadis is unable to give categorical assurance that the findings will be accepted by these third parties as such bodies may have unpublished, more stringent objectives. Further work may be required by these parties.

4 All work carried out in preparing this report has used, and is based on, Arcadis' professional knowledge and understanding of current relevant legislation. Changes in legislation or regulatory guidance may cause the opinion or advice contained in this report to become inappropriate or incorrect. In giving opinions and advice, pending changes in legislation, of which Arcadis is aware, have been considered. Following delivery of the report, Arcadis has no obligation to advise the Client or any other party of such changes or their repercussions.

5 This report is only valid when used in its entirety. Any information or advice included in the report should not be relied upon until considered in the context of the whole report.

6 Whilst this report and the opinions made are correct to the best of Arcadis' belief, Arcadis cannot guarantee the accuracy or completeness of any information provided by third parties. provided by third parties. Arcadis has taken reasonable steps to ensure that the information sources used for this assessment provided accurate information and has therefore assumed this to be the case.

7 This report has been prepared based on the information reasonably available during the project programme. All information relevant to the scope may not have been received.

8 This report refers, within the limitations stated, to the condition of the Site at the time of the inspection. No warranty is given as to the possibility of changes in the condition of the Site since the time of the investigation.

9 The content of this report represents the professional opinion of experienced environmental consultants. Arcadis does not provide specialist legal or other professional advice. The advice of other professionals may be required.

10 Where intrusive investigation techniques have been employed, they have been designed to provide a reasonable level

of assurance on the conditions. Given the discrete nature of sampling, no investigation technique is capable of identifying all conditions present in all areas. In some cases, the investigation is further limited by Site operations, underground obstructions and above ground structures. Unless otherwise stated, areas beyond the boundary of the Site have not been investigated.

11 If below ground intrusive investigations have been conducted as part of the scope, safe location of exploratory holes has been carried out with reference to the Arcadis ground disturbances procedure. No guarantee can be given that all services have been identified. Additional services, structures or other below ground obstructions, not indicated on the drawing, may be present on Site.

12 Unless otherwise stated the report provides no comment on the nature of building materials, operational integrity of the facility or on any regulatory compliance issues.

13 Unless otherwise stated, an inspection of the Site has not been undertaken and there may be conditions present at the Site which have not been identified within the scope of this assessment.

14 Unless otherwise stated, samples from the Site (soil, groundwater, building fabric or other samples) have not been obtained.

15 Arcadis has relied upon the accuracy of documents, oral information and other material and information provided by the Client and others, and Arcadis assumes no liability for the accuracy of such data, although in the event of apparent conflicts in information, Arcadis would highlight this and seek to resolve.

16 Unless otherwise stated, the scope of works has not included an environmental compliance review, health and safety compliance review, hazardous building materials assessment, interviews or contacting Local Authority, requests for information to the petroleum officer, sampling or analyses of soil, ground water, surface water, air or hazardous building materials or a chain of title review.

17 Unless otherwise stated, this assessment has considered the ongoing use of the Site and has not been prepared for the purposes of redevelopment which may act as a trigger for Site investigation and remediation works not needed for ongoing use.

Appendix B

Groundsure Report

Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: County Series

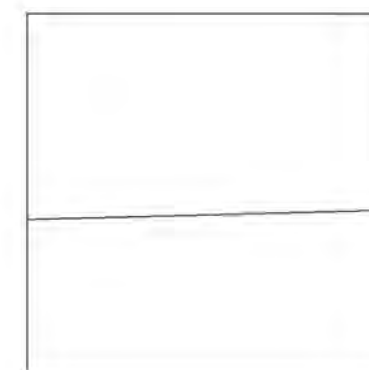
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Surveyed 1866
 Revised 1886
 Edition 1872
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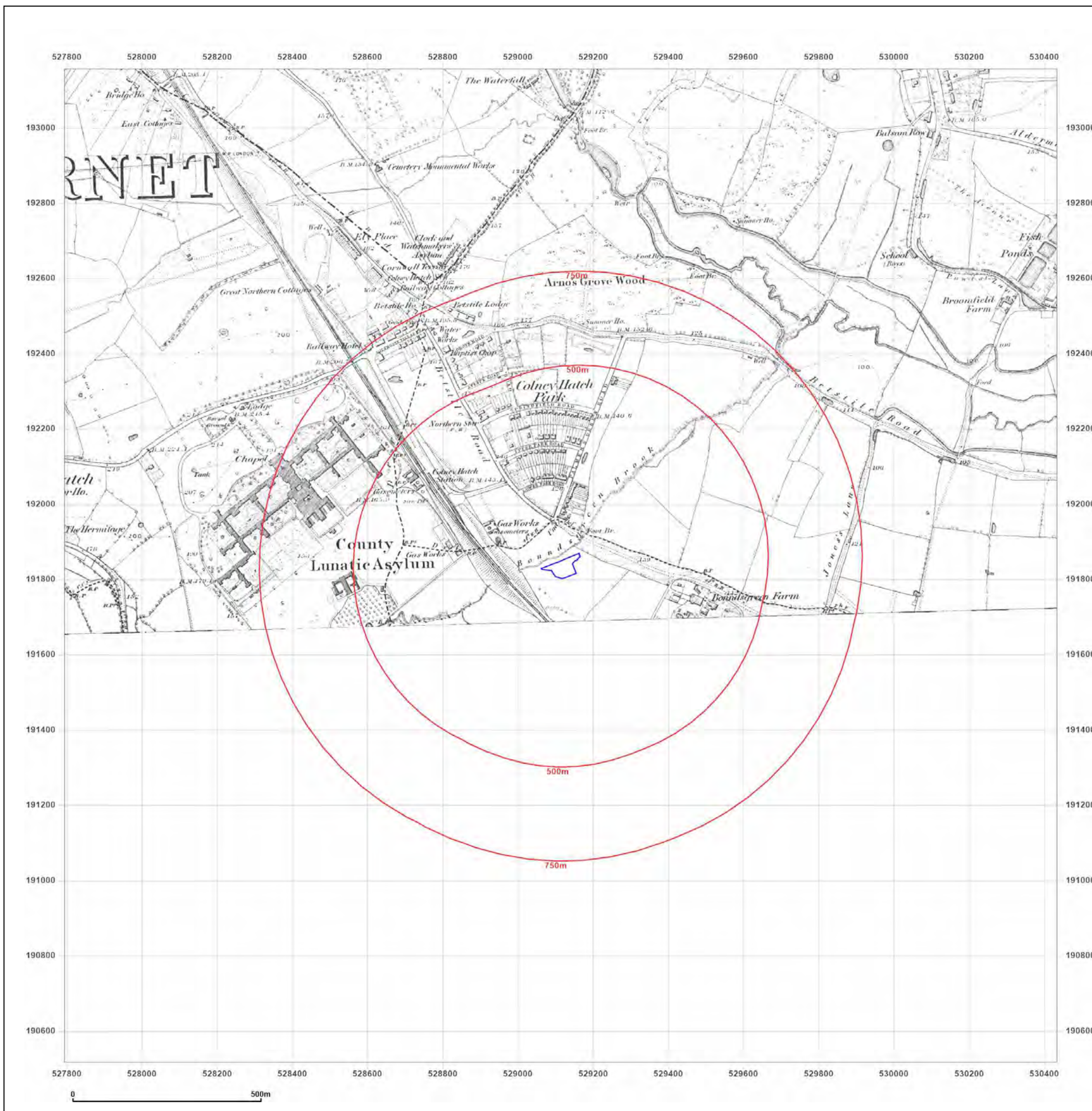


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: County Series

Map date: 1872-1873

Scale: 1:10,560

Printed at: 1:10,560



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 Revised 1864
 Edition 1872
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Surveyed 1869
 Revised 1869
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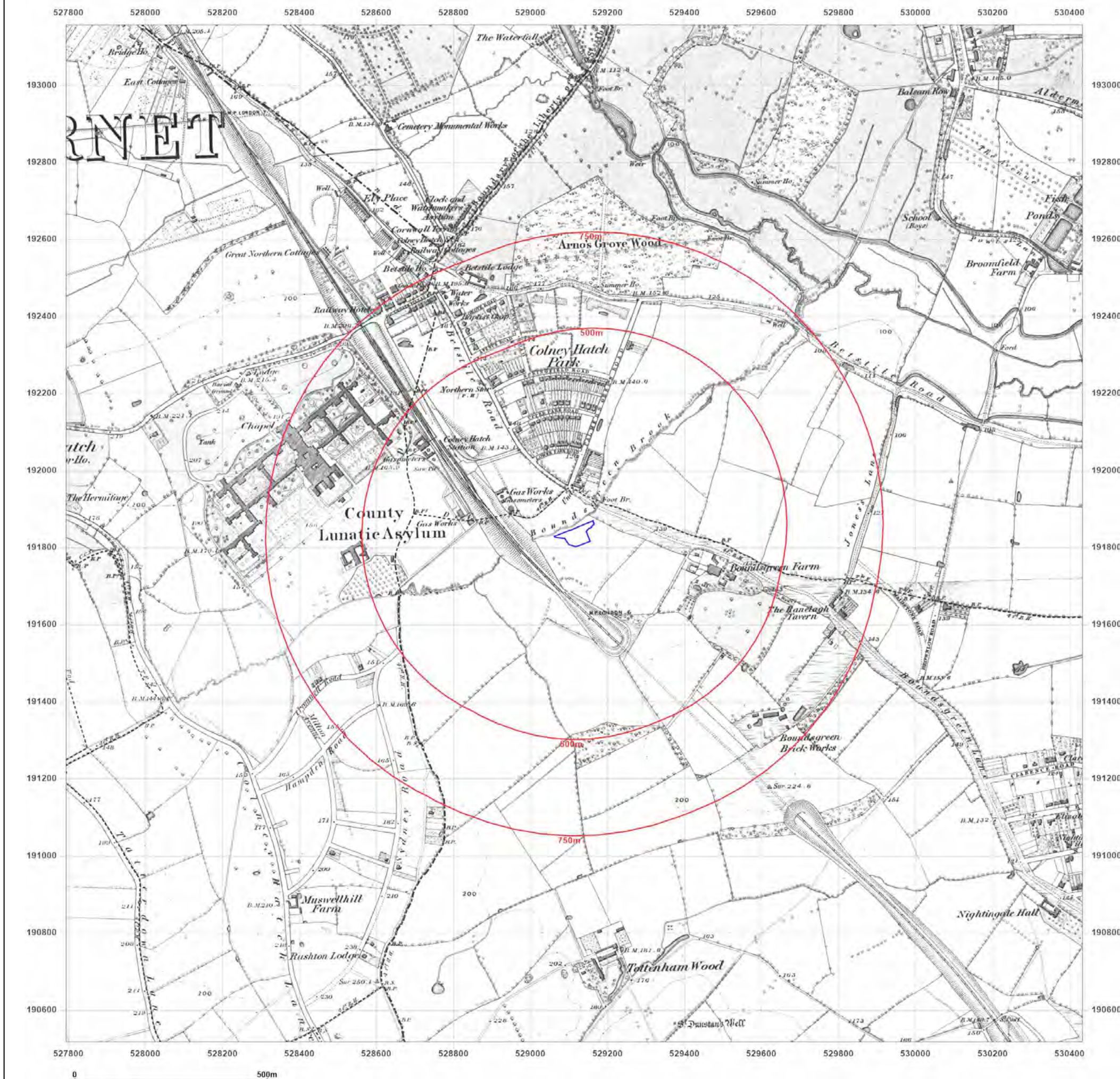


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Site Details:

529125, 191834

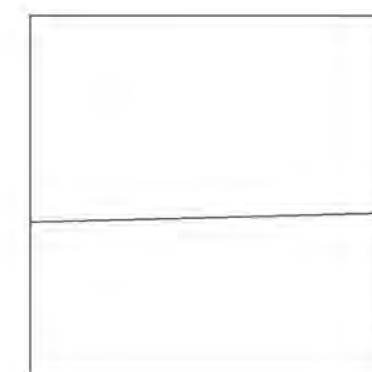
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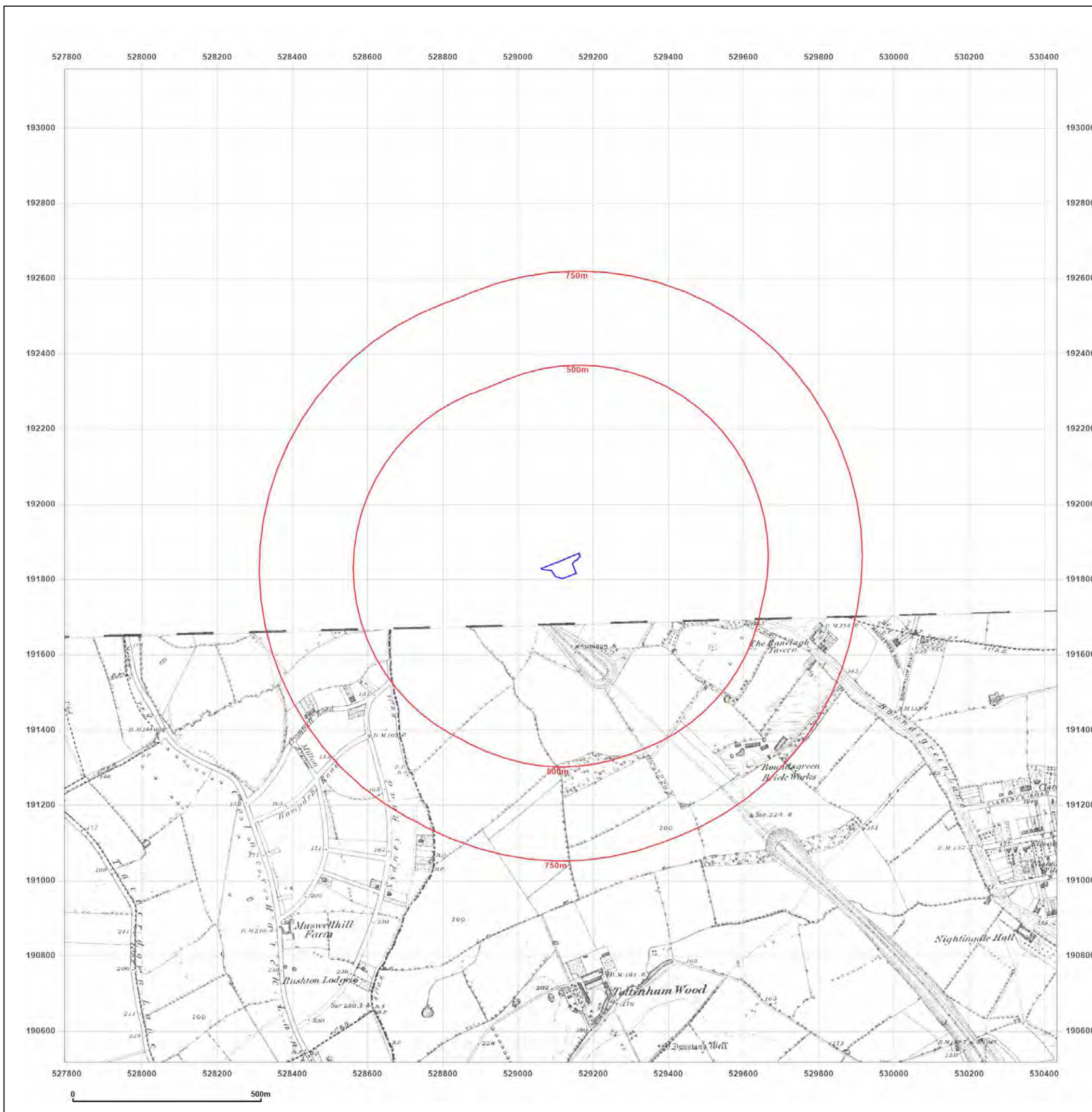


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: County Series

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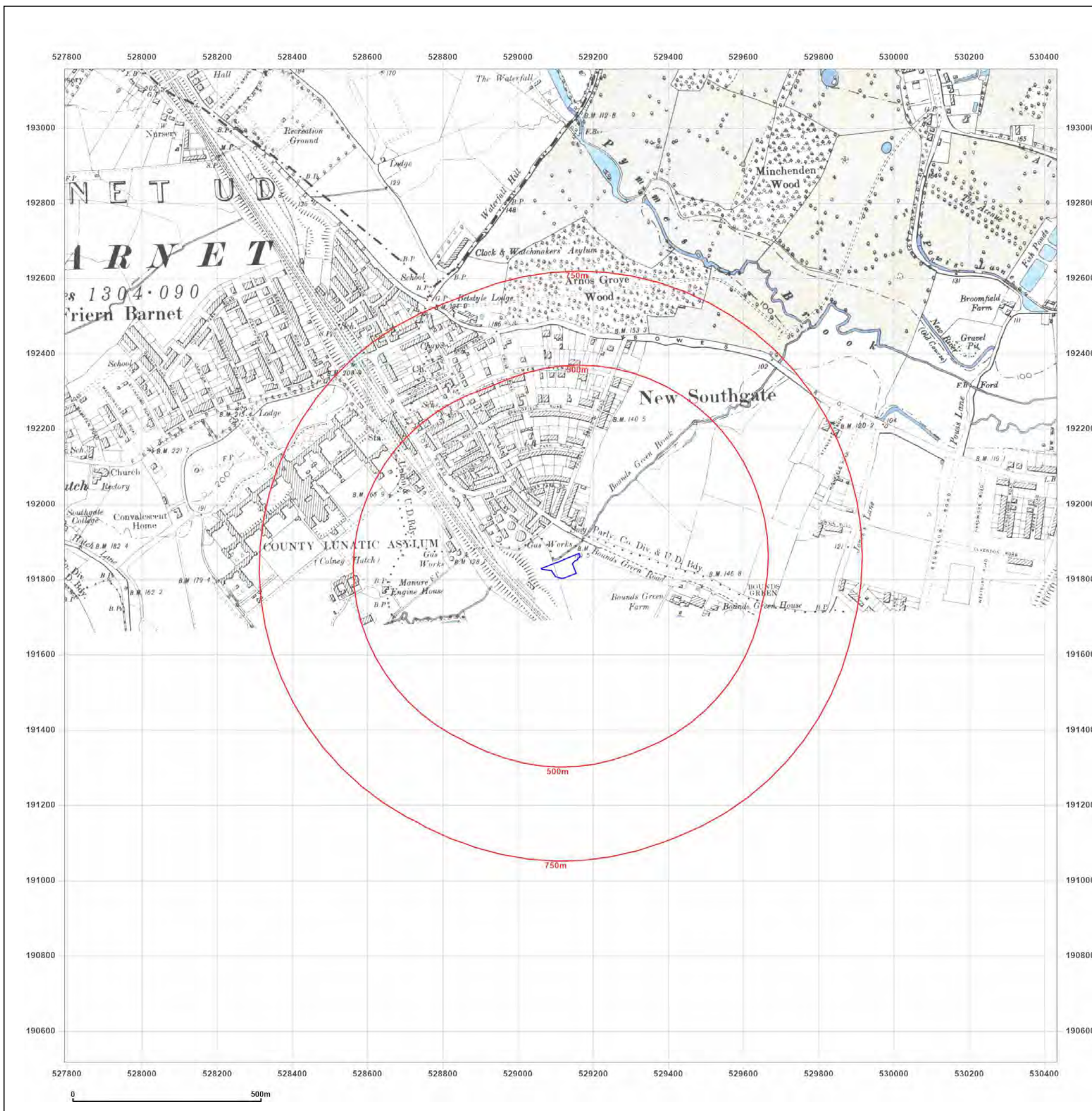


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: County Series

Map date: 1896-1897

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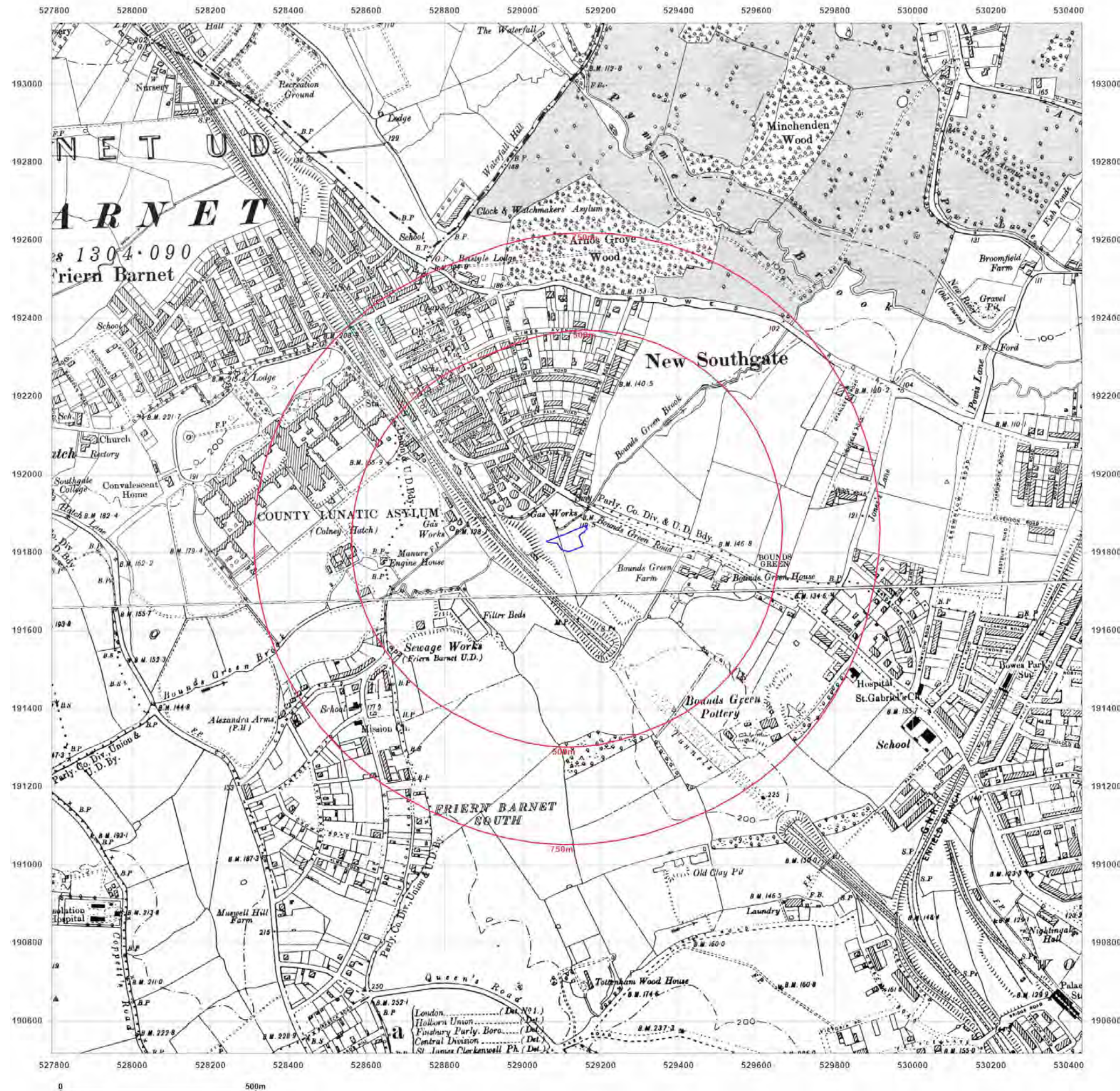


