Tier 1 Contamination Risk Assessment

Telehouse South Main Works

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1 Executive Summary

DETAILS	SUMMARY OF MAIN TEXT
Introduction	A report has been prepared on the instructions of Black and White Engineering which proposes to further develop the site for commercial purposes. It presents a Tier 1 Contamination Risk Assessment prepared in line with Environment Agency guidance, Land contamination risk management (LCRM)
Site Description	The 1.05-hectare site contains an 11-storey building, three-storey utilities building and associated hardstanding for access and soft landscaping areas.
Site History	Historical mapping indicates the site was previously used as a dock yard in 1867 and has been subject to multiple phases of development including infilling of the former docks. The main existing buildings were constructed around 1989 and the site has been developed for commercial purposes since that time.
Geology	Geological mapping indicates that the site is underlain by superficial deposits comprising alluvium over Kempton Park Gravel. The underlying bedrock comprises London Clay Formation and Lambeth Group. Previous ground investigation on site has proven deep made ground (including the presence of buried relict dock structures, overlying the natural soils. Made ground soils were contaminated with lead and asbestos.
Hydrogeology	Alluvium: Secondary (undifferentiated) aquifer Kempton Park Gravel: Secondary A aquifer London Clay Formation: Unproductive strata SPZ: None
Hydrology	The River Thames is adjacent to the site, along the southern boundary. Surface water is therefore considered to be sensitive to mobile contaminants.
Potential Contamination Sources	The following potential sources of contamination have therefore been identified from the desk study and site reconnaissance: • Made ground and infilled land from previous development • On site historical industrial activities (including dock yard, ship building, rail sidings and fuel storage) • Organic superficial deposits • Off site historical industrial activities including a fuel depot and tanks, coal yard and scrap yard.

DETAILS	SUMMARY OF MAIN TEXT
	• Off site infilled land
Risk evaluation	Potentially complete pollutant linkages have been identified. LCRM requirements are for a ground investigation and Tier 2 quantitative risk assessment to be carried out to meet planning conditions. The site lies within an area of high bomb risk. There is a record of a bomb impact in the northern part of site.
Recommendations	Carry out ground investigation and Tier 2 generic quantitative risk assessment in line with the requirements of LCRM and to meet planning conditions. A scope of work is described in the report. Carry out asbestos surveys of existing buildings that will be demolished or disturbed by development. Carry out further assessment in relation to UXO risks.

2 General Notes

1 This report has been prepared by Sweco and provides available factual data for the site at the time of the study and as obtained from the sources described in the report. The data is related to the site on the basis of the site location information provided by the Customer.

2 It should be appreciated that the desk study information is not necessarily exhaustive and that further information relating to the site may be available.

3 The accuracy of map extracts cannot be guaranteed, and it should be recognised that different conditions on site may have existed between and subsequent to the various map editions.

4 Any borehole data from the British Geological Survey (BGS) sources is included on the following basis: “The British Geological Survey accept no responsibility for omissions or misinterpretations of the data from their Data Bank as this may be old or obtained from non-BGS sources and may not represent current interpretation”.

5 Unless stated otherwise, the identification and assessment of potential of geotechnical issues is excluded from this report, although such assessments can be undertaken by Sweco on request.

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12 The site walkover may record observations relating to asbestos, invasive plant species and building condition. The information is provided without prejudice and does not constitute a survey by a person competent in these disciplines.

13 Unless stated otherwise a site walkover will only record features apparent from the ground surface in accessible and external parts of a site at the time of the visit and as the conditions safely and legally permit. The site walkover is unable to facilitate the following:

a. Identification of underground structures or tanks obscured, for example, by vehicles, materials or receptacles at the surface;

b. Lifting of inspection covers or grilles;

c. Inspection or testing of energy, telecommunications, water supply or similar infrastructure or apparatus; and,

d. Entry into confined spaces, potentially unsafe structures or areas where there is a risk of injury or exposure to harmful or hazardous substances.

3 Introduction

3.1 General

This report has been prepared by Sweco on the instructions of Black and White Engineering.

3.2 Terms of Reference

The terms of reference for the work were set out in the Sweco proposal 66202772-MLM-ZZ-XX-CP-J-0001 dated 1 March 2021 and is for the provision of a Tier 1 Contamination Risk Assessment, intrusive investigation and Tier 2 geoenvironmental assessment.

3.3 Technical Approach

The process of assessment adopted in the report satisfies the Environment Agency guidance, Land Contamination Risk Management (LCRM, 2020) for a Tier 1 contamination risk assessment. Competent persons have been involved in the preparation, checking and approval of the report.

Risk estimation has not been performed in Tier 1.

3.4 Scope of Work

The scope assumes the report will be used to meet planning submission or support the discharge of a planning condition.

The report is based on a desk study and site walkover and uses this information to:

- Interpret historical and current information to establish the location of previous site activities.
- Understand the environmental setting of the site.
- Identify the types of contaminants likely to be present.
- Identify areas or zones that may contain distinct and different types of contamination.
- Identify potential contaminant linkages.
- Identify any potential immediate risks to humans or the environment and provide recommendations.
- Develop an initial conceptual site model.
- Carry out a qualitative evaluation of risks.
- Scope out the likelihood and requirements of a detailed investigation.

3.5 Proposed Development

The assessment is based on future development comprising the construction of a two-storey building located adjacent (west) to the ‘Energy Building’ and a car parking area adjacent (west) to the Telehouse South building. Other areas are understood to remain unchanged. Limited soft landscaping is proposed.

4 The Site

4.1 Location

The site is in the London Borough of Tower Hamlets, adjacent to the Thames River and the nearest postcode is E14 2EH. The site contains an 11 storey Technical Centre Building (Telehouse South) and an adjacent 3 storey utility building (Energy Building), Paul Julius road (main access point) and associated hardstanding and landscaping.

The National Grid Reference for the site is 538646, 180579 and a location plan is presented as Figure 1.

4.2 Geology, Hydrogeology and Hydrology

Geological information has been sourced from Groundsure Geo-insight, BGS (British Geological Survey) geology of Britain Viewer (including borehole search) and BGS 1:50,000 series solid and drift geology sheet. Geology sheet 256, North London, 2006.

The site is underlain by superficial alluvial deposits (clay, silt, sand and peat). Approximately 130m to the northwest, Kempton park gravels are shown to outcrop at the surface. These deposits could extend under the alluvial deposits beneath the site. The superficial deposits overly bedrock comprised of the London Clay Formation (clay, silt, and sand). Approximately 63m to the south, the Lambeth group (clays and silts) are shown to be present beneath superficial deposits and therefore could underlie a shallow thickness of London Clay Formation. The expected sequence of geological units in order of youngest to oldest is, Alluvium, Kempton Park Gravels, London Clay Formation and Lambeth Group.

The maps also show that approximately 53m and to 55m the south and southeast of the site, buried hollows are recorded (likely within the London Clay Formation or Lambeth Group). These quaternary features comprise hollows infilled with disturbed superficial deposits and re-worked bedrock (sands and sandy gravels) which exhibit different characteristics to the surrounding material. There is a possibility that these features may be present under the site.

Table 4.1 Geology

ASPECT	GEOLOGICAL UNIT	DESCRIPTION
Superficial Geology	Alluvium	Clay, silt, sand, and gravel. Typically, soft to firm, compressible silty clay. Can contain lenses/bands of silt, sand, peat or gravel.
	River Terrace Deposits (Kempton Park Gravel Member)	Sand and gravel. Can locally contain lenses of silt, clay and/or peat.

ASPECT	GEOLOGICAL UNIT	DESCRIPTION
Bedrock Geology	London Clay Formation	Silty clay can contain thin sand partings and sandy pockets.
BGS Borehole Data	Total of nine records of on-site borehole are available and include four cable percussive (CP) boreholes drilled to depths ranging between 8.50m to 16.35m bgl and five trial pits excavated to depths ranging between 1.75m to 2.80m bgl. All trial pits terminated within made ground. The four on-site CP boreholes (TQ38SE1883, TQ38SE1881, TQ38SE1882 and TQ38SE1880) generally observed the following sequence; Made ground, comprising concrete and brickwork overlying made ground fill including concrete blocks, clay, timbers, brick, gravel and ash, present to a maximum depth of 8.50m, although typically observed to be around 5.00m thick. Borehole TQ38SE1882 terminated within the made ground after encountering 'massive concrete'. Underlying the made ground are alluvial deposits comprising of either a soft organic rich clay or a peat/clayey peat to depths of between 6.70m to 9.02m. Underlying the peat/organic rich clays, a unit of fine to coarse sands and fine to coarse gravels (likely the Kempton Park Gravel Formation) was recorded to depths of between 12.00m to 14.46m below ground level (bgl). Beneath the superficial deposits, a stiff clay (London Clay Formation) was recorded. The remaining boreholes terminated within this unit between depths of 13.50m to 16.35m bgl. Within a 50m radius, 64 borehole records are readily available and generally the following geological sequence was observed; made ground overlying superficial deposits (alluvium (peat, clays, sands and gravels)), overlying River Terrace Deposits (sands and gravels), overlying London Clay Formation (stiff silty clays).	
Radon	Almost the entire site is covered by a buffer where less than 1% of estimated properties are considered to be affected by radon. A small area along southernmost extent of site is covered by a 1% - 3% radon buffer. The Groundsure report indicates that no radon protection measures are required in new buildings.	

Table 4.2 Hydrogeology

ASPECT	DESCRIPTION	
Superficial Aquifer	Secondary (undifferentiated) aquifer Alluvium	Layers where it is not possible to apply either a Secondary A or B definition because of the variable characteristics of the rock type. These have only a minor value.
	Secondary A Kempton Park Gravel (River Terrace Deposits)	Permeable layers that can support local water supplies and may form an important source of base flow to rivers.
Bedrock Aquifer	Unproductive strata London Clay Formation	Largely unable to provide usable water supplies and are unlikely to have surface water and wetland ecosystems dependent on them.
Source Protection Zone (SPZ)	No SPZ	The site is not within a catchment area where groundwater is discharged to a source.
Confining Layers	No	London Clay Formation is considered impermeable and superficial deposits are unconfined.
Contribution to Baseflow	Likely	Superficial deposits are likely to be in direct hydraulic contact with the River Thames located adjacent to the site. Additionally, surface water runoff will likely directly feed into the Thames.
Groundwater Abstraction	Public water supply boreholes	The Groundsure report contains no active public abstraction licences within 2000m of the site.
	Private abstractions	The Groundsure report indicates that the nearest active abstraction is located 697m to the north east and is used for ‘Make-Up or Top Up Water’.

Table 4.3 Hydrology

ASPECT	DESCRIPTION
Surface water features	The River Thames is located adjacent to site along the southern boundary.
Surface water abstraction	The Groundsure report contains no records within 2000m.
Groundwater flooding	Low risk (based on Groundsure data).

4.3 Previous Reports

Table 4.4 lists the previous reports available for the site.

Table 4.4 Previous Reports

REPORT	SUMMARY
Southern Testing (December 2013) Revised Site Investigation & Risk Assessment Report. Ref: J11439	The following is a summary of the text presented in the report. Geological records indicate the site is underlain by superficial Alluvium over Kempton Park Gravel over London Clay Formation. Historical map searches indicate previous industrial activities on site over the last three centuries. Principally, these have comprised shipbuilding and associated activities. Intrusive investigation comprised the drilling of two 30m deep cable percussive (CP) boreholes, a series of unsuccessful boreholes terminating within made ground (within historic drydock area), five trial pits and 11 cone penetration tests. The following generalised sequence was encountered. Made Ground from ground level to a maximum depth of 11.70m bgl, comprising brown sandy gravelly clay containing bricks concrete from gravel to boulder size. Additionally, concrete slabs and obstructions were encountered predominantly within the historic drydock area. A concrete slab suspected to be the base to the drydock was noted at the bottom of the made ground unit. Underlying the made ground, River Terrace Deposits comprising a loose to medium dense pale brown sandy fine to coarse flint gravel was recorded to depths of between

REPORT	SUMMARY
	11.80m to 12.80m bgl. Beneath the River Terrace Deposits, a stiff to very stiff high strength dark brownish grey clay was encountered to depths of between 12.80m to 20.50m. Underlying the London Clay Formation were Lambeth Group clays described as stiff orange brown mottled blueish green and cream silty clay. CP boreholes terminated within this unit at 30.00m bgl. Three discrete groundwater bodies were recorded; one within the infilled drydock, one within the River Terrace deposits and one within the Lambeth Group. Made Ground across site which included metalliferous slag was noted and could be indicative of elevated levels of contaminants. Environmental laboratory testing showed most samples were within the adopted commercial/industrial screening limits (as of 2013). Samples of made ground containing the 'metal slag' sample contained elevated concentrations of lead above the adopted screening values. Chrysotile asbestos fibres were identified within several made ground samples.

5 Site Reconnaissance and Desk Study

5.1 General

A site walkover has been carried out and a desk-based assessment carried out using information obtained from a Groundsure Enviro Insight report, information published online and from regulatory bodies. The full Groundsure report has been included as Appendix A.

A walkover survey of the site was undertaken on 06 May 2021. Weather conditions were clear. Photographs taken during the walkover are presented in Appendix B.

5.2 Site Description and Use

The site covers an area of 1.05 ha and is irregular in shape. At the time of the walkover, the site contained an eleven storey 'Telehouse South' building in the southwest, a three-storey utility building in the northwest, a landscaped area (comprising shrubs, flowers and bushes) adjacent (east) to the utility building, Paul Julius Close (an access road) in the west and associated hardstanding (macadam, paving slabs, concrete) in the northeast..

Evidence of extensive underground services are located across site with multiple service covers visible around the two buildings.

There were two access points onto site, both located off Blackwall Way and are suitable for vehicular access. The main access point is located in the north west corner where Paul Julius Close road leads off Blackwall Way. The access road runs southwards along the western boundary before turning east in between the technical building and office building. At the time of the walkover the site, could not be accessed off the Thames Path located along the southern boundary.

Site levels were flat.

5.2.1 Surrounding Land Use

The site lies within an urbanised area containing both commercial and residential properties, as well as the A1261 to the north.

The site is bordered by the following:

- North: The A1261 – Aspen Way
- East: Private car park and Blackwall Yard
- South: The River Thames
- West: Commercial and residential properties

5.2.2 Asbestos

The site reconnaissance cannot identify asbestos in buildings on site. There is a possibility, given their age, that asbestos containing materials (ACMs) may be present within these buildings. If these structures are to be demolished, refurbished or disturbed by construction then detailed surveys for asbestos will be necessary.

5.3 Site History

Historical maps have been obtained as part of the Groundsure Report and these are presented in Appendix A.

Table 5.1 Historical Map Summary

YEAR	ON-SITE	0-100m
1867 - 1870	Area marked as a Ship Building Yard. Two launch docks in the south. Two rail lines and several structures present along the western and northern boundaries. Two cranes present in the south west.	Area to the east is marked as a ship building yard, contains a launch dock and graving dock as well as several structures. North and north east rail lines and station/goods drop off/loading point. To the west is Blackwall Yard (ship building yards), multiple docks and graving docks as well as industrial structures. Adjacent to the south is the River Thames.
1896	Large graving dock (and caisson) constructed covering a large proportion of the site, with mooring posts on either side. Dimensions of buildings located along western boundary have changed. Rail siding marked along the rail lines located in the north east.	Few changes to the north and east. 50m north east area marked as G.N.R. Good Depot. Adjacent west two docks infilled and multiple rail lines leading up to the Thames are indicated.
1916	The two remaining launch docks are infilled.	G.N.R. depot marked as Goods and Coal.
1950, 1954	Large structure built in-between the two graving docks covering the eastern boundary. Travelling crane build with tracks rapping around the graving dock. Rail lines removed (other than the ones located along the northern boundary).	50m east, few structures replaced with larger structure.

1964	No major changes from previous editions.	No major changes from previous editions.
1969 - 1971	Travelling crane no longer shown. Rail lines removed.	Adjacent north, goods and coal depot now marked as a scrap metal yard. 15m west, Blackwall Tunnel. 20m west, Ventilation Building (for the Blackwall Tunnel). 60m west, three large tanks. Area marked as oil depot.
1989-1991	Southern half of site has large office building constructed, covering the graving dock. The northern half of the graving dock is still present, its edges are described as slopping masonry.	50m east building no longer shown. 10m north, Aspen Way road constructed.
1991-1992 and 1992-1993	Small structure labelled as a shelter constructed adjacent to the western edge of the remaining part of the graving dock.	Adjacent north, Blackpool Way road marked. Adjacent east, Structure erected in-between the graving dock and office building 25m south, floating jetty constructed.
1993-1994	Paul Julius Close labelled on site (access road).	No significant changes from previous editions.
2003	No significant changes from previous editions.	No significant changes from previous editions.

Historic aerial photography dating back to 1945 shows the site was occupied by a dry dock and a warehouse type structure covering the eastern boundary.

Satellite imagery dating back to 1999 shows the current Telehouse South building present on site with an open/landscaped area to the north retaining the shape of the historic graving dock. Subsequent imagery shows little change until 2015 when construction commences on the 'Energy Building' located north of the Telehouse South structure. The graving dock appears to have been infilled as part of the construction of the Energy building. Construction works appear to have finished by 2017. Remaining satellite images up to 2020 show little on-site change.

Google Street View historic images dating back to 2008 show the Telehouse building with an open green space located to the north. By 2017, the 'Energy Building' is present occupying the previous green space. Subsequent images show little change.

5.4 Environmental Data Searches

Environmental data has been obtained for the site from a Groundsure report and regulatory bodies or their websites. Tables 5.2 to 5.11 summarise the relevant entries.

Table 5.2 Past Land Use

ENTRY	ON-SITE	0-50m
Historical industrial land uses	41 entries with dates ranging between 1867 to 1981. Historical land use was predominately associated with the ship building/maintenance yards with multiple entries described as docks, unspecified yards, railway sidings and ship building yard(s). Goods depots were present, and three entries are marked between 1899 to 1965. More recent entry's note an oil depot present between 1973 to 1981 and a goods and 'coal yard' dated 1955.	22 entries with dates ranging between 1867 to 1994. Associated with ship building/servicing industrial land use entries were described as ship building yards, graving docks, docks, railway sidings, unspecified wharfs, unspecified yards, and ground workings. 46m northwest, railway station (1896)
Historical tanks	One unspecified tank present in 1916 located in the north east corner of site.	Ten records and the closest are 57m west, two unspecified tanks.

Table 5.3 Waste and Landfill

ENTRY	ON SITE	0-250m
Historical waste sites	One entry, scrap metal yard, dated 1967.	Three entries located 220m south west, marked as 'waste transfer stations'.
Historical landfill (EA/NRW records)	None.	Two records, the closest of which is located 115m to the northeast of the site and relates to East India Dock.

ENTRY	ON SITE	0-250m
Licenced waste sites	No entries.	Two entries located 238m south west detailed as household waste, sized as 25000 tonnes. 251m south west, commercial, and Industrial waste station sized as 75000 tonnes.
Waste exemptions	No entries.	236m south west, non-agricultural waste for use in construction.

Table 5.4 Current Land Use

ENTRY	ON SITE	0-50m
Recent industrial land uses	Along southern boundary, floating jetty (mooring and unloading facilities).	Severn records. 3m south east, floating jetty 18m north east, east India Pier (ferries and ferry terminals) 20m and 25m south west, electricity substation. 31m north west, Gantry. 42m north east, graving dock.
Licensed industrial activities (Part A(1))	Two entries for 50MW combustion (any fuel). From 11/01/2019 to 25/01/2021.	15m east, associated process.

Table 5.5 Designated Sites

ENTRY	ON SITE	0-50m
SSSI Impact Risk Zone	Developments requiring consultation, aviation proposals, general combustion processes over 50MW energy input, other incineration and sewage treatment works.	-
Listed Buildings	-	34m south west, grade II, Ventilation Shaft to the Blackwall tunnel. 42m north east, grade II, dry dock.
Agricultural Land Classification	Urban	-
Priority Habitat Inventory	No main habitat but additional habitats present.	24m east, mudflats
Habitat Networks	-	16m south east, Network Enhancement Zone 2 (no habitat specified)
Open Mosaic Habitat	-	40m south west, high identification confidence (supports an array of invertebrates).

Table 5.6 Natural Hazards

ENTRY	On Site
Shrink swell clays	Low (within 50m)
Running sands	Low (within 50m)
Compressible deposits	High (within 50m)

ENTRY	On Site
Collapsible deposits	Negligible (within 50m)
Landslides	Low (within 50m)
Ground dissolution of soluble rocks	Negligible (within 50m)
Radon Affected Area	1-3% of properties affected

Table 5.7 Mining, Ground Workings and Natural Cavities

ENTRY	ON SITE	0-50m
Surface ground workings	14 records dating between 1867 to 1989. 13 entries relating to docks/unspecified docks. One entry refers to an unspecified wharf.	11 records located north east, east and south west all relating to docks, graving docks, and a wharf. 1 record 35m north east described as unspecified ground workings.
Underground works	-	Four records all located 13m south west, Tunnel (Blackwall tunnel)

Table 5.8 Railway Infrastructure and Projects

ENTRY	ON SITE	0-50m
Historic railway and tunnel features	25 entries across site described as either railway sidings or railways.	25 entries, located north, south west and north west described as railway sidings, tunnel or railway.
Crossrail 1	Tunnel Alignment	18m Northwest, tunnel alignment.

5.5 Data from Regulatory Bodies

Table 5.9 Regulatory Data

REGULATOR	DESCRIPTION
Health & Safety Executive (Planning Advice Developments Near Hazardous Installations)	The site is not within the consultation distance of a hazardous installation or pipeline. HSE report is presented in Appendix C.

5.6 Information in the Public Domain

Table 5.10 Fire Insurance Mapping

REGULATOR	DESCRIPTION
Fire insurance maps	Fire insurance maps match with historical maps, all structures shown (mixture of metal, wood, brick buildings) have all been since demolished. Many structures on the fire insurance maps across site are characterised to have concrete floors, remnants of which may be encountered as underground obstructions in future intrusive works across site.

Table 5.11 Unexploded Ordnance (UXO)

SOURCE	ON SITE
Zetica UXO Bomb Risk Map	The site is within an area of high bomb risk.
London Bomb Damage Maps 1939-1945 (Bomb Sight)	Single bomb impact recorded on site on the northern half of site adjacent to the graving dock. Several other (predominantly high explosive) bomb strikes are recorded in the surrounding area.

6 Contaminated Land Risk Assessment

6.1 General

A qualitative risk assessment has been undertaken for the site based on an evaluation of the information collected during the desk study and site reconnaissance.

The process involves the identification of sources of potential contamination based on historical mapping, data searches and site walkover, together with identification of the associated exposure pathways and human or environmental receptors.

A conceptual 'source-pathway-receptor' model has been developed and is described in the sections below.

6.2 Contamination Sources

Based on the information presented in the previous sections, potential sources of contamination that could impact on receptors are identified in table 6.1.

Table 6.1 Potential Contamination Sources

POTENTIAL SOURCES	POTENTIAL CONTAMINANTS
On site	
Made ground/infilled land associated with previous development	Metals, polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (THP), asbestos, ground gas
Historical industrial land uses including ship building, docks and rail sidings	Metals, polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH), solvents, asbestos, ground gas, organic vapour
Historical fuel storage	Total petroleum hydrocarbons (TPH), organic vapour
Organic superficial deposits	Ground gas
Off site	
Historical industrial activities including oil depot, coal yard, scrapyard	Total petroleum hydrocarbons (TPH), ground gas, organic vapour
Historical infilled docks	Ground gas

6.3 Contamination Pathways

Table 6.3 presents a review of potential exposure pathways that could exist at the site.

Table 6.3 Potential Contamination Receptor

POTENTIAL PATHWAYS	PRESENT?	JUSTIFICATION
Direct contact (dermal contact or ingestion) with soil or groundwater – operational phase	Yes	Site users could come into contact with contaminated soils in areas of soft landscaping.
Direct contact (dermal contact or ingestion) with soil or groundwater – construction phase	Yes	Development will involve work in the ground.
Plant uptake and consumption of home produce	No	Garden areas are not in the proposed development.
Inhalation of soil dust, including asbestos fibres	Yes	Development will involve work in the ground.
Leaching from soil down to groundwater	Yes	Infiltration could occur across areas landscape and open space, mobilising soil contaminants and impact on groundwater at depth.
Migration in groundwater	Yes	Near surface superficial deposits are classified as secondary aquifers and are unconfined.
Migration in surface runoff	No	Soils will be exposed during the construction phase and prone to erosion. The River Thames is immediately south of the site. However, the site is flat lying and significant surface run off is not anticipated.
Migration of ground gas and vapour	Yes	Ground gases can enter and accumulate in new buildings and excavations during construction.
Direct contact with new infrastructure and construction	Yes	Development will include new water supply pipes and foundations.

6.4 Contamination Receptors

Table 6.4 lists the receptors on and off the site that could be affected by contamination during the construction and operational phases of development.

Table 6.3 Potential Contamination Pathways

POTENTIAL RECEPTORS	JUSTIFICATION
Future site users	Site users could come into contact with contaminated soils in soft landscaped areas.
Construction and maintenance workers	Site workers could be exposed to contamination during groundworks and services maintenance.
Neighbouring property	Existing properties are bordering the site to the east.
Construction materials	Foundations and services will be constructed in the ground.
Groundwater	The superficial aquifers are unconfined.
Surface water	The River Thames is bordering the site to the south.

6.5 Contaminated Land Risk Evaluation

Risk estimation has not been performed in Tier 1 on the basis that the data obtained from a desk study and site walkover may not identify all hazards or their magnitude. For example, filling activities can take place between historical map editions and may not be identified without intrusive investigation.

As a result, the data from the desk study and site walkover and CSM have been evaluated qualitatively as follows:

- Potential sources of contamination have been identified.
- Potential exposure pathways have been identified.
- The development will introduce new receptors to the site in addition to which there are existing human and non-human receptors on and off the site.

Accordingly, there are considered to be potentially complete SPR linkages that require more detailed assessment at Tier 2.

The site lies within an area of high bomb risk.

7 Conclusions

The 1.05-hectare site contains an 11-storey building, three-storey utilities building and associated hardstanding for access and soft landscaping areas.

Historical mapping indicates the site was previously used as a dock yard in 1867 and has been subject to multiple phases of development including infilling of the former docks. The main existing buildings were constructed around 1989 and the site has been developed for commercial purposes since that time.

Geological mapping indicates that the site is underlain by superficial deposits comprising alluvium over Kempton Park Gravel. The underlying bedrock comprises London Clay Formation and Lambeth Group.

Previous ground investigation on site has proven deep made ground (including the presence of buried relict dock structures, overlying the natural soils. Made ground soils were contaminated with lead and asbestos.

The following potential sources of contamination have therefore been identified from the desk study and site reconnaissance:

- Made ground and infilled land from previous development
- On site historical industrial activities (including dock yard, ship building, rail sidings and fuel storage)
- Organic superficial deposits
- Off site historical industrial activities including a fuel depot and tanks, coal yard and scrap yard.
- Off site infilled land

The River Thames is adjacent to the site, along the southern boundary. Surface water is therefore considered to be sensitive to mobile contaminants.

A preliminary risk assessment has identified potentially complete pollutant linkages, which could present a risk to future site users, groundwater, surface water and, during the construction phase, site workers and neighbouring properties.

It is recommended that a Tier 2 quantitative risk assessment is undertaken to confirm desk study findings and refine the CSM and risk assessment, a possible scope of which to meet planning conditions is described in the following section.