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

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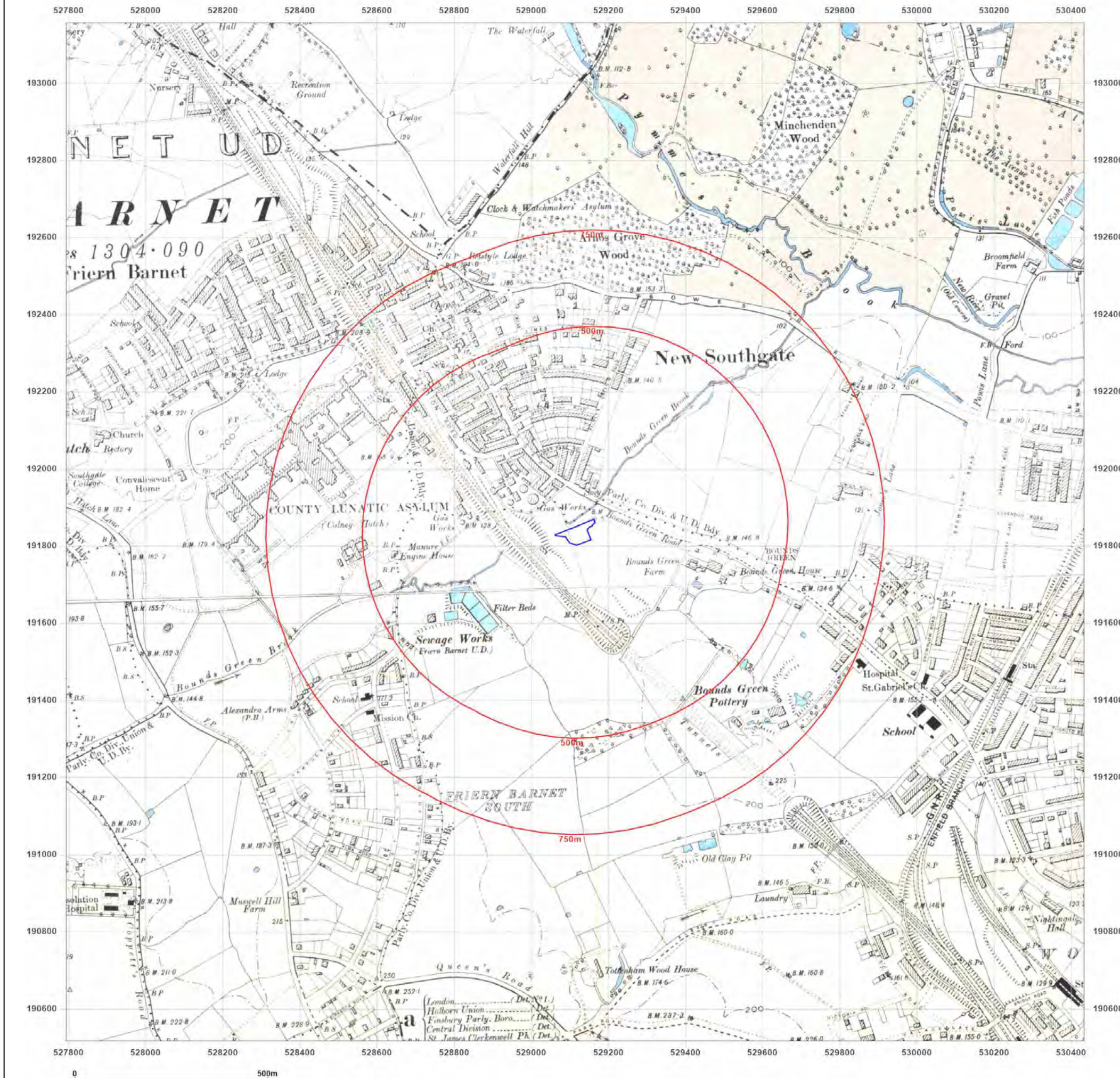


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: County Series

Map date: 1920

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 Edition 1920
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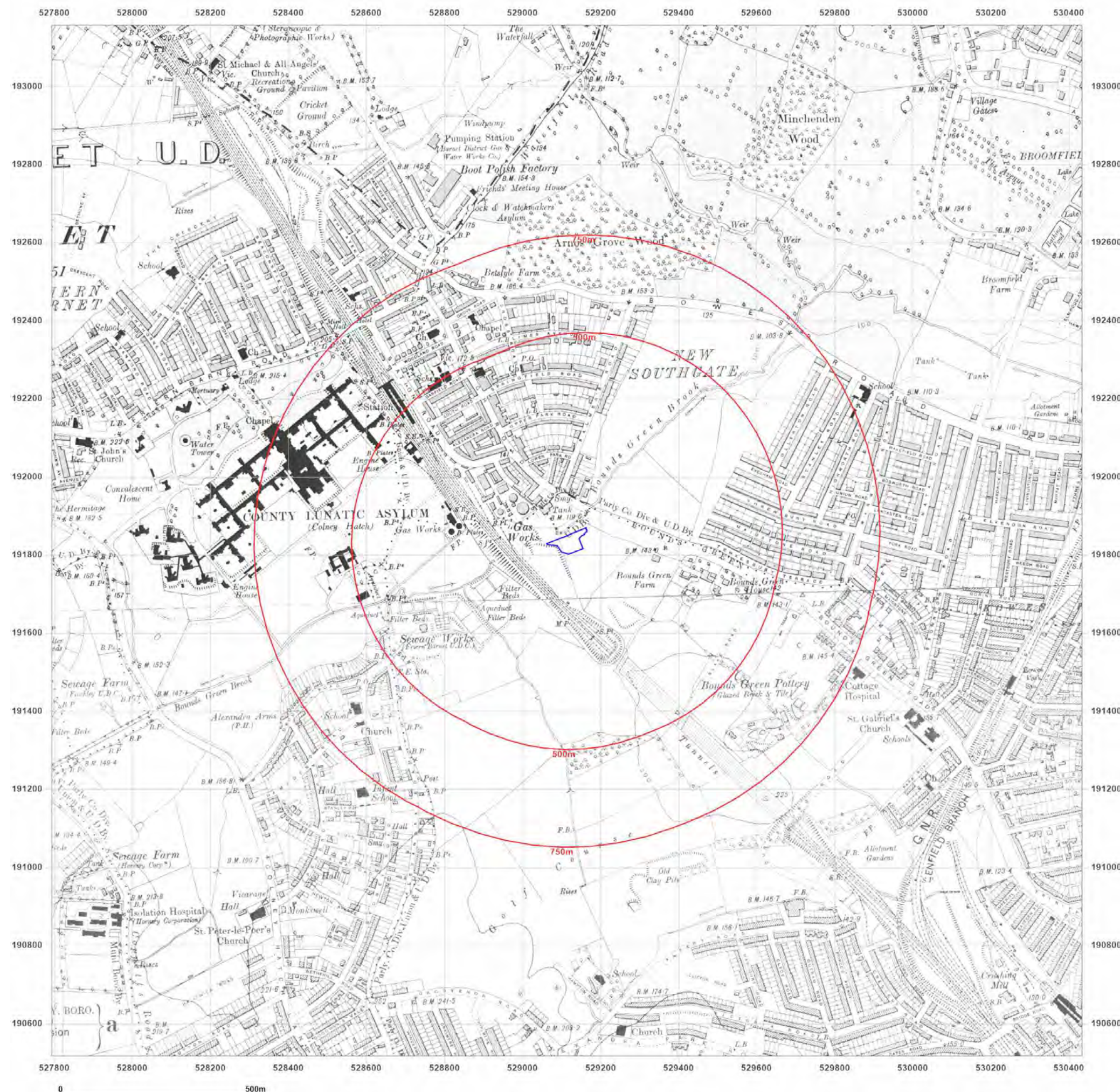


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Site Details:

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Report Ref: GS-9243173
Grid Ref: 529113, 191836

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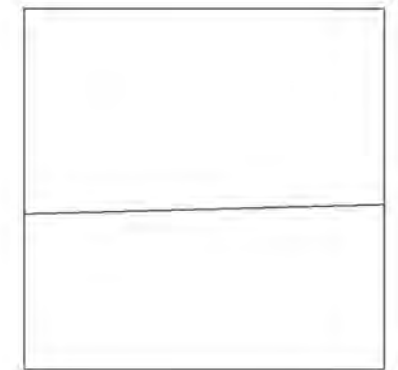
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Site Details:

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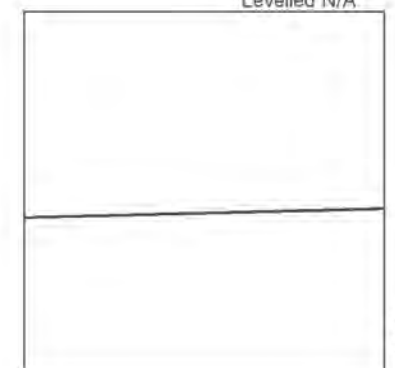
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Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

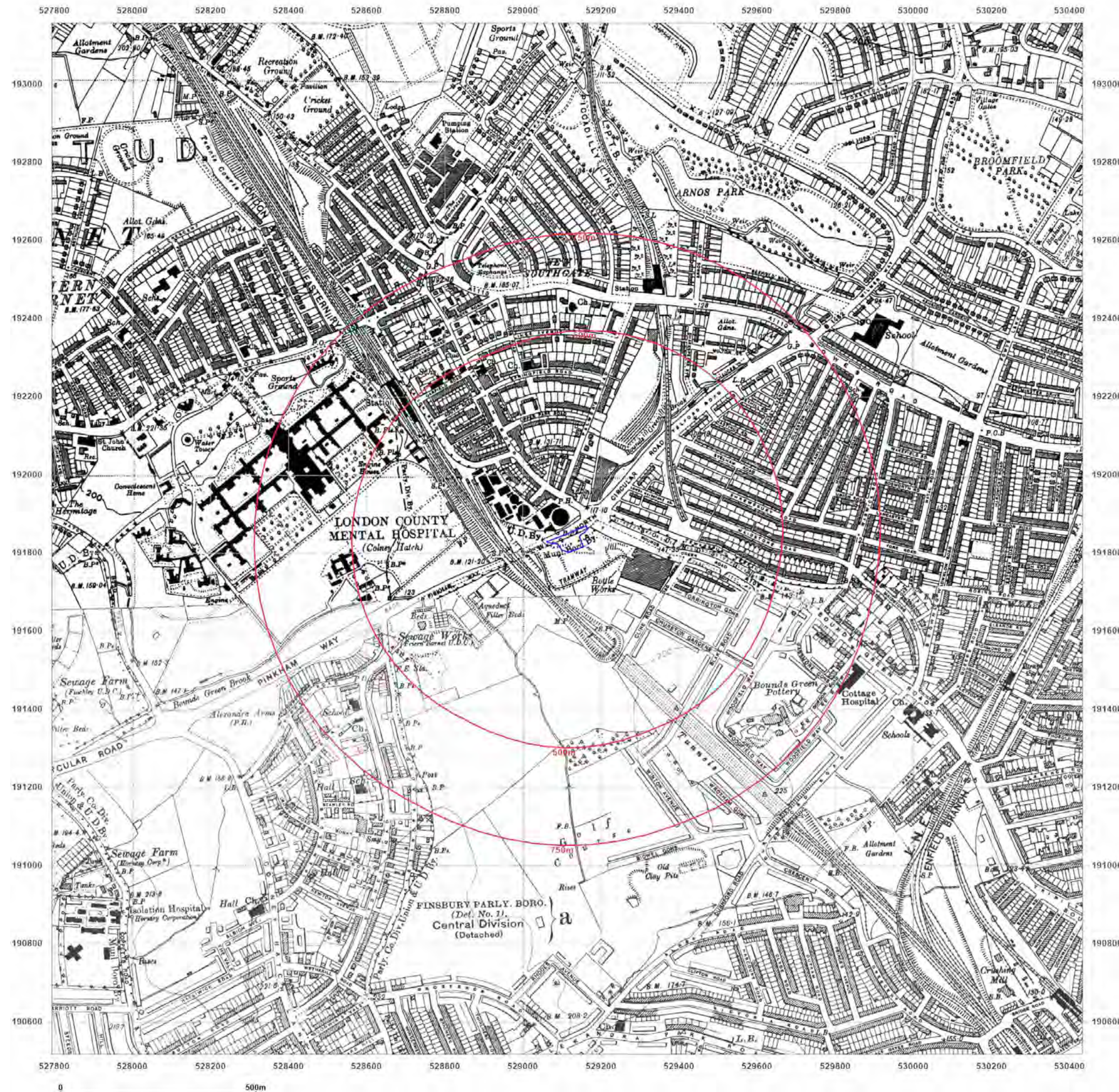


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: County Series

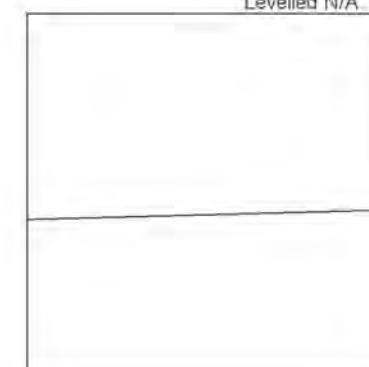
Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1865
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

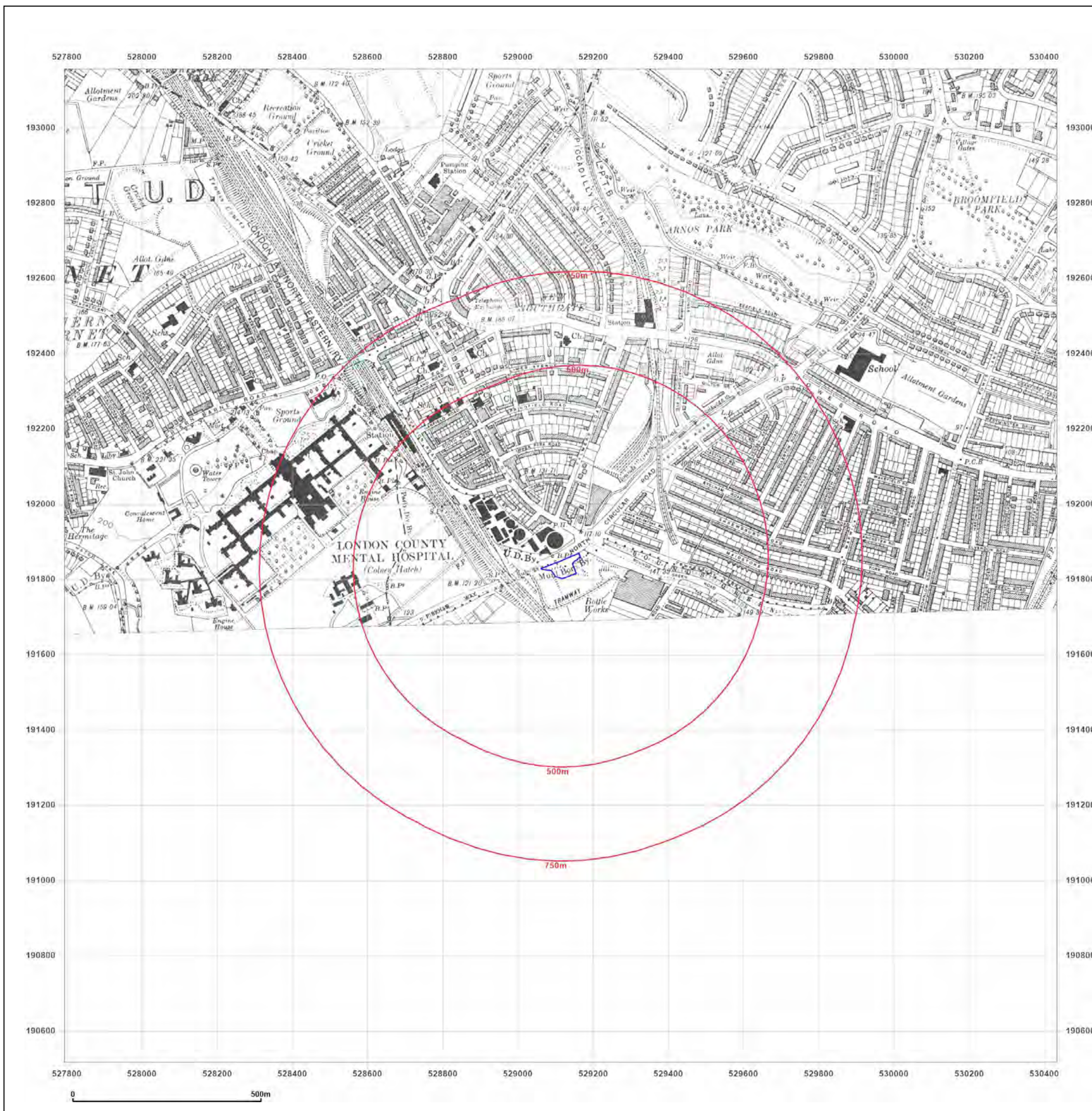


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: Provisional

Map date: 1951-1952

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1951
Edition 1951
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1951
Edition 1952
Copyright N/A
Levelled 1933

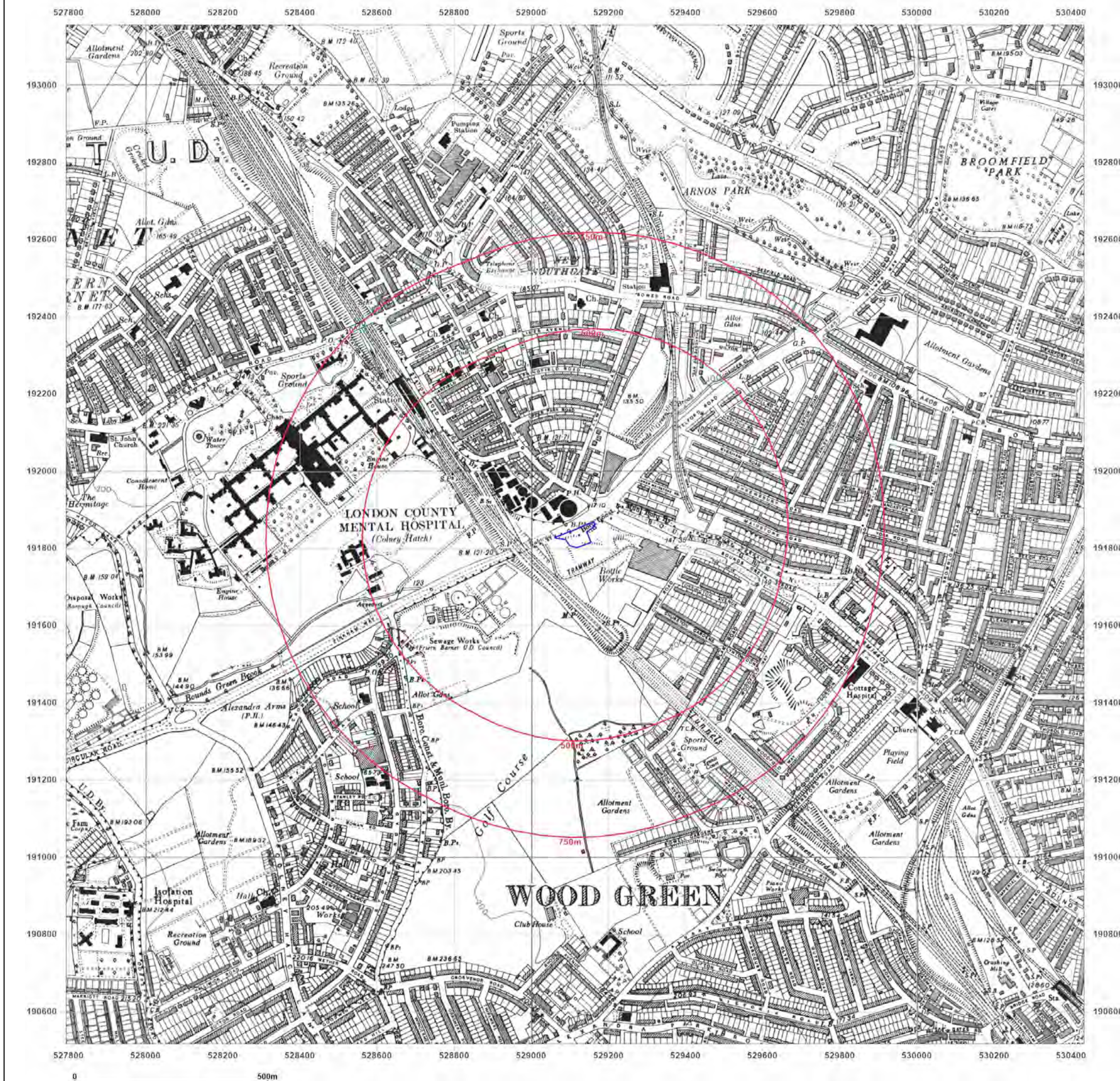


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: National Grid

Map date: 1973-1975

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1972
 Revised 1973
 Edition N/A
 Copyright 1973
 Levelled 1972

Surveyed 1973
 Revised 1974
 Edition N/A
 Copyright 1975
 Levelled 1972

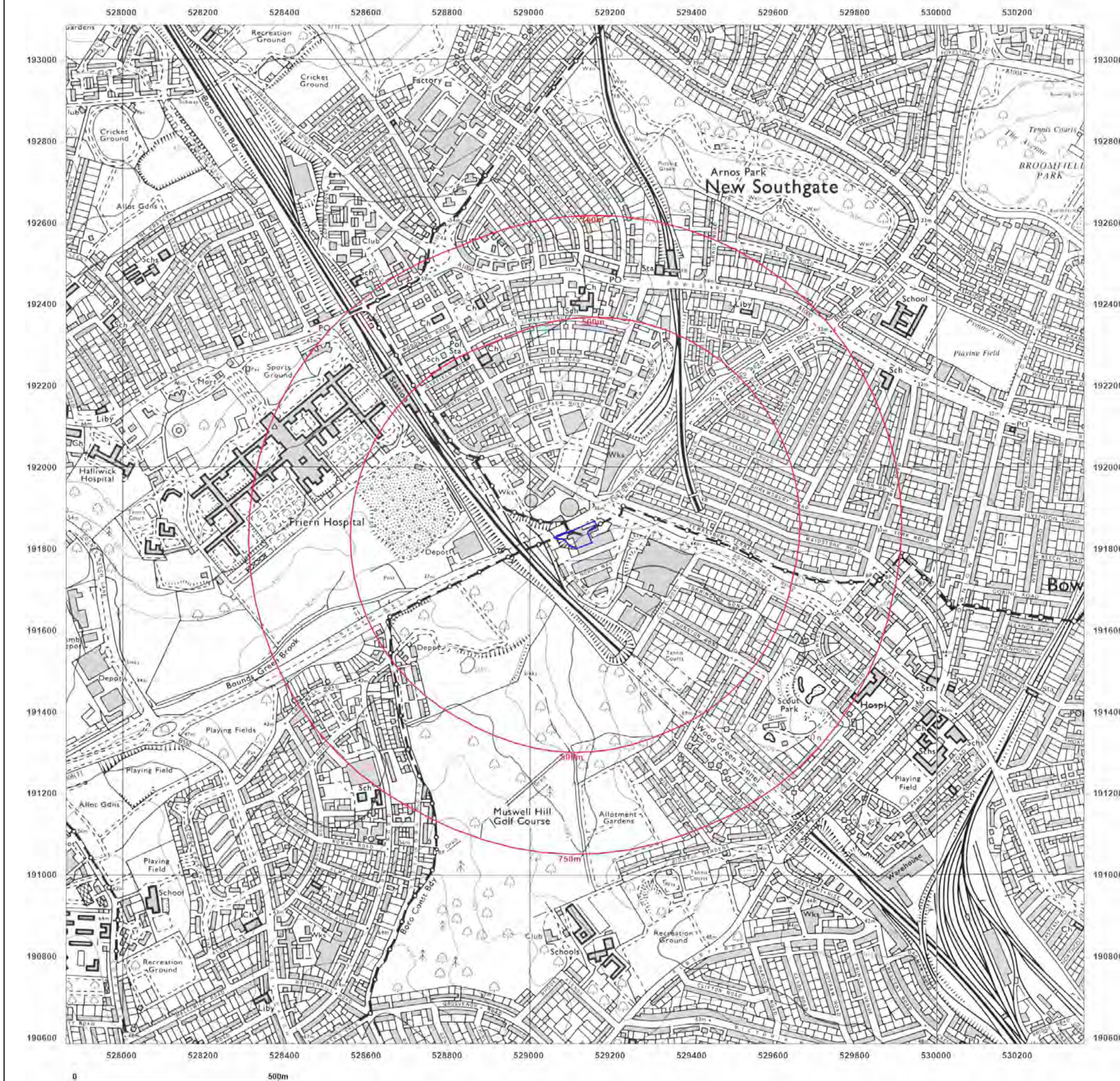


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: National Grid

Map date: 1980-1982

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1980
 Revised 1980
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1973
 Revised 1982
 Edition N/A
 Copyright N/A
 Levelled N/A