The site lies within an area oh high bomb risk with a record of a single bomb impact in the northern section of site. Further investigation and assessment into the risk from Unexploded Ordnance (UXO) should be undertaken prior to the commencement of any ground investigation.

8 Recommendations for Further Work

Based on the findings of the desk study and site reconnaissance, potential sources of contamination have been identified and a tier 2 intrusive ground investigation should be undertaken prior to development works and will be a requirement of planning consent.

The investigation should incorporate the following elements:

- Sampling of made ground and shallow soils from boreholes or trial pits
- Monitoring wells and an appropriate number of visits to characterise ground gases.
- Collect groundwater samples
- Chemical laboratory testing for metals, PAHs, TPH, cyanide, phenols, asbestos and organic matter content.
- Technical report incorporating an updated conceptual site model and quantitative risk assessment with outline requirements, if any, for remedial works necessary for the proposed development

The ground investigation should be carried out in accordance with BS5930:2015+A1:2020 Code of practice for ground investigation.

The exploratory holes should cover an even spread of the site as well as targeting anticipated areas of made ground.

Monitoring wells should be positioned and constructed with the following objectives:

- Establish groundwater flow direction: minimum of three wells will be required.
- Monitoring along the site boundary with off-site fuel depots and tanks.
- Response zones to target certain strata: made ground, aquifer layer or pathways for gas migration.

Future planning conditions relating to further investigations can require the following: Agree in writing the scope of work with regulators prior to investigation. If this is not possible because either the work is pre-planning, confidential or time constrained, the scope of work contained within this report should be implemented and, if necessary, supplementary work carried out following regulator consultation.

Provide a report setting out what works/clearance of the site (if any) are required in order to effectively carry out ground investigations.

In this respect, there are buildings/activities on site that could prevent a full investigation and works may need to be phased and completed following demolition.

An asbestos survey can be commissioned from SWECO if the existing buildings on site are to be demolished or disturbed by construction work.

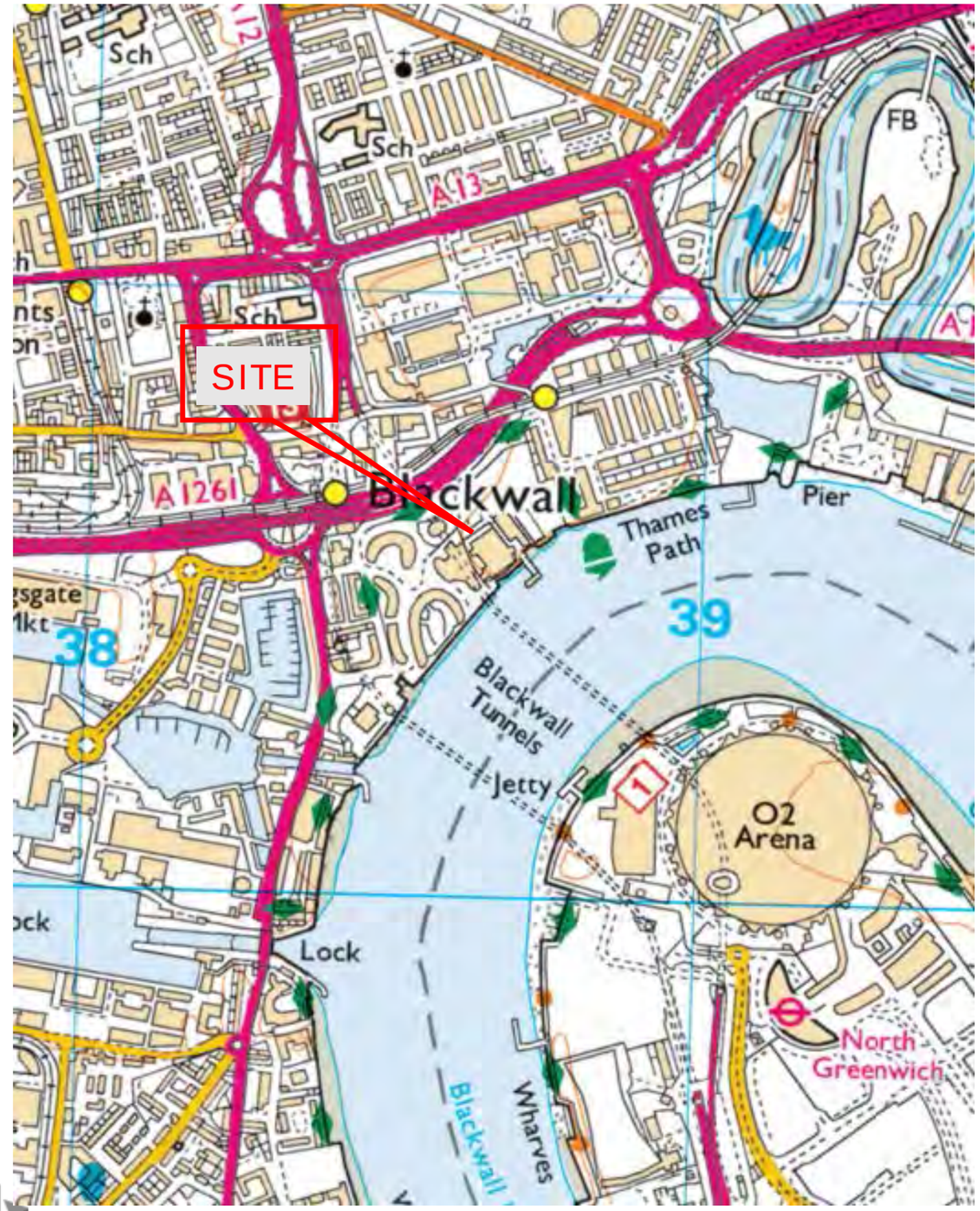
A survey to identify the presence or absence of potentially invasive species should be undertaken by a specialist ecologist.

The site has a high risk of potential UXO and, under CDM Regulations, the Customer has a responsibility to ensure so far as reasonably practicable the health and safety of those involved in the ground investigation. To meet their health and safety duties, a UXO assessment should be commissioned by the Customer prior to any intrusive investigation being undertaken.

The following reports may also be required for planning and can be provided by Sweco:

- Ecology and trees
- Flood risk and drainage strategy
- Transport
- Air quality
- Noise and vibration.

Figures



REV	DATE	REVISION	MADE	CHK	APP
C01	28.05.2021	-	TC	JW	JW

DRAWING STATUS

FINAL ISSUE

SUITABILITY DESCRIPTION

SUITABLE FOR INFORMATION

Sweco
Building 7200
Cambridge Research Park
Cambridge
CB25 9TL
Tel: +44 (0)1223 632 800
Web: www.sweco.co.uk

SWECO

CLIENT

BLACK AND WHITE ENGINEERING

DRAWING TITLE

SITE LOCATION PLAN

PROJECT

TELEHOUSE SOUTH MAIN WORKS

SCALE	MLM REF.	STATUS	REVISION
NTS @A3	65202635	S2	C01

PROJECT	ORIGINATOR	VOLUME/ SYSTEM	LEVELS & LOCATIONS	TYPE	ROLE	NUMBER
65202635	SWE	ZZ	XX	DR	J	FIG 1

Appendix A – Groundsure Report

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: 1056 Scale Town Plan

Map date: **1867**

Scale: 1:1,056

Printed at: 1:1,056

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

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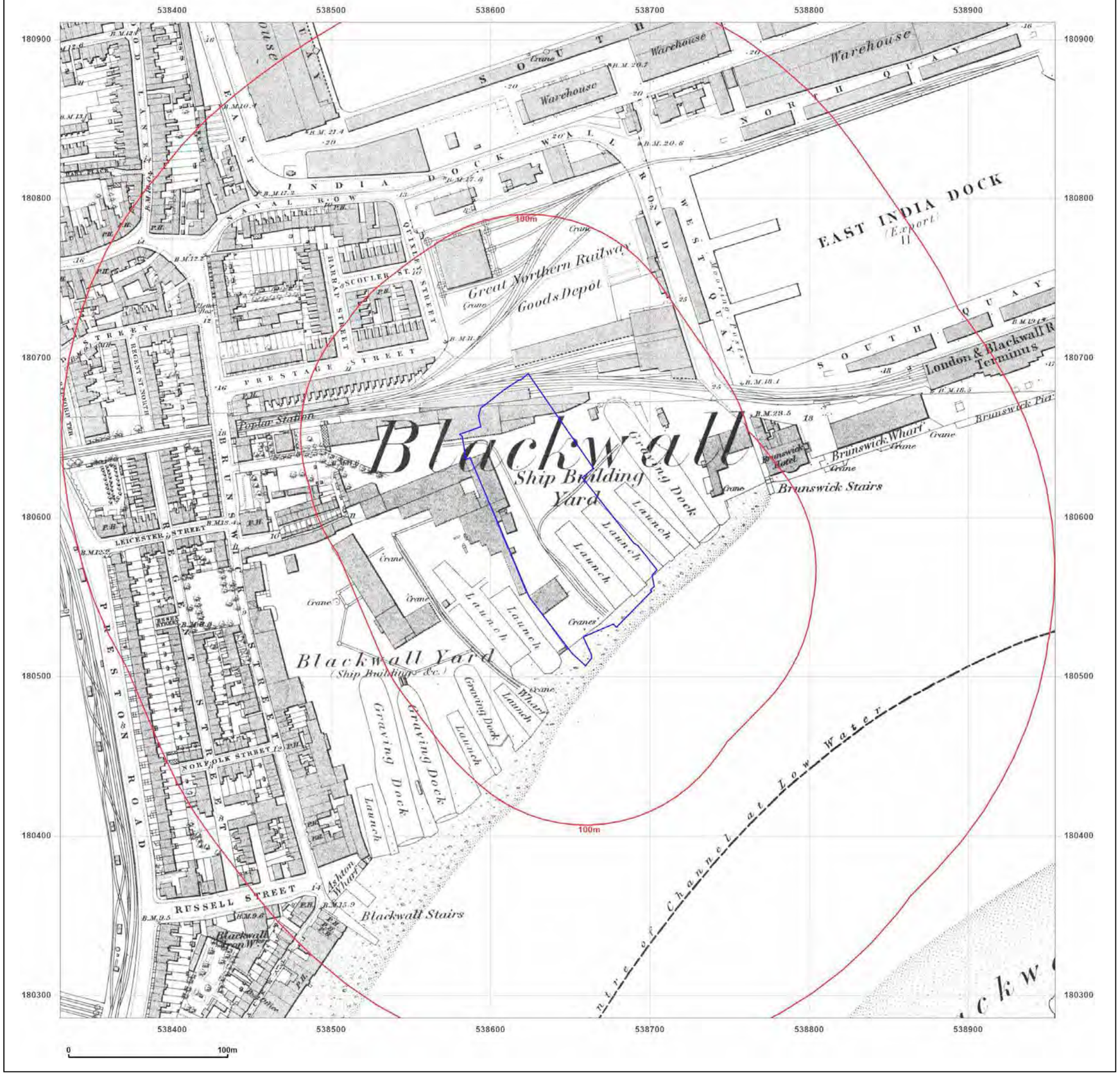

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: County Series

Map date: **1869**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1867
Revised N/A
Edition 1869
Copyright N/A
Levelled N/A

Surveyed 1867
Revised N/A
Edition 1869
Copyright N/A
Levelled N/A

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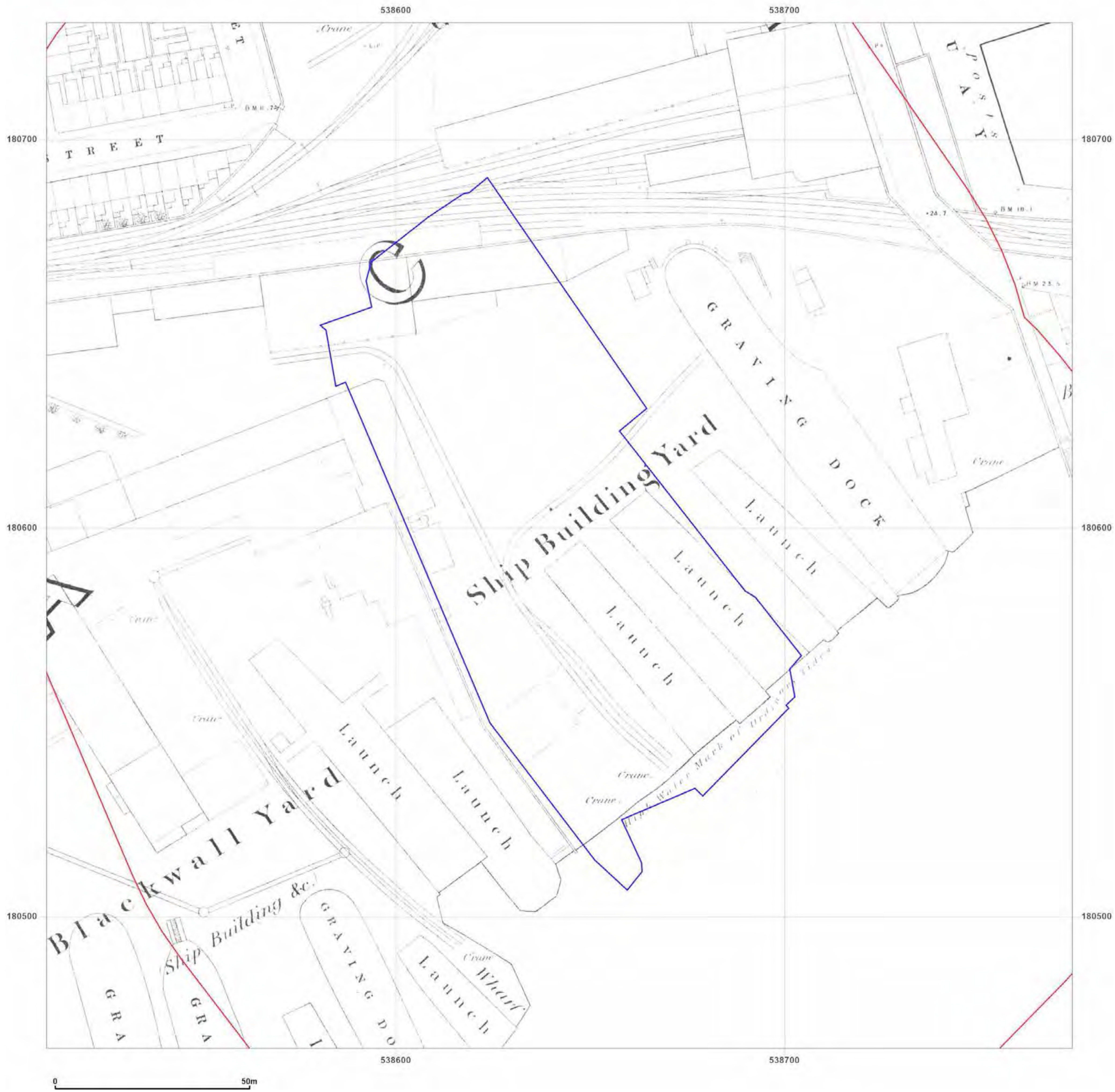

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: 1056 Scale Town Plan

Map date: **1870**

Scale: 1:1,056

Printed at: 1:1,056

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

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MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: 1056 Scale Town Plan

Map date: **1896**

Scale: 1:1,056

Printed at: 1:1,056

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Surveyed 1893
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Edition 1896
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Levelled N/A

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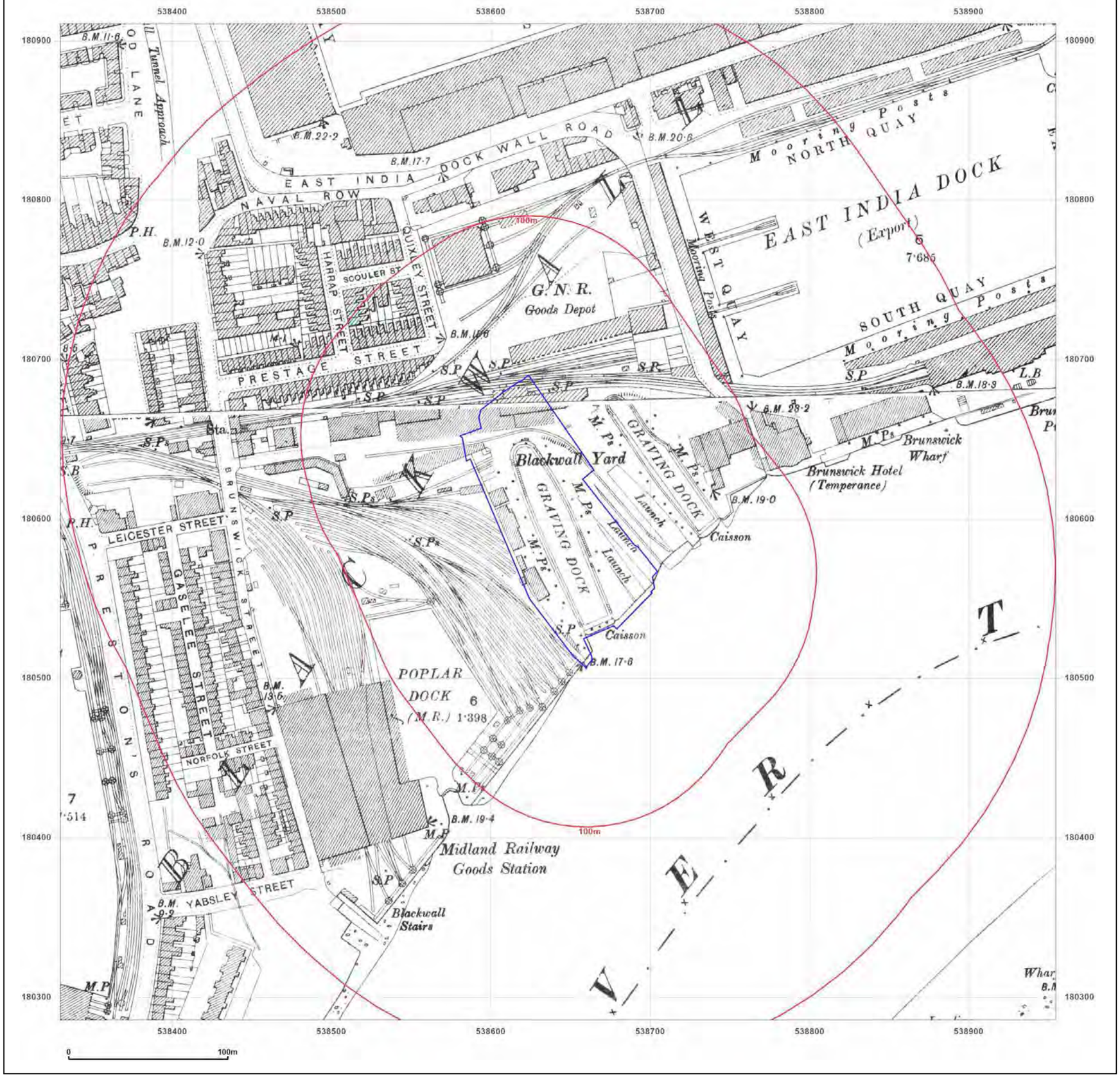

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: County Series

Map date: **1896**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1896
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1896
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

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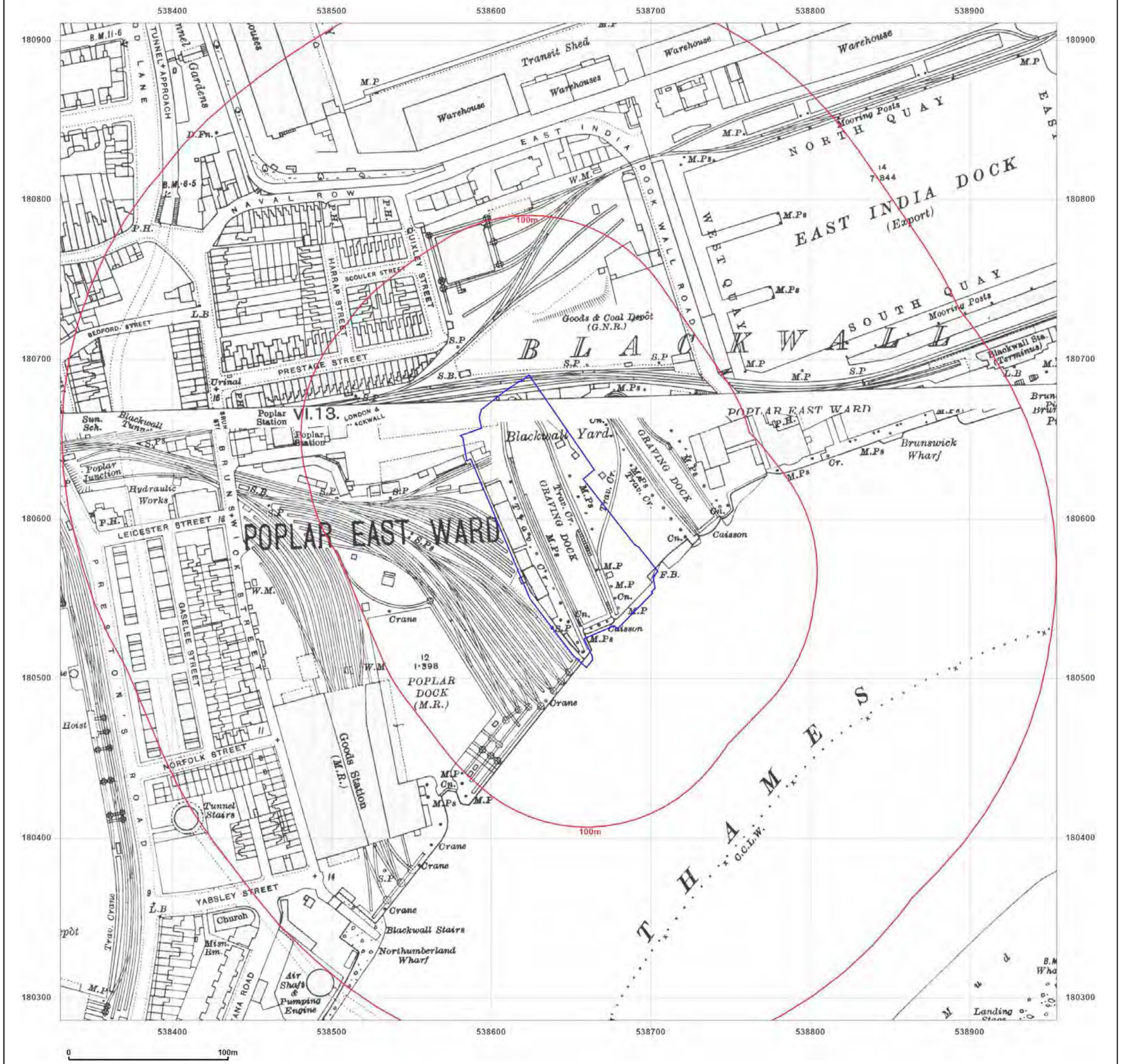

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: County Series

Map date: **1916**

Scale: 1:2,500

Printed at: 1:2,500

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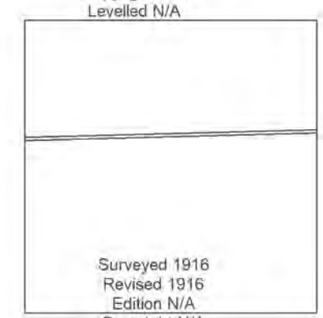
Surveyed 1916
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A



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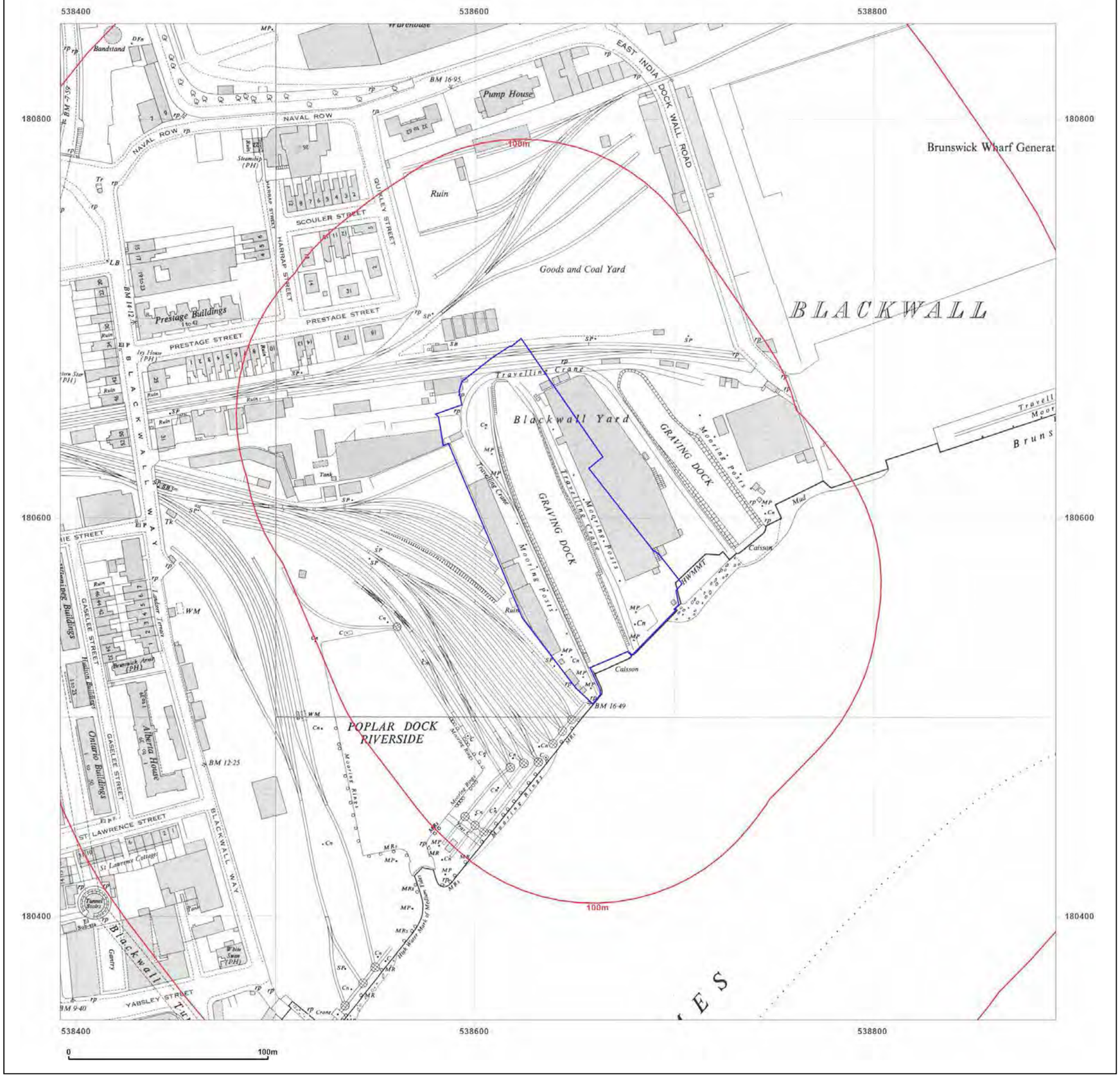

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1950**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1950 Revised 1950 Edition N/A Copyright N/A Levelled 1934	Surveyed 1950 Revised 1950 Edition N/A Copyright N/A Levelled 1934
Surveyed 1950 Revised 1950 Edition N/A Copyright N/A Levelled 1934	Surveyed 1950 Revised 1950 Edition N/A Copyright N/A Levelled 1934

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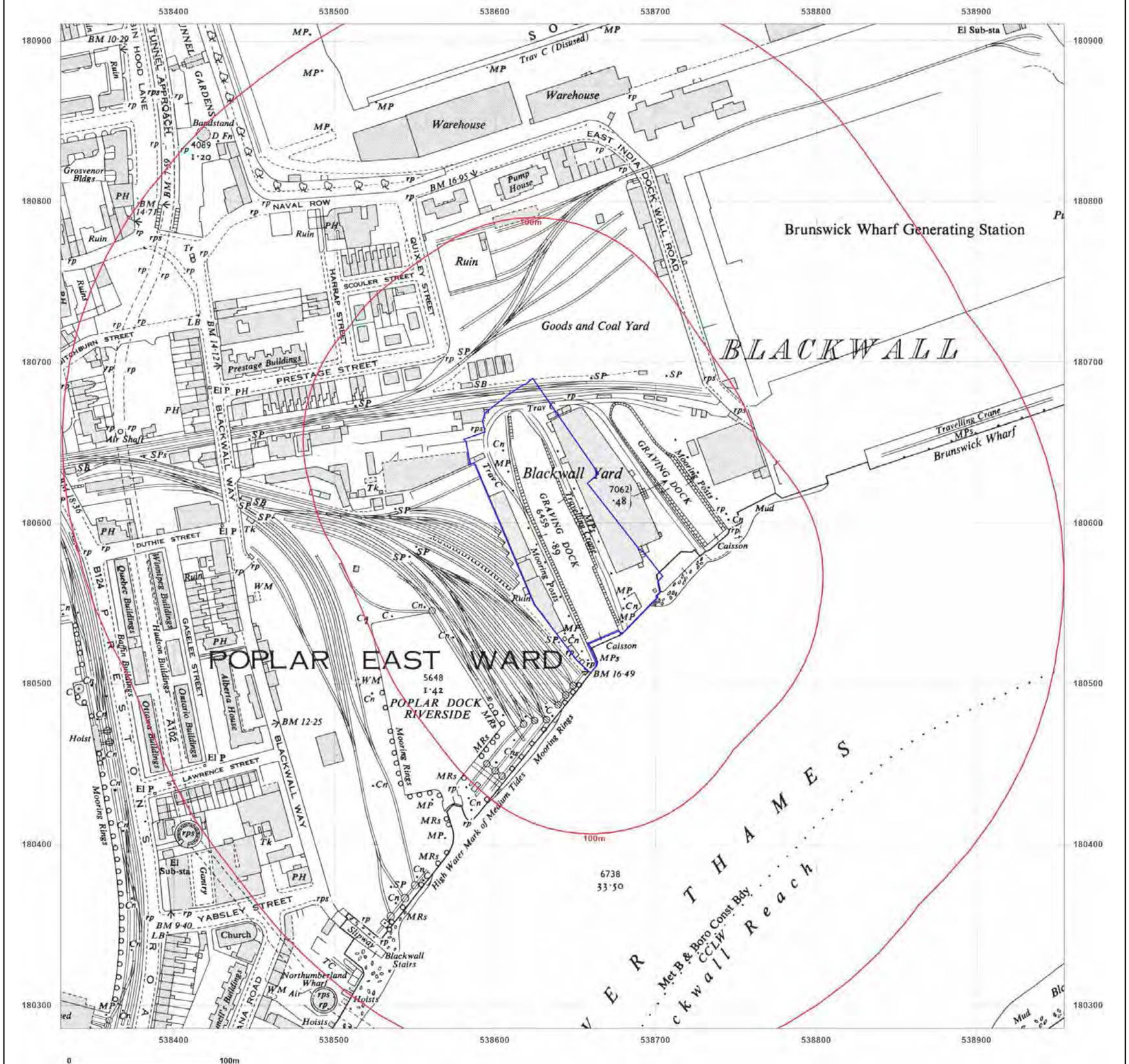

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Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1950**

Scale: 1:2,500

Printed at: 1:2,500

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Levelled N/A

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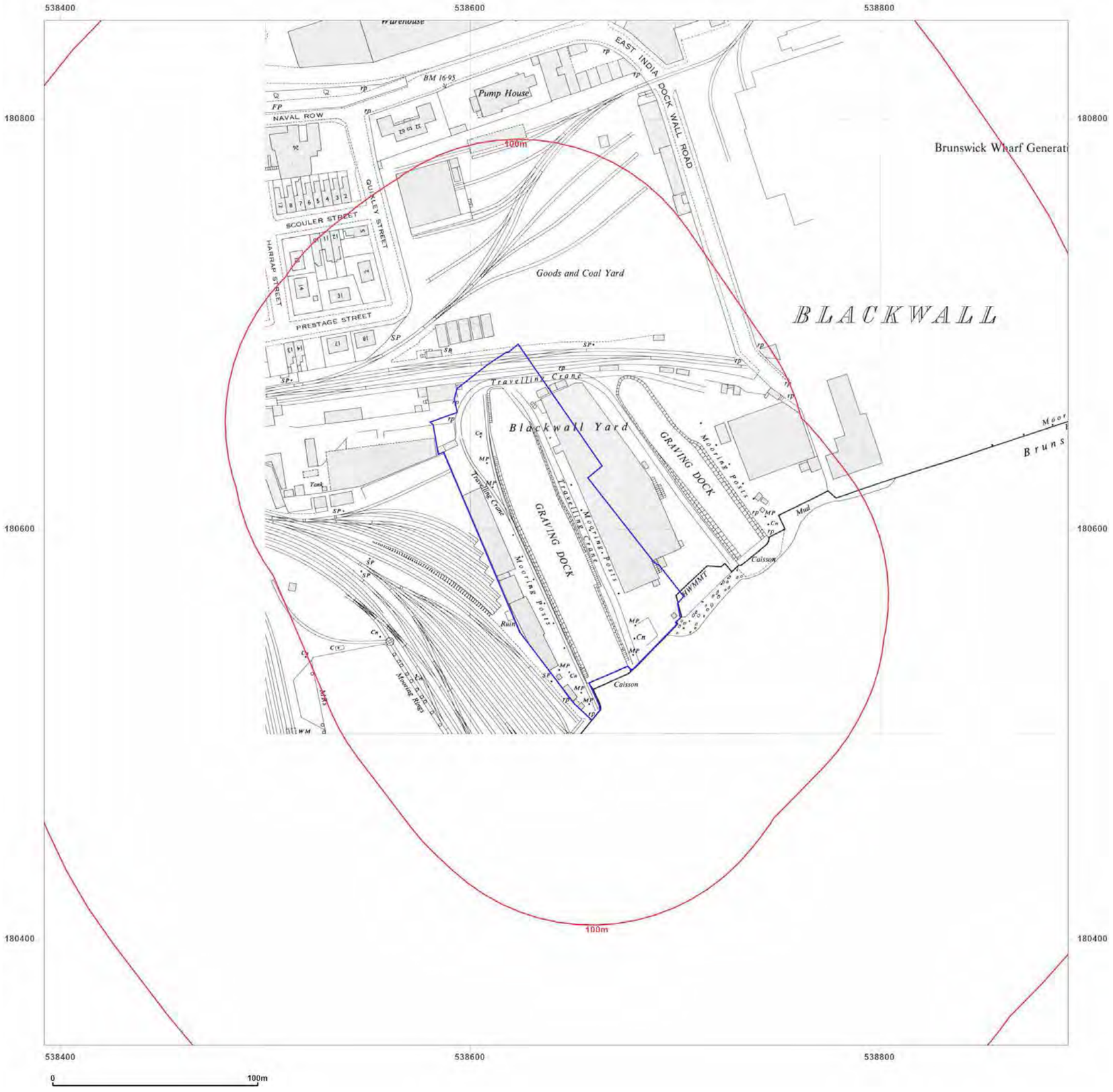

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1951**

Scale: 1:1,250

Printed at: 1:2,000

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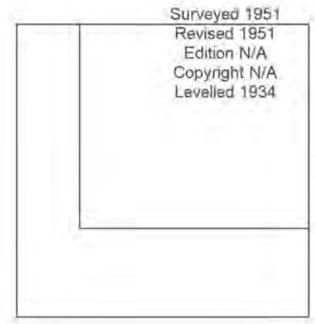

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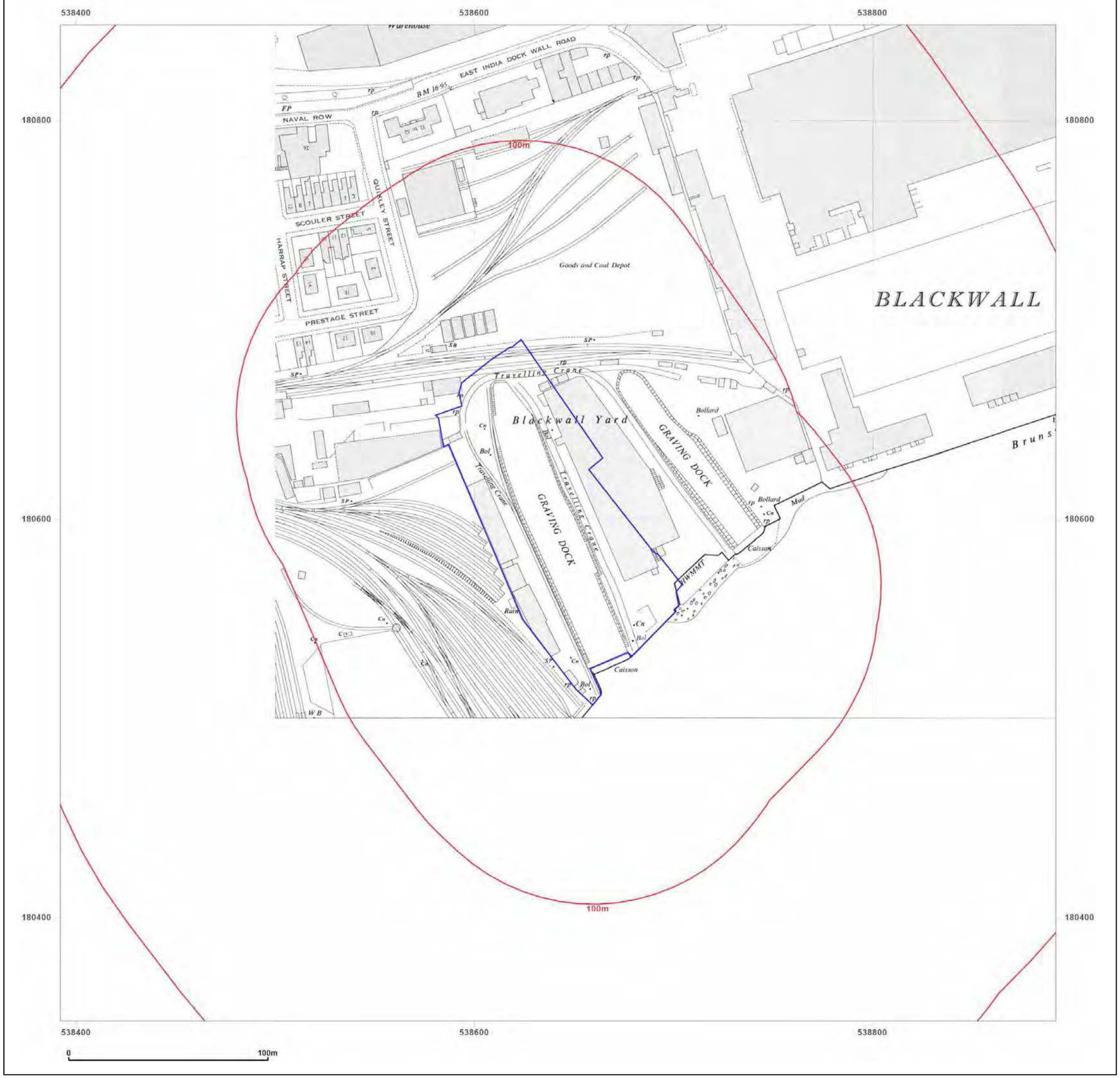

MLM. Group
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Site Details:

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Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1954**

Scale: 1:1,250

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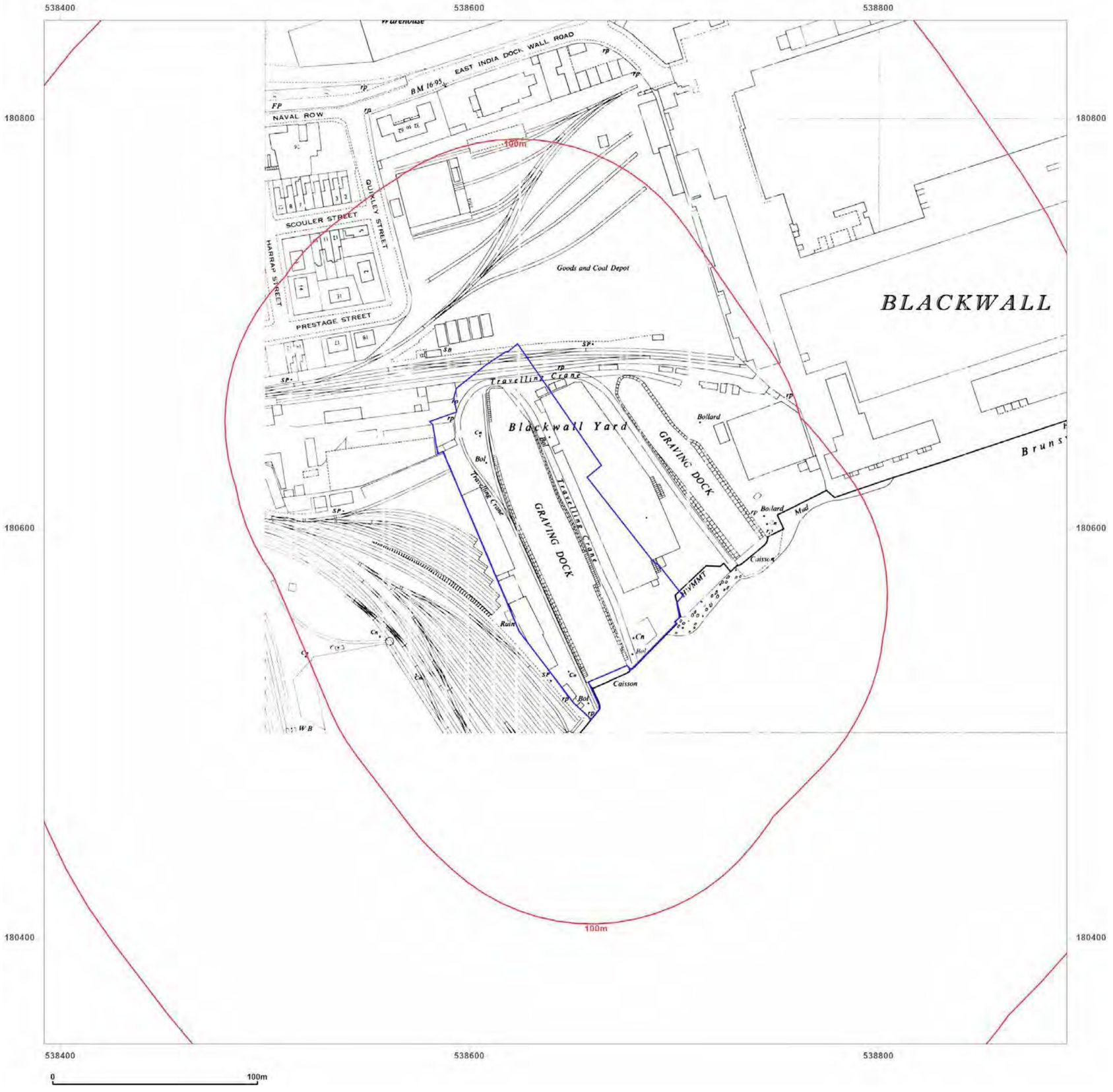

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1955**

Scale: 1:1,250

Printed at: 1:2,000

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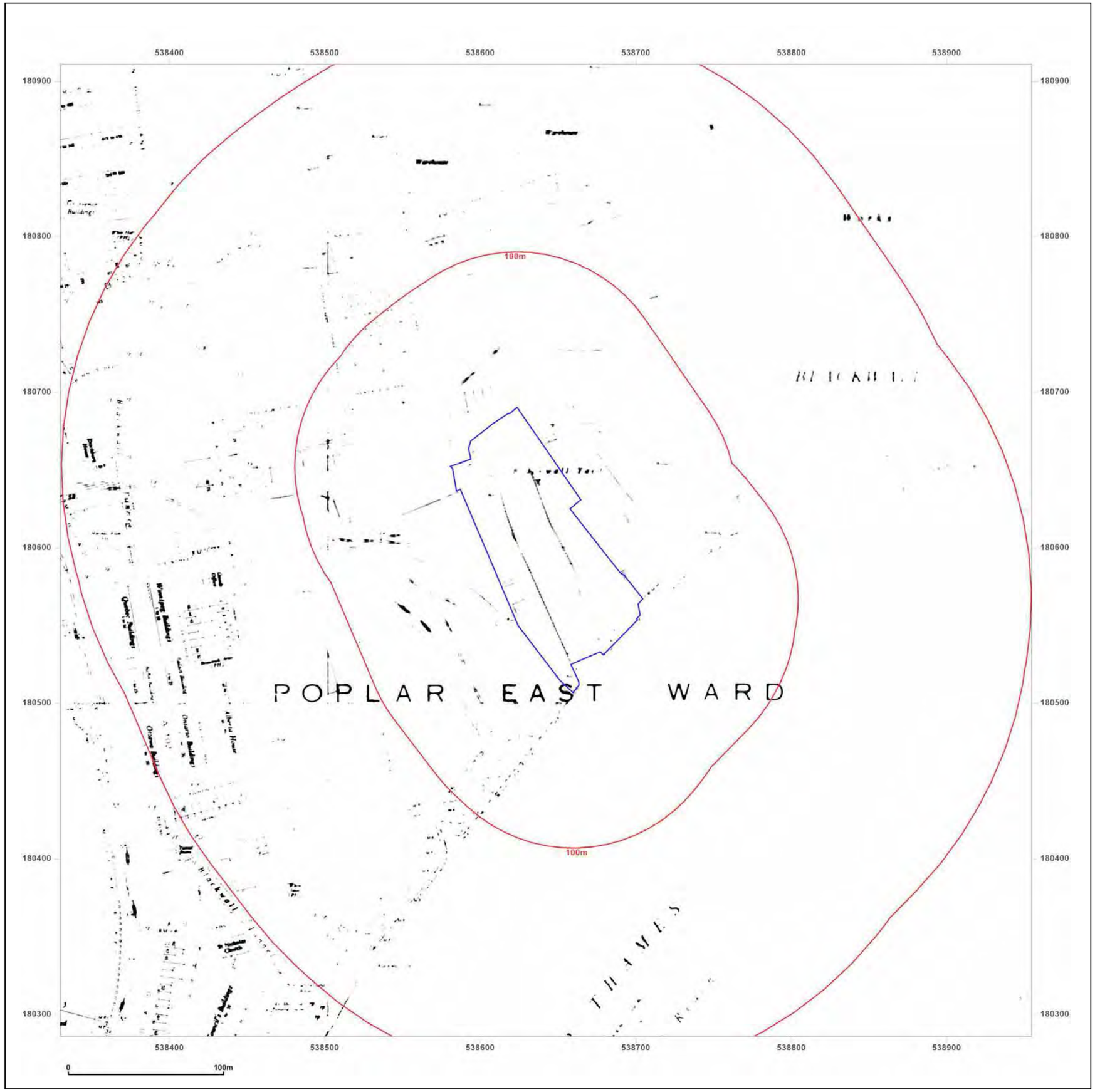

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1964**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed N/A
Revised N/A
Edition 1964
Copyright N/A
Levelled N/A

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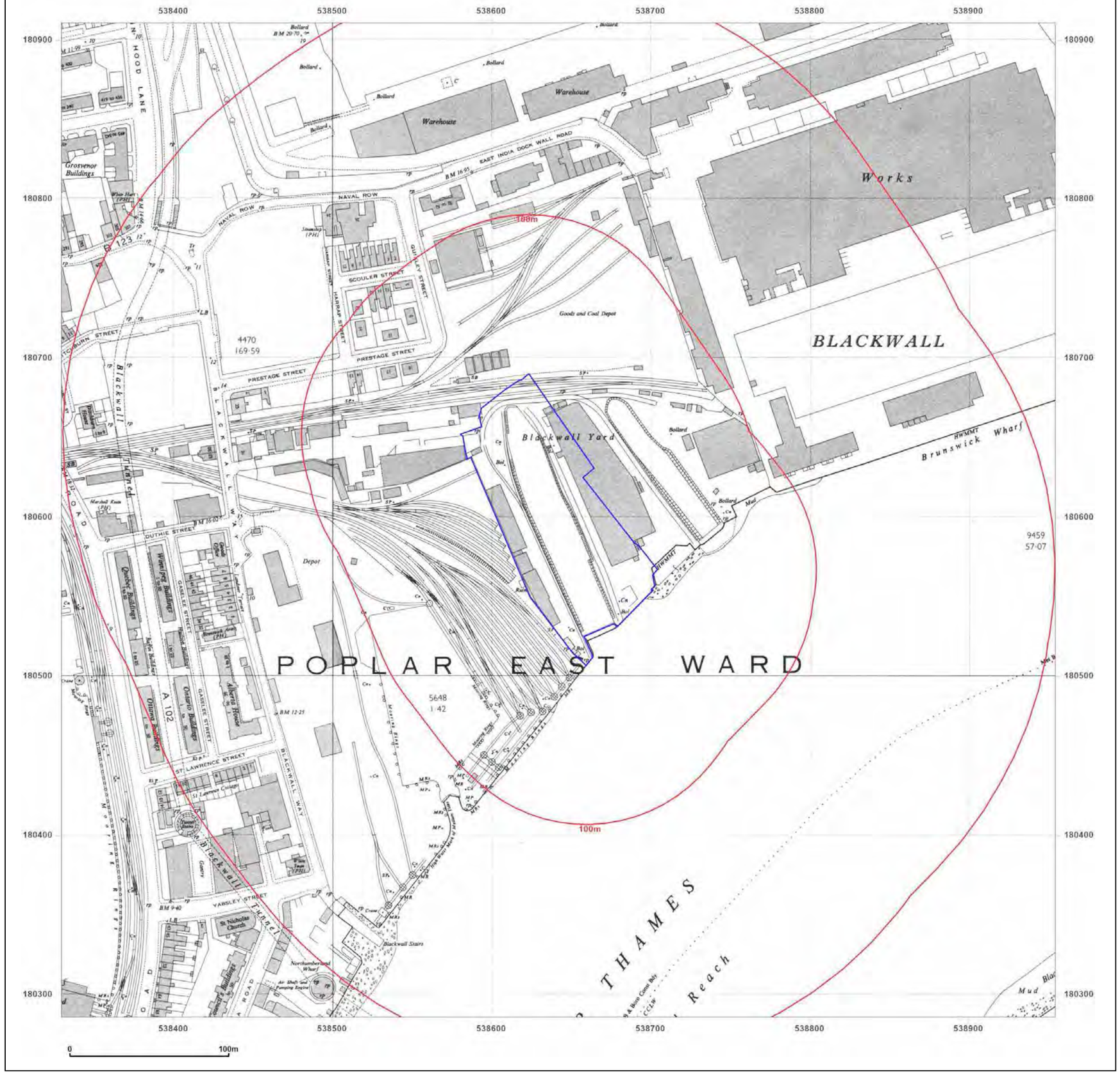

MLM. Group
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Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1964**

Scale: 1:2,500

Printed at: 1:2,500

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Revised 1961
Edition 1964
Copyright 1964
Levelled 1953

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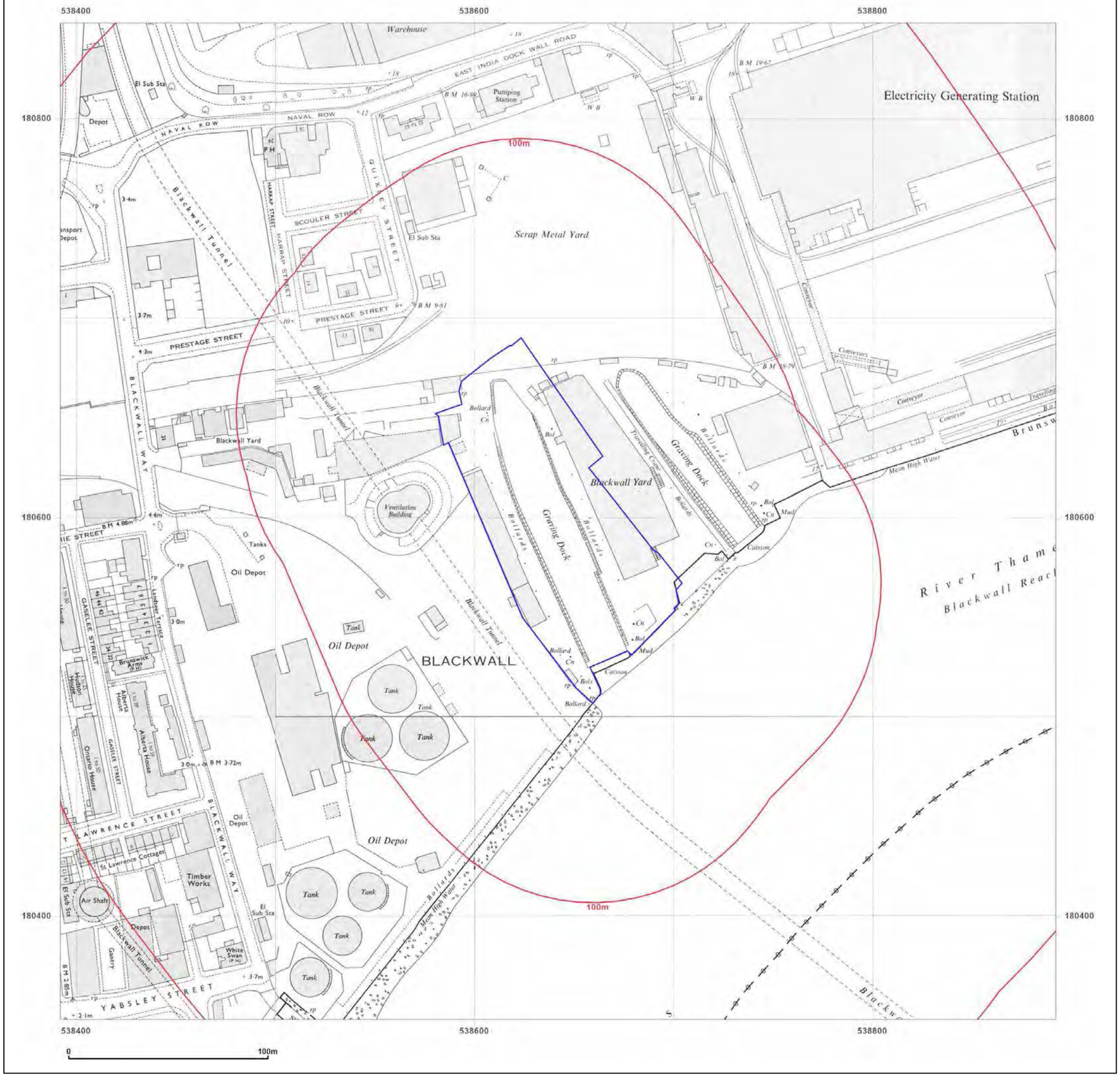