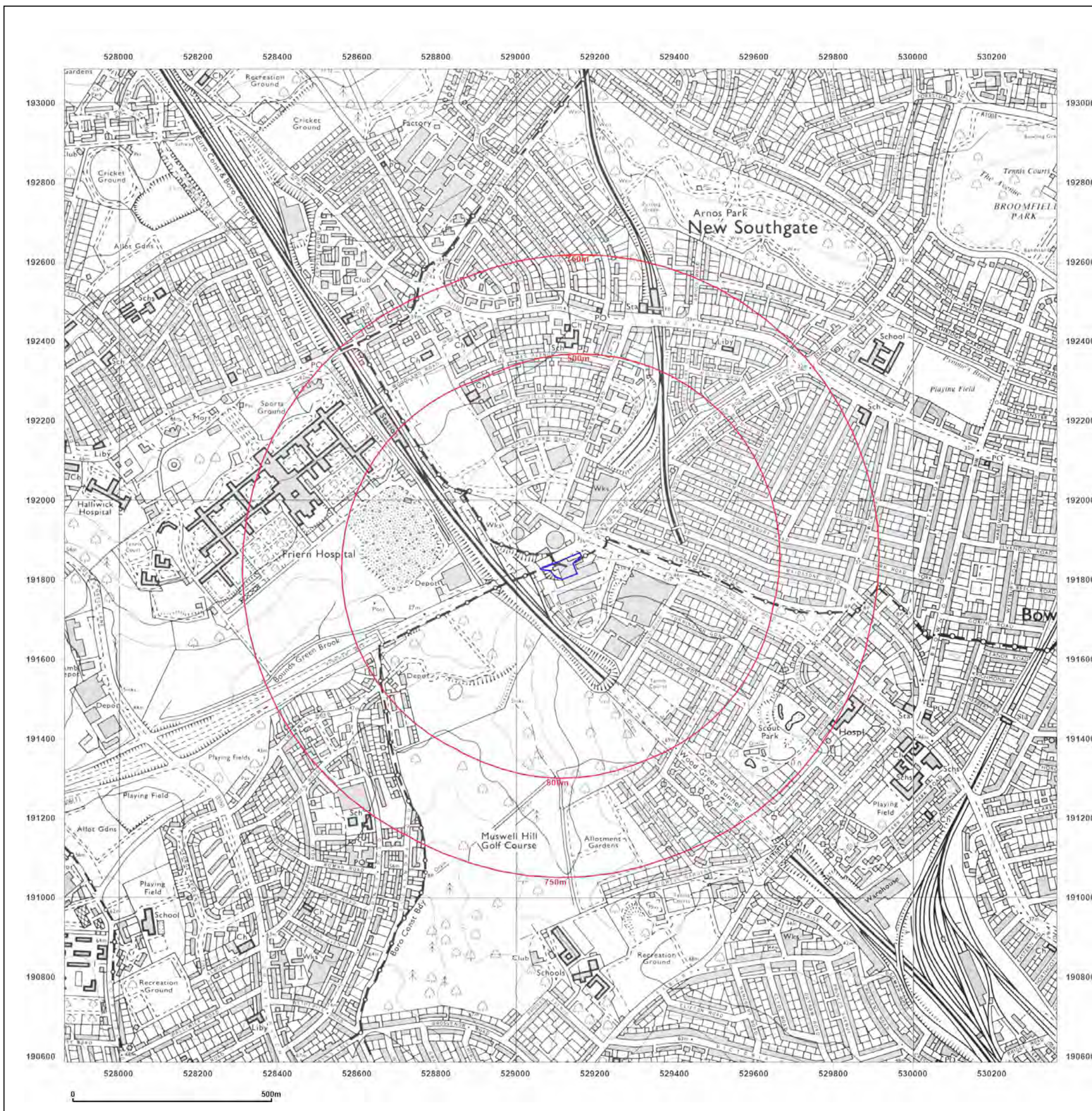


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Production date: 06 December 2022

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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: National Grid

Map date: 1987-1991

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1982
 Revised 1987
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1989
 Revised 1991
 Edition N/A
 Copyright N/A
 Levelled N/A

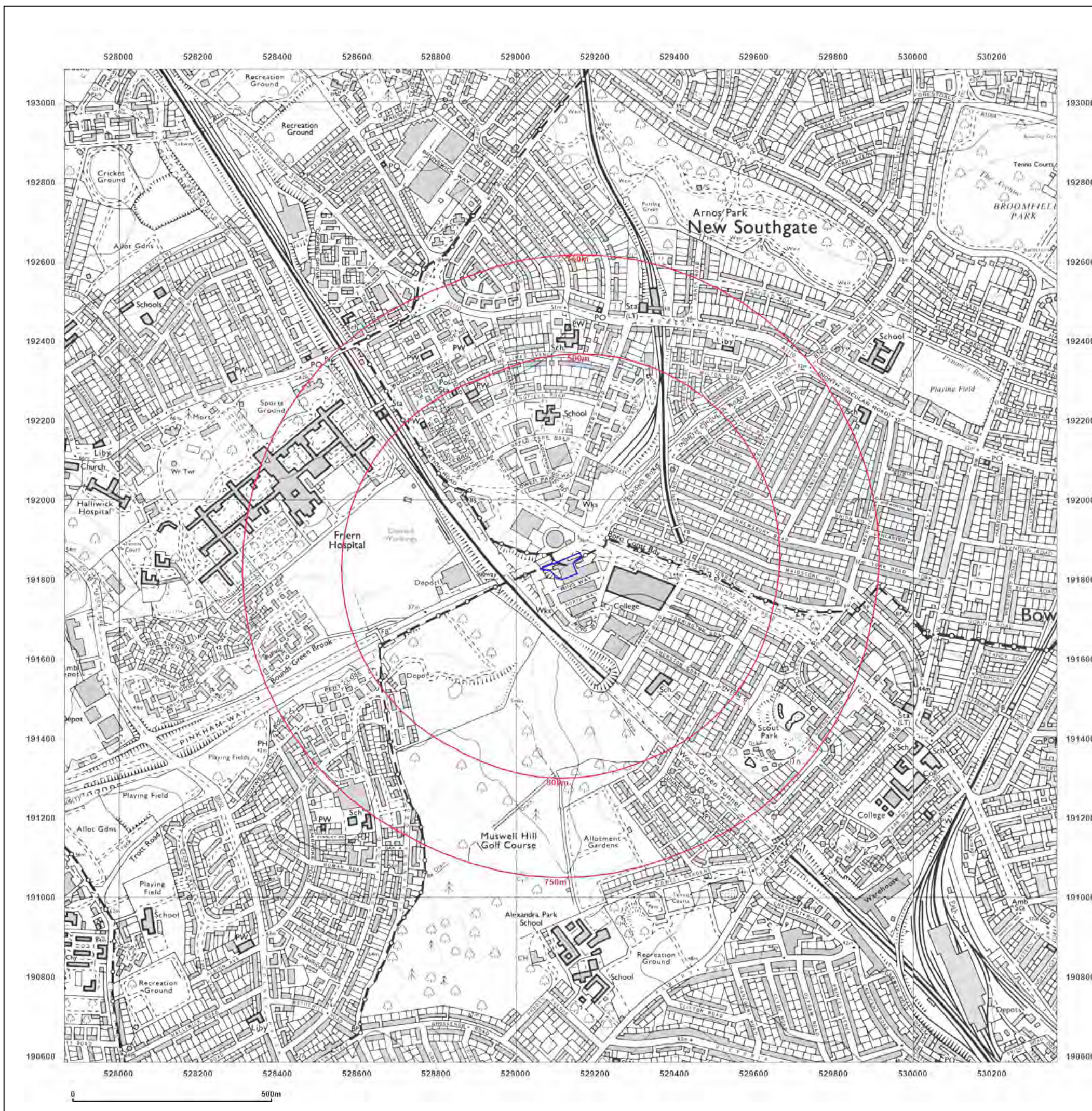


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

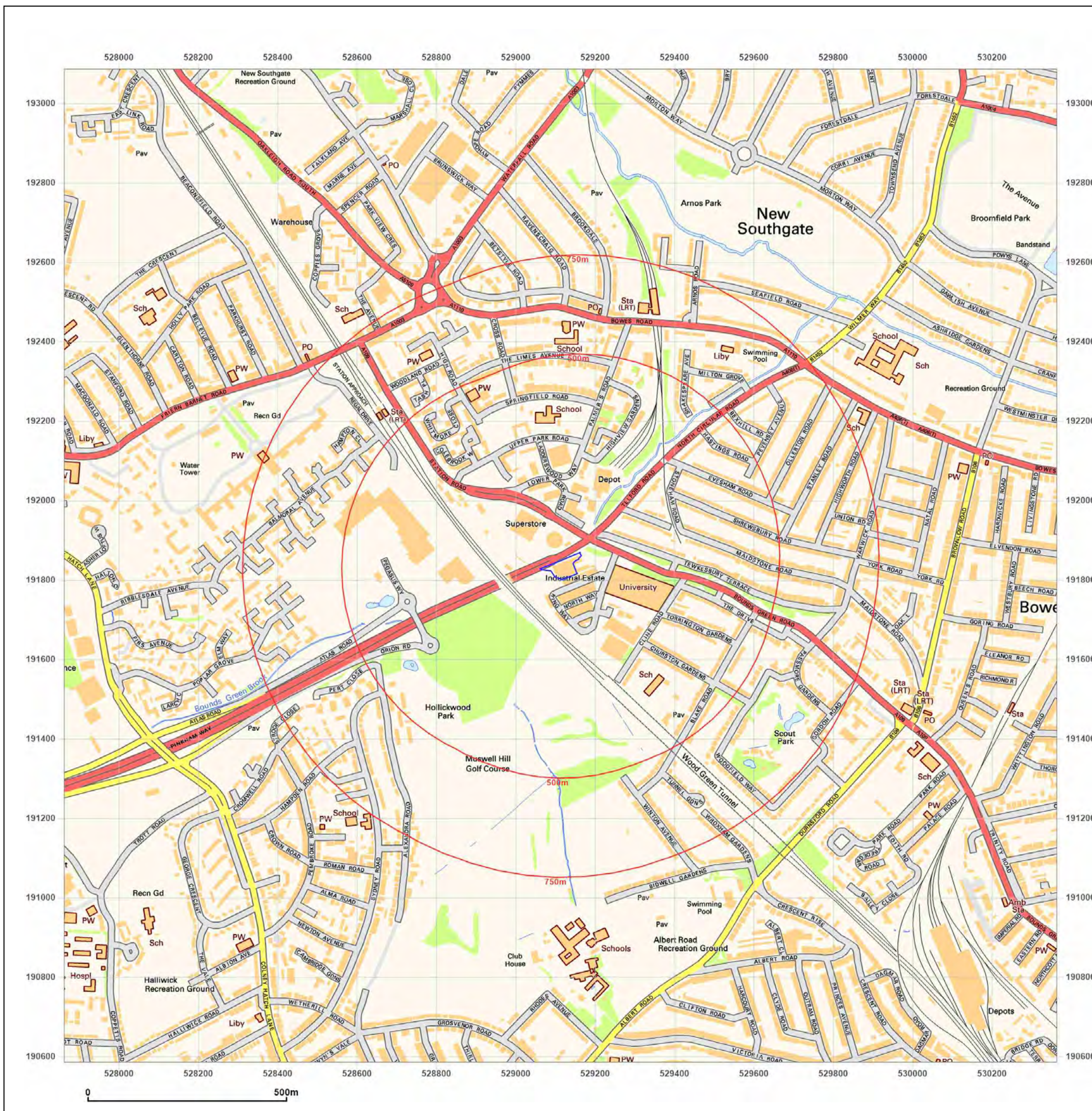


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

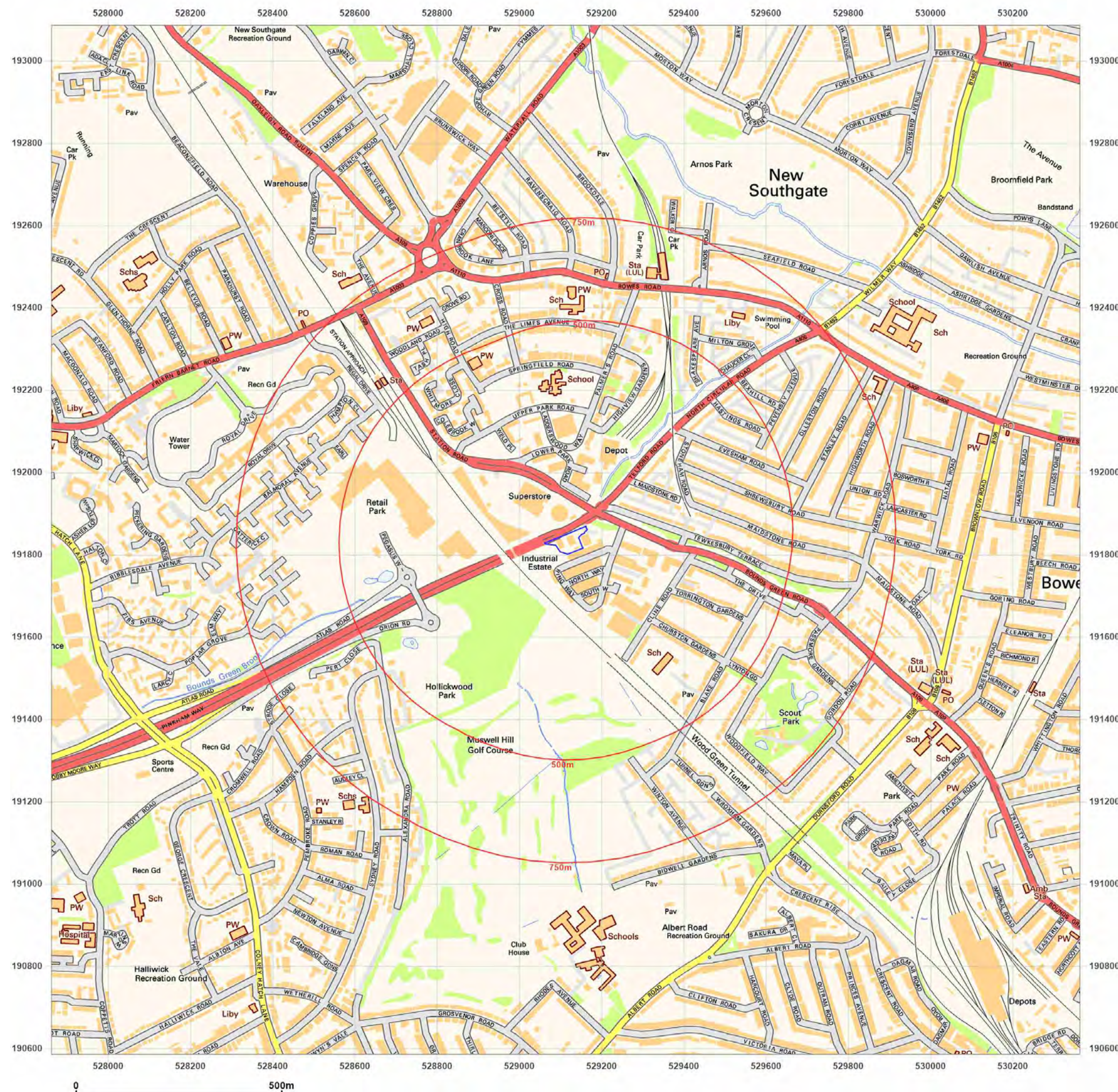


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Site Details:

529125, 191834

Client Ref: 14071085_-_bp_Pinkham_Way
Report Ref: GS-9243173
Grid Ref: 529113, 191836

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000

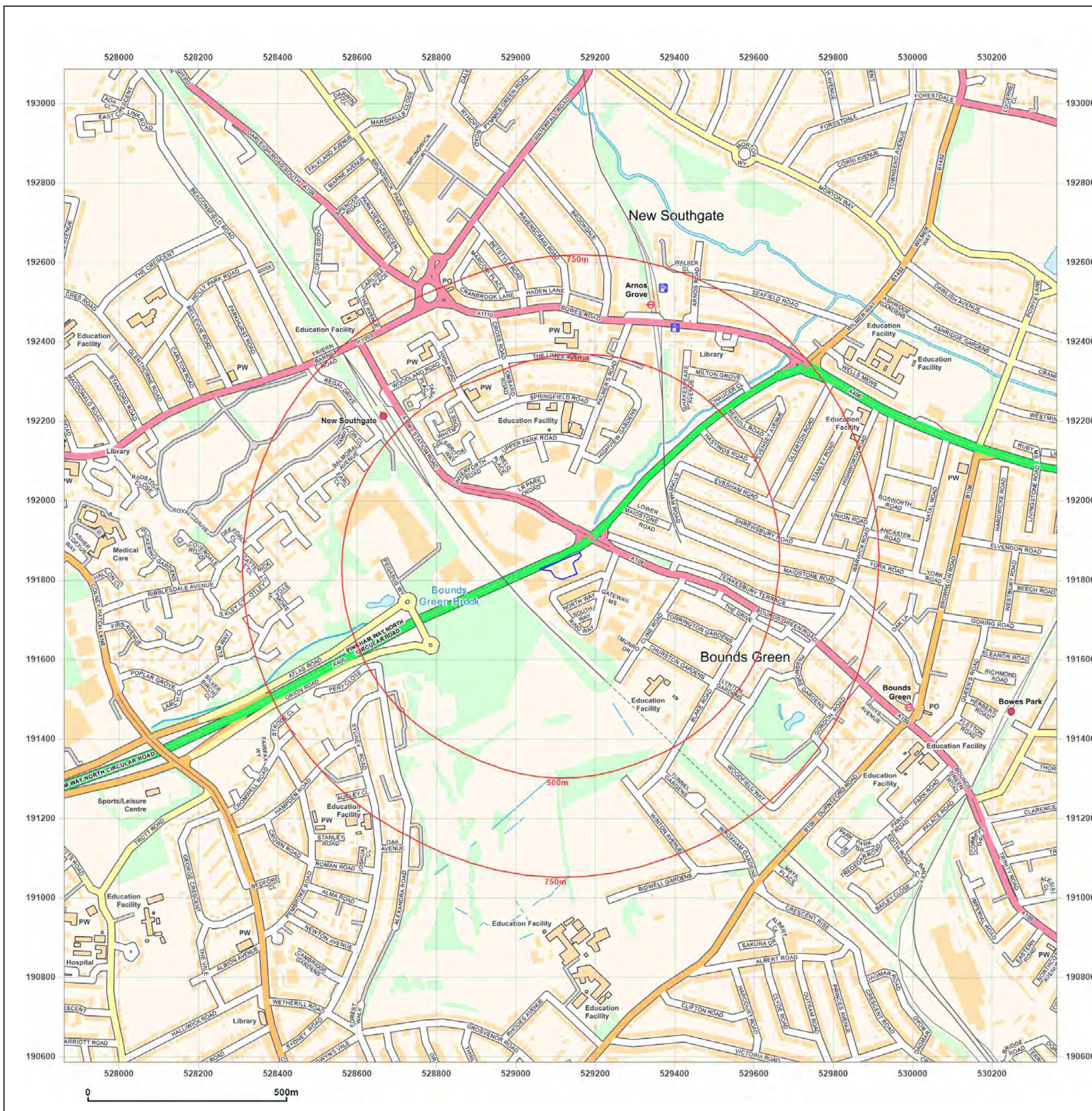


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529125, 191834,

Order Details

Date: 06/12/2022
Your ref: 14071085_-_bp_Pinkham_Way
Our Ref: GS-9243174

Site Details

Location: 529123 191826
Area: 0.3 ha
Authority: [London Borough of Enfield](#), [London Borough of Haringey](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	7	23	101	68	-
22	1.2	Historical tanks	0	9	64	21	-
25	1.3	Historical energy features	0	3	20	13	-
27	1.4	Historical petrol stations	0	0	0	0	-
27	1.5	Historical garages	4	0	1	1	-
28	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
29	2.1	Historical industrial land uses	8	34	145	112	-
40	2.2	Historical tanks	0	18	111	28	-
46	2.3	Historical energy features	0	11	52	33	-
50	2.4	Historical petrol stations	0	0	0	0	-
50	2.5	Historical garages	6	0	4	1	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
52	3.1	Active or recent landfill	0	0	0	0	-
52	3.2	Historical landfill (BGS records)	0	0	0	1	-
53	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
53	3.4	Historical landfill (EA/NRW records)	0	0	2	0	-
54	3.5	Historical waste sites	1	2	0	0	-
55	3.6	Licensed waste sites	0	0	2	0	-
55	3.7	Waste exemptions	0	1	2	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
57	4.1	Recent industrial land uses	1	5	28	-	-
60	4.2	Current or recent petrol stations	1	0	0	0	-
60	4.3	Electricity cables	0	0	0	0	-
60	4.4	Gas pipelines	0	0	0	0	-
60	4.5	Sites determined as Contaminated Land	0	0	0	0	-



60	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	1	0	0	-
61	4.7	Regulated explosive sites	0	0	0	0	-
61	4.8	<u>Hazardous substance storage/usage</u>	0	0	3	0	-
62	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
62	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
62	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	1	1	2	0	-
63	4.12	Radioactive Substance Authorisations	0	0	0	0	-
63	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	2	6	-
64	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
65	4.15	<u>Pollutant release to public sewer</u>	0	0	1	0	-
65	4.16	List 1 Dangerous Substances	0	0	0	0	-
65	4.17	List 2 Dangerous Substances	0	0	0	0	-
65	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	4	4	1	-
67	4.19	Pollution inventory substances	0	0	0	0	-
67	4.20	Pollution inventory waste transfers	0	0	0	0	-
67	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
68	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
69	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
70	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
71	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
71	5.5	Groundwater vulnerability- local information	None (within 0m)				
72	5.6	<u>Groundwater abstractions</u>	0	0	0	0	13
75	5.7	Surface water abstractions	0	0	0	0	0
76	5.8	<u>Potable abstractions</u>	0	0	0	0	11
78	5.9	Source Protection Zones	0	0	0	0	-
78	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
79	6.1	<u>Water Network (OS MasterMap)</u>	1	2	1	-	-



80	6.2	<u>Surface water features</u>	0	0	1	-	-
80	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
81	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
81	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
82	7.1	<u>Risk of flooding from rivers and the sea</u>	High (within 50m)				
83	7.2	Historical Flood Events	0	0	0	-	-
83	7.3	Flood Defences	0	0	0	-	-
83	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
83	7.5	Flood Storage Areas	0	0	0	-	-
84	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
85	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
86	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
88	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
89	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
90	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
90	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
90	10.4	Special Protection Areas (SPA)	0	0	0	0	0
90	10.5	National Nature Reserves (NNR)	0	0	0	0	0
91	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	4
91	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	2
91	10.8	Biosphere Reserves	0	0	0	0	0
92	10.9	Forest Parks	0	0	0	0	0
92	10.10	Marine Conservation Zones	0	0	0	0	0
92	10.11	Green Belt	0	0	0	0	0
92	10.12	Proposed Ramsar sites	0	0	0	0	0