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1969-1971**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1950 Revised 1970 Edition N/A Copyright 1971 Levelled 1953	Surveyed 1969 Revised 1969 Edition N/A Copyright N/A Levelled 1968

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Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1989-1991**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1971 Revised 1989 Edition N/A Copyright 1989 Levelled 1971	Surveyed 1991 Revised 1991 Edition N/A Copyright 1991 Levelled N/A

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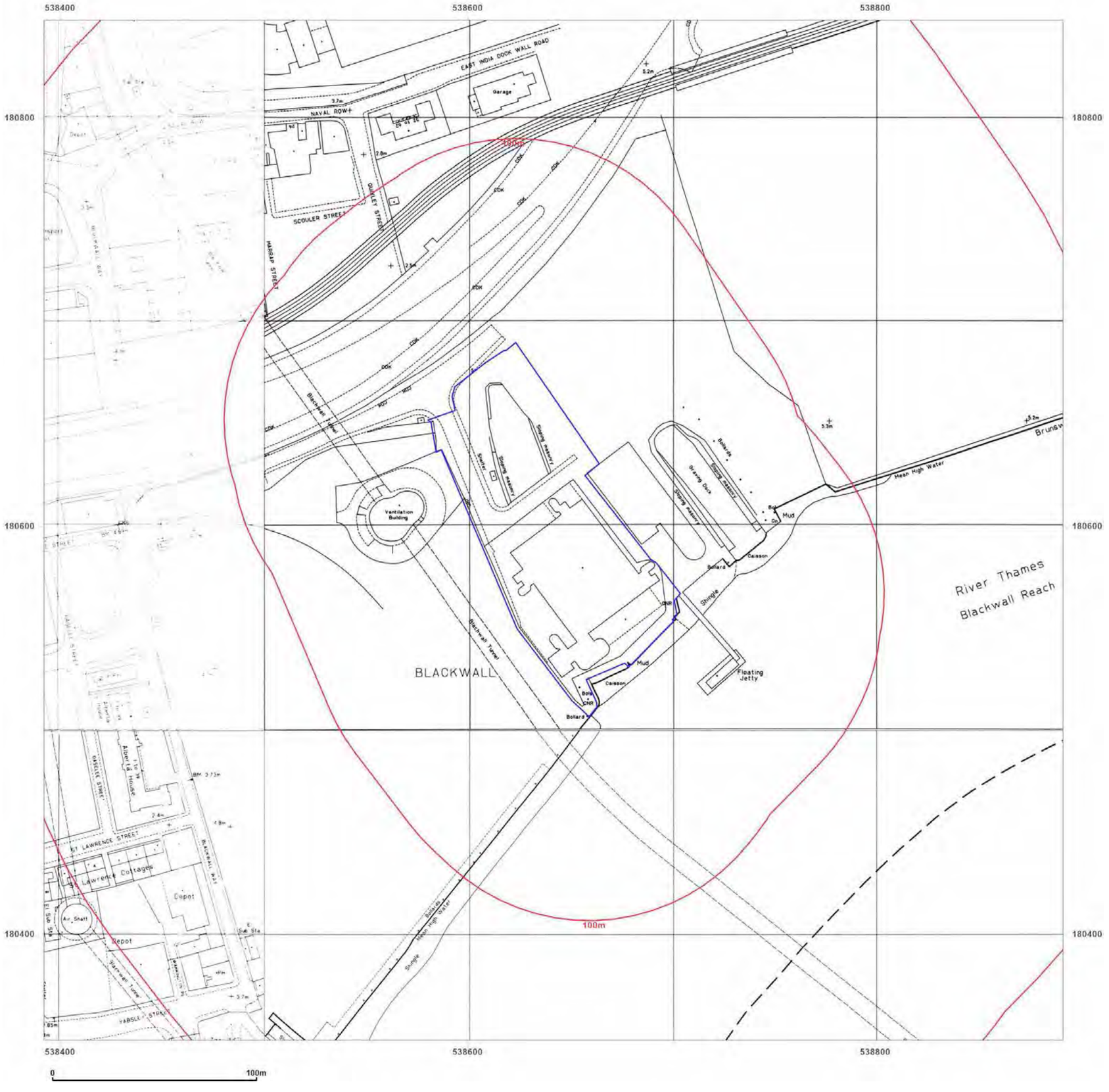

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1991**

Scale: 1:1,250

Printed at: 1:2,000

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

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MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1989-1991**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1990 Revised 1990 Edition N/A Copyright 1990 Levelled N/A	Surveyed 1972 Revised 1990 Edition N/A Copyright 1990 Levelled 1972
Surveyed 1971 Revised 1989 Edition N/A Copyright 1989 Levelled 1971	Surveyed N/A Revised N/A Edition N/A Copyright 1991 Levelled N/A

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MLM. Group
Part of Swaco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1991-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1991 Revised 1991 Edition N/A Copyright 1991 Levelled N/A	Surveyed 1991 Revised 1991 Edition N/A Copyright 1991 Levelled N/A
Surveyed N/A Revised N/A Edition N/A Copyright 1991 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A

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MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1991-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1991 Revised 1991 Edition N/A Copyright 1991 Levelled N/A		Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A
Surveyed 1991 Revised 1991 Edition N/A Copyright 1991 Levelled N/A		

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MLM. Group
Part of Swaco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1991-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1991 Revised 1991 Edition N/A Copyright 1991 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A
Surveyed 1991 Revised 1991 Edition N/A Copyright 1991 Levelled N/A	

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MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1991-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A
Surveyed 1991 Revised 1991 Edition N/A Copyright 1991 Levelled N/A	

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MLM. Group
Part of Swaco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1992**

Scale: 1:1,250

Printed at: 1:2,000

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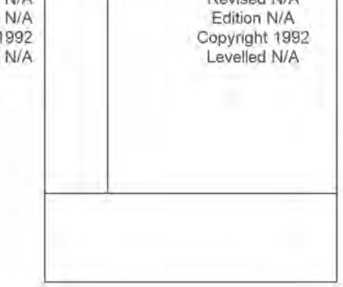
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A



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MLM. Group
Part of Swaco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

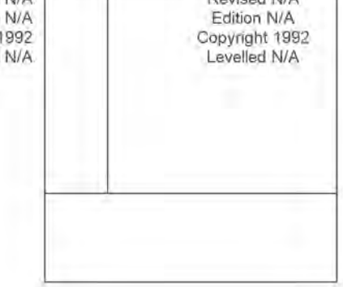
Map date: **1992**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A



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Production date: 04 May 2021

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MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1992-1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Production date: 04 May 2021

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MLM. Group
Part of Swaco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A	Surveyed 1993
Revised N/A	Revised 1993
Edition N/A	Edition N/A
Copyright N/A	Copyright N/A
Levelled N/A	Levelled N/A

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MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1992-1994**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A	Surveyed N/A
Revised N/A	Revised N/A
Edition N/A	Edition N/A
Copyright N/A	Copyright 1994
Levelled N/A	Levelled N/A

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MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A	Surveyed 1994
Revised N/A	Revised 1994
Edition N/A	Edition N/A
Copyright 1993	Copyright N/A
Levelled N/A	Levelled N/A

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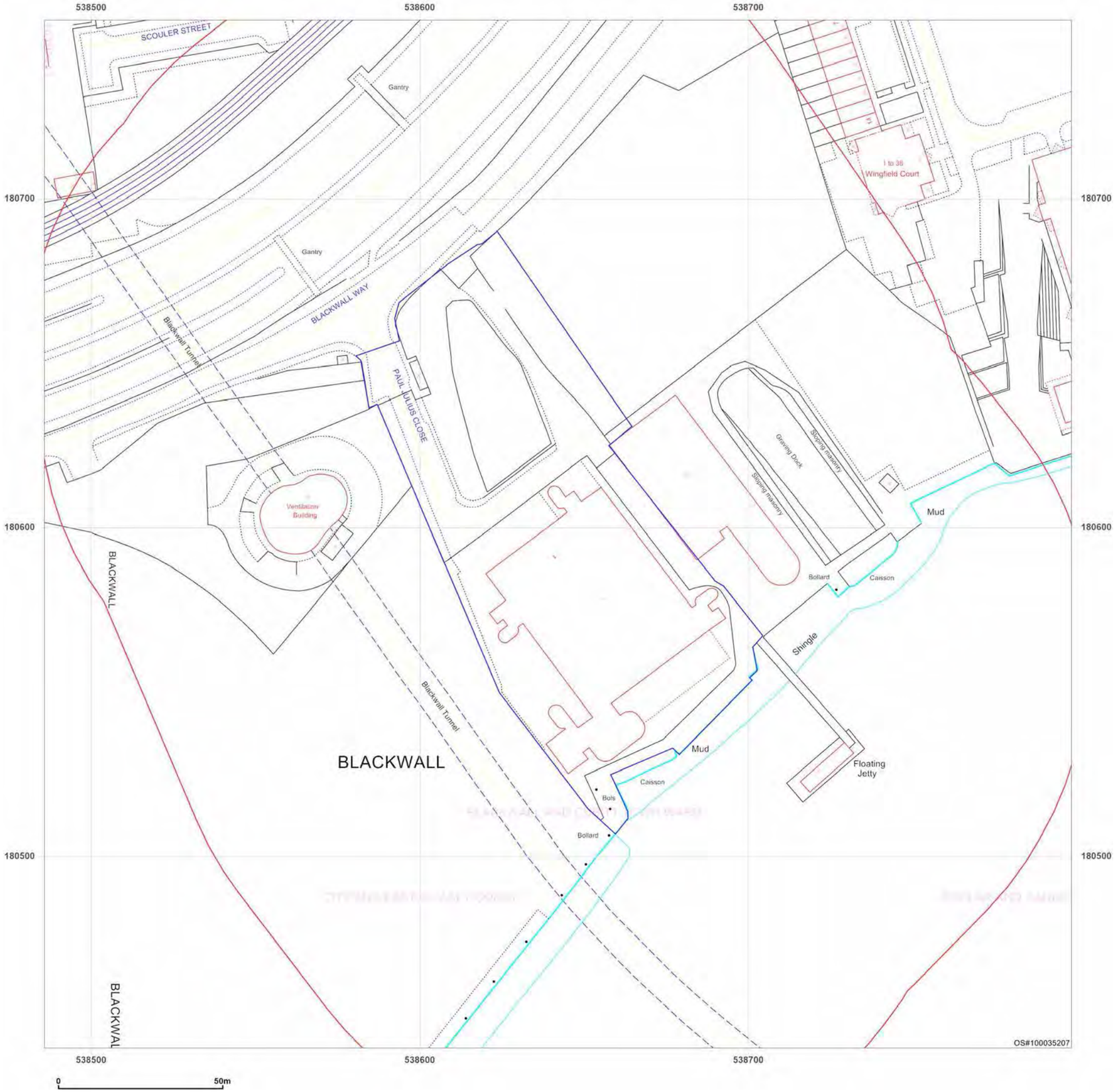

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
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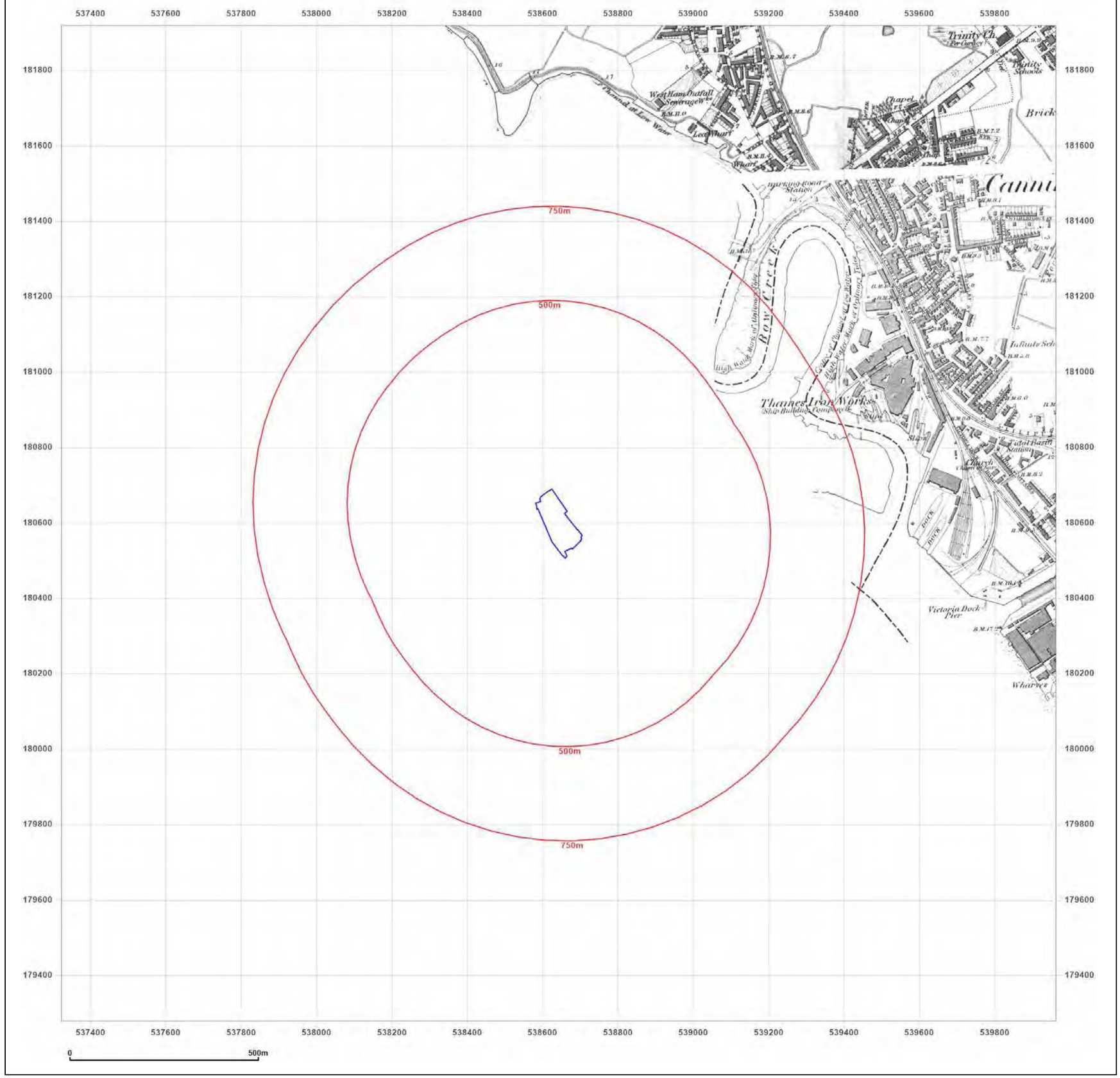


MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

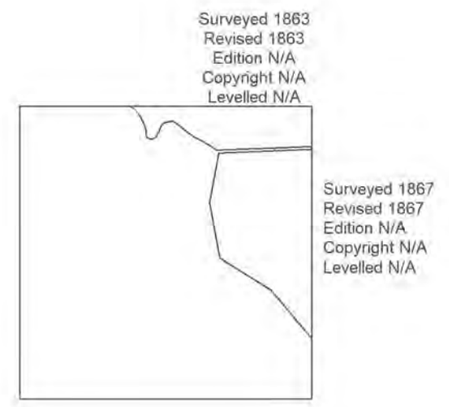
Map Name: County Series

Map date: **1863-1867**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



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Production date: 04 May 2021

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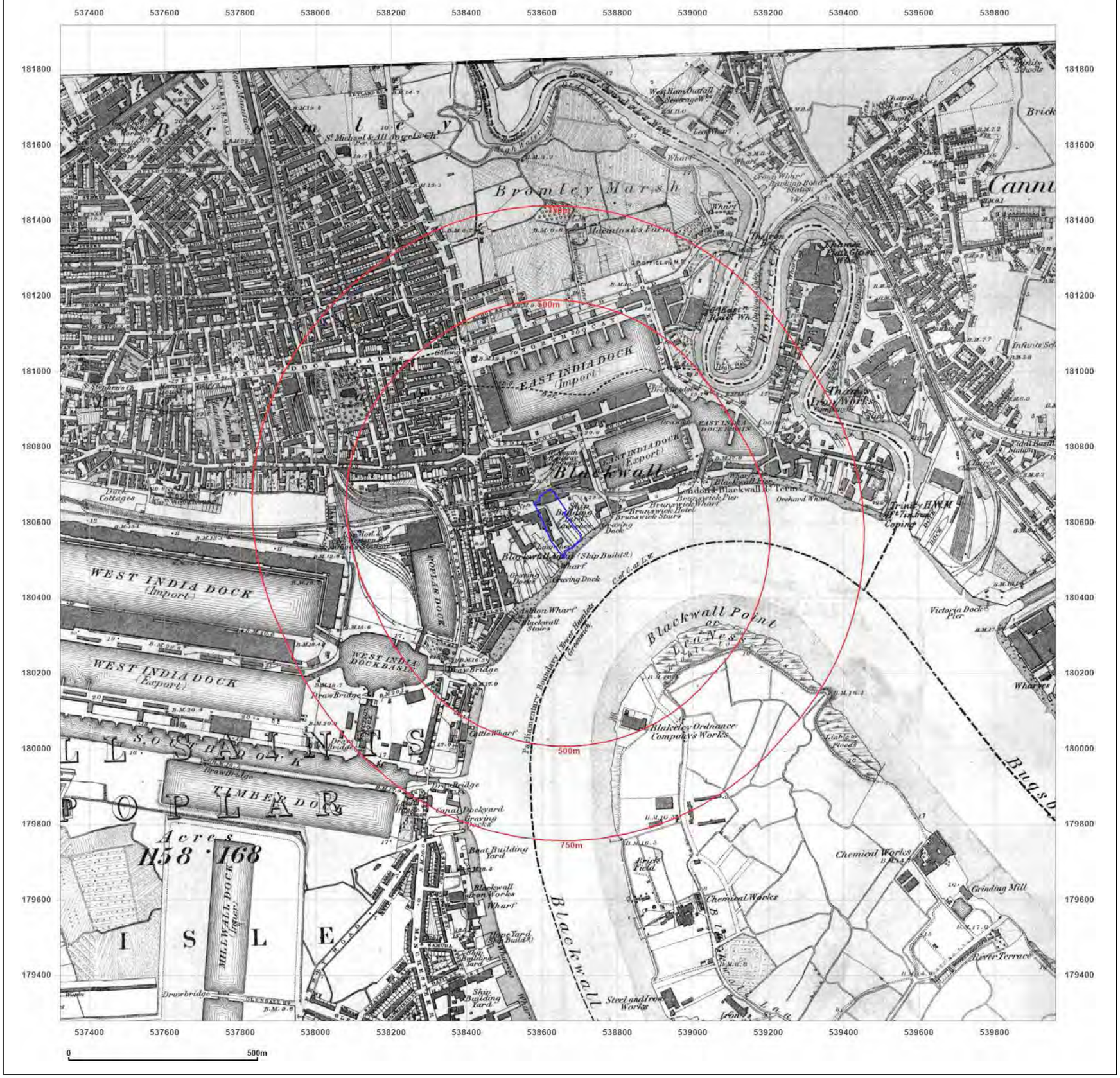


MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

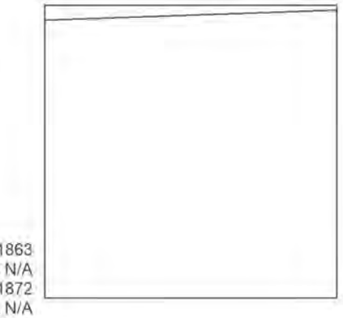
Map Name: County Series

Map date: **1872**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



Surveyed 1863
Revised N/A
Edition 1872
Copyright N/A
Levelled N/A

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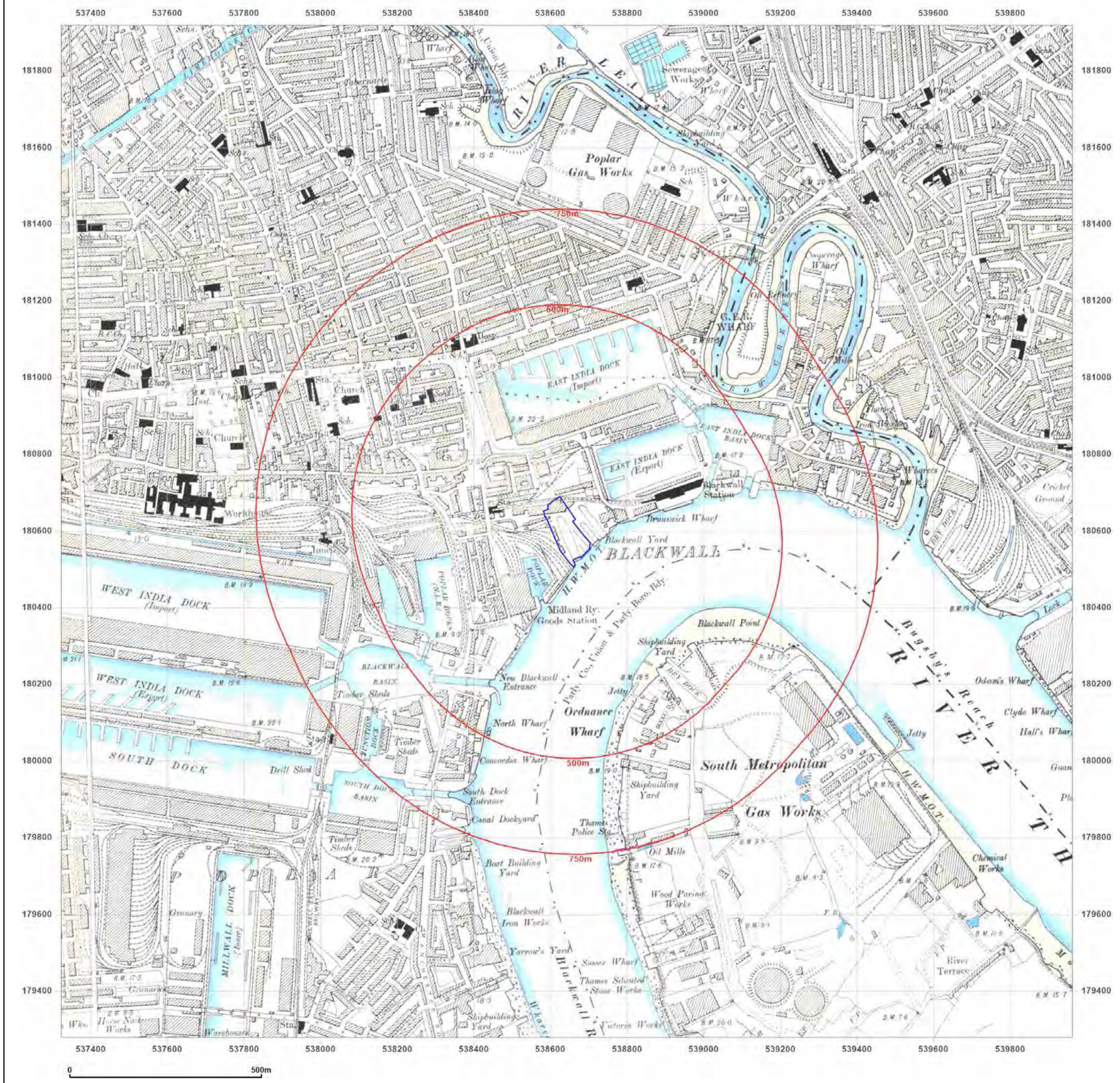


MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

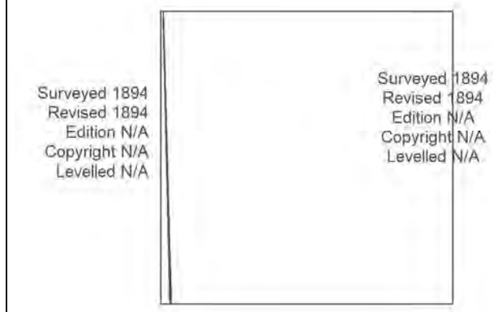
Map Name: County Series

Map date: **1894**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



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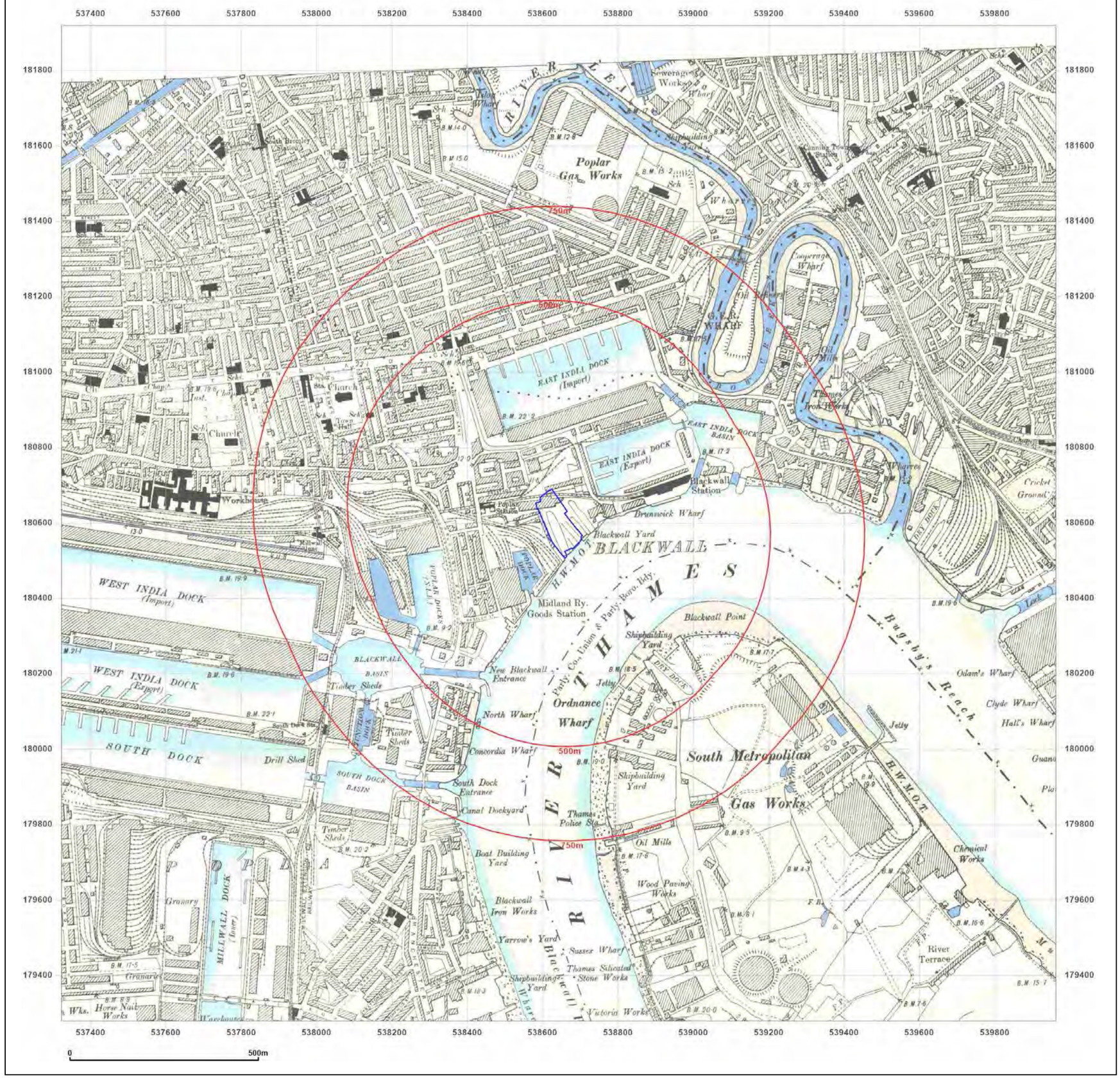

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: County Series

Map date: **1894**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1866
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

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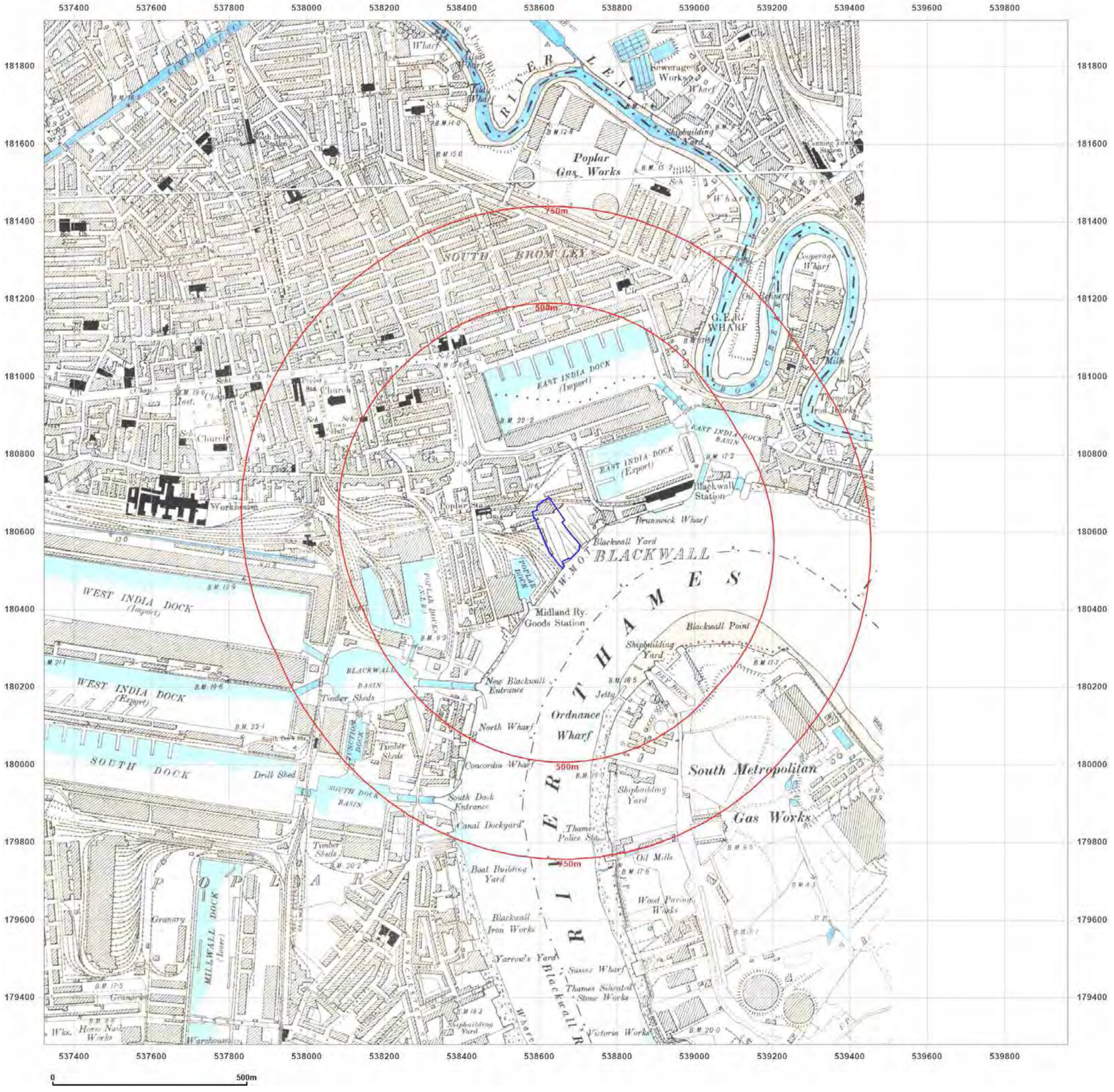


MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: County Series

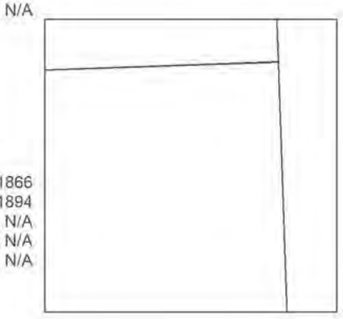
Map date: **1894**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1866
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1866
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

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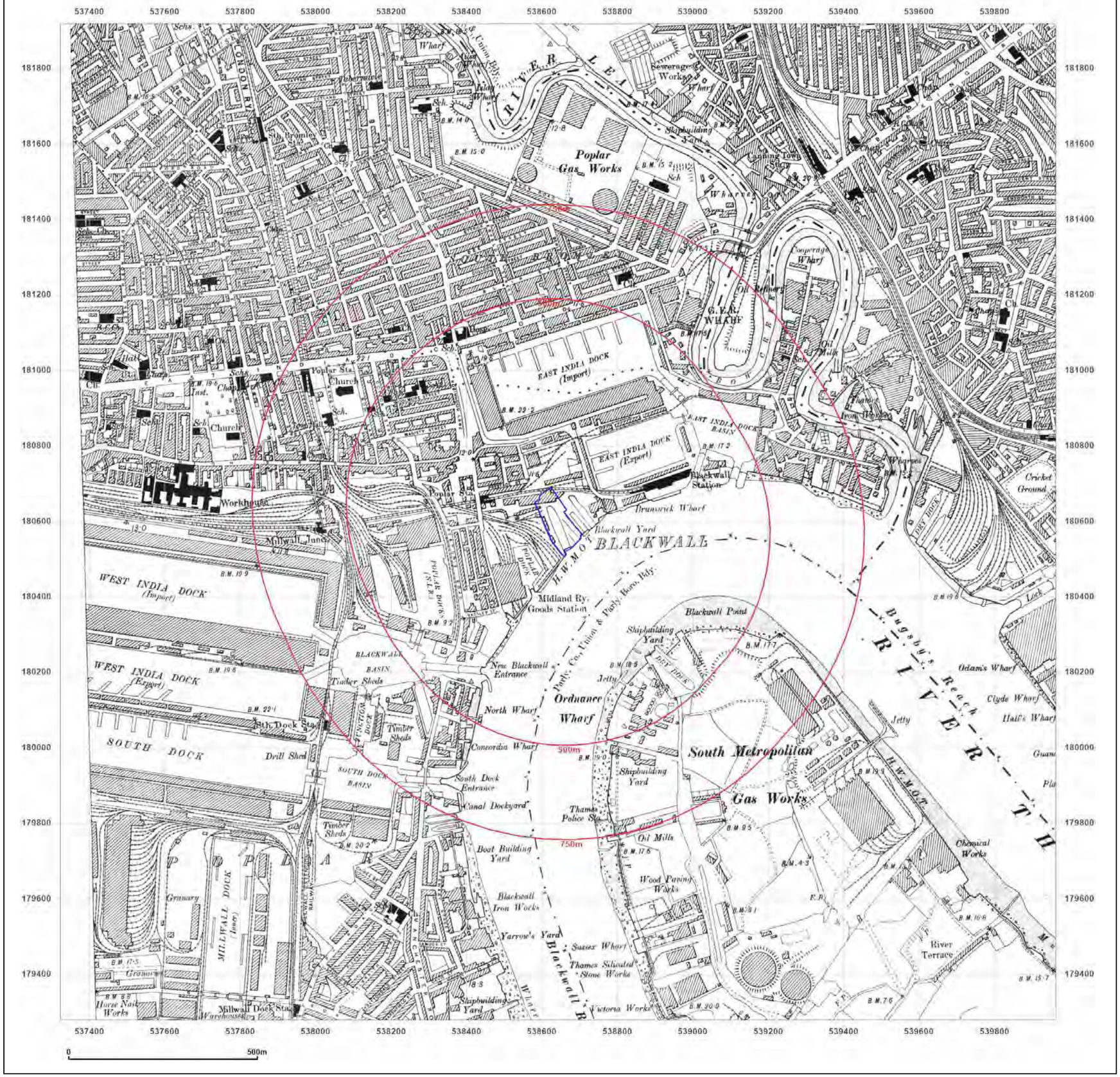

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: County Series

Map date: **1896**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1870
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

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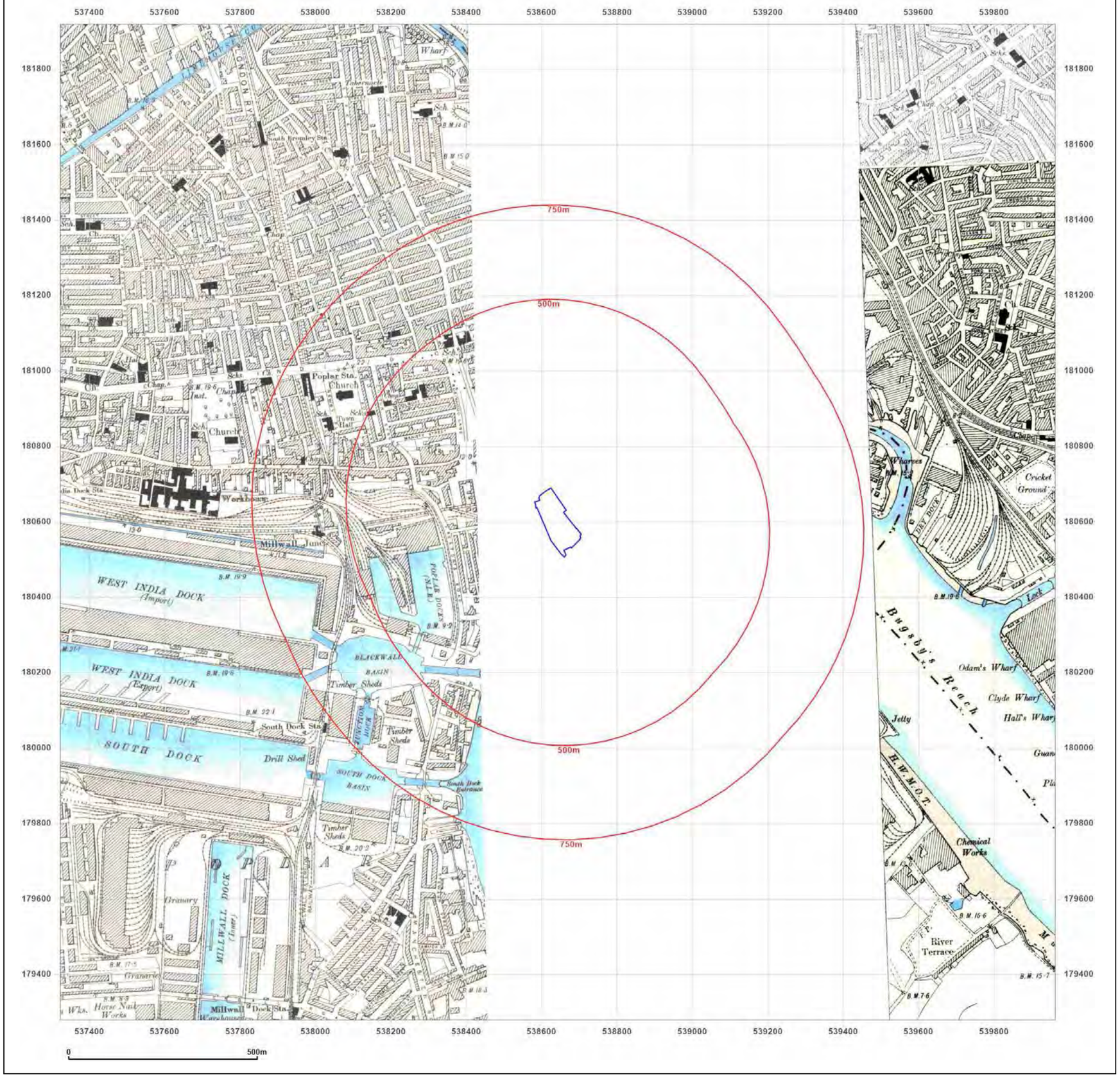

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: County Series

Map date: **1894-1898**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1862
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1894
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1894
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 04 May 2021

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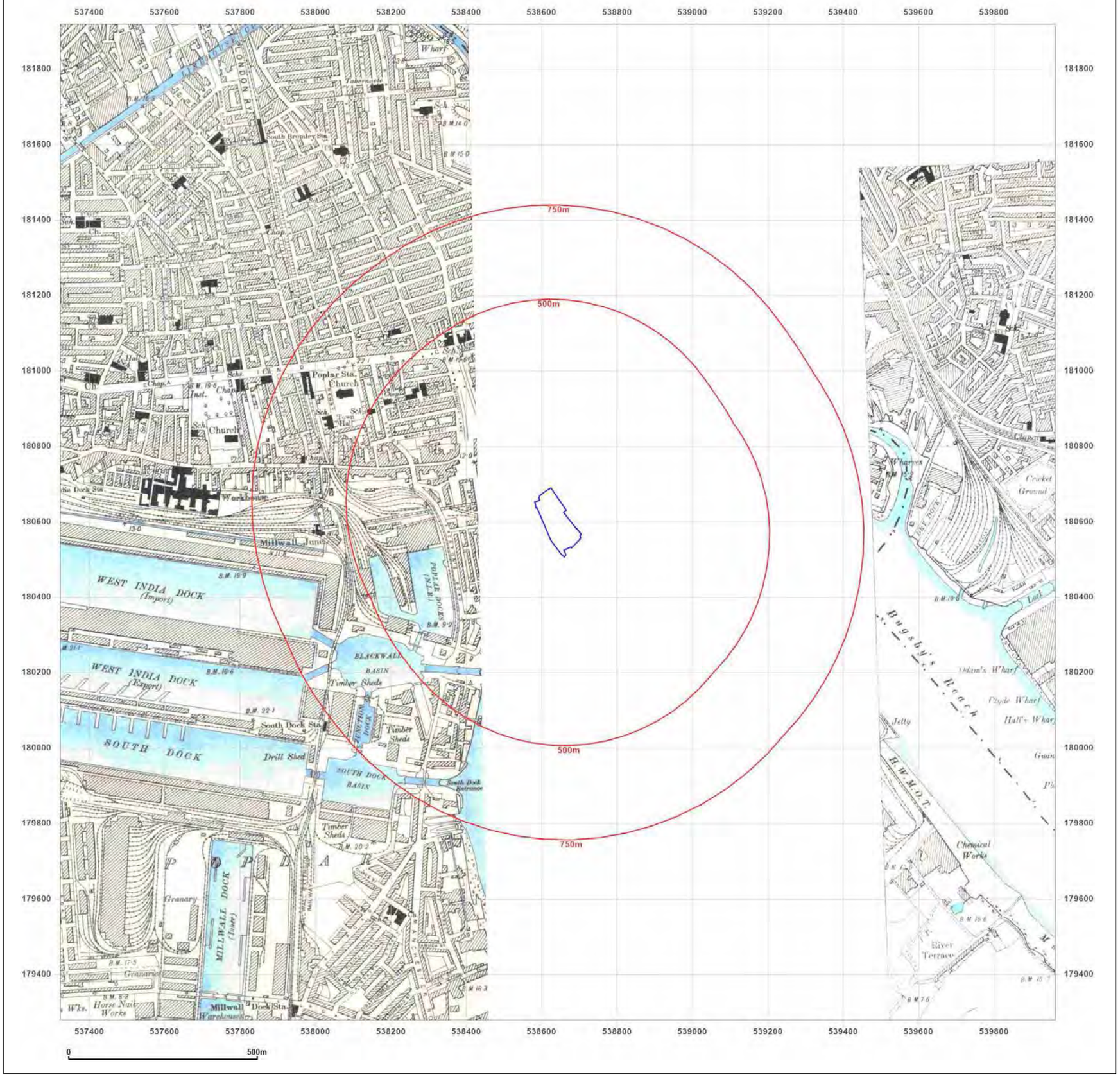


MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

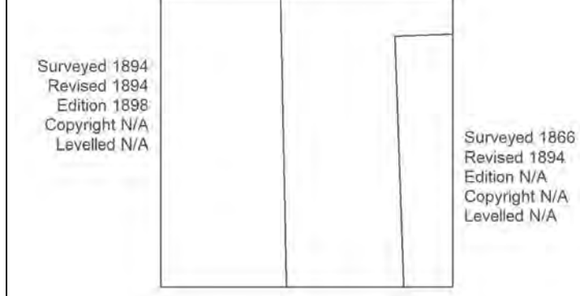
Map Name: County Series

Map date: **1894-1898**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



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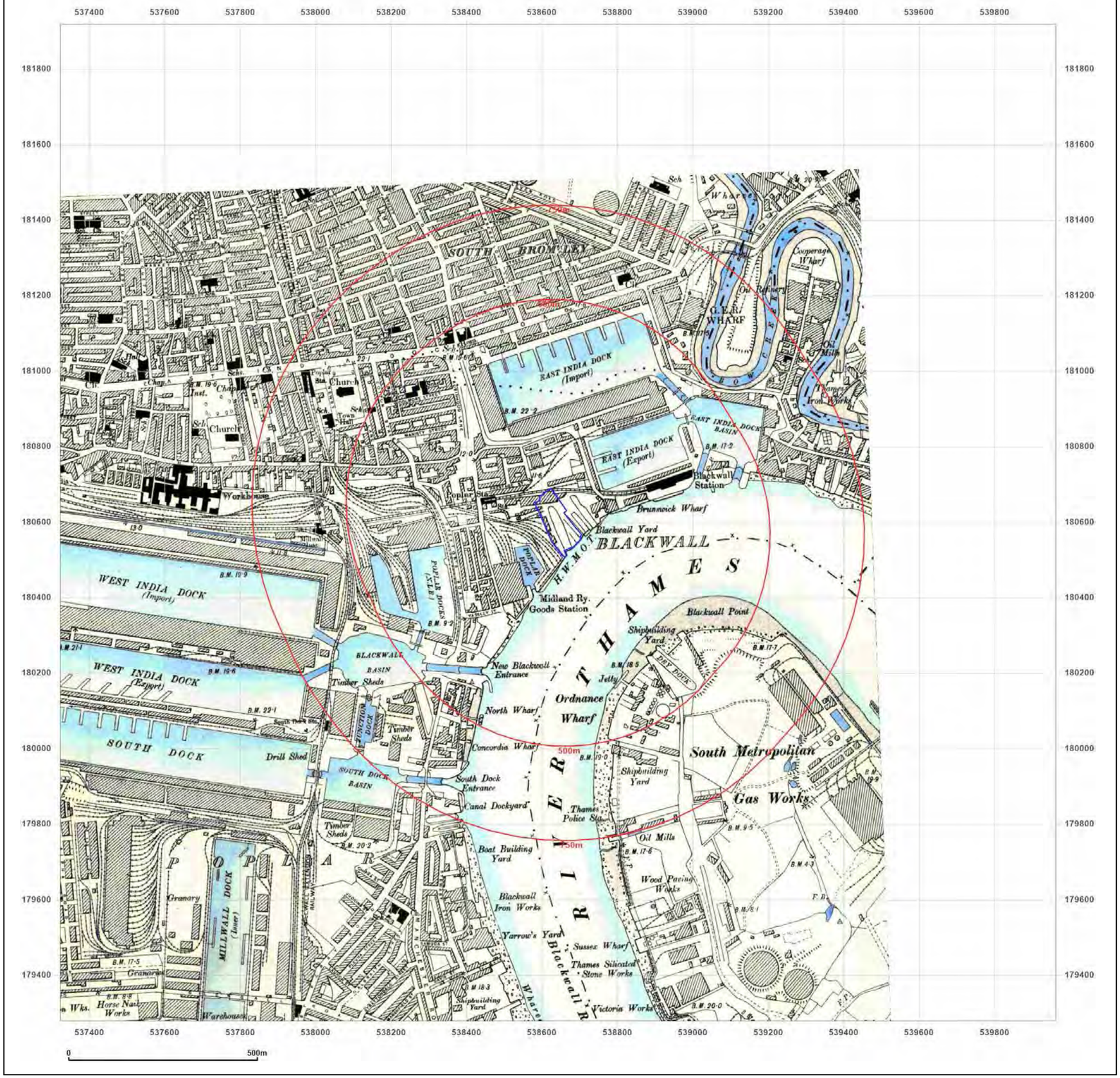


MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

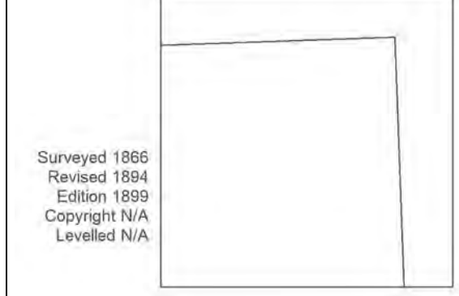
Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



Surveyed 1866
Revised 1894
Edition 1899
Copyright N/A
Levelled N/A

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Production date: 04 May 2021

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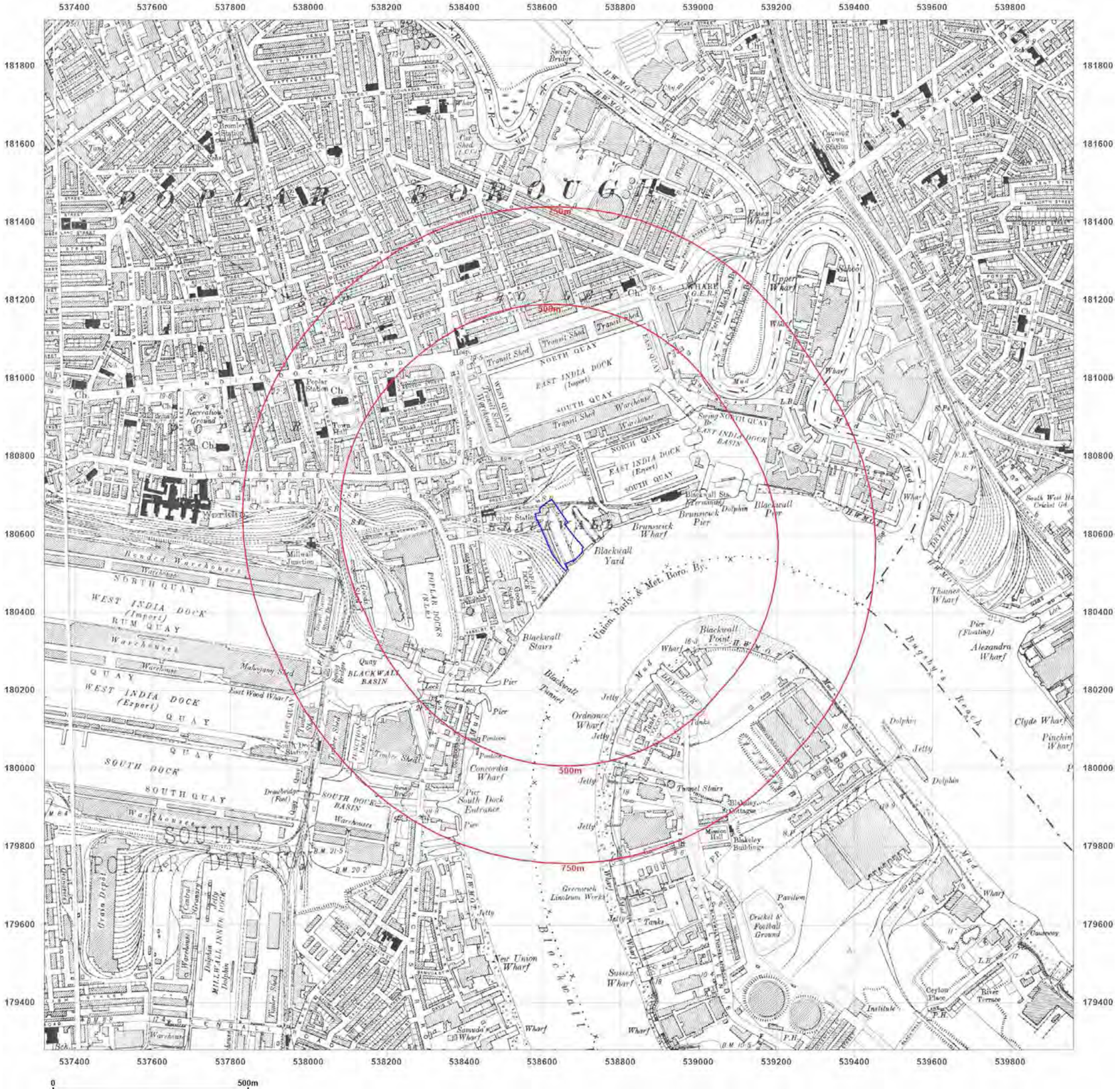


MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: County Series

Map date: **1920**

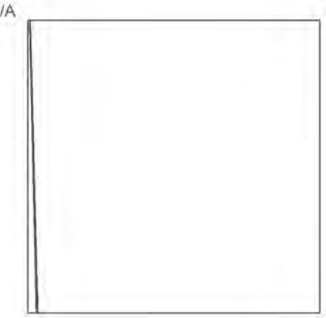
Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1872
Revised 1919
Edition 1920
Copyright N/A
Levelled N/A