92	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
93	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
93	10.15	Nitrate Sensitive Areas	0	0	0	0	0
93	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	0	0
94	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
95	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
96	11.1	World Heritage Sites	0	0	0	-	-
96	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
96	11.3	National Parks	0	0	0	-	-
96	11.4	Listed Buildings	0	0	0	-	-
97	11.5	Conservation Areas	0	0	0	-	-
97	11.6	Scheduled Ancient Monuments	0	0	0	-	-
97	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
98	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
99	12.2	<u>Open Access Land</u>	0	2	0	-	-
99	12.3	<u>Tree Felling Licences</u>	0	0	2	-	-
99	12.4	Environmental Stewardship Schemes	0	0	0	-	-
100	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
101	13.1	<u>Priority Habitat Inventory</u>	0	0	11	-	-
102	13.2	Habitat Networks	0	0	0	-	-
102	13.3	Open Mosaic Habitat	0	0	0	-	-
102	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
104	14.1	<u>10k Availability</u>	Identified (within 500m)				
105	14.2	<u>Artificial and made ground (10k)</u>	0	0	4	0	-
107	14.3	<u>Superficial geology (10k)</u>	0	1	0	1	-



108	14.4	Landslip (10k)	0	0	0	0	-
109	14.5	<u>Bedrock geology (10k)</u>	1	0	0	0	-
110	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
111	15.1	<u>50k Availability</u>	Identified (within 500m)				
112	15.2	<u>Artificial and made ground (50k)</u>	0	0	4	0	-
113	15.3	Artificial ground permeability (50k)	0	0	-	-	-
114	15.4	<u>Superficial geology (50k)</u>	0	1	0	1	-
115	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
115	15.6	Landslip (50k)	0	0	0	0	-
115	15.7	Landslip permeability (50k)	None (within 50m)				
116	15.8	<u>Bedrock geology (50k)</u>	1	0	0	0	-
117	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
117	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
118	16.1	<u>BGS Boreholes</u>	0	7	23	-	-
Page	Section	Natural ground subsidence					
120	17.1	<u>Shrink swell clays</u>	Moderate (within 50m)				
121	17.2	<u>Running sands</u>	Very low (within 50m)				
122	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
123	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
124	17.5	<u>Landslides</u>	Low (within 50m)				
126	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
128	18.1	Natural cavities	0	0	0	0	-
129	18.2	BritPits	0	0	0	0	-
129	18.3	<u>Surface ground workings</u>	7	3	28	-	-
130	18.4	<u>Underground workings</u>	0	0	0	11	0
131	18.5	Historical Mineral Planning Areas	0	0	0	0	-



131	18.6	Non-coal mining	0	0	0	0	0
132	18.7	Mining cavities	0	0	0	0	0
132	18.8	JPB mining areas	None (within 0m)				
132	18.9	Coal mining	None (within 0m)				
132	18.10	Brine areas	None (within 0m)				
132	18.11	Gypsum areas	None (within 0m)				
133	18.12	Tin mining	None (within 0m)				
133	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>134</u>	<u>19.1</u>	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>135</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	1	1	-	-	-
<u>135</u>	<u>20.2</u>	<u>BGS Estimated Urban Soil Chemistry</u>	2	6	-	-	-
136	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
<u>137</u>	<u>21.1</u>	<u>Underground railways (London)</u>	0	0	1	-	-
138	21.2	Underground railways (Non-London)	0	0	0	-	-
138	21.3	Railway tunnels	0	0	0	-	-
<u>138</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	0	20	62	-	-
141	21.5	Royal Mail tunnels	0	0	0	-	-
141	21.6	Historical railways	0	0	0	-	-
<u>142</u>	<u>21.7</u>	<u>Railways</u>	0	0	10	-	-
142	21.8	Crossrail 1	0	0	0	0	-
<u>142</u>	<u>21.9</u>	<u>Crossrail 2</u>	1	0	2	0	-
143	21.10	HS2	0	0	0	0	-



Recent aerial photograph



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Capture Date: 14/06/2021

Site Area: 0.3ha



Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 6 December 2022

Recent site history - 2019 aerial photograph



Capture Date: 22/08/2019

Site Area: 0.3ha



Recent site history - 2016 aerial photograph



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Capture Date: 12/08/2016

Site Area: 0.3ha



Recent site history - 2013 aerial photograph



Capture Date: 28/04/2013

Site Area: 0.3ha



Recent site history - 1999 aerial photograph

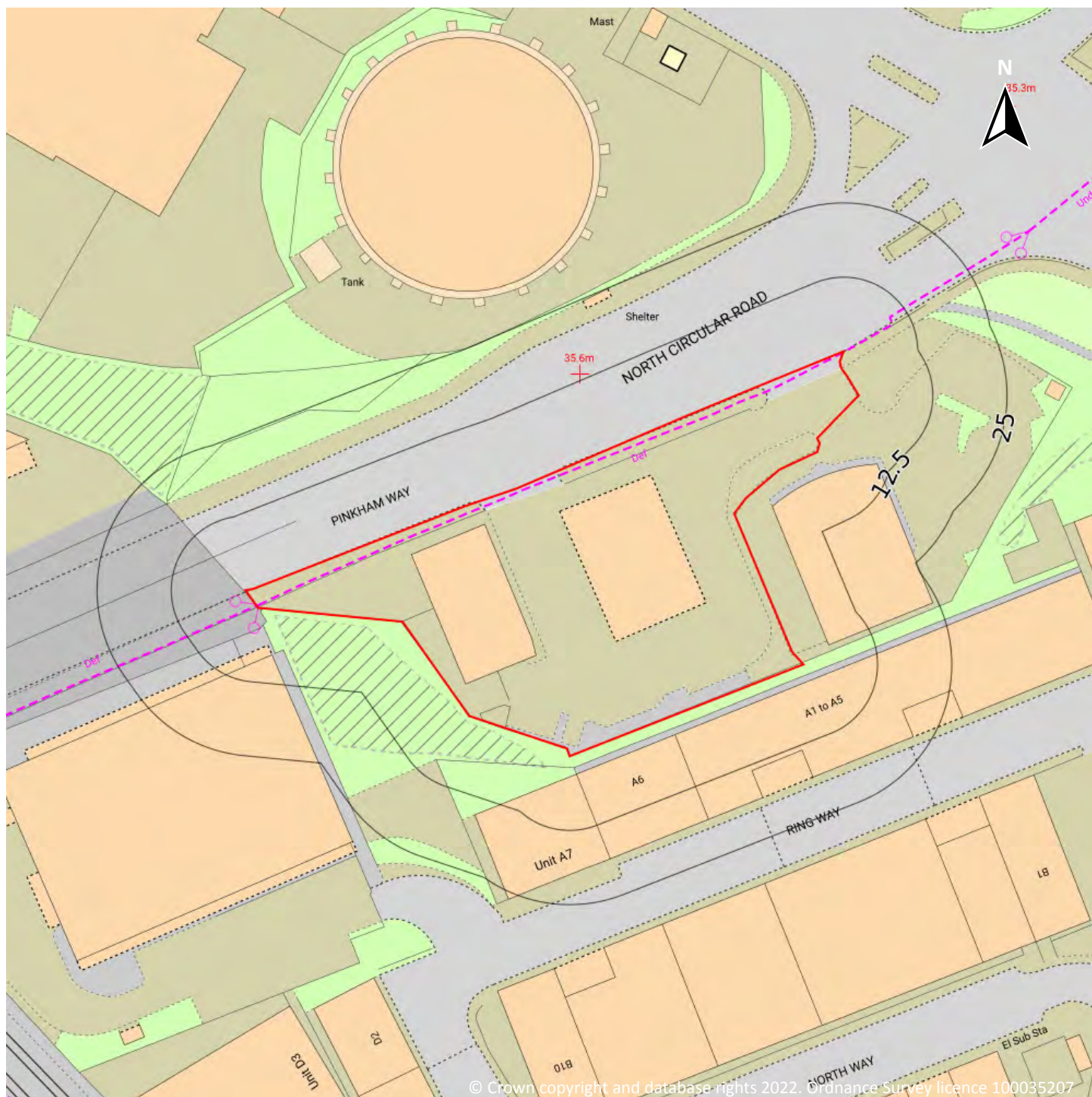


Capture Date: 04/09/1999

Site Area: 0.3ha



OS MasterMap site plan



Site Area: 0.3ha



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- Site Outline
- Search buffers in metres (m)
-  Historical industrial land uses
 -  Historical tanks
 -  Historical energy features
 -  Historical garages

14

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Pit	1938 - 1951	2202350
A	On site	Unspecified Ground Workings	1962	2202611
A	On site	Unspecified Ground Workings	1920	2219555
A	On site	Unspecified Ground Workings	1938	2225371
A	On site	Unspecified Ground Workings	1912	2247758
A	On site	Unspecified Ground Workings	1938	2250913
A	0m S	Unspecified Ground Workings	1938	2227616
A	1m W	Railway Sidings	1864 - 1980	2227533
A	7m SW	Unspecified Works	1987	2159786
A	9m N	Unspecified Tank	1912 - 1920	2186185
A	11m W	Mineral Railway Sidings	1962	2164028
A	11m W	Railway Sidings	1962	2204512
A	17m NW	Unspecified Tank	1938	2257087
A	17m NW	Unspecified Commercial/Industrial	1938 - 1951	2254180
A	18m W	Unspecified Ground Workings	1895	2252610
A	20m W	Unspecified Commercial/Industrial	1987	2238109
A	25m NW	Unspecified Tank	1938	2279236
A	25m W	Railway Sidings	1938	2237048
A	25m W	Tramway Sidings	1938	2269004
A	25m W	Railway Sidings	1912 - 1920	2282420
A	25m N	Unspecified Commercial/Industrial	1962	2226957
A	25m NW	Unspecified Works	1973 - 1980	2208597
A	26m W	Tramway Sidings	1938 - 1951	2248956
A	28m NW	Gas Works	1912	2181867
A	28m NW	Gas Works	1920	2227871
A	34m N	Unspecified Tank	1938 - 1987	2242420
A	40m W	Railway Sidings	1938	2257430
B	42m E	Unspecified Ground Workings	1938	2218394



ID	Location	Land use	Dates present	Group ID
A	49m SW	Railway Building	1973 - 1980	2282321
A	53m SW	Railway Sidings	1951	2177632
B	55m E	Unspecified Heap	1951	2136480
A	55m W	Railway Building	1920	2149050
C	58m NE	Smithy	1895	2172554
C	59m NE	Unspecified Works	1973 - 1980	2291436
A	63m NW	Unspecified Tanks	1951 - 1962	2204926
C	64m NE	Unspecified Works	1987	2200193
A	68m SW	Railway Land	1897	2141015
C	71m NE	Unspecified Works	1962	2176590
A	72m SW	Railway Sidings	1898	2293732
B	73m E	Refuse Heap	1962	2158744
C	77m N	Smithy	1897 - 1920	2198035
A	78m NW	Gas Works	1897 - 1898	2190217
C	79m N	Smithy	1898	2189729
A	81m NW	Unspecified Tank	1973 - 1980	2223805
D	83m S	Railway Building	1973 - 1980	2189926
A	85m NW	Unspecified Tank	1938	2284677
A	87m NW	Gas Works	1895	2204170
A	93m NW	Gasometer	1912 - 1920	2244666
A	93m NW	Unspecified Tank	1938	2262611
A	93m NW	Gasometer	1895	2232133
A	96m NW	Gasometers	1897 - 1898	2170716
E	96m SE	Bottle Works	1938 - 1951	2293421
A	96m W	Gas Works	1864	2180453
A	98m W	Gas Works	1864 - 1866	2241829
E	104m SE	Bottle Works	1938	2192347
F	105m W	Railway Sidings	1895	2183207



ID	Location	Land use	Dates present	Group ID
G	112m S	Railway Sidings	1938	2269140
E	112m SE	Unspecified Works	1962	2159805
G	114m S	Railway Buildings	1894	2163510
G	115m S	Railway Sidings	1920	2279430
A	116m W	Railway Sidings	1897	2171053
G	118m S	Cuttings	1879	2191351
G	118m S	Cuttings	1869	2254582
E	120m E	Unspecified Commercial/Industrial	1973 - 1980	2244120
H	120m SW	Sewage Works	1912	2220249
H	120m SW	Sewage Works	1920	2273096
E	120m SE	Unspecified Commercial/Industrial	1987	2229738
D	120m S	Railway Building	1920	2149015
G	121m S	Cuttings	1911	2170106
G	121m S	Cuttings	1894	2189279
H	124m SW	Unspecified Works	1962	2159784
H	124m SW	Sewage Works	1951	2250133
A	126m NW	Unspecified Tank	1938	2182054
A	126m W	Gasometer	1864	2173345
A	129m W	Gasometers	1864 - 1866	2287706
E	129m SE	Unspecified Factory	1962	2150973
G	132m S	Cuttings	1938	2220114
A	133m NW	Gasometer	1895	2275631
A	133m NW	Gasometer	1912 - 1920	2214601
A	134m NW	Gasometer	1895	2286719
G	134m S	Cuttings	1962 - 1987	2290722
A	135m NW	Gasometer	1897 - 1898	2245933
H	136m SW	Filter Beds	1920	2208444
H	136m SW	Filter Beds	1912	2295003



ID	Location	Land use	Dates present	Group ID
A	137m NW	Unspecified Tank	1912 - 1920	2243269
G	138m S	Cuttings	1920	2199354
H	140m SW	Unspecified Tanks	1951 - 1962	2169675
G	144m S	Cuttings	1951	2287245
E	148m SE	Unspecified Works	1962	2159785
E	149m SE	Unspecified Pit	1894	2203480
E	149m SE	Unspecified Pit	1911	2207013
1	152m W	Unspecified Depot	1973 - 1987	2273870
E	163m SE	Unspecified Pit	1920	2207188
A	166m NW	Gasometer	1864	2139859
A	167m NW	Unspecified Tank	1864 - 1866	2210347
E	169m SE	Unspecified Tank	1962	2154678
A	187m NW	Railway Building	1938 - 1951	2293151
A	203m W	Gas Works	1864 - 1866	2261611
A	204m W	Gas Works	1864	2208181
A	207m W	Gas Works	1912 - 1920	2289138
I	207m W	Mental Hospital	1938 - 1951	2237381
I	208m W	Mental Hospital	1938	2169178
A	208m W	Gas Works	1897	2271730
A	210m W	Gas Works	1898	2185259
I	210m W	Hospital	1962	2231118
A	210m W	Gas Works	1895	2262181
J	215m NE	Railway Sidings	1951	2171478
J	215m NE	Railway Land	1938	2141018
A	220m W	Gasometer	1895	2263177
J	220m NE	Railway Sidings	1962	2259112
J	220m NE	Railway Sidings	1973 - 1987	2225097
A	220m W	Gasometers	1897 - 1898	2241767



ID	Location	Land use	Dates present	Group ID
A	221m W	Gasometer	1912 - 1920	2261172
G	221m S	Railway Building	1920	2149014
J	223m NE	Railway Sidings	1938	2209084
3	227m NE	Railway Sidings	1938	2228935
A	236m W	Railway Sidings	1938	2276757
A	236m W	Gasometer	1895	2139862
A	239m W	Unspecified Tank	1912 - 1920	2250917
A	239m NW	Railway Building	1938	2149048
A	241m NW	Railway Buildings	1987	2224248
A	241m NW	Railway Buildings	1951 - 1962	2282749
H	243m SW	Sewage Works	1920	2271359
A	243m NW	Railway Buildings	1897	2284706
A	243m NW	Railway Buildings	1898 - 1920	2209848
K	243m W	Refuse Heap	1973 - 1980	2179200
L	244m SW	Sewage Works	1911 - 1938	2229913
A	244m NW	Railway Buildings	1973 - 1980	2185397
L	246m SW	Sewage Works	1894	2182502
I	248m W	County Lunatic Asylum	1897 - 1898	2182039
A	253m NW	Railway Building	1938	2149049
A	255m W	Railway Building	1938 - 1951	2269392
H	257m SW	Filter Beds	1920	2234413
H	259m SW	Filter Beds	1911 - 1938	2279897
H	260m SW	Unspecified Tanks	1951 - 1962	2225628
H	261m SW	Filter Beds	1894	2284397
4	264m SW	Refuse Heap	1951 - 1962	2218413
N	265m S	Tunnels	1911	2261966
N	266m S	Tunnels	1894	2220644
N	271m SE	Tunnels	1920	2194182



ID	Location	Land use	Dates present	Group ID
N	271m SE	Tunnels	1938	2195242
N	273m S	Tunnels	1911	2201902
A	276m NW	Unspecified Heap	1864 - 1866	2252876
A	276m NW	Railway Building	1938	2246854
N	276m S	Tunnel	1879	2208790
N	276m S	Tunnel	1869	2293966
A	277m NW	Railway Building	1895	2295046
A	278m NW	Railway Building	1897	2275897
A	279m NW	Railway Building	1898	2271524
A	279m NW	Railway Building	1912 - 1920	2277684
A	280m NW	Railway Building	1912 - 1920	2204919
N	285m SE	Tunnel	1962 - 1987	2186936
N	285m SE	Tunnels	1951	2213726
K	298m W	Disused Workings	1987	2144626
H	303m SW	Unspecified Pit	1938 - 1951	2207300
A	312m NW	Railway Building	1912 - 1920	2238725
A	314m NW	Railway Building	1897	2282171
H	315m SW	Unspecified Beds	1938	2128396
A	316m NW	Railway Buildings	1898	2279116
J	321m NE	Railway Building	1962	2149046
H	321m SW	Filter Beds	1920	2143318
H	323m SW	Filter Beds	1894	2143319
A	327m NW	Railway Building	1864	2227138
A	339m NW	Railway Station	1864 - 1866	2261007
A	340m NW	Railway Building	1897	2197553
A	340m NW	Railway Station	1864	2213298
A	341m NW	Railway Building	1980	2264352
A	341m NW	Railway Building	1973	2284779



ID	Location	Land use	Dates present	Group ID
A	342m NW	Railway Building	1912	2185183
A	342m NW	Railway Building	1920	2248304
A	347m NW	Saw Pit	1864 - 1866	2184441
A	351m NW	Railway Buildings	1962	2173778
A	356m NW	Railway Building	1912 - 1920	2291847
A	359m NW	Saw Pit	1864	2281293
A	368m NW	Gasometers	1864 - 1866	2196288
A	368m NW	Gasometers	1864	2247576
A	371m NW	Unspecified Tank	1897 - 1898	2258330
A	371m NW	Unspecified Tank	1895	2242660
A	392m NW	Gasometers	1864 - 1866	2219019
7	394m SW	Refuse Heap	1920 - 1938	2273327
8	410m W	Engine House	1895 - 1897	2259556
A	417m NW	Railway Buildings	1951	2163507
F	426m NW	Railway Station	1895 - 1938	2244865
L	432m SW	Unspecified Depot	1973 - 1980	2187331
L	432m SW	Unspecified Depot	1987	2182337
O	434m NW	Hospital	1973	2282913
O	443m NW	Hospital	1980 - 1987	2268509
F	444m NW	Railway Station	1973 - 1980	2288308
P	449m NW	Engine House	1938	2280610
P	454m NW	Engine House	1938 - 1951	2265474
F	457m NW	Railway Station	1951 - 1962	2212984
P	459m NW	Engine House	1912 - 1920	2271611
L	462m SW	Fire Station	1920	2128164
R	478m NE	Railway Building	1951 - 1987	2195768
S	479m NW	Police Station	1973	2208609
R	481m NE	Railway Building	1938	2230174



ID	Location	Land use	Dates present	Group ID
S	483m NW	Police Station	1962	2244408
S	483m NW	Police Station	1987	2291945

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

94

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	25m NW	Gas Works	1950 - 1969	387366
A	28m NW	Gas Works	1914	385718
A	29m NW	Unspecified Tank	1950	404592
A	32m N	Gasometer	1950 - 1967	397603
A	32m N	Gasometer	1950	389800
A	32m N	Unspecified Tank	1979 - 1990	405149
A	32m N	Unspecified Tank	1992	407212
A	33m N	Gasometer	1969	393182
A	34m N	Unspecified Tank	1936	388896
A	58m NW	Unspecified Tank	1950	364814
A	60m NW	Unspecified Tank	1936 - 1950	391111
A	61m NW	Unspecified Tank	1950	395847
A	70m NW	Gas Works	1898 - 1913	393410
A	73m NW	Unspecified Tank	1950 - 1979	382748
A	73m NW	Unspecified Tank	1950	398739
A	73m NW	Tanks	1950	409330



ID	Location	Land use	Dates present	Group ID
A	74m NW	Unspecified Tank	1969	384856
A	75m NW	Unspecified Tank	1936	395735
A	75m NW	Unspecified Tank	1913 - 1936	410402
A	90m NW	Gas Works	1867 - 1896	383960
A	90m NW	Unspecified Tank	1979	406555
A	90m NW	Unspecified Tank	1950 - 1967	407984
A	91m NW	Gasometer	1950	401003
A	91m NW	Gasometer	1969	396902
A	95m NW	Unspecified Tank	1936	386422
A	95m NW	Gasometer	1898 - 1914	394505
A	96m NW	Gasometer	1896 - 1913	398820
A	96m NW	Gasometer	1968	384757
A	98m NW	Gasometer	1950	389004
E	122m SE	Unspecified Tank	1967 - 1969	390995
B	123m E	Unspecified Tank	1950 - 1967	405283
B	124m E	Unspecified Tank	1950 - 1969	397213
A	128m NW	Gasometer	1913	390277
A	130m NW	Unspecified Tank	1950	392012
A	130m NW	Gasometer	1913	373931
A	130m NW	Unspecified Tank	1950	394787
A	131m NW	Unspecified Tank	1936 - 1950	390372
A	132m NW	Gasometer	1898 - 1950	380745
A	133m NW	Unspecified Tank	1914 - 1936	381707
A	136m NW	Gasometer	1867	404584
A	137m NW	Gasometer	1896 - 1914	385913
A	137m NW	Gasometer	1896 - 1913	405582
A	152m W	Unspecified Tank	1914	364924
A	165m NW	Unspecified Tank	1913	364927



ID	Location	Land use	Dates present	Group ID
A	172m NW	Unspecified Tank	1914	364925
H	173m SW	Unspecified Tank	1950	402451
H	173m SW	Unspecified Tank	1950	406070
H	175m SW	Humus Tank	1950	404953
H	176m SW	Humus Tank	1950	394999
A	178m NW	Gasometer	1867	373925
A	191m NW	Unspecified Tank	1896	364926
A	199m W	Gas Works	1913	383304
A	202m NW	Tanks	1992 - 1999	394512
A	204m NW	Gas Works	1949	394661
H	207m SW	Unspecified Tank	1950	392830
H	207m SW	Unspecified Tank	1950	406635
A	209m W	Gas Works	1896	395339
A	210m W	Gas Works	1867 - 1914	395669
A	211m W	Gasometer	1913	383246
A	212m W	Gas Works	1898	395470
H	213m SW	Unspecified Tank	1935	364809
H	214m SW	Tanks	1935	376315
H	218m SW	Humus Tanks	1950	399643
H	218m SW	Humus Tanks	1950	397162
H	220m SW	Unspecified Tank	1950	384420
A	222m W	Gasometer	1896	382889
A	224m W	Gasometer	1898 - 1914	396560
A	227m W	Gasometer	1913	401796
H	232m SW	Unspecified Tank	1950	394001
A	234m W	Tanks	1913	376316
A	239m W	Gasometer	1896	401770
A	242m W	Gasometer	1898 - 1914	381137