Surveyed 1872
Revised 1919
Edition 1920
Copyright N/A
Levelled N/A



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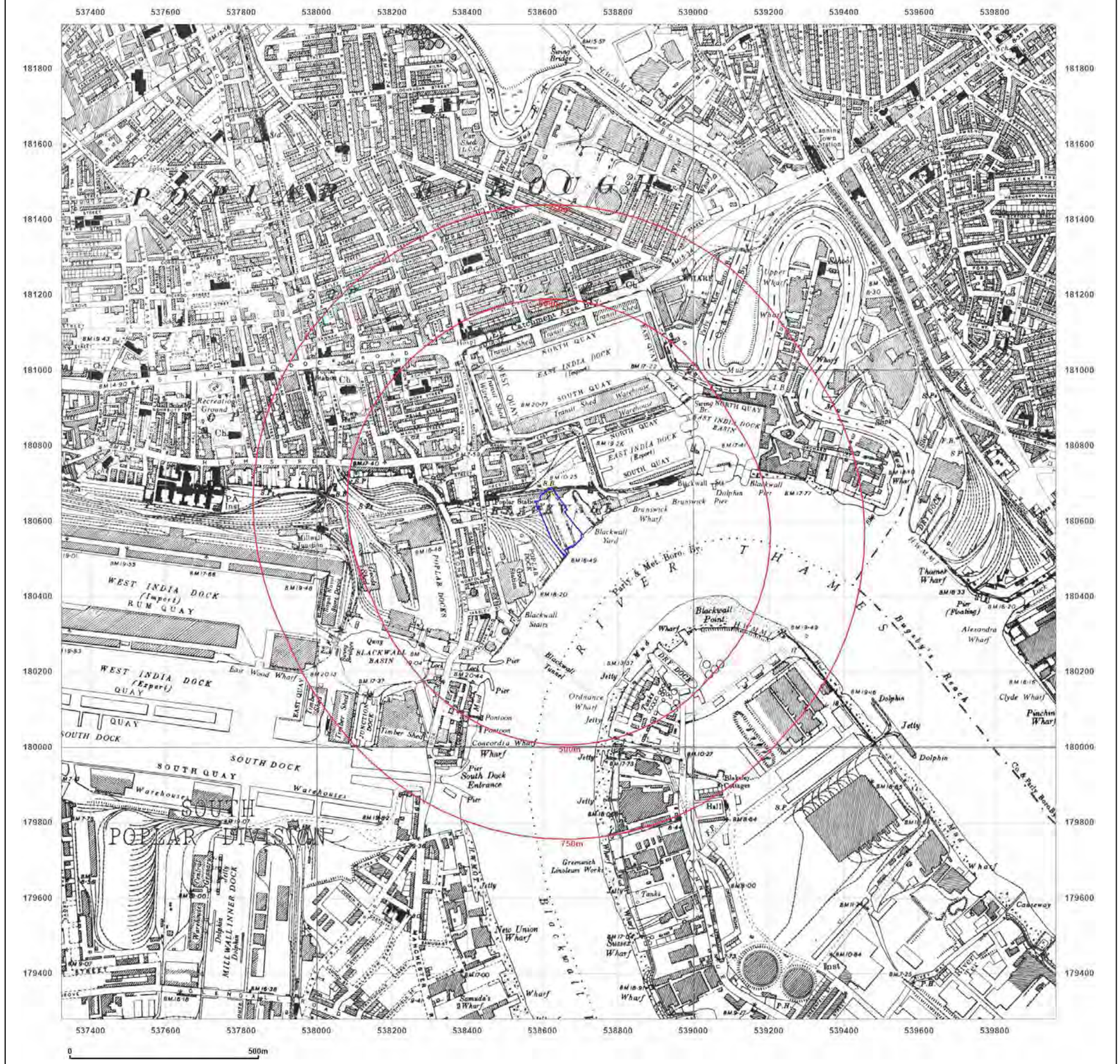

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: Provisional

Map date: **1948-1949**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed N/A
Revised 1949
Edition N/A
Copyright N/A
Levelled 1934

Surveyed 1940
Revised 1948
Edition N/A
Copyright N/A
Levelled 1935

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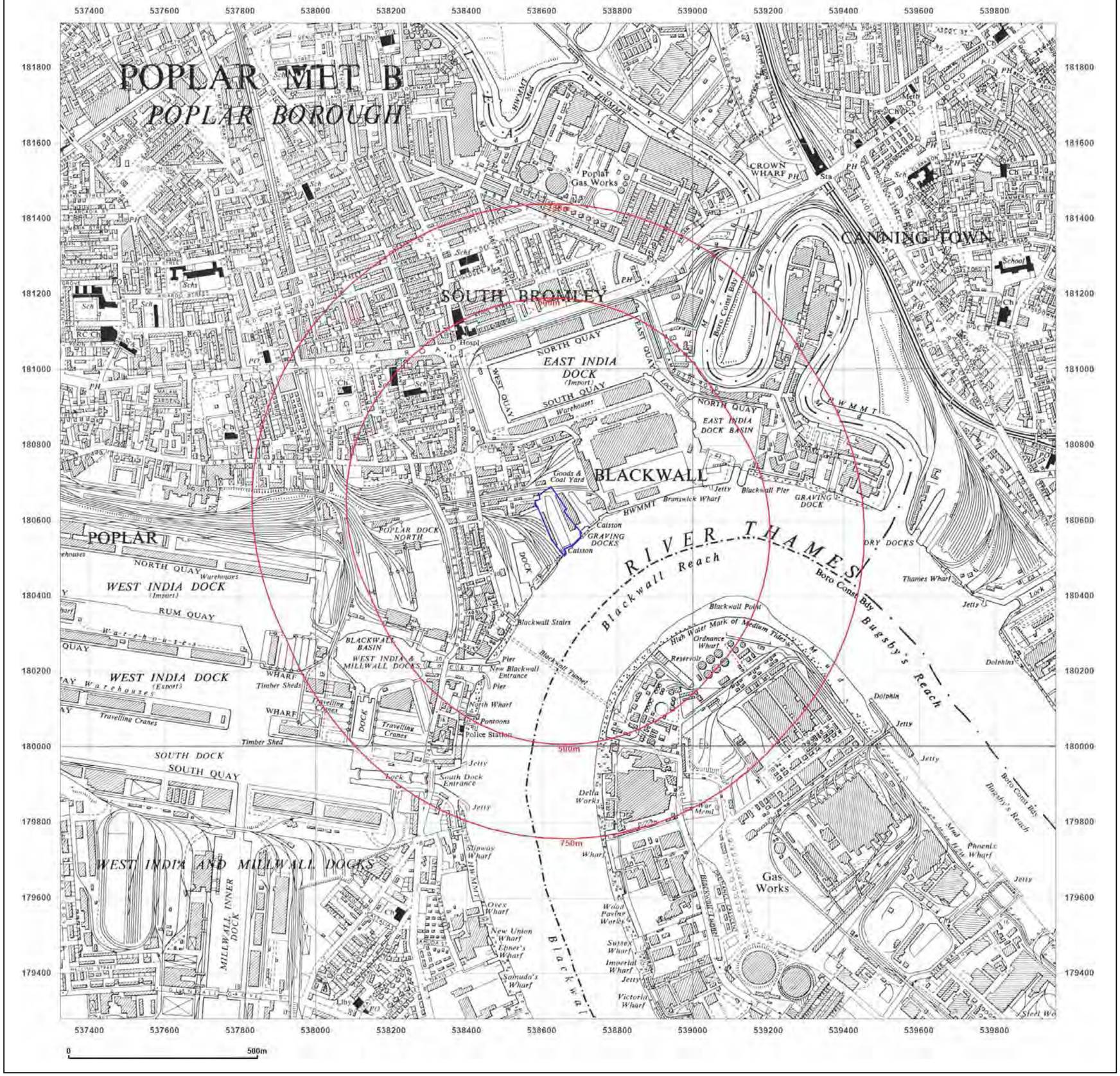

MLM. Group Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: Provisional

Map date: **1955**

Scale: 1:10,560

Printed at: 1:10,560

N W E S

Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

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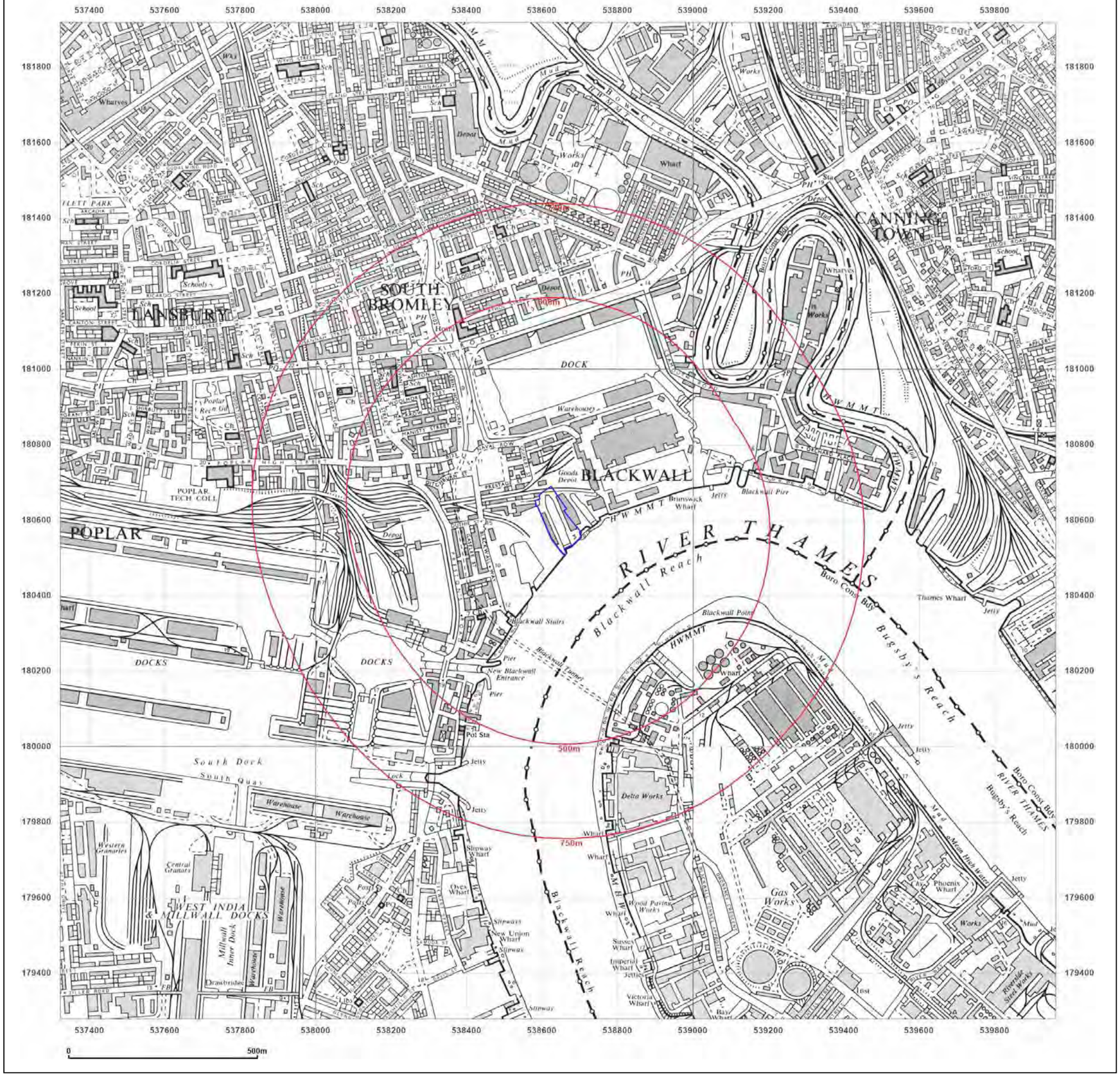

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: Provisional

Map date: **1965-1967**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1965
Revised 1967
Edition N/A
Copyright N/A
Levelled N/A

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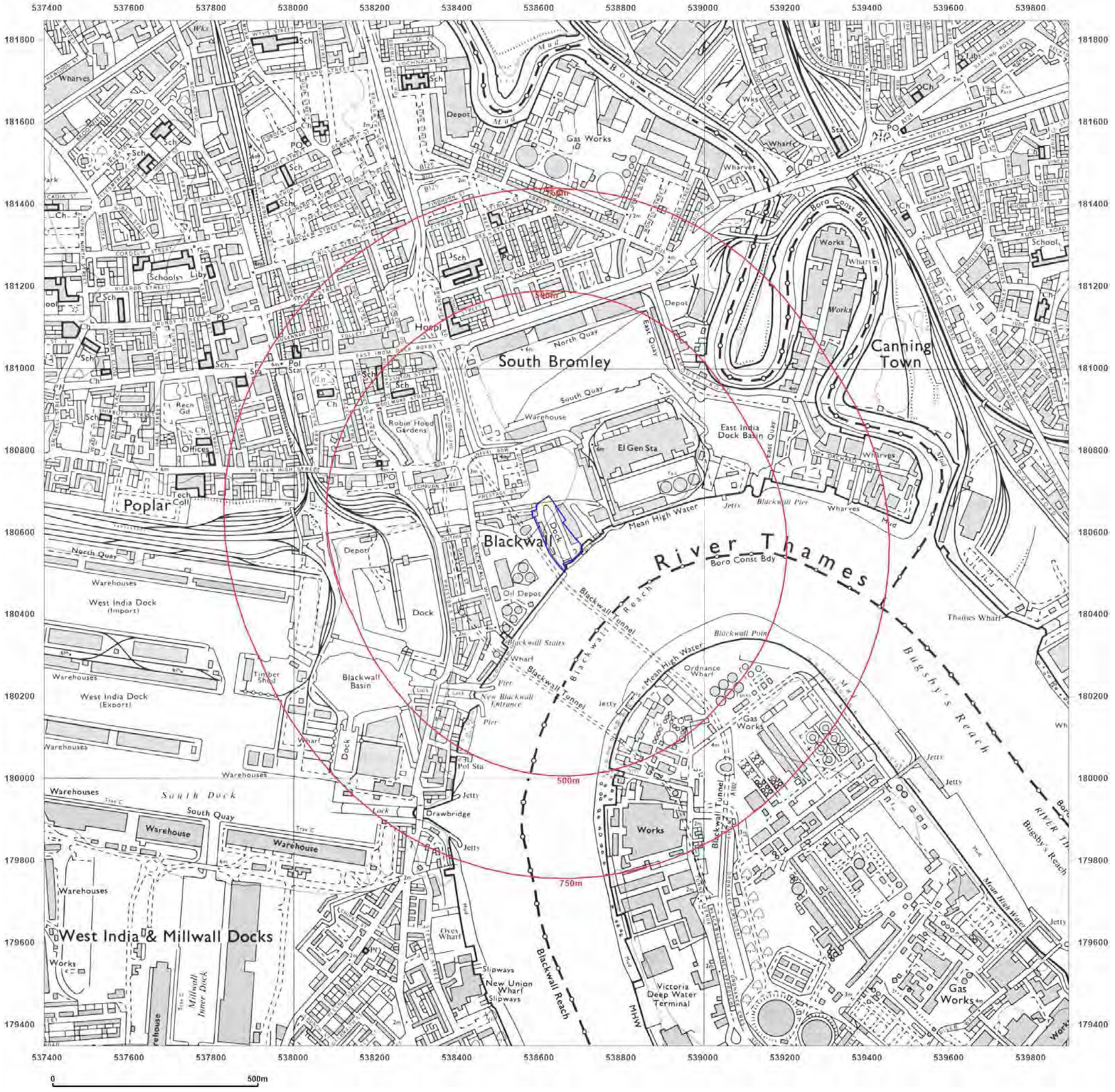

MLM. Group
Part of Swaco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1973**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

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

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

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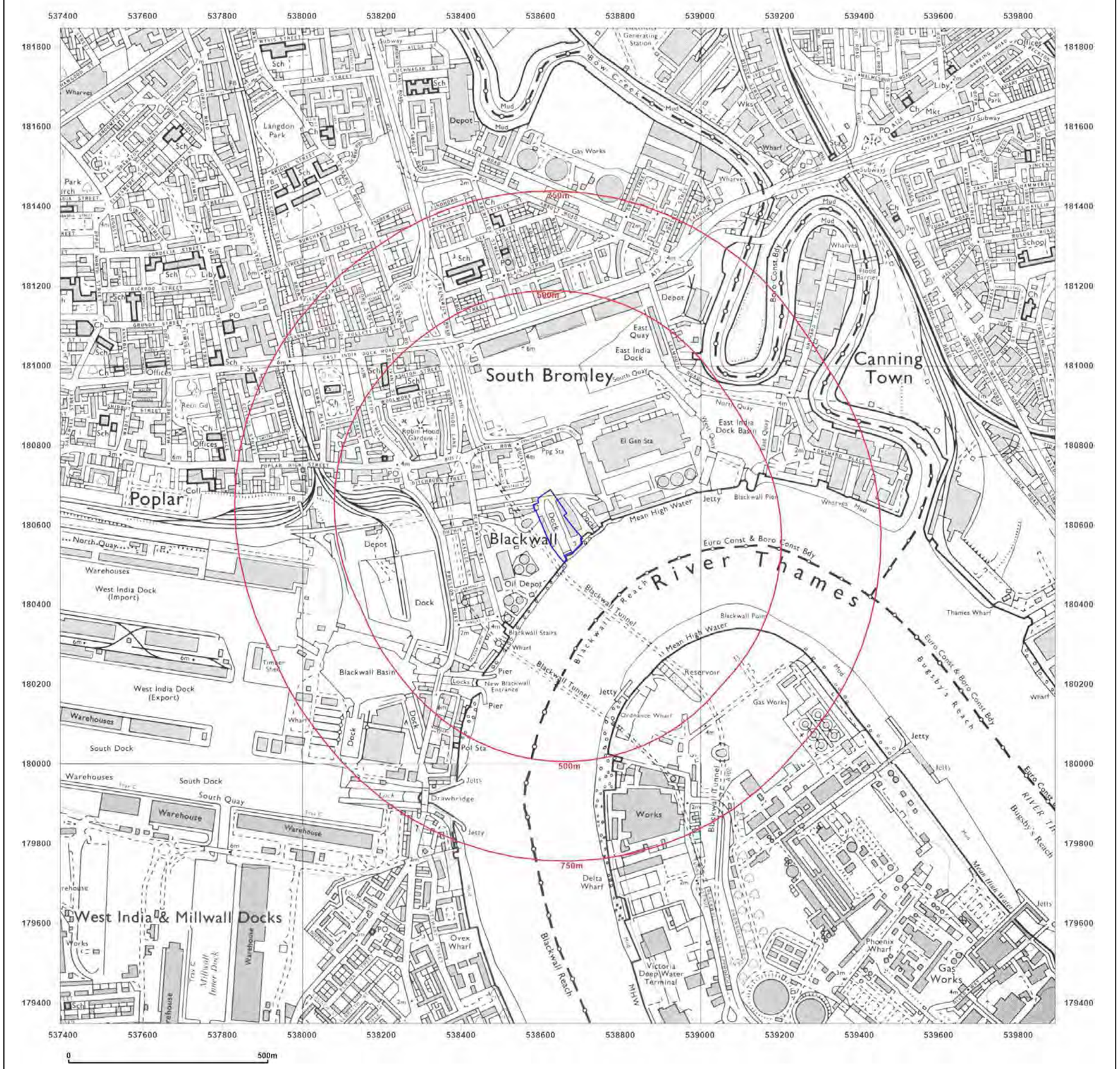

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1979-1981**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1981
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1978
Revised 1979
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 04 May 2021

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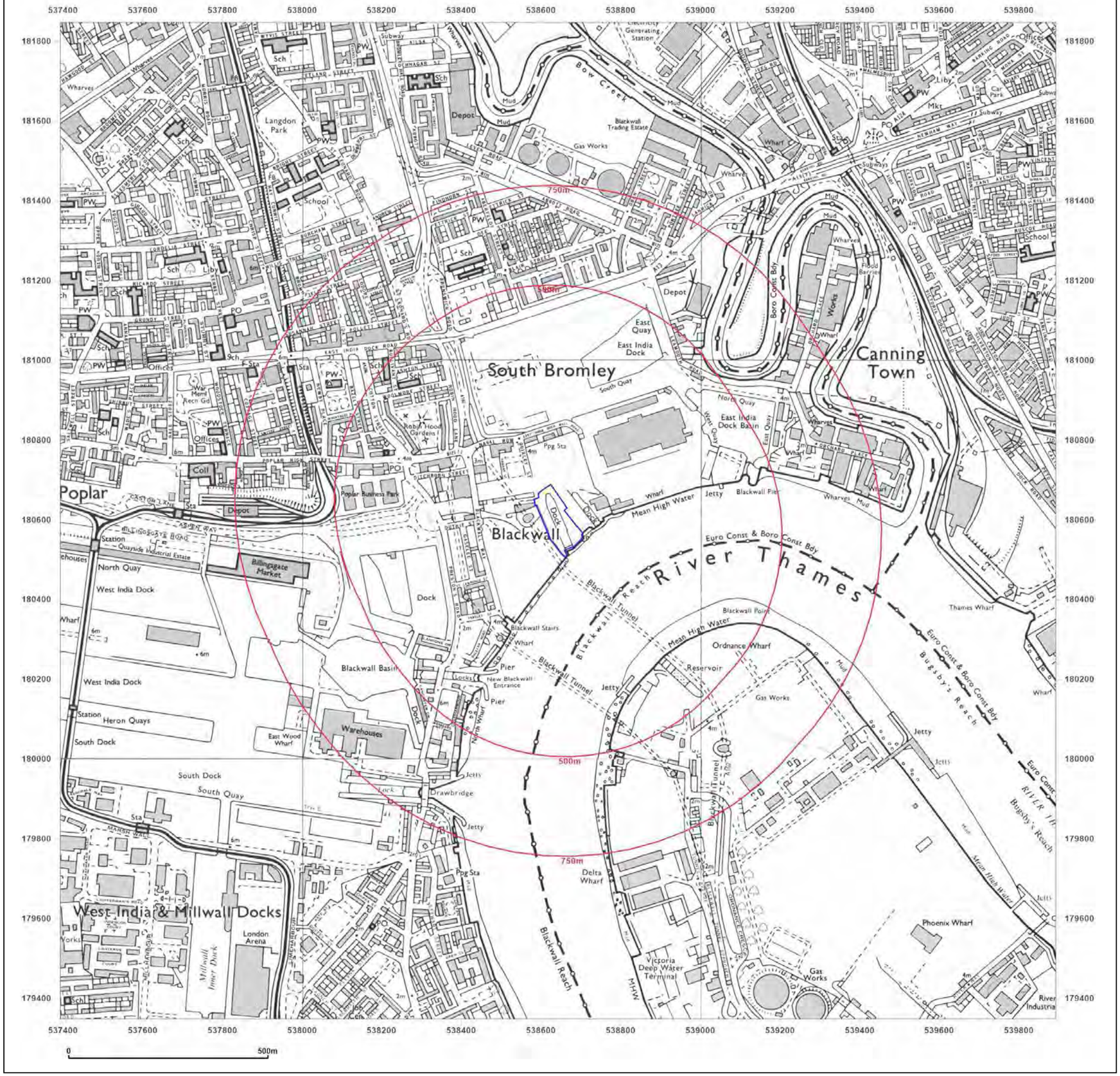

MLM. Group
Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1989**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1988
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1988
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

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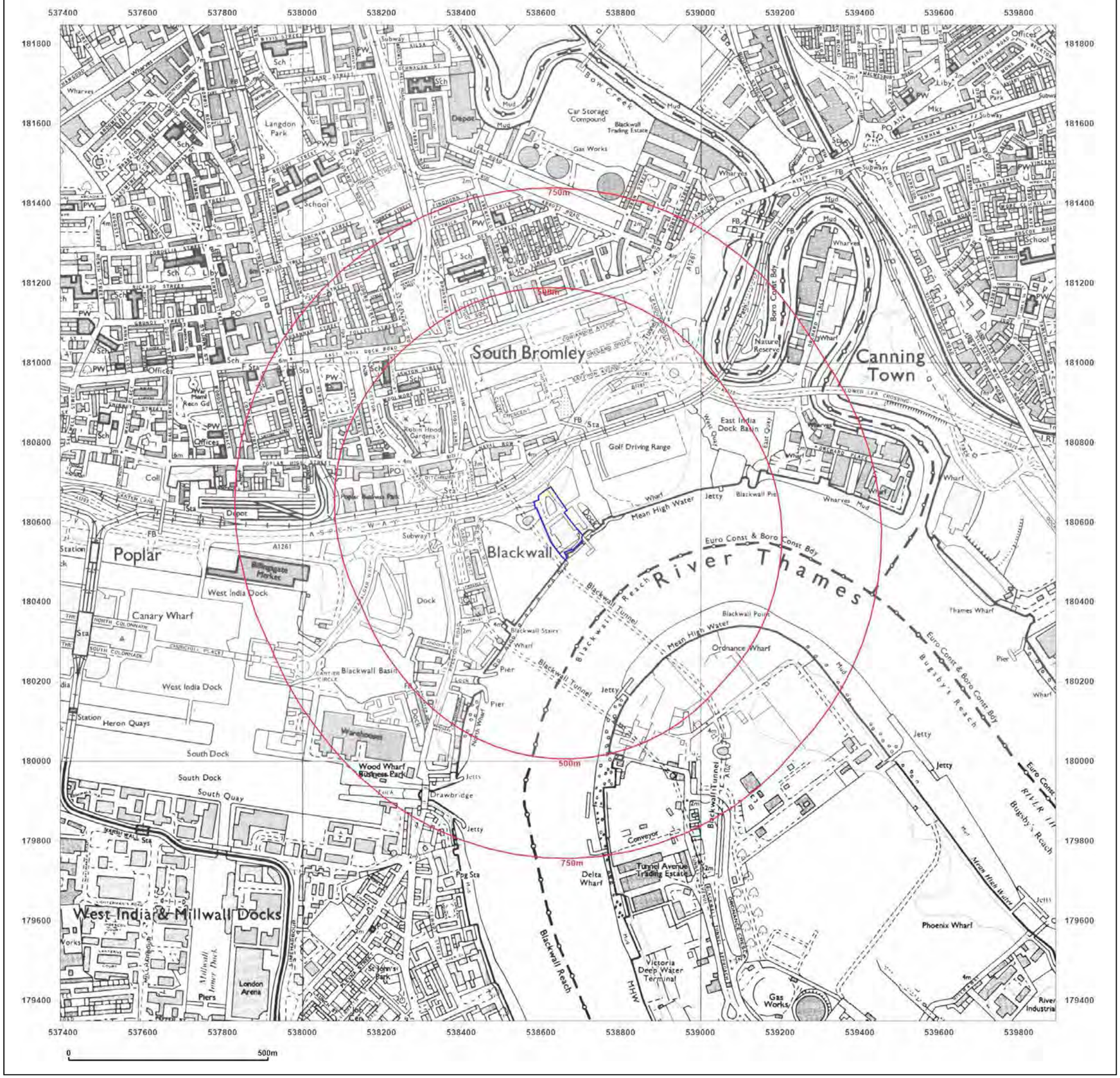
Production date: 04 May 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



MLM. Group
Part of Swaco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **1994**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1988
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Edition N/A
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Surveyed 1988
Revised 1994
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 04 May 2021

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

MLM. Group
Part of Swaco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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Production date: 04 May 2021

Map legend available at:
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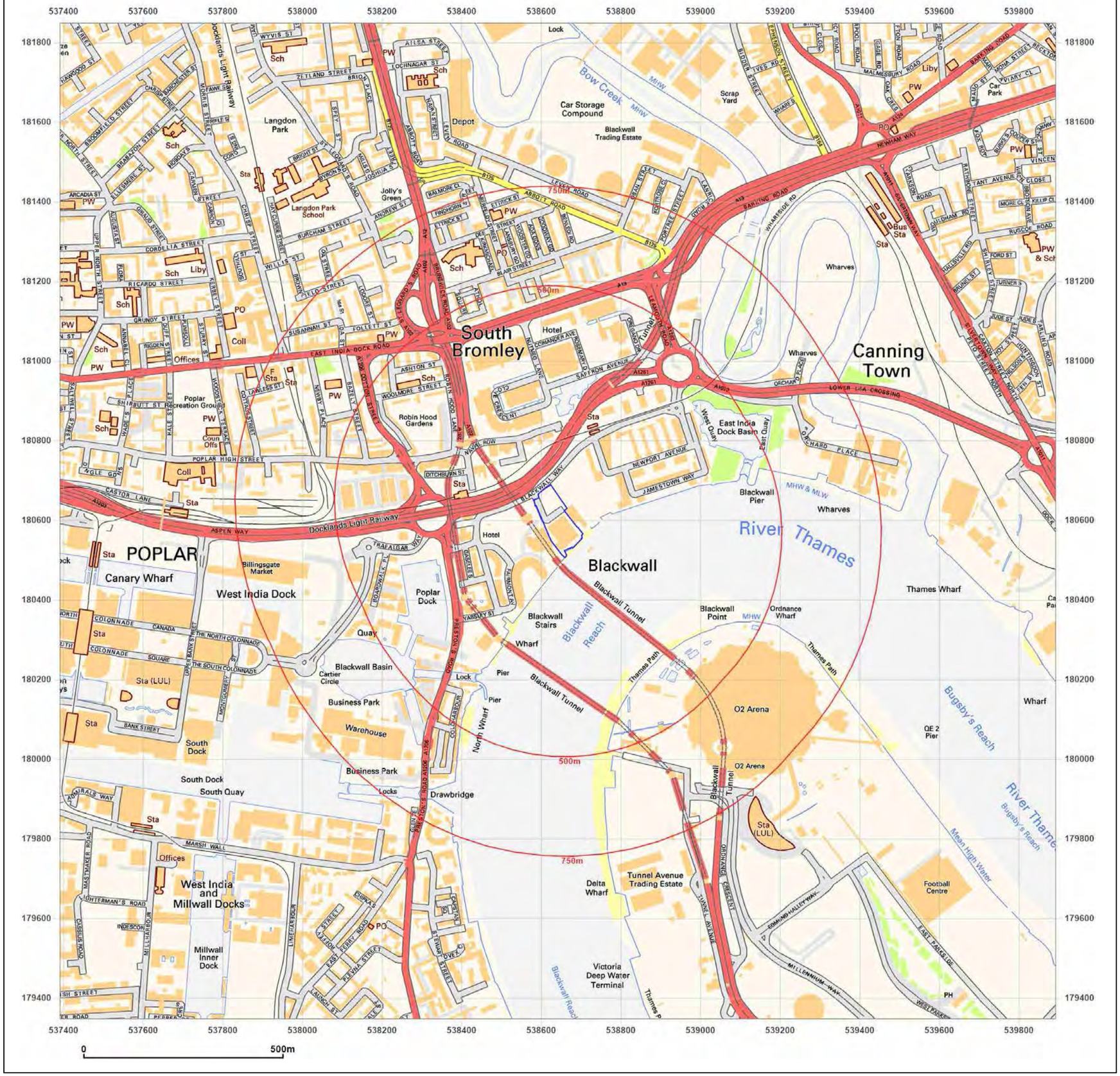

MLM. Group
Part of Swaco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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Production date: 04 May 2021

Map legend available at:
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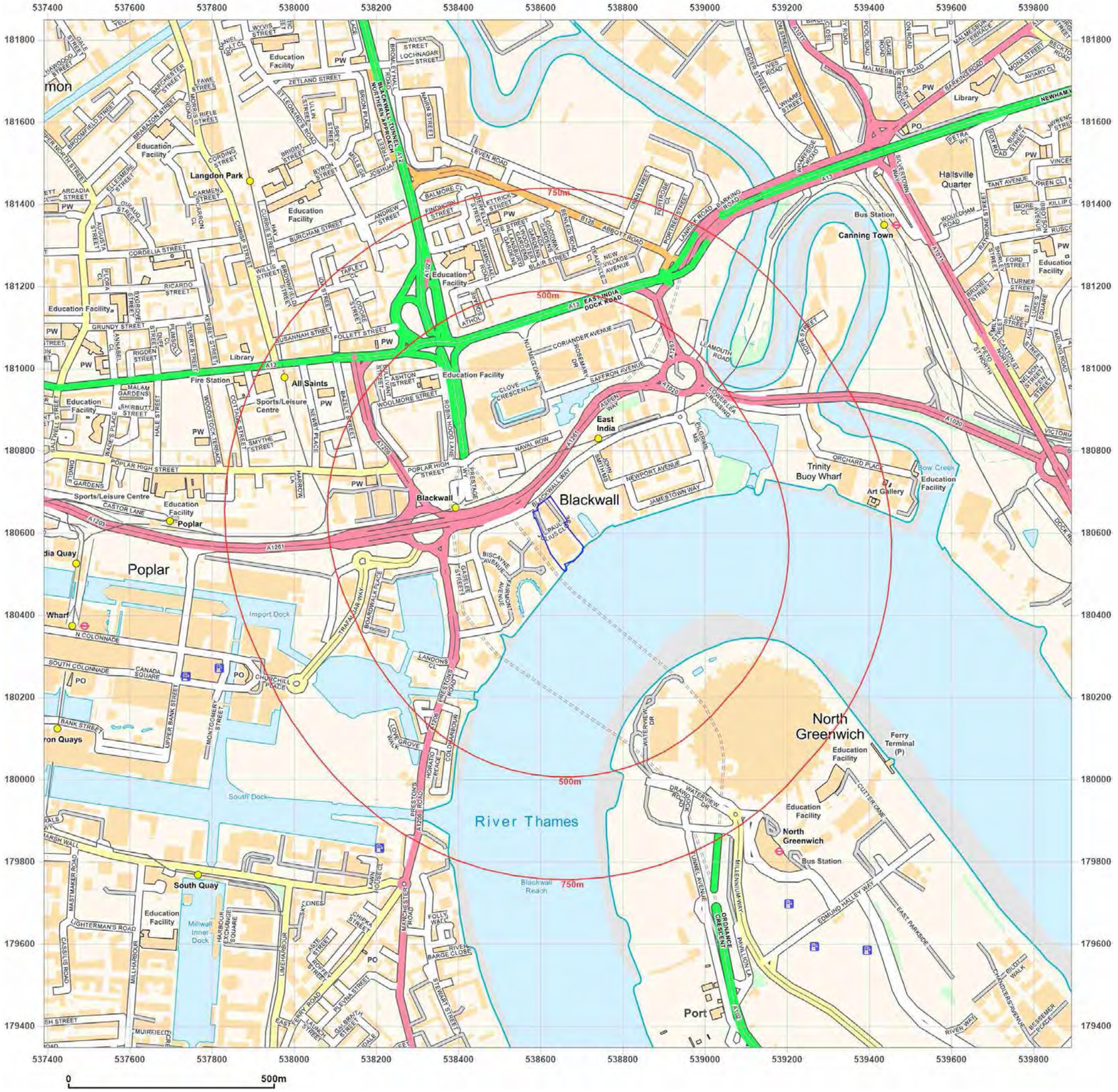

MLM. Group Part of Sweco

Site Details:

538654 180582

Client Ref: 6502635-001
Report Ref: MLM-7814578
Grid Ref: 538642, 180598

Map Name: National Grid

Map date: **2021**

Scale: 1:10,000

Printed at: 1:10,000

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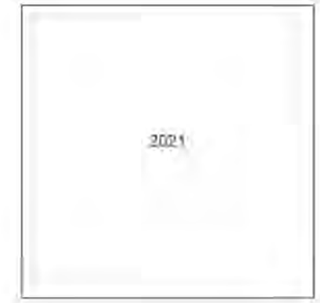

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Production date: 04 May 2021

Map legend available at:
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Groundsure
LOCATION INTELLIGENCE

Enviro+Geo
Insight

538654 180582

Order Details

Date: 04/05/2021

Your ref: 6502635-001

Our Ref: MLM-7814580

Client: MLM

Site Details

Location: 538646 180579

Area: 1.05 ha

Authority: London Borough of Tower Hamlets

Contact us with any questions at:
info@groundsure.com
08444 159 000

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	41	22	123	193	-
28	1.2	Historical tanks	1	0	18	100	-
33	1.3	Historical energy features	0	0	10	23	-
34	1.4	Historical petrol stations	0	0	0	0	-
35	1.5	Historical garages	0	0	3	2	-
35	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
36	2.1	Historical industrial land uses	57	28	166	272	-
55	2.2	Historical tanks	1	0	23	157	-
62	2.3	Historical energy features	0	0	30	75	-
66	2.4	Historical petrol stations	0	0	0	0	-
66	2.5	Historical garages	0	0	7	6	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
68	3.1	Active or recent landfill	0	0	0	0	-
68	3.2	Historical landfill (BGS records)	0	0	0	0	-
69	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
69	3.4	Historical landfill (EA/NRW records)	0	0	2	1	-
70	3.5	Historical waste sites	1	0	3	1	-
70	3.6	Licensed waste sites	0	0	2	6	-
73	3.7	Waste exemptions	0	0	1	21	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
76	4.1	Recent industrial land uses	1	7	17	-	-
78	4.2	Current or recent petrol stations	0	0	0	1	-
78	4.3	Electricity cables	0	0	0	0	-
79	4.4	Gas pipelines	0	0	0	0	-
79	4.5	Sites determined as Contaminated Land	0	0	0	0	-

79	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
79	4.7	Regulated explosive sites	0	0	0	0	-
79	4.8	Hazardous substance storage/usage	0	0	0	0	-
80	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
80	**4.10**	**Licensed industrial activities (Part A(1))**	2	1	0	4	-
81	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
81	4.12	Radioactive Substance Authorisations	0	0	0	0	-
81	**4.13**	**Licensed Discharges to controlled waters**	0	0	1	2	-
82	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
82	4.15	Pollutant release to public sewer	0	0	0	0	-
82	4.16	List 1 Dangerous Substances	0	0	0	0	-
83	4.17	List 2 Dangerous Substances	0	0	0	0	-
83	**4.18**	**Pollution Incidents (EA/NRW)**	0	0	0	1	-
83	4.19	Pollution inventory substances	0	0	0	0	-
83	4.20	Pollution inventory waste transfers	0	0	0	0	-
84	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
85	**5.1**	**Superficial aquifer**	Identified (within 500m)				
87	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
88	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
89	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
89	**5.5**	**Groundwater vulnerability- local information**	Identified (within 0m)				
90	**5.6**	**Groundwater abstractions**	0	0	0	0	39
100	5.7	Surface water abstractions	0	0	0	0	0
100	**5.8**	**Potable abstractions**	0	0	0	0	5
101	5.9	Source Protection Zones	0	0	0	0	-
102	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
103	**6.1**	**Water Network (OS MasterMap)**	0	0	11	-	-

104	6.2	Surface water features	0	1	3	-	-
105	6.3	WFD Surface water body catchments	1	-	-	-	-
105	6.4	WFD Surface water bodies	1	0	0	-	-
106	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
107	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	High (within 50m)				
108	7.2	Historical Flood Events	0	1	2	-	-
108	7.3	Flood Defences	1	0	0	-	-
109	7.4	Areas Benefiting from Flood Defences	1	0	5	-	-
109	7.5	Flood Storage Areas	0	0	0	-	-
110	7.6	Flood Zone 2	Identified (within 50m)				
111	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
112	8.1	Surface water flooding	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
114	9.1	Groundwater flooding	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
115	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
116	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
116	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
116	10.4	Special Protection Areas (SPA)	0	0	0	0	0
116	10.5	National Nature Reserves (NNR)	0	0	0	0	0
117	10.6	Local Nature Reserves (LNR)	0	0	0	0	1
117	10.7	Designated Ancient Woodland	0	0	0	0	0
117	10.8	Biosphere Reserves	0	0	0	0	0
117	10.9	Forest Parks	0	0	0	0	0
118	10.10	Marine Conservation Zones	0	0	0	0	0
118	10.11	Green Belt	0	0	0	0	0
118	10.12	Proposed Ramsar sites	0	0	0	0	0

118	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
118	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
119	10.15	Nitrate Sensitive Areas	0	0	0	0	0
119	**10.16**	**Nitrate Vulnerable Zones**	0	0	0	0	1
120	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
121	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
122	11.1	World Heritage Sites	0	0	0	-	-
123	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
123	11.3	National Parks	0	0	0	-	-
123	**11.4**	**Listed Buildings**	0	2	4	-	-
124	**11.5**	**Conservation Areas**	0	0	1	-	-
124	11.6	Scheduled Ancient Monuments	0	0	0	-	-
125	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
126	**12.1**	**Agricultural Land Classification**	Urban (within 250m)				
127	12.2	Open Access Land	0	0	0	-	-
127	12.3	Tree Felling Licences	0	0	0	-	-
127	12.4	Environmental Stewardship Schemes	0	0	0	-	-
127	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
128	**13.1**	**Priority Habitat Inventory**	1	1	0	-	-
129	**13.2**	**Habitat Networks**	0	1	0	-	-
129	**13.3**	**Open Mosaic Habitat**	0	1	0	-	-
129	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
130	**14.1**	**10k Availability**	Identified (within 500m)				
131	**14.2**	**Artificial and made ground (10k)**	0	0	3	2	-
133	**14.3**	**Superficial geology (10k)**	1	0	1	0	-

134	14.4	Landslip (10k)	0	0	0	0	-
135	14.5	Bedrock geology (10k)	1	0	1	0	-
136	14.6	Bedrock faults and other linear features (10k)	0	0	2	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
137	15.1	50k Availability	Identified (within 500m)				
138	15.2	Artificial and made ground (50k)	0	0	3	7	-
139	15.3	Artificial ground permeability (50k)	0	0	-	-	-
140	15.4	Superficial geology (50k)	1	0	1	1	-
141	15.5	Superficial permeability (50k)	Identified (within 50m)				
141	15.6	Landslip (50k)	0	0	0	0	-
141	15.7	Landslip permeability (50k)	None (within 50m)				
142	15.8	Bedrock geology (50k)	1	1	0	2	-
143	15.9	Bedrock permeability (50k)	Identified (within 50m)				
143	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
144	16.1	BGS Boreholes	9	63	215	-	-
Page	Section	Natural ground subsidence					
156	17.1	Shrink swell clays	Low (within 50m)				
157	17.2	Running sands	Low (within 50m)				
158	17.3	Compressible deposits	High (within 50m)				
159	17.4	Collapsible deposits	Negligible (within 50m)				
160	17.5	Landslides	Low (within 50m)				
162	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
164	18.1	Natural cavities	0	0	1	4	-
165	18.2	BritPits	0	0	0	1	-
166	18.3	Surface ground workings	14	12	75	-	-
170	18.4	Underground workings	0	4	9	1	12
171	18.5	Historical Mineral Planning Areas	0	0	0	0	-

171	18.6	Non-coal mining	0	0	0	0	0
171	18.7	Mining cavities	0	0	0	0	0
172	18.8	JPB mining areas	None (within 0m)				
172	18.9	Coal mining	None (within 0m)				
172	18.10	Brine areas	None (within 0m)				
172	18.11	Gypsum areas	None (within 0m)				
172	18.12	Tin mining	None (within 0m)				
173	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
174	**19.1**	**Radon**	Between 1% and 3% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
176	**20.1**	**BGS Estimated Background Soil Chemistry**	1	2	-	-	-
176	**20.2**	**BGS Estimated Urban Soil Chemistry**	4	7	-	-	-
177	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

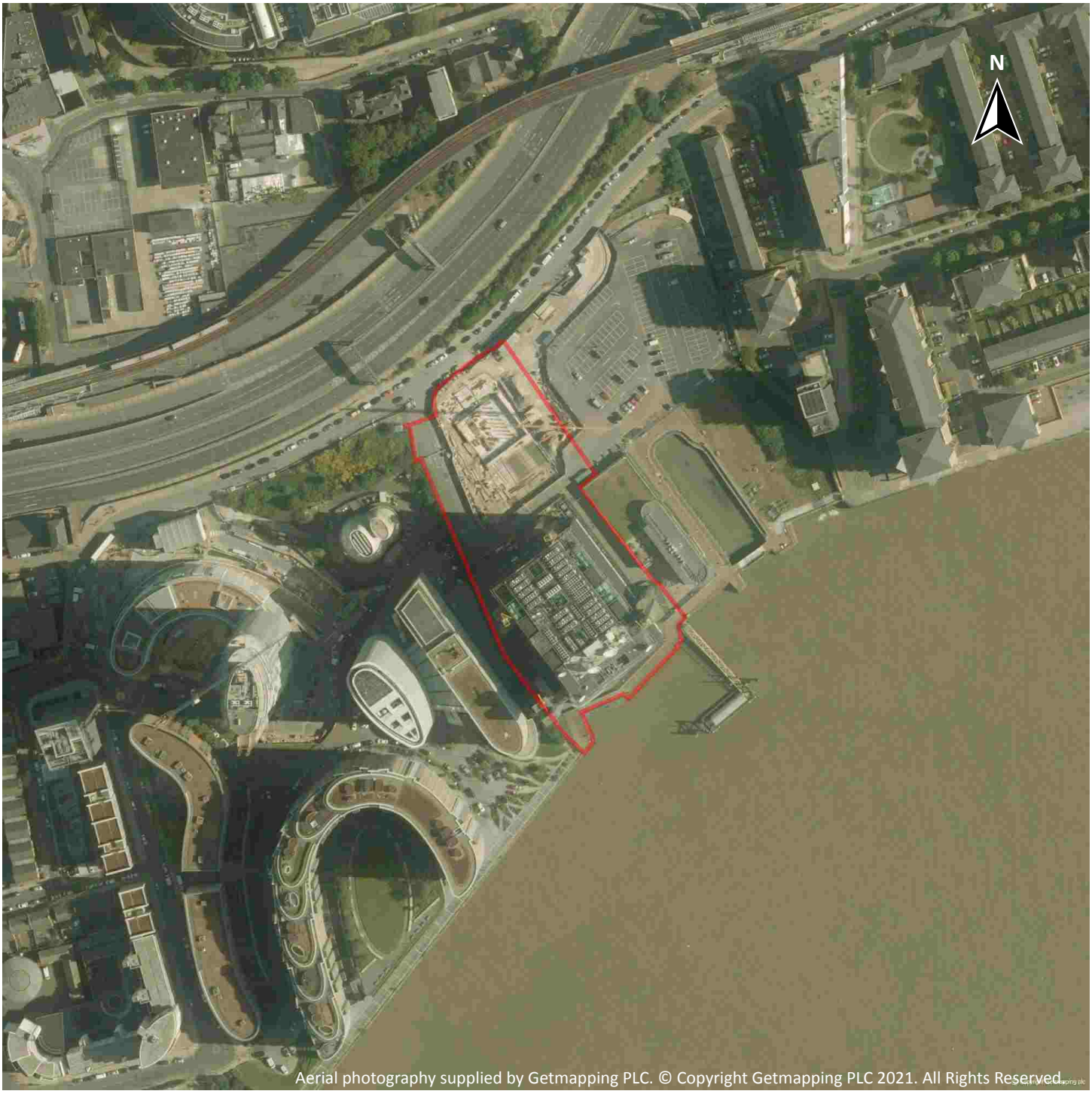
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
178	**21.1**	**Underground railways (London)**	0	0	1	-	-
179	21.2	Underground railways (Non-London)	0	0	0	-	-
179	21.3	Railway tunnels	0	0	0	-	-
179	**21.4**	**Historical railway and tunnel features**	25	25	62	-	-
183	21.5	Royal Mail tunnels	0	0	0	-	-
184	**21.6**	**Historical railways**	0	0	1	-	-
184	**21.7**	**Railways**	0	0	4	-	-
184	**21.8**	**Crossrail 1**	1	1	0	0	-
185	21.9	Crossrail 2	0	0	0	0	-
185	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 29/06/2019

Site Area: 1.05ha

Recent site history - 2015 aerial photograph



Capture Date: 07/06/2015

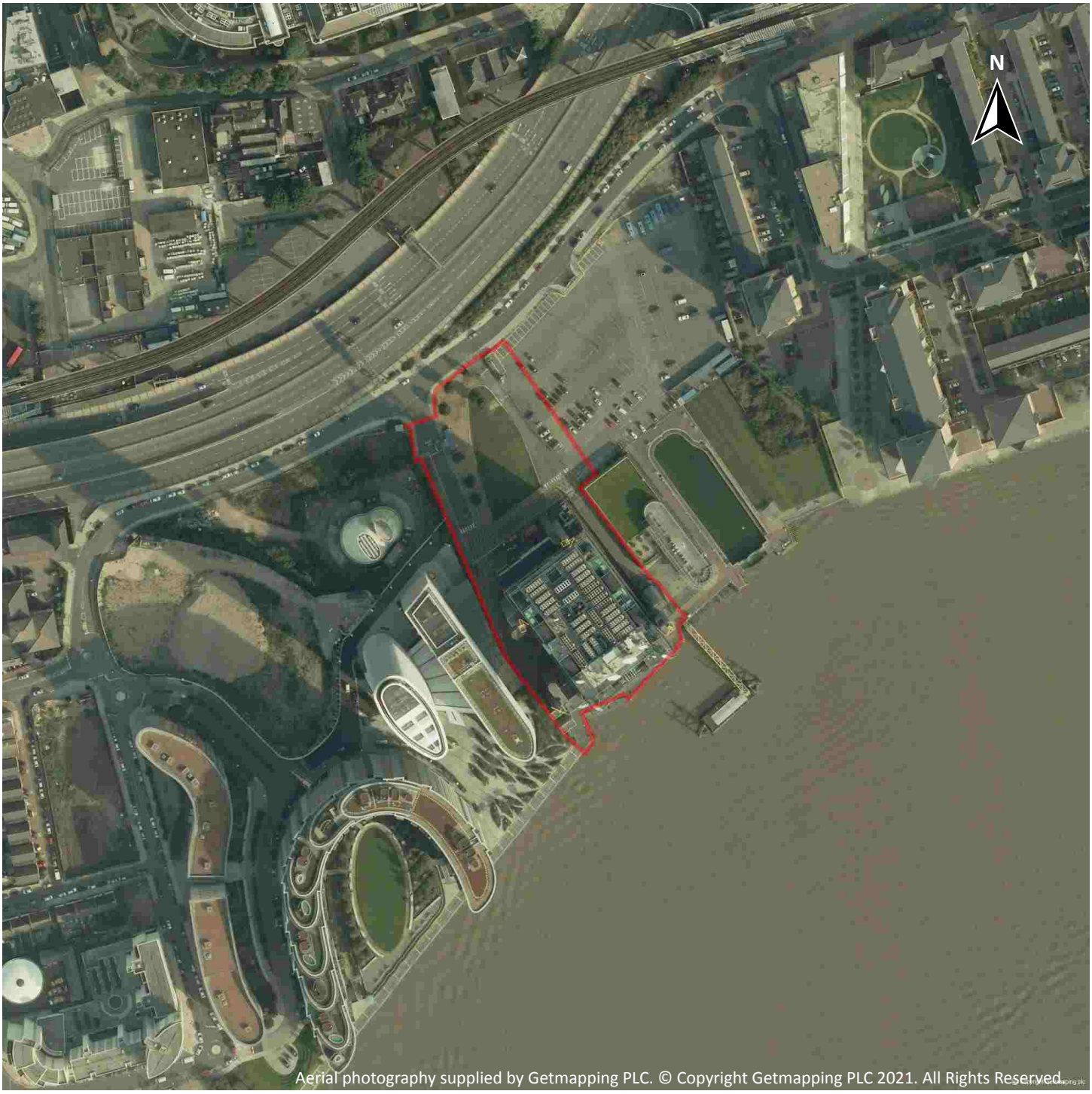
Site Area: 1.05ha

Recent site history - 2013 aerial photograph

Capture Date: 20/04/2013

Site Area: 1.05ha

Recent site history - 2008 aerial photograph



Capture Date: 21/09/2008

Site Area: 1.05ha

Recent site history - 1999 aerial photograph

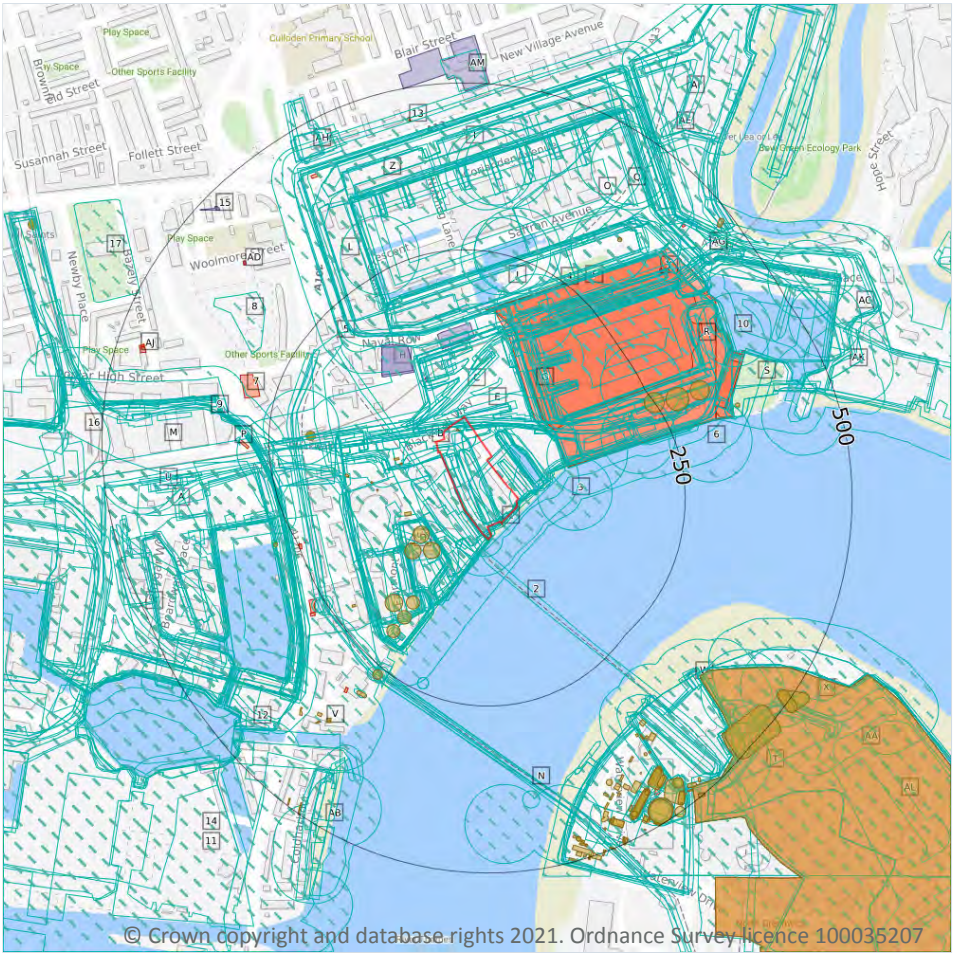
Capture Date: 04/09/1999

Site Area: 1.05ha

OS MasterMap site plan

Site Area: 1.05ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	379

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 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
1	**On site**	**Unspecified Wharf**	**1867**	**2240274**

ID	Location	Land use	Dates present	Group ID
A	On site	Railway Sidings	1894	2123463
A	On site	Railway Sidings	1938	2207465
A	On site	Railway Sidings	1920	2220132
A	On site	Railway Sidings	1894	2293765
B	On site	Railway Building	1867	2149463
B	On site	Ship Building Yards	1867	2163214
B	On site	Ship Building Yard	1898	2181439
B	On site	Railway Sidings	1898	2186998
B	On site	Docks	1955	2188660
B	On site	Railway Sidings	1894 - 1965	2198657
B	On site	Unspecified Yard	1899	2205701
B	On site	Unspecified Yard	1894	2224641
B	On site	Unspecified Yard	1894	2232871
B	On site	Unspecified Yard	1938	2265327
B	On site	Dock	1973 - 1989	2266886
B	On site	Unspecified Yard	1920 - 1949	2267913
B	On site	Unspecified Yard	1896	2268088
B	On site	Railway Sidings	1949	2280458
B	On site	Ship Building Yard	1867	2281136
C	On site	Goods Depot	1965	2158394
C	On site	Goods and Coal Yard	1955	2165386
C	On site	Dock	1894	2175396
C	On site	Docks	1920	2199845
C	On site	Railway Sidings	1899	2203152
C	On site	Railway Sidings	1898	2203219
C	On site	Railway Depot	1867	2217745
C	On site	Railway Sidings	1867	2225460
C	On site	Unspecified Commercial/Industrial	1896	2242234