ID	Location	Land use	Dates present	Group ID
A	248m W	Tanks	1898 - 1914	381482
H	267m SW	Unspecified Tank	1935	364808
H	302m SW	Tanks	1950	385693
H	306m SW	Unspecified Tank	1935	364825
H	307m SW	Unspecified Tank	1935	364826
A	311m NW	Unspecified Tank	1967	381981
H	312m SW	Tanks	1950	376314
H	312m SW	Unspecified Tank	1935	364827
H	313m SW	Settling Tanks	1950	381660
H	313m SW	Settling Tanks	1950	386708
A	314m NW	Unspecified Tank	1914 - 1936	393877
H	319m SW	Settling Tanks	1935	386098
H	358m SW	Unspecified Tank	1935	364824
A	373m NW	Gasometer	1867 - 1896	390164
A	373m NW	Unspecified Tank	1898	364921
L	383m SW	Tanks	1950	404848
L	383m SW	Tanks	1950	397573
H	384m SW	Unspecified Tank	1935	364823
A	398m NW	Gasometer	1867	373929
L	401m SW	Tanks	1950	410457
L	401m SW	Primary Tanks	1950	374322
12	495m W	Unspecified Tank	1913	364815

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

36

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding



or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	25m NW	Gas Works	1898 - 1969	263496
A	32m N	Gasometer	1950 - 1967	284315
A	32m N	Gasometer	1950 - 1969	291118
A	76m SE	Electricity Substation	1992	245005
A	90m NW	Gas Works	1867 - 1896	267099
A	91m NW	Gasometer	1896 - 1969	257815
A	96m NW	Gasometer	1950 - 1968	273645
A	128m NW	Gasometer	1896 - 1914	269147
A	130m NW	Gasometer	1913	251413
A	132m NW	Gasometer	1898 - 1950	278073
A	136m NW	Gasometer	1867	260292
A	137m NW	Gasometer	1896 - 1913	271611
A	150m NW	Gas Cooler	1950	251787
A	178m NW	Gasometer	1867	251407
A	199m W	Gas Works	1867 - 1914	282757
A	204m NW	Gas Works	1949	281668
A	209m W	Gas Works	1896	286129
A	211m W	Gasometer	1913	289239
2	220m N	Electricity Substation	1973 - 1992	274245
A	222m W	Gasometer	1896 - 1914	282471
A	227m W	Gasometer	1913	253009
A	239m W	Gasometer	1896	285607
A	242m W	Gasometer	1898 - 1914	279245
5	278m NW	Gas Office and Stores	1966 - 1967	264236
M	289m SE	Electricity Substation	1950 - 1992	270125
M	299m E	Electricity Substation	1979 - 1990	259818

ID	Location	Land use	Dates present	Group ID
6	361m NW	Electricity Substation	1978 - 1997	270109
A	373m NW	Gasometer	1867 - 1896	268944
A	398m NW	Gasometer	1867	251411
9	463m N	Electricity Substation	1973 - 1997	257088
Q	464m W	Electricity Substation	1969 - 1992	284306
10	464m SE	Electricity Substation	1973	245006
Q	465m W	Electricity Substation	1968	279306
11	477m NE	Electricity Substation	1970	245007
L	486m SW	Electricity Substation	1992 - 1999	273147
R	496m N	Electricity Substation	1950	263390

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	6
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	On site	Garage	1950	74408



ID	Location	Land use	Dates present	Group ID
A	On site	Garage	1969	78418
A	On site	Garage	1979 - 1990	85089
A	On site	Garage	1967 - 1992	86111
M	246m E	Garage	1969 - 1992	81661
M	255m E	Garage	1967	78450

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

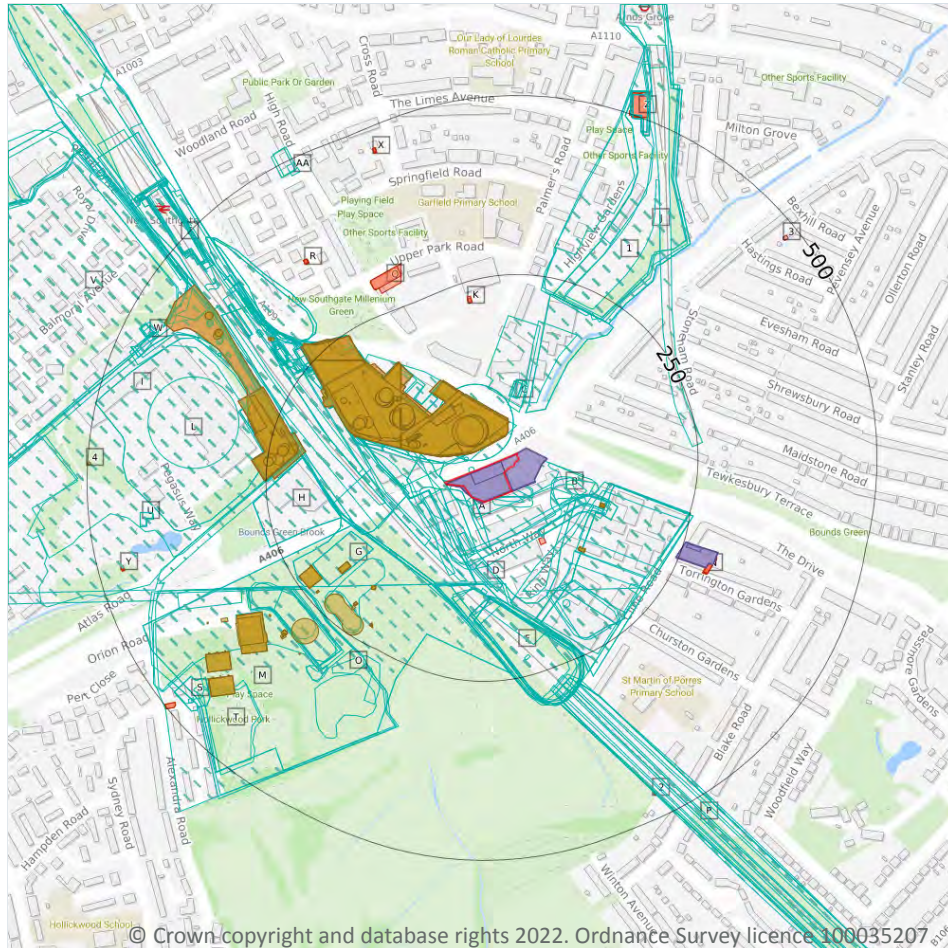
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

2.1 Historical industrial land uses

Records within 500m

299

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 29**

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Ground Workings	1938	2250913
A	On site	Unspecified Ground Workings	1938	2225371
A	On site	Unspecified Pit	1938	2202350



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Ground Workings	1912	2247758
A	On site	Unspecified Tank	1938	2154677
A	On site	Unspecified Ground Workings	1920	2219555
A	On site	Unspecified Ground Workings	1962	2202611
A	On site	Unspecified Pit	1951	2202350
A	0m S	Unspecified Ground Workings	1938	2227616
A	1m W	Railway Sidings	1980	2227533
A	1m W	Railway Sidings	1973	2227533
A	7m SW	Unspecified Works	1987	2159786
A	9m N	Unspecified Tank	1912	2186185
A	9m N	Unspecified Tank	1920	2186185
A	11m W	Railway Sidings	1962	2204512
A	11m W	Mineral Railway Sidings	1962	2164028
A	17m NW	Unspecified Tank	1938	2257087
A	17m NW	Unspecified Commercial/Industrial	1938	2254180
A	18m W	Unspecified Ground Workings	1895	2252610
A	20m W	Unspecified Commercial/Industrial	1987	2238109
A	25m NW	Unspecified Tank	1938	2279236
A	25m W	Railway Sidings	1938	2237048
A	25m W	Tramway Sidings	1938	2269004
A	25m W	Railway Sidings	1912	2282420
A	25m W	Railway Sidings	1920	2282420
A	25m N	Unspecified Commercial/Industrial	1962	2226957
A	25m NW	Unspecified Works	1980	2208597
A	26m W	Tramway Sidings	1951	2248956
A	27m NW	Unspecified Commercial/Industrial	1938	2254180
A	28m NW	Gas Works	1912	2181867
A	28m NW	Gas Works	1920	2227871



ID	Location	Land Use	Date	Group ID
A	28m NW	Unspecified Commercial/Industrial	1951	2254180
A	34m N	Unspecified Tank	1987	2242420
A	34m N	Unspecified Tank	1980	2242420
A	34m N	Unspecified Tank	1962	2242420
A	34m N	Unspecified Tank	1973	2242420
A	34m N	Unspecified Tank	1951	2242420
A	35m N	Unspecified Tank	1938	2242420
A	40m W	Railway Sidings	1938	2257430
B	42m E	Unspecified Ground Workings	1938	2218394
A	49m SW	Railway Building	1980	2282321
A	49m SW	Railway Building	1973	2282321
A	53m W	Railway Sidings	1866	2227533
A	53m W	Railway Sidings	1864	2227533
A	53m SW	Railway Sidings	1951	2177632
B	54m E	Unspecified Ground Workings	1938	2218394
B	55m E	Unspecified Heap	1951	2136480
A	55m W	Railway Building	1920	2149050
C	58m NE	Smithy	1895	2172554
C	59m NE	Unspecified Works	1980	2291436
C	59m NE	Unspecified Works	1973	2291436
A	62m W	Unspecified Works	1973	2208597
A	63m NW	Unspecified Tanks	1962	2204926
C	64m NE	Unspecified Works	1987	2200193
B	65m SE	Tramway Sidings	1938	2248956
A	68m SW	Railway Land	1897	2141015
C	71m NE	Unspecified Works	1962	2176590
A	72m SW	Railway Sidings	1898	2293732
B	73m E	Refuse Heap	1962	2158744



ID	Location	Land Use	Date	Group ID
C	77m N	Smithy	1912	2198035
C	77m N	Smithy	1920	2198035
C	78m N	Smithy	1897	2198035
A	78m NW	Gas Works	1898	2190217
C	79m N	Smithy	1898	2189729
A	81m NW	Unspecified Tank	1980	2223805
A	81m NW	Unspecified Tank	1973	2223805
A	81m W	Railway Sidings	1864	2227533
D	83m S	Railway Building	1980	2189926
D	83m S	Railway Building	1973	2189926
A	85m NW	Unspecified Tank	1938	2284677
A	87m NW	Gas Works	1895	2204170
A	88m W	Railway Sidings	1938	2227533
A	88m NW	Gas Works	1897	2190217
A	93m NW	Gasometer	1912	2244666
A	93m NW	Unspecified Tank	1938	2262611
A	93m NW	Gasometer	1920	2244666
A	93m NW	Gasometer	1895	2232133
A	94m NW	Unspecified Tanks	1951	2204926
A	96m NW	Gasometers	1897	2170716
B	96m SE	Bottle Works	1951	2293421
A	96m NW	Gasometers	1898	2170716
A	96m W	Gas Works	1864	2180453
A	98m W	Gas Works	1866	2241829
A	98m W	Gas Works	1864	2241829
B	104m SE	Bottle Works	1938	2192347
E	105m W	Railway Sidings	1895	2183207
B	112m E	Bottle Works	1938	2293421



ID	Location	Land Use	Date	Group ID
F	112m S	Railway Sidings	1938	2269140
B	112m SE	Unspecified Works	1962	2159805
F	114m S	Railway Buildings	1894	2163510
F	115m S	Railway Sidings	1920	2279430
A	116m W	Railway Sidings	1897	2171053
F	118m S	Cuttings	1879	2191351
F	118m S	Cuttings	1869	2254582
B	120m E	Unspecified Commercial/Industrial	1980	2244120
B	120m E	Unspecified Commercial/Industrial	1973	2244120
G	120m SW	Sewage Works	1912	2220249
G	120m SW	Sewage Works	1920	2273096
B	120m SE	Unspecified Commercial/Industrial	1987	2229738
D	120m S	Railway Building	1920	2149015
F	121m S	Cuttings	1911	2170106
F	121m S	Cuttings	1894	2189279
G	124m SW	Unspecified Works	1962	2159784
G	124m SW	Sewage Works	1951	2250133
A	126m NW	Unspecified Tank	1938	2182054
A	126m W	Gasometer	1864	2173345
A	129m W	Gasometers	1866	2287706
A	129m W	Gasometers	1864	2287706
B	129m SE	Unspecified Factory	1962	2150973
F	132m S	Cuttings	1938	2220114
A	133m NW	Gasometer	1895	2275631
A	133m NW	Gasometer	1912	2214601
A	133m NW	Unspecified Tank	1938	2182054
A	133m NW	Gasometer	1920	2214601
A	134m NW	Gasometer	1895	2286719



ID	Location	Land Use	Date	Group ID
F	134m S	Cuttings	1987	2290722
F	134m S	Cuttings	1980	2290722
F	134m S	Cuttings	1962	2290722
F	134m S	Cuttings	1973	2290722
A	135m NW	Gasometer	1897	2245933
G	136m SW	Filter Beds	1912	2295003
G	136m SW	Filter Beds	1920	2208444
A	137m NW	Gasometer	1898	2245933
A	137m NW	Unspecified Tank	1912	2243269
A	137m NW	Unspecified Tank	1920	2243269
F	138m S	Cuttings	1920	2199354
G	140m SW	Unspecified Tanks	1962	2169675
F	144m S	Cuttings	1951	2287245
B	148m SE	Unspecified Works	1962	2159785
B	149m SE	Unspecified Pit	1911	2207013
B	152m SE	Unspecified Pit	1894	2203480
H	152m W	Unspecified Depot	1987	2273870
H	152m W	Unspecified Depot	1980	2273870
H	152m W	Unspecified Depot	1973	2273870
B	163m SE	Unspecified Pit	1920	2207188
A	166m NW	Gasometer	1864	2139859
A	167m NW	Unspecified Tank	1866	2210347
A	167m NW	Unspecified Tank	1864	2210347
B	169m SE	Unspecified Tank	1962	2154678
A	187m NW	Railway Building	1938	2293151
A	190m NW	Railway Building	1951	2293151
A	203m W	Gas Works	1866	2261611
A	203m W	Gas Works	1864	2261611



ID	Location	Land Use	Date	Group ID
A	204m W	Gas Works	1864	2208181
A	207m W	Gas Works	1912	2289138
A	207m W	Gas Works	1920	2289138
I	207m W	Mental Hospital	1951	2237381
I	208m W	Mental Hospital	1938	2169178
A	208m W	Gas Works	1897	2271730
A	210m W	Gas Works	1898	2185259
I	210m W	Hospital	1962	2231118
A	210m W	Gas Works	1895	2262181
G	211m SW	Unspecified Tanks	1951	2169675
J	215m NE	Railway Sidings	1951	2171478
J	215m NE	Railway Land	1938	2141018
A	220m W	Gasometer	1895	2263177
J	220m NE	Railway Sidings	1962	2259112
J	220m NE	Railway Sidings	1987	2225097
J	220m NE	Railway Sidings	1980	2225097
J	220m NE	Railway Sidings	1973	2225097
A	220m W	Gasometers	1897	2241767
A	221m W	Gasometer	1912	2261172
A	221m W	Gasometer	1920	2261172
F	221m S	Railway Building	1920	2149014
A	222m W	Gasometers	1898	2241767
J	223m NE	Railway Sidings	1938	2209084
1	227m NE	Railway Sidings	1938	2228935
A	236m W	Railway Sidings	1938	2276757
A	236m W	Gasometer	1895	2139862
A	239m W	Unspecified Tank	1912	2250917
A	239m W	Unspecified Tank	1920	2250917



ID	Location	Land Use	Date	Group ID
A	239m NW	Railway Building	1938	2149048
A	241m NW	Railway Buildings	1987	2224248
A	241m NW	Railway Buildings	1951	2282749
G	243m SW	Sewage Works	1920	2271359
A	243m NW	Railway Buildings	1897	2284706
A	243m NW	Railway Buildings	1912	2209848
A	243m NW	Railway Buildings	1920	2209848
L	243m W	Refuse Heap	1980	2179200
L	243m W	Refuse Heap	1973	2179200
M	244m SW	Sewage Works	1938	2229913
A	244m NW	Railway Buildings	1980	2185397
A	244m NW	Railway Buildings	1973	2185397
M	246m SW	Sewage Works	1911	2229913
M	246m SW	Sewage Works	1894	2182502
A	246m NW	Railway Buildings	1898	2209848
I	248m W	County Lunatic Asylum	1897	2182039
A	253m NW	Railway Building	1938	2149049
A	255m W	Railway Building	1938	2269392
A	256m W	Railway Building	1951	2269392
G	257m SW	Filter Beds	1920	2234413
G	259m SW	Filter Beds	1938	2279897
G	260m SW	Unspecified Tanks	1962	2225628
G	261m SW	Filter Beds	1894	2284397
G	262m SW	Unspecified Tanks	1951	2225628
G	263m SW	Filter Beds	1911	2279897
O	264m SW	Refuse Heap	1951	2218413
A	264m NW	Railway Buildings	1962	2282749
P	265m S	Tunnels	1911	2261966

ID	Location	Land Use	Date	Group ID
P	266m S	Tunnels	1894	2220644
P	271m SE	Tunnels	1920	2194182
P	271m SE	Tunnels	1938	2195242
P	273m S	Tunnels	1911	2201902
A	276m NW	Unspecified Heap	1866	2252876
A	276m NW	Unspecified Heap	1864	2252876
A	276m NW	Railway Building	1938	2246854
A	276m NW	Unspecified Heap	1864	2252876
A	276m NW	Unspecified Heap	1864	2252876
P	276m S	Tunnel	1879	2208790
P	276m S	Tunnel	1869	2293966
A	277m NW	Railway Building	1895	2295046
A	278m NW	Railway Building	1897	2275897
A	279m NW	Railway Building	1898	2271524
A	279m NW	Railway Building	1912	2277684
A	279m NW	Railway Building	1920	2277684
A	280m NW	Railway Building	1912	2204919
A	280m NW	Railway Building	1920	2204919
P	285m SE	Tunnel	1987	2186936
P	285m SE	Tunnel	1980	2186936
P	285m SE	Tunnel	1962	2186936
P	285m SE	Tunnel	1973	2186936
P	285m SE	Tunnels	1951	2213726
O	293m SW	Refuse Heap	1962	2218413
L	298m W	Disused Workings	1987	2144626
G	303m SW	Unspecified Pit	1938	2207300
G	305m SW	Unspecified Pit	1951	2207300
A	312m NW	Railway Building	1912	2238725



ID	Location	Land Use	Date	Group ID
A	312m NW	Railway Building	1920	2238725
A	314m NW	Railway Building	1897	2282171
G	315m SW	Unspecified Beds	1938	2128396
A	316m NW	Railway Buildings	1898	2279116
J	321m NE	Railway Building	1962	2149046
G	321m SW	Filter Beds	1920	2143318
G	323m SW	Filter Beds	1894	2143319
A	327m NW	Railway Building	1864	2227138
A	327m NW	Railway Building	1864	2227138
A	339m NW	Railway Station	1866	2261007
A	339m NW	Railway Station	1864	2261007
A	340m NW	Railway Building	1897	2197553
A	340m NW	Railway Station	1864	2213298
A	341m NW	Railway Building	1980	2264352
A	341m NW	Railway Building	1973	2284779
A	342m NW	Railway Building	1912	2185183
A	342m NW	Railway Building	1920	2248304
A	347m NW	Saw Pit	1866	2184441
A	347m NW	Saw Pit	1864	2184441
A	351m NW	Railway Buildings	1962	2173778
A	356m NW	Railway Building	1912	2291847
A	356m NW	Railway Building	1920	2291847
A	359m NW	Saw Pit	1864	2281293
A	359m NW	Saw Pit	1864	2281293
A	368m NW	Gasometers	1866	2196288
A	368m NW	Gasometers	1864	2196288
A	368m NW	Gasometers	1864	2247576
A	371m NW	Unspecified Tank	1897	2258330



ID	Location	Land Use	Date	Group ID
A	371m NW	Unspecified Tank	1895	2242660
A	371m NW	Unspecified Tank	1898	2258330
A	392m NW	Gasometers	1866	2219019
A	392m NW	Gasometers	1864	2219019
A	393m NW	Gasometers	1864	2219019
T	394m SW	Refuse Heap	1938	2273327
T	395m SW	Refuse Heap	1920	2273327
U	410m W	Engine House	1895	2259556
U	411m W	Engine House	1897	2259556
A	417m NW	Railway Buildings	1951	2163507
E	426m NW	Railway Station	1938	2244865
S	432m SW	Unspecified Depot	1980	2187331
S	432m SW	Unspecified Depot	1973	2187331
S	432m SW	Unspecified Depot	1987	2182337
V	434m NW	Hospital	1973	2282913
V	443m NW	Hospital	1987	2268509
V	443m NW	Hospital	1980	2268509
E	444m NW	Railway Station	1980	2288308
E	444m NW	Railway Station	1973	2288308
V	446m NW	Mental Hospital	1938	2237381
V	449m NW	County Lunatic Asylum	1898	2182039
W	449m NW	Engine House	1938	2280610
E	452m NW	Railway Station	1938	2244865
E	452m NW	Railway Station	1912	2244865
E	452m NW	Railway Station	1920	2244865
E	454m NW	Railway Station	1897	2244865
W	454m NW	Engine House	1938	2265474
E	456m NW	Railway Station	1895	2244865



ID	Location	Land Use	Date	Group ID
E	457m NW	Railway Station	1898	2244865
E	457m NW	Railway Station	1962	2212984
E	457m NW	Railway Station	1951	2212984
W	457m NW	Engine House	1951	2265474
W	459m NW	Engine House	1912	2271611
W	459m NW	Engine House	1920	2271611
S	462m SW	Fire Station	1920	2128164
Z	478m NE	Railway Building	1987	2195768
Z	478m NE	Railway Building	1980	2195768
Z	478m NE	Railway Building	1973	2195768
AA	479m NW	Police Station	1973	2208609
Z	481m NE	Railway Building	1962	2195768
Z	481m NE	Railway Building	1951	2195768
Z	481m NE	Railway Building	1938	2230174
AA	483m NW	Police Station	1962	2244408
AA	483m NW	Police Station	1987	2291945

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 29**

ID	Location	Land Use	Date	Group ID
A	25m NW	Gas Works	1967	387366
A	25m NW	Gas Works	1950	387366
A	25m NW	Gas Works	1950	387366
A	25m NW	Gas Works	1950	387366



ID	Location	Land Use	Date	Group ID
A	26m N	Gas Works	1969	387366
A	28m NW	Gas Works	1914	385718
A	29m NW	Unspecified Tank	1950	404592
A	29m NW	Unspecified Tank	1950	404592
A	29m NW	Unspecified Tank	1950	404592
A	32m N	Gasometer	1967	397603
A	32m N	Gasometer	1950	397603
A	32m N	Gasometer	1950	389800
A	32m N	Gasometer	1950	389800
A	32m N	Unspecified Tank	1979	405149
A	32m N	Unspecified Tank	1990	405149
A	32m N	Unspecified Tank	1992	407212
A	33m N	Gasometer	1969	393182
A	34m N	Unspecified Tank	1936	388896
A	58m NW	Unspecified Tank	1950	364814
A	60m NW	Unspecified Tank	1950	391111
A	61m NW	Unspecified Tank	1950	395847
A	61m NW	Unspecified Tank	1950	395847
A	64m NW	Unspecified Tank	1936	391111
A	70m NW	Gas Works	1913	393410
A	73m NW	Unspecified Tank	1979	382748
A	73m NW	Unspecified Tank	1967	382748
A	73m NW	Unspecified Tank	1950	382748
A	73m NW	Unspecified Tank	1950	398739
A	73m NW	Tanks	1950	409330
A	73m NW	Tanks	1950	409330
A	74m NW	Unspecified Tank	1969	384856
A	75m NW	Unspecified Tank	1936	395735

ID	Location	Land Use	Date	Group ID
A	75m NW	Unspecified Tank	1913	410402
A	78m W	Gas Works	1950	387366
A	78m NW	Unspecified Tank	1914	410402
A	78m NW	Unspecified Tank	1936	410402
A	79m W	Gas Works	1950	387366
A	79m W	Gas Works	1950	387366
A	80m NW	Gas Works	1898	393410
A	86m NW	Gas Works	1968	387366
A	90m NW	Gas Works	1896	383960
A	90m NW	Unspecified Tank	1979	406555
A	90m NW	Unspecified Tank	1967	407984
A	90m NW	Unspecified Tank	1950	407984
A	91m NW	Gasometer	1950	401003
A	91m NW	Gasometer	1950	401003
A	91m NW	Gasometer	1969	396902
A	95m NW	Gasometer	1898	394505
A	95m NW	Gasometer	1914	394505
A	95m NW	Unspecified Tank	1936	386422
A	96m NW	Gasometer	1896	398820
A	96m NW	Gasometer	1913	398820
A	96m NW	Gasometer	1968	384757
A	96m NW	Gasometer	1950	401003
A	98m NW	Gasometer	1950	389004
A	98m NW	Gasometer	1950	389004
A	109m W	Gas Works	1867	383960
B	122m SE	Unspecified Tank	1969	390995
B	122m SE	Unspecified Tank	1967	390995
B	123m E	Unspecified Tank	1967	405283



ID	Location	Land Use	Date	Group ID
B	123m E	Unspecified Tank	1950	405283
B	124m E	Unspecified Tank	1950	397213
B	124m E	Unspecified Tank	1950	397213
B	124m E	Unspecified Tank	1969	397213
A	128m NW	Gasometer	1913	390277
A	130m NW	Unspecified Tank	1950	392012
A	130m NW	Gasometer	1913	373931
A	130m NW	Unspecified Tank	1950	394787
A	130m NW	Unspecified Tank	1950	394787
A	131m NW	Unspecified Tank	1950	390372
A	132m NW	Gasometer	1950	380745
A	132m NW	Gasometer	1950	380745
A	133m NW	Unspecified Tank	1914	381707
A	133m NW	Unspecified Tank	1936	381707
A	135m NW	Gasometer	1898	380745
A	135m NW	Gasometer	1914	380745
A	135m NW	Unspecified Tank	1936	390372
A	136m NW	Gasometer	1867	404584
A	137m NW	Gasometer	1896	385913
A	137m NW	Gasometer	1896	405582
A	137m NW	Gasometer	1913	405582
A	137m NW	Gasometer	1898	385913
A	137m NW	Gasometer	1914	385913
A	152m W	Unspecified Tank	1914	364924
A	165m NW	Unspecified Tank	1913	364927
A	172m NW	Unspecified Tank	1914	364925
G	173m SW	Unspecified Tank	1950	402451
G	173m SW	Unspecified Tank	1950	406070



ID	Location	Land Use	Date	Group ID
G	173m SW	Unspecified Tank	1950	406070
G	175m SW	Humus Tank	1950	404953
G	176m SW	Humus Tank	1950	394999
G	176m SW	Humus Tank	1950	394999
A	178m NW	Gasometer	1867	373925
A	191m NW	Unspecified Tank	1896	364926
A	199m W	Gas Works	1913	383304
A	202m NW	Tanks	1992	394512
A	202m NW	Tanks	1999	394512
A	204m NW	Gas Works	1949	394661
A	205m NW	Gas Works	1966	387366
A	206m NW	Gas Works	1967	387366
G	207m SW	Unspecified Tank	1950	392830
G	207m SW	Unspecified Tank	1950	406635
G	207m SW	Unspecified Tank	1950	406635
A	209m W	Gas Works	1896	395339
A	210m W	Gas Works	1914	395669
A	210m W	Gas Works	1867	395669
A	211m W	Gasometer	1913	383246
A	212m W	Gas Works	1898	395470
G	213m SW	Unspecified Tank	1935	364809
G	214m SW	Tanks	1935	376315
G	218m SW	Humus Tanks	1950	399643
G	218m SW	Humus Tanks	1950	397162
G	218m SW	Humus Tanks	1950	397162
G	220m SW	Unspecified Tank	1950	384420
G	220m SW	Unspecified Tank	1950	384420
G	220m SW	Unspecified Tank	1950	384420

ID	Location	Land Use	Date	Group ID
A	222m W	Gasometer	1896	382889
A	224m W	Gasometer	1898	396560
A	224m W	Gasometer	1914	396560
A	227m W	Gasometer	1913	401796
G	232m SW	Unspecified Tank	1950	394001
G	233m SW	Unspecified Tank	1950	394001
G	233m SW	Unspecified Tank	1950	394001
A	234m W	Tanks	1913	376316
A	239m W	Gasometer	1896	401770
A	242m W	Gasometer	1898	381137
A	242m W	Gasometer	1914	381137
A	248m W	Tanks	1898	381482
A	248m W	Tanks	1914	381482
G	267m SW	Unspecified Tank	1935	364808
G	302m SW	Tanks	1950	385693
G	304m SW	Tanks	1950	385693
G	304m SW	Tanks	1950	385693
G	306m SW	Unspecified Tank	1935	364825
G	307m SW	Unspecified Tank	1935	364826
A	311m NW	Unspecified Tank	1967	381981
G	312m SW	Tanks	1950	376314
G	312m SW	Unspecified Tank	1935	364827
G	313m SW	Settling Tanks	1950	381660
G	313m SW	Settling Tanks	1950	386708
G	313m SW	Settling Tanks	1950	386708
A	314m NW	Unspecified Tank	1914	393877
A	314m NW	Unspecified Tank	1936	393877
G	319m SW	Settling Tanks	1935	386098

ID	Location	Land Use	Date	Group ID
G	358m SW	Unspecified Tank	1935	364824
A	373m NW	Gasometer	1896	390164
A	373m NW	Unspecified Tank	1898	364921
A	374m NW	Gasometer	1867	390164
S	383m SW	Tanks	1950	404848
S	383m SW	Tanks	1950	397573
S	383m SW	Tanks	1950	397573
G	384m SW	Unspecified Tank	1935	364823
A	398m NW	Gasometer	1867	373929
S	401m SW	Tanks	1950	410457
S	401m SW	Tanks	1950	410457
S	401m SW	Primary Tanks	1950	374322
4	495m W	Unspecified Tank	1913	364815

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 29**

ID	Location	Land Use	Date	Group ID
A	25m NW	Gas Works	1967	263496
A	25m NW	Gas Works	1950	263496
A	25m NW	Gas Works	1950	263496
A	25m NW	Gas Works	1950	263496
A	26m N	Gas Works	1969	263496
A	28m NW	Gas Works	1914	263496
A	32m N	Gasometer	1967	284315



ID	Location	Land Use	Date	Group ID
A	32m N	Gasometer	1950	284315
A	32m N	Gasometer	1950	291118
A	32m N	Gasometer	1950	291118
A	33m N	Gasometer	1969	291118
A	70m NW	Gas Works	1913	263496
A	76m SE	Electricity Substation	1992	245005
A	78m W	Gas Works	1950	263496
A	79m W	Gas Works	1950	263496
A	79m W	Gas Works	1950	263496
A	80m NW	Gas Works	1898	263496
A	86m NW	Gas Works	1968	263496
A	90m NW	Gas Works	1896	267099
A	91m NW	Gasometer	1950	257815
A	91m NW	Gasometer	1950	257815
A	91m NW	Gasometer	1969	257815
A	95m NW	Gasometer	1898	257815
A	95m NW	Gasometer	1914	257815
A	96m NW	Gasometer	1896	257815
A	96m NW	Gasometer	1913	257815
A	96m NW	Gasometer	1968	273645
A	96m NW	Gasometer	1950	257815
A	98m NW	Gasometer	1950	273645
A	98m NW	Gasometer	1950	273645
A	109m W	Gas Works	1867	267099
A	128m NW	Gasometer	1913	269147
A	130m NW	Gasometer	1913	251413
A	132m NW	Gasometer	1950	278073
A	132m NW	Gasometer	1950	278073



ID	Location	Land Use	Date	Group ID
A	135m NW	Gasometer	1898	278073
A	135m NW	Gasometer	1914	278073
A	136m NW	Gasometer	1867	260292
A	137m NW	Gasometer	1896	269147
A	137m NW	Gasometer	1896	271611
A	137m NW	Gasometer	1913	271611
A	137m NW	Gasometer	1898	269147
A	137m NW	Gasometer	1914	269147
A	150m NW	Gas Cooler	1950	251787
A	178m NW	Gasometer	1867	251407
A	199m W	Gas Works	1913	282757
A	204m NW	Gas Works	1949	281668
A	205m NW	Gas Works	1966	263496
A	206m NW	Gas Works	1967	263496
A	209m W	Gas Works	1896	286129
A	210m W	Gas Works	1914	282757
A	210m W	Gas Works	1867	282757
A	211m W	Gasometer	1913	289239
A	212m W	Gas Works	1898	282757
K	220m N	Electricity Substation	1992	274245
A	222m W	Gasometer	1896	282471
K	222m N	Electricity Substation	1973	274245
A	224m W	Gasometer	1898	282471
A	224m W	Gasometer	1914	282471
A	227m W	Gasometer	1913	253009
A	239m W	Gasometer	1896	285607
A	242m W	Gasometer	1898	279245
A	242m W	Gasometer	1914	279245



ID	Location	Land Use	Date	Group ID
Q	278m NW	Gas Office and Stores	1966	264236
Q	286m NW	Gas Office and Stores	1967	264236
N	289m SE	Electricity Substation	1992	270125
N	289m SE	Electricity Substation	1967	270125
N	289m SE	Electricity Substation	1950	270125
N	290m SE	Electricity Substation	1969	270125
N	290m SE	Electricity Substation	1950	270125
N	290m SE	Electricity Substation	1950	270125
N	299m E	Electricity Substation	1979	259818
N	299m E	Electricity Substation	1990	259818
R	361m NW	Electricity Substation	1978	270109
R	361m NW	Electricity Substation	1983	270109
R	362m NW	Electricity Substation	1997	270109
R	362m NW	Electricity Substation	1993	270109
R	362m NW	Electricity Substation	1995	270109
A	373m NW	Gasometer	1896	268944
A	374m NW	Gasometer	1867	268944
A	398m NW	Gasometer	1867	251411
X	463m N	Electricity Substation	1978	257088
X	464m N	Electricity Substation	1973	257088
Y	464m W	Electricity Substation	1969	284306
X	464m N	Electricity Substation	1983	257088
Y	464m W	Electricity Substation	1992	284306
2	464m SE	Electricity Substation	1973	245006
Y	465m W	Electricity Substation	1968	279306
X	465m N	Electricity Substation	1997	257088
X	465m N	Electricity Substation	1993	257088
X	465m N	Electricity Substation	1995	257088

ID	Location	Land Use	Date	Group ID
3	477m NE	Electricity Substation	1970	245007
S	486m SW	Electricity Substation	1992	273147
S	486m SW	Electricity Substation	1999	273147
Z	496m N	Electricity Substation	1950	263390
Z	497m N	Electricity Substation	1950	263390

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

11

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 29**

ID	Location	Land Use	Date	Group ID
A	On site	Garage	1979	85089
A	On site	Garage	1990	85089
A	On site	Garage	1992	86111
A	On site	Garage	1969	78418
A	On site	Garage	1967	86111
A	On site	Garage	1950	74408
N	246m E	Garage	1992	81661
N	247m E	Garage	1969	81661

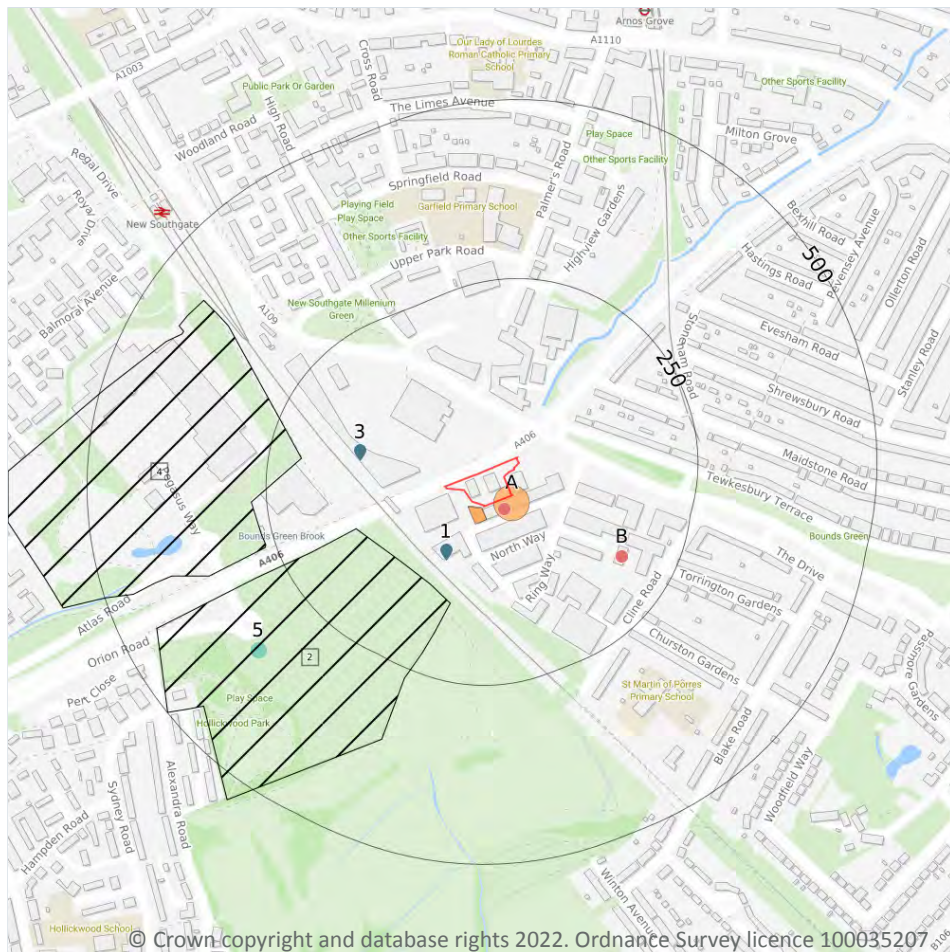


ID	Location	Land Use	Date	Group ID
N	247m E	Garage	1979	81661
N	247m E	Garage	1990	81661
N	255m E	Garage	1967	78450

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (BGS)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

1

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

Features are displayed on the Waste and landfill map on **page 52**

ID	Location	Address	BGS Number	Risk	Waste Type
5	348m SW	Cromwell Rd, London N10	1055	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0
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Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	2
----------------------------	----------

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 52**

ID	Location	Details		
2	119m SW	Site Address: Friern Barnet Sewage works, Pinkham Way, Bounds Green, Friern Barnet Licence Holder Address: -	Waste Licence: - Site Reference: 8BA006, 8HG003, 5090/0005 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: London Borough of Barnet First Recorded 31/12/1940 Last Recorded: 31/12/1980
4	204m W	Site Address: Friern Hospital, Pinkham Way, New Southgate, Barnet Licence Holder Address: -	Waste Licence: - Site Reference: 8BA003, BAR003 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/12/1950 Last Recorded: 31/12/1974

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

3

Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 52**

ID	Location	Address	Further Details	Date
A	On site	Site Address: Former Sewage Works, Pinkham Way, LONDON, Central London, N11 2UU	Type of Site: Waste Treatment Plant Planning application reference: N/A Description: The North London Waste Authority and London Borough of Barnet are developing a joint outline planning application to develop the derelict Pinkham Way site into a waste management facility and council vehicle depot. The plans do not include incineration. Outline planning application is to be submitted late Spring 2011. A full transport impact assessment will be completed and submitted as part of the planning application. This will assess the impact of the proposed development on the road network. Public consultations have been held. The Pinkham Way site is the former 1960s Friern Barnet sewage treatment works and has been derelict for many years. The site is not due to be operational until 2015 for the council depot and 2016 for the waste facility. The value, start date and contract period given is for an indication only. The NLWA is responsible for disposing of almost one million tonnes of waste each year on behalf of seven north London boroughs: Barnet, Camden, Enfield, Hackney, Haringey, Islington and Waltham Forest. The NLWA is currently undertaking a competitive procurement process for waste services, this project can be viewed on project id 08446668. Outline planning application is to be submitted late Spring 2011. Data source: Historic Planning Application Data Type: Point	01/04/2014
A	3m S	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1967
A	4m S	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1966



This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

2

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 52**

ID	Location	Details		
1	79m SW	Site Name: Park Motors, Bounds Green Site Address: A Maru, Rear of Block D, Bounds Green Ind.Estate, Bounds Green Road, London, N11 2UD Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KEN002 EPR reference: EA/EPR/WP3591NZ/A001 Operator: Kengrade Ltd Waste Management licence No: 80321 Annual Tonnage: 232	Issue Date: 17/02/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
3	128m W	Site Name: New Southgate Metals Site Address: A Dickens, BR Goods Yard, Station Road, London, N11 1QH Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NEW001 EPR reference: EA/EPR/VP3691NN/V002 Operator: New Southgate Metal Co Ltd Waste Management licence No: 80314 Annual Tonnage: 400000	Issue Date: 07/09/1993 Effective Date: - Modified: 11/03/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

3

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 52**

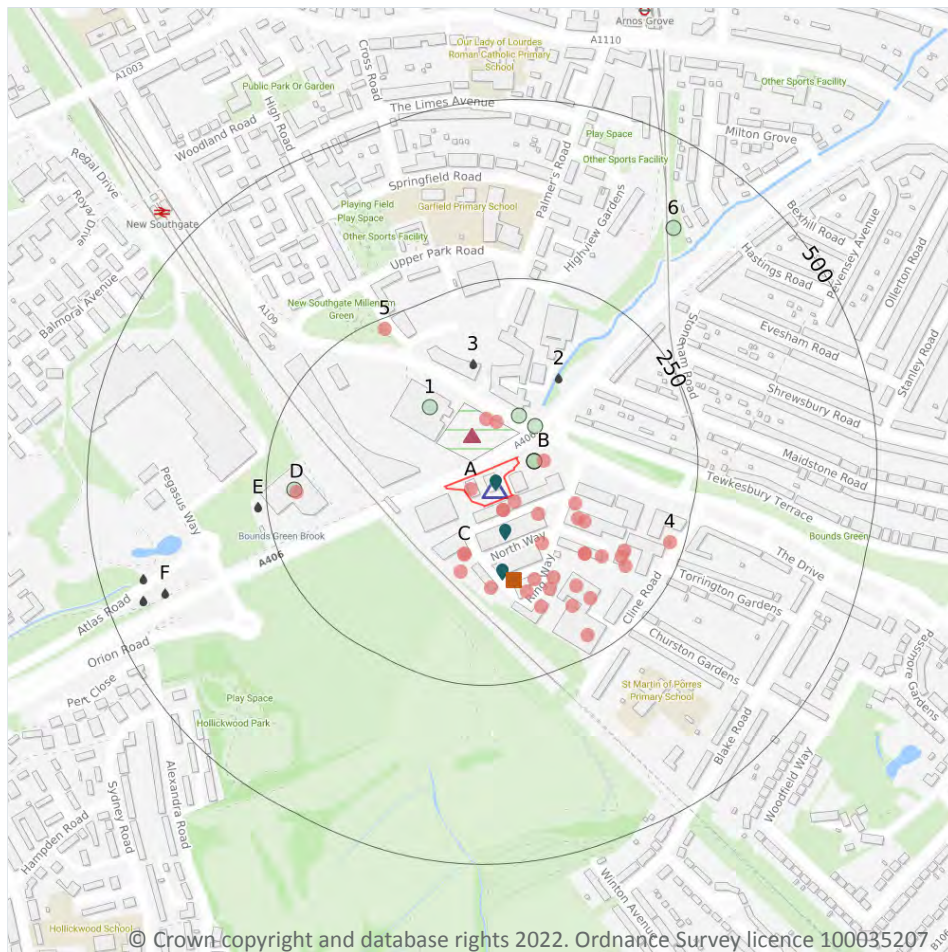


ID	Location	Site	Reference	Category	Sub-Category	Description
A	14m SE	RINGWAY, BOUNDS GREEN INDUSTRIAL ESTATE, LONDON, N11 2UD	WEX246392	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	175m SE	9, GATEWAY MEWS, BOUNDS GREEN, LONDON, N11 2UT	WEX271214	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	175m SE	9, GATEWAY MEWS, BOUNDS GREEN, LONDON, N11 2UT	WEX271214	Storing waste exemption	Not on a farm	Storage of waste in a secure place

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- ◆ Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollutant release to public sewer
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

34

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 57**

ID	Location	Company	Address	Activity	Category
A	On site	BP Service Station	North Circular Road, Haringey, London, Greater London, N11 2UU	Petrol and Fuel Stations	Road and Rail
A	9m SE	Igo Travel	Unit A3d Bounds Green Industrial Estate, Haringey, London, Greater London, N11 2UD	Vehicle Hire and Rental	Hire Services



ID	Location	Company	Address	Activity	Category
A	14m SE	Safestore Ltd	Unit A1 Bounds Green Industrial Estate, Bounds Green Road, Wood Green, London, Greater London, N11 2UD	Container and Storage	Transport, Storage and Delivery
A	14m SE	Odlar Joinery	Unit A2 Down Ringway, Bounds Green Industrial Estate, London, Greater London, N11 2UD	General Construction Supplies	Industrial Products
B	35m NE	Electricity Sub Station	Greater London, N11	Electrical Features	Infrastructure and Facilities
A	44m SE	Transit Parts	Unit B1-2 Up Bounds Green Industrial Estate, Bounds Green Road, Wood Green, London, Greater London, N11 2UN	Vehicle Parts and Accessories	Motoring
B	57m N	Pylon	Greater London, N11	Electrical Features	Infrastructure and Facilities
B	67m N	Mast	Greater London, N11	Telecommunications Features	Infrastructure and Facilities
C	72m S	Girls & Pearls	Unit D1 Down Bounds Green Industrial Estate, Bounds Green Road, Wood Green, London, Greater London, N11 2UD	Jewellery, Gems, Clocks and Watches	Consumer Products
C	72m S	Studio Design & Print	Unit D1 Down Bounds Green Industrial Estate, Bounds Green Road, Wood Green, London, Greater London, N11 2UD	Published Goods	Industrial Products
A	79m SE	Electricity Sub Station	Greater London, N11	Electrical Features	Infrastructure and Facilities
C	88m E	Electricity Sub Station	Greater London, N11	Electrical Features	Infrastructure and Facilities
C	97m E	Insat International	Unit 1a, Gateway Mews, Wood Green, London, Greater London, N11 2UT	Electrical Production and Manipulation Equipment	Industrial Products
C	97m S	Industrial Estate	Greater London, N11	Business Parks and Industrial Estates	Industrial Features
C	108m E	Tower London	Unit 2, Gateway Mews, Wood Green, London, Greater London, N11 2UT	Footwear	Consumer Products
C	114m S	London Trophy Co	Unit E1a Up Bounds Green Industrial Estate, Bounds Green Road, Wood Green, London, Greater London, N11 2UL	Medals, Trophies, Ceremonial and Religious Goods	Consumer Products
C	121m SE	4 Back 4	Unit F2 Bounds Green Industrial Estate, Bounds Green Road, Wood Green, London, Greater London, N11 2UL	Published Goods	Industrial Products



ID	Location	Company	Address	Activity	Category
C	129m SE	Seltex	1 Horizon Trade Park, Ring Way, Wood Green, London, Greater London, N11 2NW	Wood Products Including Charcoal, Paper, Card and Board	Industrial Products
C	129m SE	Storage Services Ltd	Unit 12, Gateway Mews, Wood Green, London, Greater London, N11 2UT	Container and Storage	Transport, Storage and Delivery
C	129m SE	Chelsea Air Conditioning Ltd	Unit 12, Gateway Mews, Wood Green, London, Greater London, N11 2UT	Construction Completion Services	Construction Services
C	133m S	Supergeek Computers	Unit F3 Ringway, Bounds Green Industrial Estate, London, Greater London, N11 2UD	Electrical Equipment Repair and Servicing	Repair and Servicing
C	140m SE	J O'Connor Ltd	2 Horizon Trade Park, Ring Way, Wood Green, London, Greater London, N11 2NW	Mechanical Engineers	Engineering Services
C	151m SE	Electricity Sub Station	Greater London, N11	Electrical Features	Infrastructure and Facilities
C	154m SE	Lord Clothing	Unit 6 Sussex Works, Cline Road, Wood Green, London, Greater London, N11 2LX	Clothing, Components and Accessories	Consumer Products
C	160m SE	Praxis	3 Horizon Trade Park, Ring Way, Wood Green, London, Greater London, N11 2NW	Signs	Industrial Products
C	175m SE	Soundtech Europe Ltd	Unit 8, Gateway Mews, Wood Green, London, Greater London, N11 2UT	Electrical Components	Industrial Products
C	175m SE	Langham Lifts Ltd	Unit 9, Gateway Mews, Wood Green, London, Greater London, N11 2UT	Industrial Repairs and Servicing	Repair and Servicing
C	175m SE	Chimney	Greater London, N11	Chimneys	Industrial Features
C	180m SE	The Grading Bureau	Unit 4 Tealedown Works, Cline Road, Wood Green, London, Greater London, N11 2LX	Special Purpose Machinery and Equipment	Industrial Products
C	186m SE	Electricity Sub Station	Greater London, N11	Electrical Features	Infrastructure and Facilities
D	208m W	Alan Day Group	Alan Day Ltd, Pinkham Way, New Southgate, London, Greater London, N11 3UT	New Vehicles	Motoring
C	222m SE	Gradeline	Unit 5b Sussex Works, Cline Road, Wood Green, London, Greater London, N11 2LX	Textiles, Fabrics, Silk and Machinery	Industrial Products
4	229m E	Electricity Sub Station	Greater London, N11	Electrical Features	Infrastructure and Facilities
5	236m NW	Electricity Sub Station	Greater London, N11	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.



4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 57**

ID	Location	Company	Address	LPG	Status
A	On site	BP	Pinkham Way, New Southgate, London, Inner London, N11 2UU	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

1

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on **page 57**

ID	Location	Company	Address	Operational status	Tier
B	20m NW	British Gas	British Gas, Southgate Holder Station, Station Road	Historical NIHHS Site	-

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0
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Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	3
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Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 57**

ID	Location	Details	
B	53m N	Application reference number: HAZ/92/0004 Application status: Historical Consent Application date: 16/11/1992 Address: British Gas, Southgate Holder Station, Station Road, London, N14 5BH	Details: Storage of 63 tonnes of LPG Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	53m N	Application reference number: HAZ/92/0004/1 Application status: Historical Consent Application date: 04/09/2000 Address: British Gas, Southgate Holder Station, Station Road, London, N14 5BH	Details: Continuation of consent granted under HAZ/92/0004 for the storage of natural gas Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	53m N	Application reference number: HAZ/92/0004/2 Application status: Historical Consent Application date: 30/11/2000 Address: British Gas, Southgate Holder Station, Station Road, London, N14 5BH	Details: Continuation of consent granted under HAZ/92/0004 for the storage of natural gas Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.



4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

4

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 57**

ID	Location	Address	Details	
A	On site	Pinkham Way SF Connect, North Circular Road, New Southgate, N11 2UU	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
A	43m S	Marshall Panelcraft, Unit B, Lower Ringway, Bounds Green Industrial Estate, Bounds Green Road, N11 2UD	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
C	94m S	Carlton Dry Cleaners Services, Unit C7 Down, Northway, Bounds Green Ind Estate, Bounds Green Rd, N11 2UU	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



ID	Location	Address	Details	
C	94m S	Upstage Theatrical Dry Cleaners, Unit D3 Bounds Green Industrial Estate, Bounds Green Road, Bounds Green, N11 2UL	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m	8
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Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 57**

ID	Location	Address	Details	
2	124m NE	HOBART INDUSTRIAL SITE, TELFORD ROA, HOBART INDUSTRIAL SITE TELFORD, ROAD NEW SOUTHGATE LONDON N11	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.0788 Permit Version: 1 Receiving Water: BOUNDS GREENBROOK	Status: REVOKED - UNSPECIFIED Issue date: 09/04/1986 Effective Date: 09/04/1986 Revocation Date: 21/07/1992
3	144m N	OFFICES/LAND UNIT, LOWER PARK ROAD, OFFICES/LAND UNIT LOWER PARK RO, AD OFF STATION ROAD NEW SOUTHG, ATE, LONDO	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTW.0005 Permit Version: 1 Receiving Water: BOUNDS GREENBROOK	Status: REVOKED - UNSPECIFIED Issue date: 02/10/1989 Effective Date: 02/10/1989 Revocation Date: 21/07/1992
E	263m W	Br Land, Muswell, Br Land, Muswell	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TEMP.2408 Permit Version: 1 Receiving Water: PYMMES BROOK	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010



ID	Location	Address	Details	
E	263m W	Br Land, Muswell, Br Land, Muswell	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TEMP.2408 Permit Version: 2 Receiving Water: Pymmes Brook	Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 13/10/2015
F	418m W	PINKHAM WAY CSO, ATLAS ROAD, BARNET, LONDON, N11 3NW	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: CSAC.1088 Permit Version: 2 Receiving Water: BOUNDS GREEN BROOK	Status: VARIED UNDER EPR 2010 Issue date: 07/05/2021 Effective Date: 07/05/2021 Revocation Date: -
F	440m W	PINKHAM WAY CSO, ATLAS ROAD, BARNET, LONDON, N11 3NW	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: CSAC.1088 Permit Version: 1 Receiving Water: BOUNDS GREENBROOK	Status: TRANSFERRED FROM COPA 1974 Issue date: 08/07/1988 Effective Date: 08/07/1988 Revocation Date: 06/05/2021
F	450m W	Oop Alexandra Road	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TEMP.2825 Permit Version: 1 Receiving Water: BOUNDS GREEN BROOK	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
F	450m W	Oop Alexandra Road	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TEMP.2825 Permit Version: 2 Receiving Water: Bounds Green Brook	Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 13/10/2015

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.15 Pollutant release to public sewer

Records within 500m

1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 57**

ID	Location	Address	Details	
C	111m S	ALPHA ENGRAVING CO LTD, F1 SOUTHWAY, BOUNDS GREEN IND EST, BOUNDS GREEN, LONDON, LONDON, N11 2UL	Permission reference: BZ8891 Local Authority: LONDON BOROUGH OF HARINGEY First received date: 01/07/2010	Last received date: 01/01/2018 Status: RECEIVED

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

9

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 57**

ID	Location	Details	
B	21m NE	Incident Date: 26/02/2002 Incident Identification: 60723 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	21m NE	Incident Date: 26/02/2002 Incident Identification: 60723 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	21m NE	Incident Date: 26/02/2002 Incident Identification: 60723 Pollutant: Inert Materials and Wastes:Specific Waste Materials:Specific Waste Materials Pollutant Description: Construction and Demolition Materials and Wastes:Tyes:Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	21m NE	Incident Date: 26/02/2002 Incident Identification: 60723 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	50m NE	Incident Date: 08/07/2018 Incident Identification: 1630353 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	58m NE	Incident Date: 12/01/2019 Incident Identification: 1673640 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
1	110m NW	Incident Date: 20/07/2001 Incident Identification: 30577 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	210m W	Incident Date: 28/08/2003 Incident Identification: 185686 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
6	387m NE	Incident Date: 09/10/2003 Incident Identification: 195121 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

This data is sourced from the Environment Agency and Natural Resources Wales.



4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

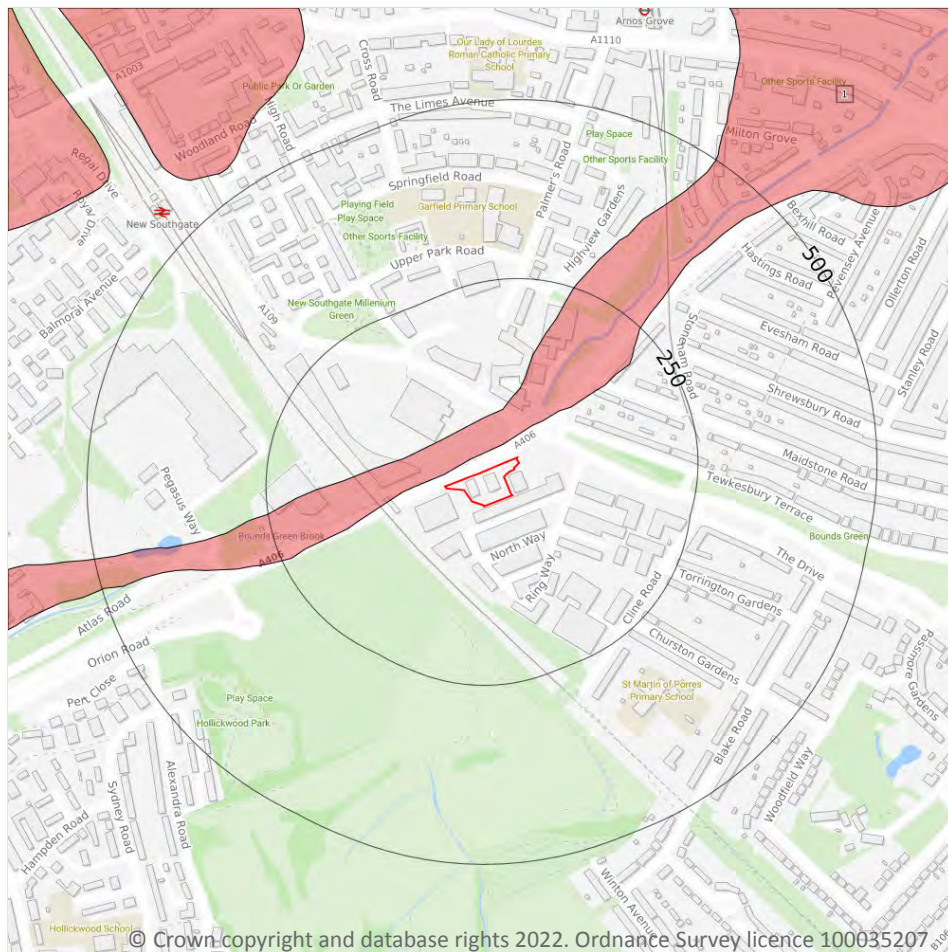
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 68**

ID	Location	Designation	Description
1	16m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

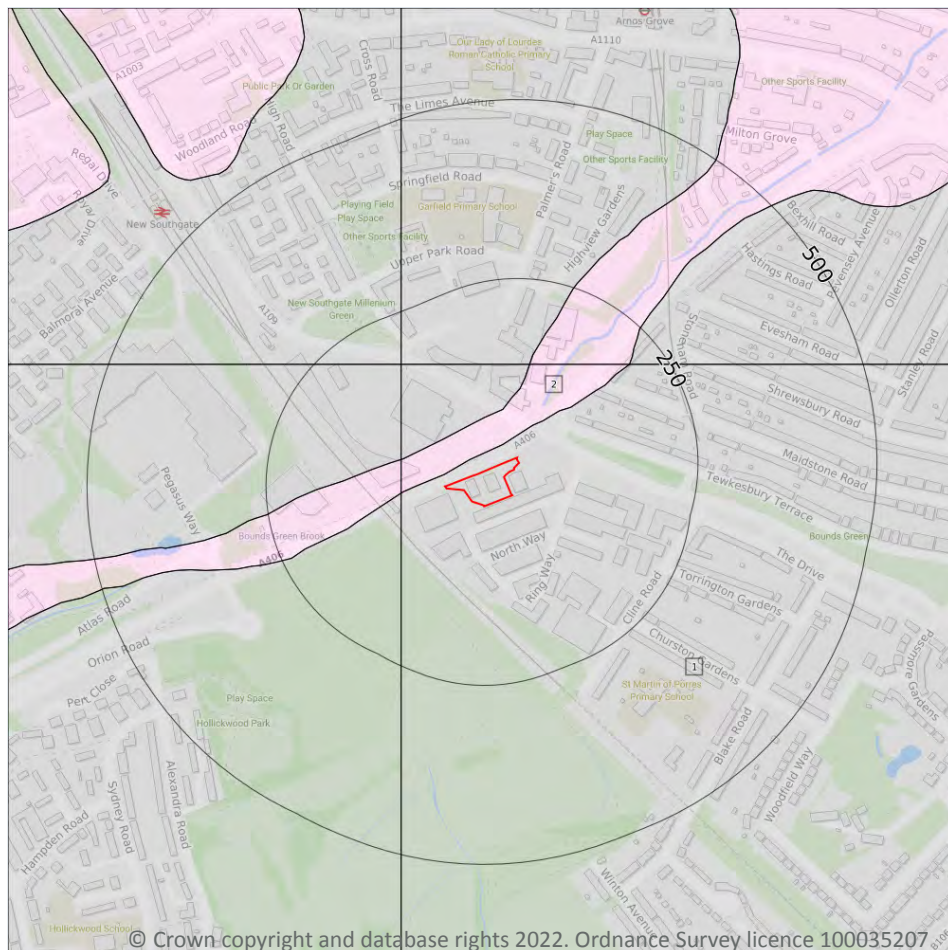
Features are displayed on the Bedrock aquifer map on **page 69**

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid.

Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 70**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
2	15m W	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site

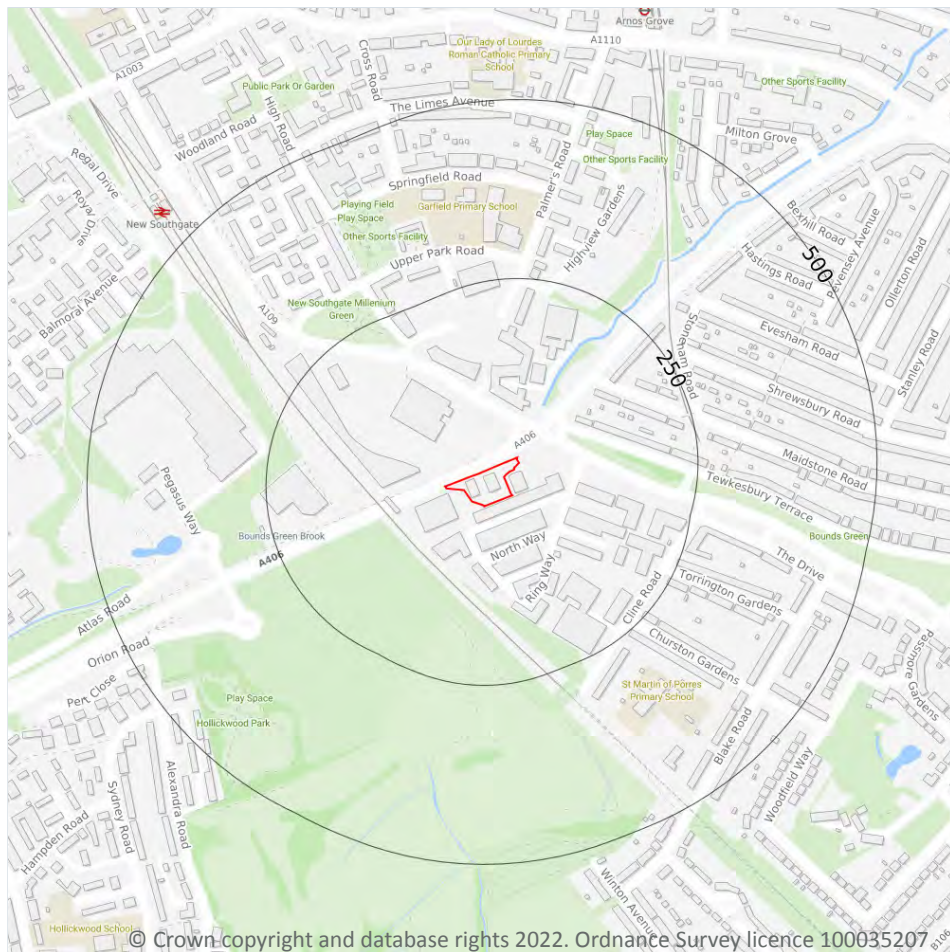
0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.



Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

13

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 72**

ID	Location	Details	
-	906m S	Status: Active Licence No: TH/038/0009/044 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE - CONFINED CHALK AT MUSWELL HILL GOLF CLUB Data Type: Point Name: The Muswell Hill Golf Company Limited Easting: 529066 Northing: 190897	Annual Volume (m ³): 7,300 Max Daily Volume (m ³): 60 Original Application No: NPS/WR/023286 Original Start Date: 30/10/2014 Expiry Date: 31/03/2025 Issue No: 2 Version Start Date: 31/08/2016 Version End Date: -
-	1035m NW	Status: Active Licence No: 29/38/09/0101 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BRUNSWICK PARK ROAD PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 528700 Northing: 192800	Annual Volume (m ³): 165,932 Max Daily Volume (m ³): 454.61 Original Application No: NPS/WR/011805 Original Start Date: 20/09/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
-	1435m E	Status: Active Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WHITTINGTON ROAD - NLARS POINT 11 Data Type: Point Name: Thames Water Utilities Ltd Easting: 530594 Northing: 191734	Annual Volume (m ³): 65,700,000 Max Daily Volume (m ³): 275,000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 104 Version Start Date: 23/07/2013 Version End Date: -
-	1441m E	Status: Historical Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WHITTINGTON ROAD - NLARS POINT 11 Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 530600 Northing: 191730	Annual Volume (m ³): - Max Daily Volume (m ³): 275000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 103 Version Start Date: 16/10/2007 Version End Date: -
-	1452m E	Status: Active Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MYDDLETON ROAD - NLARS POINT 12 Data Type: Point Name: Thames Water Utilities Ltd Easting: 530560 Northing: 191447	Annual Volume (m ³): 65,700,000 Max Daily Volume (m ³): 275,000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 104 Version Start Date: 23/07/2013 Version End Date: -



ID	Location	Details	
-	1457m E	Status: Historical Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MYDDLETON ROAD - NLARS POINT 12 Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 530560 Northing: 191430	Annual Volume (m ³): - Max Daily Volume (m ³): 275000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 103 Version Start Date: 16/10/2007 Version End Date: -
-	1469m NE	Status: Active Licence No: 29/38/09/0099 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BROOMFIELD PARK Data Type: Point Name: LONDON BOROUGH OF ENFIELD Easting: 530300 Northing: 192800	Annual Volume (m ³): 20,457 Max Daily Volume (m ³): 204.50 Original Application No: W/565 Original Start Date: 20/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/07/1980 Version End Date: -
-	1522m E	Status: Historical Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOWES ROAD, ENFIELD - NLARS POINT 44 Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 530660 Northing: 192150	Annual Volume (m ³): - Max Daily Volume (m ³): 275000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 103 Version Start Date: 16/10/2007 Version End Date: -
-	1530m E	Status: Active Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOWES ROAD, ENFIELD - NLARS POINT 44 Data Type: Point Name: Thames Water Utilities Ltd Easting: 530663 Northing: 192172	Annual Volume (m ³): 65,700,000 Max Daily Volume (m ³): 275,000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 104 Version Start Date: 23/07/2013 Version End Date: -
-	1835m E	Status: Historical Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: KING'S ARMS BRIDGE - NLARS POINT 10 Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 530920 Northing: 192400	Annual Volume (m ³): - Max Daily Volume (m ³): 275000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 103 Version Start Date: 16/10/2007 Version End Date: -



ID	Location	Details	
-	1837m E	Status: Active Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: KING'S ARMS BRIDGE - NLARS POINT 10 Data Type: Point Name: Thames Water Utilities Ltd Easting: 530917 Northing: 192415	Annual Volume (m ³): 65,700,000 Max Daily Volume (m ³): 275,000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 104 Version Start Date: 23/07/2013 Version End Date: -
-	1932m SE	Status: Historical Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STATION ROAD - NLARS POINT 13 Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 530480 Northing: 190410	Annual Volume (m ³): - Max Daily Volume (m ³): 275000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 103 Version Start Date: 16/10/2007 Version End Date: -
-	1933m SE	Status: Active Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STATION ROAD - NLARS POINT 13 Data Type: Point Name: Thames Water Utilities Ltd Easting: 530484 Northing: 190412	Annual Volume (m ³): 65,700,000 Max Daily Volume (m ³): 275,000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 104 Version Start Date: 23/07/2013 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

0

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.8 Potable abstractions

Records within 2000m

11

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 72**

ID	Location	Details	
-	1035m NW	Status: Active Licence No: 29/38/09/0101 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BRUNSWICK PARK ROAD PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 528700 Northing: 192800	Annual Volume (m ³): 165,932 Max Daily Volume (m ³): 454.61 Original Application No: NPS/WR/011805 Original Start Date: 20/09/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
-	1435m E	Status: Active Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WHITTINGTON ROAD - NLARS POINT 11 Data Type: Point Name: Thames Water Utilities Ltd Easting: 530594 Northing: 191734	Annual Volume (m ³): 65,700,000 Max Daily Volume (m ³): 275,000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 104 Version Start Date: 23/07/2013 Version End Date: -
-	1441m E	Status: Historical Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WHITTINGTON ROAD - NLARS POINT 11 Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 530600 Northing: 191730	Annual Volume (m ³): - Max Daily Volume (m ³): 275000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 103 Version Start Date: 16/10/2007 Version End Date: -
-	1452m E	Status: Active Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MYDDLETON ROAD - NLARS POINT 12 Data Type: Point Name: Thames Water Utilities Ltd Easting: 530560 Northing: 191447	Annual Volume (m ³): 65,700,000 Max Daily Volume (m ³): 275,000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 104 Version Start Date: 23/07/2013 Version End Date: -



ID	Location	Details	
-	1457m E	Status: Historical Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MYDDLETON ROAD - NLARS POINT 12 Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 530560 Northing: 191430	Annual Volume (m ³): - Max Daily Volume (m ³): 275000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 103 Version Start Date: 16/10/2007 Version End Date: -
-	1522m E	Status: Historical Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOWES ROAD, ENFIELD - NLARS POINT 44 Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 530660 Northing: 192150	Annual Volume (m ³): - Max Daily Volume (m ³): 275000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 103 Version Start Date: 16/10/2007 Version End Date: -
-	1530m E	Status: Active Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOWES ROAD, ENFIELD - NLARS POINT 44 Data Type: Point Name: Thames Water Utilities Ltd Easting: 530663 Northing: 192172	Annual Volume (m ³): 65,700,000 Max Daily Volume (m ³): 275,000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 104 Version Start Date: 23/07/2013 Version End Date: -
-	1835m E	Status: Historical Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: KING'S ARMS BRIDGE - NLARS POINT 10 Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 530920 Northing: 192400	Annual Volume (m ³): - Max Daily Volume (m ³): 275000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 103 Version Start Date: 16/10/2007 Version End Date: -
-	1837m E	Status: Active Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: KING'S ARMS BRIDGE - NLARS POINT 10 Data Type: Point Name: Thames Water Utilities Ltd Easting: 530917 Northing: 192415	Annual Volume (m ³): 65,700,000 Max Daily Volume (m ³): 275,000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 104 Version Start Date: 23/07/2013 Version End Date: -



ID	Location	Details	
-	1932m SE	Status: Historical Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STATION ROAD - NLARS POINT 13 Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 530480 Northing: 190410	Annual Volume (m ³): - Max Daily Volume (m ³): 275000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 103 Version Start Date: 16/10/2007 Version End Date: -
-	1933m SE	Status: Active Licence No: 29/38/09/0157 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STATION ROAD - NLARS POINT 13 Data Type: Point Name: Thames Water Utilities Ltd Easting: 530484 Northing: 190412	Annual Volume (m ³): 65,700,000 Max Daily Volume (m ³): 275,000 Original Application No: - Original Start Date: 26/06/1995 Expiry Date: - Issue No: 104 Version Start Date: 23/07/2013 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

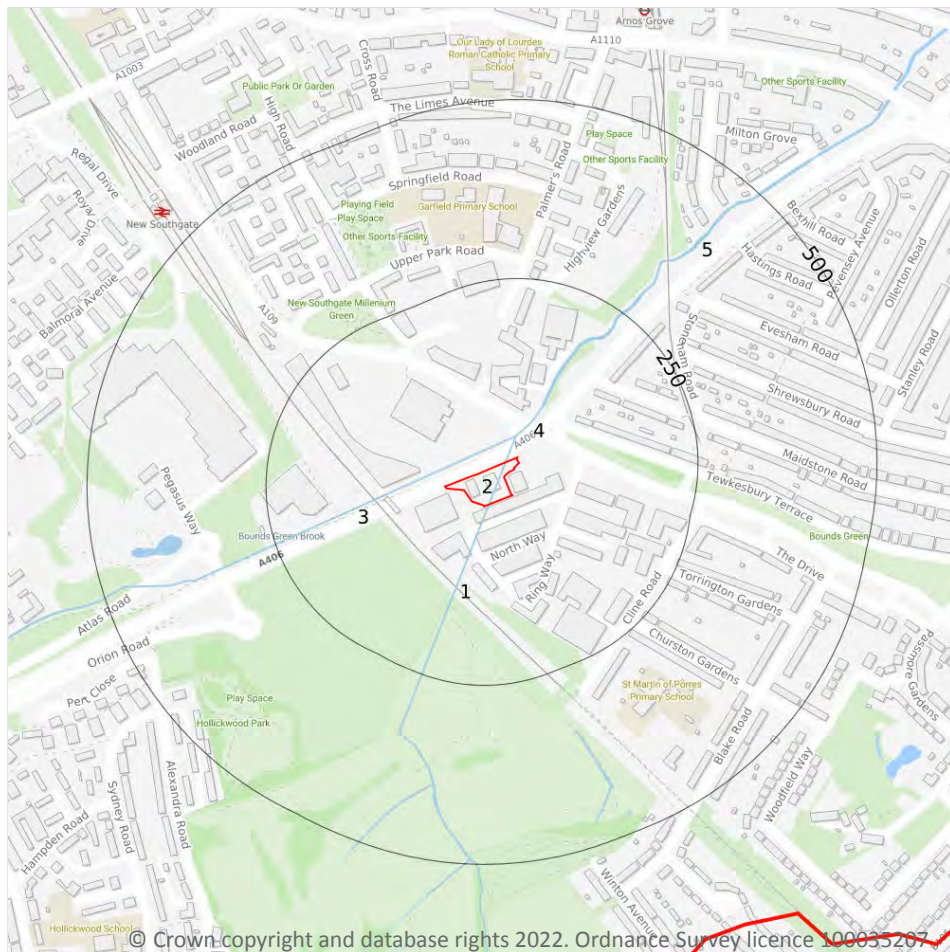
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
----------------------------	----------

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

4

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 79**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
3	23m W	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	Bounds Green Brook
4	30m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	Bounds Green Brook
5	80m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bounds Green Brook

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

1

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 79**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 79**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River	Pymmes Brook upstream Salmon Brook confluence	GB106038027940	Lee Lower Rivers and Lakes	London

This data is sourced from the Environment Agency and Natural Resources Wales.



6.4 WFD Surface water bodies

Records identified

1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 79**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	853m N	River	Pymmes Brook upstream Salmon Brook confluence	GB106038027940	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site

0

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding



— Site Outline
Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

5

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 82**

Distance	Flood risk category
On site	Medium
0 - 50m	High

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	0
----------------------------	----------

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	0
----------------------------	----------

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	0
----------------------------	----------

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

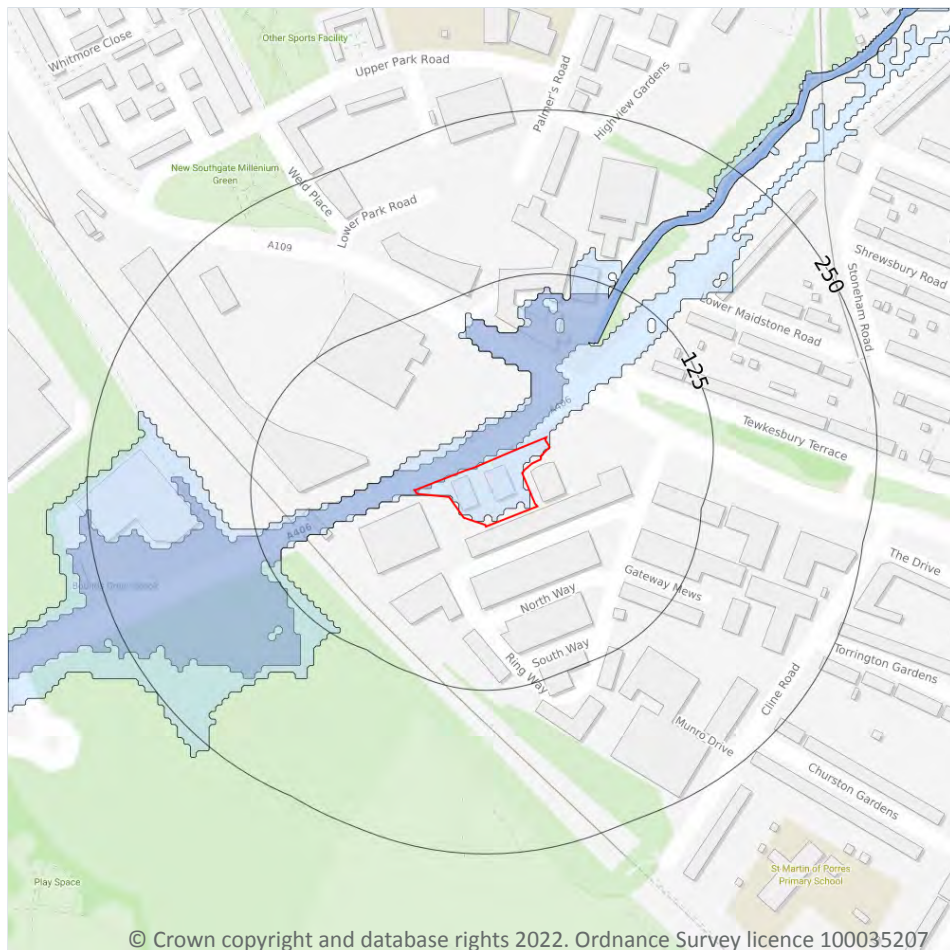
Records within 250m	0
----------------------------	----------

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 82**

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

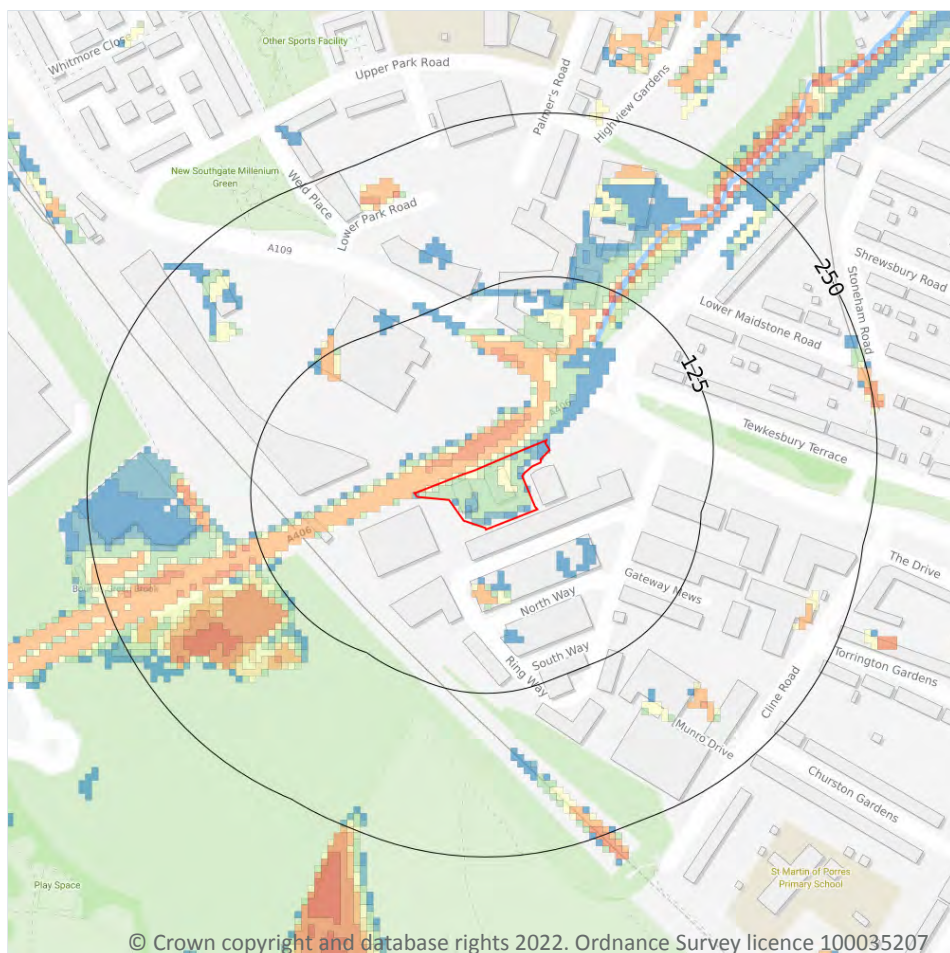
Features are displayed on the River and coastal flooding map on **page 82**

Location	Type
On site	Zone 3 - (Fluvial Models)

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 86**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on

a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

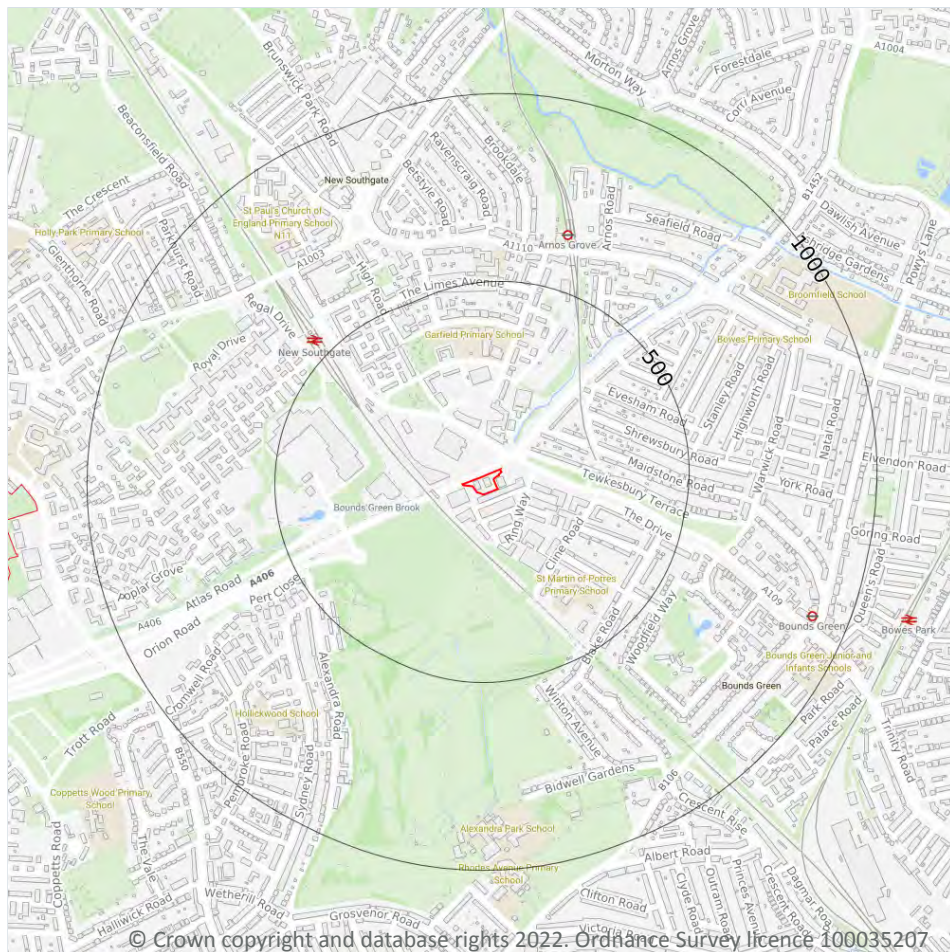
Low

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 88**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- ▤ Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m

4

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 89**

ID	Location	Name	Data source
A	1134m W	Coppetts Wood and Glebelands	Natural England
-	1405m S	Alexandra Palace & Park	Natural England
-	1825m W	Coppetts Wood and Glebelands	Natural England
-	1895m SW	Coldfall Wood	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

2

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 89**

ID	Location	Name	Woodland Type
-	1365m W	Coppetts Wood	Ancient & Semi-Natural Woodland
-	1895m SW	Coldfall Wood	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.



This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**1**

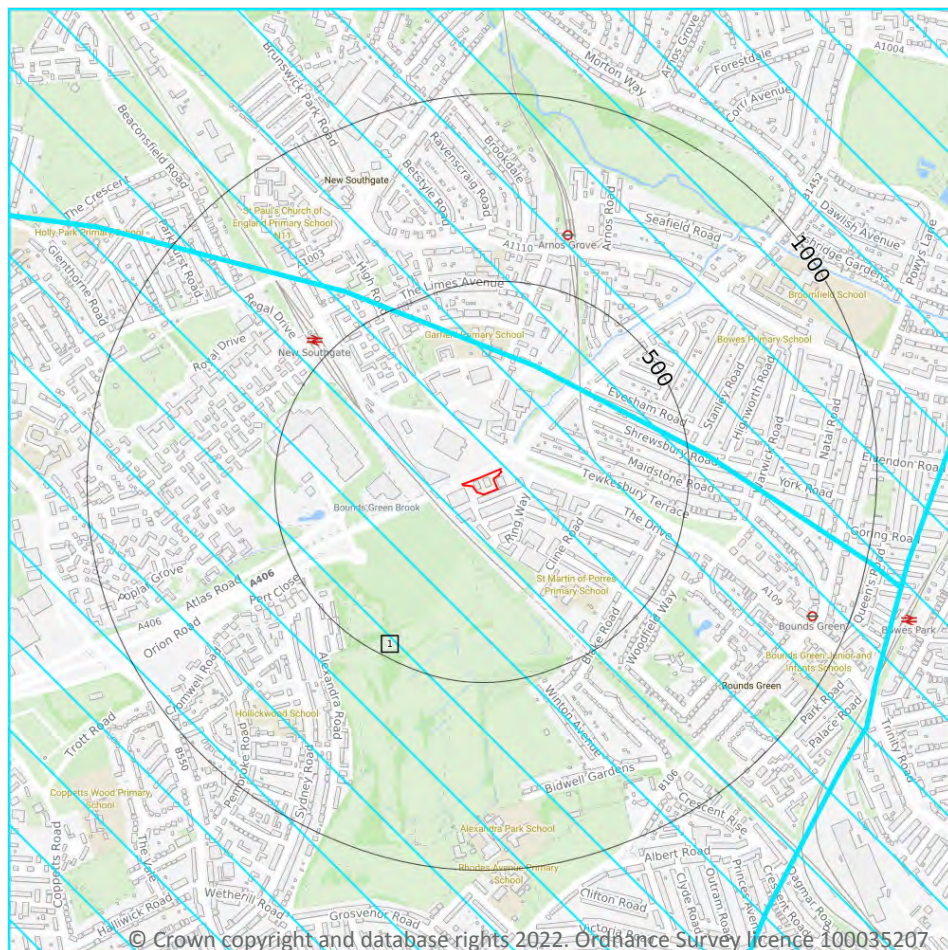
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	LEE NVZ	Surface Water	443	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 94**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t. Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

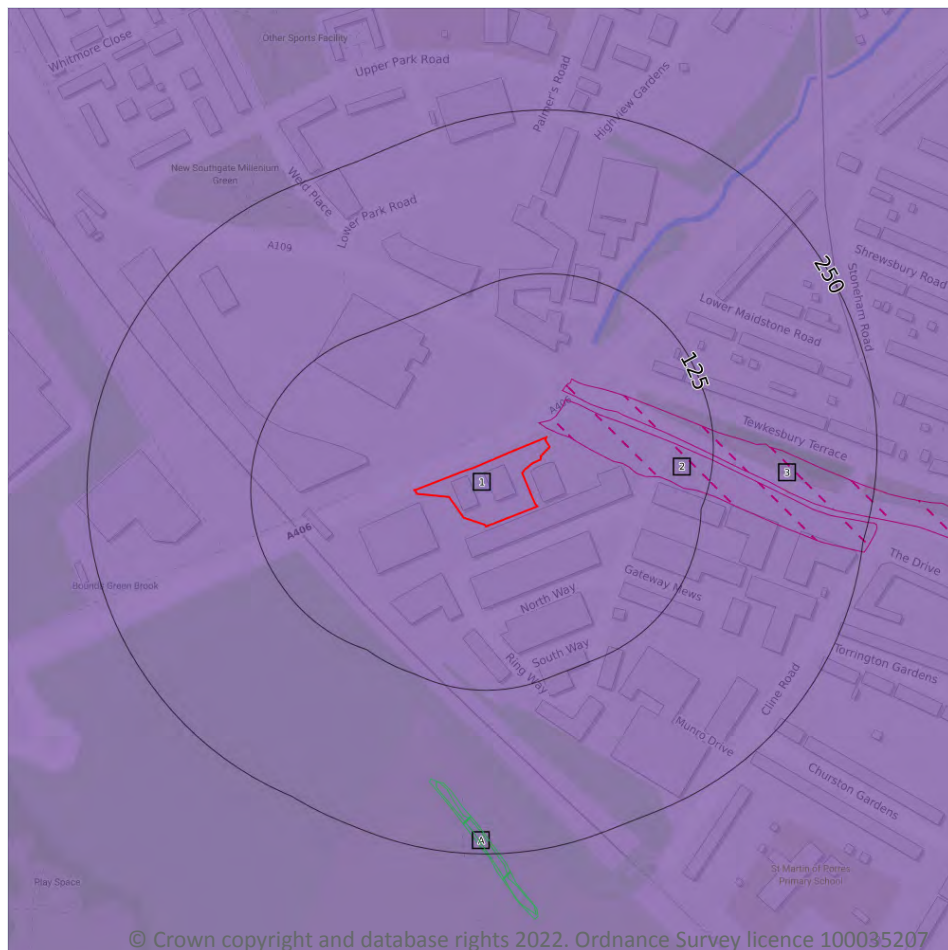
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Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 98**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m

2

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

Features are displayed on the Agricultural designations map on **page 98**

ID	Location	Name	Classification	Other relevant legislation
2	7m NE	Tottenham Commons	Section 15 Land	Metropolitan
3	38m NE	Tottenham Commons	Section 15 Land	Metropolitan

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

2

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on **page 98**

ID	Location	Description	Reference	Application date
A	197m S	Selective Fell/Thin (Unconditional)	019/204/12-13	29/08/2012
A	198m S	Selective Fell/Thin (Unconditional)	019/144/17-18	25/07/2017

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



- Site Outline**
- Search buffers in metres (m)**
- Priority Habitat Inventory
 - Open Mosaic Habitat
 - Limestone Pavement Orders
- Habitat Networks**
- Primary Habitat
 - Restorable Habitat
 - Associated Habitats
 - Habitat Restoration-Creation
 - Network Enhancement Zone 1
 - Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

11

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 101**

ID	Location	Main Habitat	Other habitats
A	61m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
1	79m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	103m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	111m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
3	111m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	135m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	137m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	195m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	216m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	222m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	244m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of

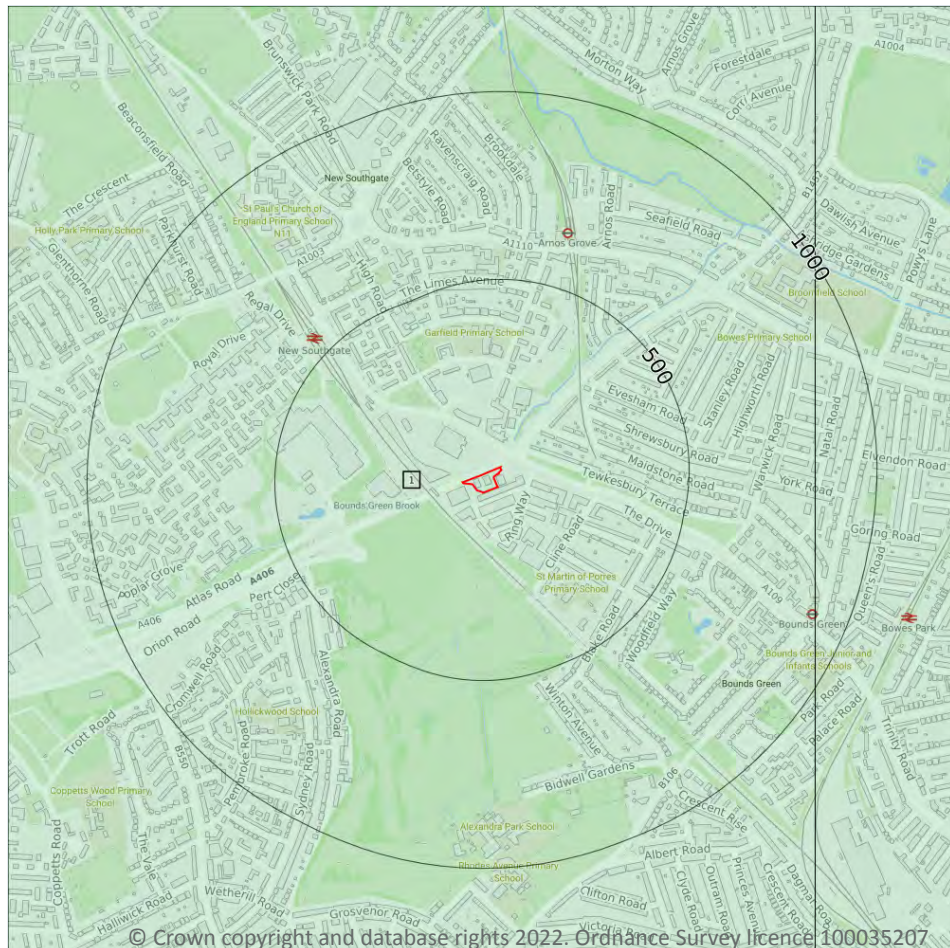


the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme. Features are displayed on the Geology 1:10,000 scale - Availability map on **page 104**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ29SE

This data is sourced from the British Geological Survey.