ID	Location	Land use	Dates present	Group ID
C	**On site**	**Railway Sidings**	**1867**	**2250765**
C	**On site**	**Railway Sidings**	**1899**	**2256950**
C	**On site**	**Railway Depot**	**1898**	**2287840**
D	**On site**	**Oil Depot**	**1973 - 1981**	**2178387**
D	**On site**	**Dock**	**1938 - 1949**	**2192566**
D	**On site**	**Ship Building Yard**	**1867**	**2208035**
D	**On site**	**Unspecified Dock**	**1899**	**2254770**
D	**On site**	**Goods Station**	**1899**	**2257974**
D	**On site**	**Dock**	**1894**	**2271999**
D	**On site**	**Unspecified Dock**	**1896**	**2273170**
D	**On site**	**Railway Sidings**	**1955**	**2283024**
E	**On site**	**Dock**	**1894**	**2179979**
C	2m N	Railway Building	1867	2149464
D	3m SW	Ship Building Yard	1867	2206621
2	13m SW	Tunnel	1973 - 1994	2225947
B	21m NE	Graving Dock	1867	2255639
B	22m NE	Dock	1981 - 1989	2280704
B	26m NE	Docks	1955	2266485
C	27m NW	Railway Sidings	1899	2175970
C	27m NW	Railway Sidings	1899	2199142
D	28m SW	Wharf	1898	2160621
D	28m SW	Ship Building Yard	1898	2287201
B	29m E	Dock	1994	2268546
3	29m E	Graving Dock	1867	2252972
D	29m SW	Railway Sidings	1898	2214081
B	30m NE	Graving Dock	1898	2262322
C	33m NW	Railway Sidings	1896	2292882
B	35m NE	Unspecified Yard	1894	2207059

ID	Location	Land use	Dates present	Group ID
C	35m NE	Unspecified Ground Workings	1949	2133804
D	37m SW	Unspecified Wharf	1867	2265228
D	39m SW	Dock	1894	2271902
D	46m NW	Railway Station	1896	2284464
D	49m SW	Graving Dock	1898	2241343
D	49m SW	Graving Docks	1867	2227489
D	58m SW	Graving Dock	1867	2246031
C	61m NW	Railway Depot	1867	2192698
D	62m SW	Unspecified Tanks	1973 - 1981	2197750
D	63m SW	Dock	1955	2278242
E	63m NE	Unspecified Wharf	1894	2224323
C	66m NW	Railway Building	1894	2149465
C	68m N	Railway Buildings	1949	2163692
D	71m W	Railway Station	1867	2262543
D	72m SW	Graving Dock	1867	2249576
D	74m SW	Graving Docks	1898	2204881
E	83m NE	Unspecified Commercial/Industrial	1955	2236065
E	88m NE	Railway Sidings	1973	2200525
E	88m NE	Electric Generating Station	1973 - 1981	2202620
E	88m NE	Dock	1894 - 1938	2268649
F	90m NE	Unspecified Dock	1867	2265330
F	90m NE	Export Dock	1896	2128896
E	90m NE	Unspecified Wharf	1938	2248417
E	90m NE	Dock	1867	2290233
G	92m NE	Quay	1867	2139303
D	92m W	Unspecified Tanks	1898	2144039
D	95m SW	Goods Station	1949	2190554
D	97m W	Railway Station	1920 - 1949	2173384

ID	Location	Land use	Dates present	Group ID
4	97m NE	Unspecified Dock	1899	2182205
D	102m W	Railway Station	1899	2205029
G	103m NE	Unspecified Quay	1867	2166596
D	104m SW	Goods Station	1938	2232112
D	104m SW	Goods Station	1920	2191809
D	104m SW	Goods Station	1894	2246470
D	105m SW	Goods Station	1894 - 1896	2227319
D	108m W	Railway Station	1894	2251024
D	108m W	Railway Station	1894	2197287
C	108m N	Pumping Station	1981 - 1989	2171686
D	108m SW	Graving Docks	1867	2280982
E	111m NE	Dock	1949	2276576
E	112m NE	Quay	1867	2189448
E	114m NE	Unspecified Wharf	1894 - 1899	2186554
E	117m NE	Quay	1938	2255392
I	117m N	Dock	1949 - 1965	2291706
I	118m N	Dock	1894	2265568
E	119m NE	Unspecified Wharf	1867	2193110
E	122m NE	Quay	1949	2244953
E	122m NE	Unspecified Wharf	1949	2269571
E	122m NE	Quay	1920	2215688
C	127m NE	Railway Station	1994	2152687
E	131m E	Unspecified Quay	1867	2166601
I	135m N	Dock	1867	2191311
I	137m N	Dock	1898	2204775
D	137m SW	Unspecified Tanks	1973 - 1981	2272806
I	139m N	Dock	1938	2267818
J	139m N	Quay	1938	2228825

ID	Location	Land use	Dates present	Group ID
I	140m N	Dock	1894	2175787
D	146m W	Railway Station	1994	2203593
E	147m NE	Unspecified Wharf	1989 - 1994	2279861
J	148m N	Transit Shed	1920	2225038
K	149m W	Railway Sidings	1894 - 1898	2172693
K	149m W	Dock Station	1894	2274659
D	149m W	Railway Building	1949	2149461
A	150m W	Dock	1894	2263043
D	150m W	Railway Building	1949	2149460
C	152m N	Unspecified Warehouse	1973	2267525
F	153m NE	Quay	1938	2248701
C	154m N	Unspecified Warehouses	1955 - 1965	2231496
J	154m N	Unspecified Warehouse	1938	2198569
J	154m N	Transit Shed	1938	2268745
J	155m N	Transit Shed	1949	2206049
D	156m W	Railway Sidings	1898	2171468
F	157m NE	Quay	1920 - 1949	2182498
L	160m NW	Quay	1938	2265751
E	162m NE	Railway Station	1894 - 1899	2258941
D	164m W	Railway Building	1949	2149462
I	167m NW	Import Dock	1896	2146419
E	167m NE	Railway Station	1894	2180678
E	170m NE	Unspecified Wharf	1965	2271453
F	175m NE	Unspecified Warehouse	1920 - 1949	2247227
D	180m SW	Wharf	1898	2160628
F	187m NE	Railway Buildings	1894	2280149
E	187m NE	Quay	1920	2191717
D	188m SW	Unspecified Wharf	1867	2244842

ID	Location	Land use	Dates present	Group ID
J	188m N	Quay	1955	2172721
D	191m SW	Unspecified Tank	1973 - 1981	2253136
D	192m W	Railway Station	1949	2229875
L	194m NW	Quay	1920	2210217
L	195m NW	Transit Shed	1920	2174554
L	195m NW	Unspecified Warehouse	1920	2252801
J	196m N	Quay	1973	2192650
J	197m N	Quay	1920	2249843
C	197m NW	Quay	1949	2189760
J	197m N	Quay	1949	2254185
L	199m NW	Quay	1949	2182695
F	200m NE	Quay	1867	2237724
L	200m NW	Transit Shed	1938	2225541
D	200m W	Tunnel	1949	2293546
D	201m W	Railway Building	1965	2149459
E	201m NE	Wharf	1898	2160619
I	202m NW	Railway Sidings	1955	2177340
D	204m W	Unspecified Tank	1898	2155137
D	205m W	Tunnel	1920	2210274
E	205m NE	Unspecified Wharf	1894	2232500
E	206m NE	Unspecified Wharf	1867	2260782
A	207m W	Dock	1894	2212151
F	207m NE	Railway Buildings	1949	2279737
F	207m NE	Unspecified Quay	1867	2166595
E	209m NE	Unspecified Wharf	1920	2184386
D	209m W	Tunnel	1955 - 1994	2250914
E	210m NE	Railway Station	1920 - 1938	2201122
L	214m NW	Quay	1955	2294915

ID	Location	Land use	Dates present	Group ID
E	218m NE	Railway Station	1949	2262171
A	228m W	Docks	1949 - 1955	2221010
D	228m SW	Unspecified Wharf	1989 - 1994	2197110
D	228m SW	Unspecified Wharf	1973	2227671
E	234m NE	Unspecified Tanks	1973 - 1981	2193676
6	239m E	Unspecified Wharf	1955	2235635
D	240m SW	Unspecified Wharf	1981	2157268
D	240m SW	Unspecified Tank	1920 - 1949	2223063
A	240m W	Railway Sidings	1949	2279320
K	242m W	Dock	1894 - 1989	2268162
A	245m W	Docks	1920	2208137
D	245m SW	Unspecified Tank	1938	2188836
K	245m W	Docks	1938	2206300
D	247m SW	Unspecified Tank	1920 - 1949	2248615
A	248m W	Unspecified Dock	1899	2252195
A	248m W	Railway Sidings	1898 - 1899	2258878
A	249m W	Unspecified Docks	1896 - 1898	2244891
A	250m W	Railway Sidings	1955	2183339
A	250m W	Railway Sidings	1973	2216348
A	250m W	Railway Sidings	1965	2253307
A	250m W	Unspecified Commercial/Industrial	1955 - 1965	2291834
D	250m SW	Unspecified Tank	1955 - 1994	2290702
M	251m W	Railway Sidings	1981	2211725
D	251m SW	Unspecified Tank	1938	2267972
K	251m W	Dock	1894	2271994
A	252m W	Unspecified Dock	1867	2168920
A	253m W	Railway Sidings	1898	2226904
A	253m W	Railway Sidings	1867	2197495

ID	Location	Land use	Dates present	Group ID
A	254m W	Railway Sidings	1894	2238105
D	254m SW	Unspecified Tank	1955 - 1994	2208963
N	254m SW	Tunnel	1938	2178588
F	254m NE	Unspecified Warehouses	1955 - 1965	2203020
A	258m SW	Dock	1867 - 1994	2288149
M	258m W	Unspecified Commercial/Industrial	1898	2295272
O	259m N	Dock	1981	2205824
O	261m NE	Dock	1989	2203276
A	262m W	Railway Sidings	1867	2240832
F	267m NE	Unspecified Warehouse	1920	2247228
A	267m W	Docks	1894	2237025
F	278m NE	Unspecified Warehouse	1949	2264234
N	289m SE	Dry Dock	1920	2188084
P	293m W	Railway Building	1894	2149466
D	295m SW	Unspecified Tanks	1955 - 1965	2281166
8	298m NW	Unspecified Heaps	1981 - 1994	2228601
Q	298m NE	Tunnel	1994	2151554
I	311m N	Quay	1955	2219078
N	315m SE	Dry Dock	1938 - 1949	2178881
I	318m N	Quay	1920	2273895
A	320m W	Railway Building	1973	2149455
I	320m N	Quay	1973	2264982
I	321m N	Unspecified Quay	1867	2166594
I	323m N	Quay	1867	2278501
9	329m W	Railway Building	1894	2149468
N	332m SE	Ship Building Yard	1894	2210707
N	332m SE	Dry Dock	1894	2208992
N	335m SE	Shipbuilding Yard	1896	2204773

ID	Location	Land use	Dates present	Group ID
E	336m NE	Unspecified Wharf	1867	2259207
R	337m NE	Quay	1867	2197148
N	337m SE	Shipbuilding Yard	1899	2279364
N	338m SE	Dock	1894	2146531
N	339m SE	Shipbuilding Yard	1894	2188392
N	339m SE	Unspecified Commercial/Industrial	1899 - 1938	2176810
R	341m NE	Unspecified Quay	1867	2166599
N	342m SE	Dry Dock	1896 - 1899	2272872
N	343m SE	Dry Dock	1894	2229499
E	344m E	Wharf	1898	2160620
S	344m E	Dock	1898	2205825
T	344m SE	Gas Works	1973	2202339
T	344m SE	Unspecified Commercial/Industrial	1955 - 1965	2285136
T	344m SE	Railway Sidings	1955 - 1965	2291400
N	352m SE	Unspecified Commercial/Industrial	1894	2239830
E	353m NE	Unspecified Tank	1894	2155131
U	353m W	Railway Building	1949	2149458
10	355m NE	Quay	1994	2291732
I	357m N	Quay	1938	2280045
W	357m SE	Unspecified Wharf	1938 - 1949	2194042
N	358m SE	Unspecified Wharf	1896	2179110
X	358m SE	Unspecified Wharf	1994	2183109
I	359m N	Quay	1949	2218523
N	359m SE	Unspecified Wharf	1894	2240655
N	360m SE	Unspecified Wharf	1949	2219797
I	362m N	Quay	1898	2286399
W	362m SE	Unspecified Wharf	1920	2281439
U	363m W	Unspecified Depot	1965	2221839

ID	Location	Land use	Dates present	Group ID
Z	364m N	Transit Shed	1920 - 1938	2212947
N	364m SE	Unspecified Wharf	1981	2201110
N	365m SE	Unspecified Wharf	1920	2279658
M	368m W	Railway Sidings	1898	2206838
N	368m S	Unspecified Wharf	1894	2174549
AA	368m SE	Railway Sidings	1894	2169118
AA	368m SE	Railway Sidings	1898	2169119
AA	368m SE	Railway Sidings	1898	2169120
AA	368m SE	Railway Sidings	1899	2169121
AA	368m SE	Railway Sidings	1899	2169122
AA	368m SE	Railway Sidings	1894	2169123
AA	368m SE	Railway Sidings	1894	2169124
Z	369m N	Transit Shed	1949	2170233
A	370m W	Railway Building	1973	2149456
AB	371m SW	Unspecified Wharf	1994	2260125
AA	373m SE	Gas Works	1894 - 1896	2212561
W	374m SE	Unspecified Wharf	1955	2185956
AA	375m SE	Gas Works	1899	2169155
AA	375m SE	Gas Works	1894	2169156
AA	375m SE	Gas Works	1899	2169157
I	377m N	Transit Shed	1920 - 1938	2266217
AA	379m SE	Unspecified Commercial/Industrial	1920 - 1938	2226545
S	380m NE	Basin	1896	2164527
F	380m NE	Quay	1981	2222402
AB	381m SW	Dock	1920	2240323
I	381m N	Transit Shed	1949	2245402
N	382m S	Unspecified Wharf	1938	2241678
U	384m W	Unspecified Depot	1973 - 1981	2208279

ID	Location	Land use	Dates present	Group ID
11	384m SW	Dock	1867 - 1955	2288150
S	385m NE	Dock Basin	1899	2195690
S	385m NE	Dock Basin	1981 - 1989	2183577
F	385m NE	Quay	1949	2235875
I	386m NW	Railway Sidings	1973	2181017
I	386m NW	Railway Sidings	1965	2260980
Q	387m NE	Quay	1973 - 1989	2260093
S	387m NE	Dock Basin	1867	2223724
AC	388m NE	Dock Basin	1994	2278692
AB	391m SW	Unspecified Wharf	1955	2199705
AE	392m N	Railway Sidings	1981	2228451
Q	393m NE	Quay	1955	2177262
A	401m SW	Railway Building	1949	2149454
AB	403m SW	Unspecified Wharf	1894 - 1989	2234683
N	408m S	Unspecified Wharf	1899	2265890
W	413m SE	Unspecified Wharf	1973	2241234
K	413m SW	Quay	1938	2244218
E	416m NE	Unspecified Wharf	1867	2235958
AB	417m SW	Unspecified Wharf	1894	2282492
X	418m SE	Unspecified Wharf	1989	2240497
AF	419m NE	Dock Basin	1894	2231494
N	419m SE	Unspecified Tanks	1894	2280501
AG	420m NE	Quay	1938	2188764
AC	420m NE	Dock Basin	1973	2262343
W	421m SE	Unspecified Pit	1894	2170727
N	421m SE	Unspecified Tanks	1894 - 1899	2169384
AB	421m SW	Unspecified Wharf	1899	2187414
N	421m SE	Unspecified Tanks	1955 - 1965	2242765

ID	Location	Land use	Dates present	Group ID
12	421m SW	Dock	1898	2182010
Q	422m NE	Unspecified Quay	1867	2166597
AF	422m NE	Quay	1955	2178386
AB	423m SW	Unspecified Wharf	1894 - 1896	2263868
N	424m SE	Unspecified Tanks	1938 - 1949	2184126
M	425m W	Railway Buildings	1867	2163573
N	427m S	Ordnance Works	1898	2165181
Q	428m NE	Quay	1949	2236025
N	429m SE	Unspecified Tanks	1973	2288398
M	430m W	Railway Building	1894	2149467
Q	430m NE	Quay	1920	2210876
W	431m SE	Unspecified Ground Workings	1896 - 1899	2251894
N	431m SE	Unspecified Tanks	1920	2232826
W	435m SE	Unspecified Pit	1894	2174588
AE	437m N	Transit Shed	1938	2213675
AH	438m NW	Hospital	1920	2222205
AE	439m N	Transit Shed	1920 - 1949	2184040
N	441m SE	Unspecified Tanks	1955 - 1965	2211990
AH	444m NW	Hospital	1938 - 1949	2287965
AH	445m NW	Hospital	1955 - 1973	2284023
AH	446m NW	Hospital	1898 - 1899	2260634
AI	446m NE	Unspecified Wharf	1896	2252953
AI	448m NE	Unspecified Wharf	1894	2237624
K	448m SW	Basin	1899	2204588
AH	449m NW	Hospital	1894	2192245
AH	449m NW	Hospital	1894	2209836
K	450m SW	Docks	1965	2185832
N	451m SE	Unspecified Tanks	1965	2171721

ID	Location	Land use	Dates present	Group ID
N	451m SE	Unspecified Tanks	1955	2201083
K	452m SW	Basin	1896	2230081
K	453m SW	Basin	1898	2293464
AI	453m NE	Unspecified Wharf	1899	2275800
W	453m SE	Unspecified Tanks	1955 - 1973	2278629
A	455m W	Goods Shed	1938 - 1949	2212466
K	456m SW	Dock Basin	1867	2151239
N	456m SE	Unspecified Tanks	1920	2185981
N	458m SE	Unspecified Tank	1894	2276408
W	458m SE	Unspecified Tanks	1938 - 1949	2210894
A	462m W	Goods Sheds	1920	2166527
14	462m SW	Unspecified Dock	1867	2259360
N	462m SE	Unspecified Tank	1894	2205904
N	465m SE	Unspecified Tank	1899	2193408
N	465m S	Unspecified Tank	1965	2155134
AK	469m NE	Unspecified Wharf	1989	2222012
W	470m SE	Unspecified Pit	1894	2125455
AI	471m NE	Railway Sidings	1894	2183217
AF	471m NE	Dock	1949 - 1955	2283202
W	473m SE	Unspecified Ground Workings	1894	2269541
K	475m SW	Quay	1949	2227985
AI	476m NE	Railway Sidings	1896	2272461
AC	477m NE	Quay	1973 - 1994	2282612
X	477m SE	Gasometers	1973	2138392
X	477m SE	Unspecified Tanks	1955 - 1965	2264248
AI	478m NE	Railway Sidings	1894	2286219
W	479m SE	Unspecified Ground Workings	1894	2237569
AF	480m NE	Quay	1920	2255408

ID	Location	Land use	Dates present	Group ID
AL	482m SE	Railway Sidings	1894	2194243
AF	483m NE	Quay	1949	2198607
AI	485m NE	Railway Sidings	1894	2199560
AI	485m NE	Railway Sidings	1899	2275496
AM	487m N	Unspecified Depot	1965	2147249
16	487m W	Railway Sidings	1989 - 1994	2204374
AB	489m SW	Unspecified Wharf	1938	2188323
AK	490m E	Unspecified Commercial/Industrial	1955	2184344
AI	491m NE	Unspecified Commercial/Industrial	1949	2201134
AK	496m E	Unspecified Commercial/Industrial	1898	2251512
AL	497m SE	Railway Sidings	1896	2223423
17	498m NW	Grave Yard	1898	2202045
AI	499m NE	Unspecified Commercial/Industrial	1867	2181784
AI	500m NE	Unspecified Commercial/Industrial	1938	2205589

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**119**

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
B	**On site**	**Unspecified Tank**	**1916**	**366885**
D	57m W	Unspecified Tank	1951	385127
D	57m W	Unspecified Tank	1950	404755
D	59m W	Unspecified Tank	1950	366883

ID	Location	Land use	Dates present	Group ID
D	62m SW	Unspecified Tank	1969	366886
D	63m SW	Unspecified Tank	1969	404841
D	75m SW	Unspecified Tank	1969	366884
D	87m SW	Unspecified Tank	1969	410269
D	106m SW	Tanks	1981	396762
D	106m SW	Tanks	1971	382628
D	108m SW	Tanks	1981	390705
D	108m SW	Tanks	1971	388330
D	137m SW	Unspecified Tank	1969	366887
D	138m W	Unspecified Tank	1950	410440
D	155m SW	Unspecified Tank	1969	366879
D	161m SW	Unspecified Tank	1969	366882
D	188m SW	Unspecified Tank	1969	366880
D	216m SW	Unspecified Tank	1950 - 1961	406177
E	235m NE	Unspecified Tank	1969	366890
D	255m SW	Unspecified Tank	1950	366881
E	264m NE	Unspecified Tank	1969	366891
A	277m SW	Unspecified Tank	1896	366869
D	296m SW	Tanks	1950 - 1961	389494
E	302m NE	Unspecified Tank	1969	366892
F	350m NE	Unspecified Tank	1993 - 1994	406280
E	354m NE	Unspecified Tank	1951	366893
N	355m SE	Unspecified Tank	1969	366889
V	357m SW	Unspecified Tank	1971 - 1991	409146
V	360m SW	Unspecified Tank	1998	384786
V	361m SW	Tanks	1950	376671
N	366m SE	Unspecified Tank	1950 - 1969	384820
V	371m SW	Tanks	1950	376670

ID	Location	Land use	Dates present	Group ID
N	372m SE	Tanks	1950	376736
N	372m SE	Unspecified Tank	1950 - 1969	405890
AA	373m SE	Gas Works	1896 - 1953	408160
V	375m SW	Tanks	1950	376672
N	378m SE	Tanks	1950	376735
N	379m SE	Tanks	1969	376737
N	390m SE	Unspecified Tank	1950 - 1969	384063
N	396m SE	Cooling Tank	1969	374246
N	399m SE	Unspecified Tank	1950 - 1969	406641
N	402m SE	Unspecified Tank	1896	366860
N	406m SE	Unspecified Tank	1950	366863
N	413m SE	Tanks	1950	376658
N	417m SE	Unspecified Tank	1896	366849
N	418m SE	Tanks	1969	376660
N	419m SE	Tanks	1969	376733
N	423m SE	Tanks	1969	376734
N	424m SE	Unspecified Tank	1950	366861
N	424m SE	Tanks	1896	411446
N	425m SE	Tanks	1950 - 1969	392720
N	426m SE	Unspecified Tanks	1896	379233
N	427m SE	Unspecified Tank	1969	366862
N	433m SE	Unspecified Tank	1950	366859
N	439m SE	Tanks	1950 - 1969	393053
N	441m SE	Tanks	1896 - 1961	394594
N	443m SE	Tanks	1950 - 1969	403955
N	443m SE	Tanks	1969	383910
N	443m SE	Unspecified Tanks	1896	379232
N	445m SE	Unspecified Tank	1950 - 1961	403044

ID	Location	Land use	Dates present	Group ID
N	451m SE	Tanks	1969	389542
N	452m SE	Unspecified Tank	1950 - 1969	387759
N	455m SE	Unspecified Tank	1950 - 1961	392770
N	456m SE	Tanks	1950	386706
N	456m SE	Tanks	1950 - 1969	392115
N	457m SE	Tanks	1950	376659
N	457m SE	Unspecified Tank	1950 - 1969	397227
W	458m SE	Tanks	1950 - 1969	404297
N	459m SE	Tanks	1950	409719
N	462m S	Unspecified Tank	1969	366858
N	462m SE	Unspecified Tank	1896	366852
N	463m SE	Unspecified Tank	1896 - 1969	392653
N	465m SE	Unspecified Tank	1950 - 1961	393645
N	465m S	Tanks	1950	383099
N	465m S	Tanks	1950	394462
N	466m S	Unspecified Tank	1950	395418
N	466m S	Unspecified Tank	1961	399363
N	467m S	Unspecified Tank	1950	389033
N	472m S	Tanks	1950	404013
N	473m SE	Tanks	1969	376738
AG	474m NE	Tanks	1969 - 1987	389187
N	475m S	Tanks	1950	386638
N	475m SE	Tanks	1950 - 1961	385551
N	475m SE	Tanks	1950	385016
N	476m S	Tanks	1950	403551
N	476m SE	Tanks	1950	388390
N	476m SE	Tanks	1950 - 1969	402864
N	476m SE	Tanks	1969	393819

ID	Location	Land use	Dates present	Group ID
N	476m S	Tanks	1950 - 1961	397245
AB	477m SW	Unspecified Tank	1971	366864
N	479m S	Tanks	1950	402381
X	480m SE	Tanks	1950	389146
X	480m SE	Tanks	1951 - 1961	410458
N	480m SE	Unspecified Tank	1969	366847
N	483m SE	Unspecified Tank	1896	366846
N	483m SE	Unspecified Tank	1896	366851
AB	484m SW	Tanks	1971	376673
N	486m S	Tanks	1950	399529
AB	489m SW	Tanks	1971	376675
N	489m SE	Unspecified Tank	1896	366845
N	489m SE	Tanks	1950 - 1969	390225
N	490m SE	Unspecified Tank	1961	366855
N	491m SE	Unspecified Tank	1950 - 1969	382640
N	492m SE	Tanks	1950	376732
N	492m SE	Tanks	1961	387926
N	492m S	Unspecified Tank	1969	366857
N	493m S	Tanks	1950	376661
N	493m SE	Unspecified Tank	1950	366850
N	493m SE	Tanks	1961	410253
N	494m SE	Tanks	1950	409842
N	495m SE	Tanks	1950 - 1969	388786
N	495m S	Tanks	1969	376667
N	496m S	Tanks	1950	376662
N	496m SE	Unspecified Tank	1961	366853
N	496m S	Tanks	1950	376663
N	497m S	Tanks	1950	386394

ID	Location	Land use	Dates present	Group ID
N	497m S	Tanks	1950 - 1961	381654
N	498m SE	Unspecified Tank	1961	366854
N	500m S	Tanks	1950	376664

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**33**

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
C	73m NW	Electricity Substation	1969 - 1991	279512
E	84m NE	Electricity Generating Station	1969	272129
E	87m NE	Wharf Generating Station	1951	263542
E	95m NE	Wharf Generating Station	1950	268346
D	194m SW	Electricity Substation	1971	276718
D	194m SW	Electricity Substation	1998	255856
D	195m SW	Electricity Substation	1985 - 1991	289929
5	209m NW	Electricity Substation	1971 - 1991	292375
A	235m SW	Electricity Substation	1991 - 1998	257391
A	245m SW	Electricity Substation	1971 - 1985	258274
D	259m SW	Electricity Substation	1971 - 1991	292596
D	272m SW	Electricity Substation	1950	281285
7	272m W	Electricity Substation	1950	258061
P	280m W	Electricity Substation	1971 - 1981	283599
D	306m SW	Electricity Substation	1971 - 1989	268866

ID	Location	Land use	Dates present	Group ID
E	320m E	Wharf Generating Station	1951	255082
E	327m NE	Electricity Generating Station	1987	282591
A	352m W	Electricity Substation	1971 - 1981	284355
Y	364m NE	Electricity Substation	1950	245556
AA	373m SE	Gas Works	1896 - 1953	276538
Y	374m NE	Electricity Substation	1950 - 1951	277615
AD	388m NW	Electricity Substation	1981 - 1998	278899
AD	388m NW	Electricity Substation	1971	257509
AH	422m NW	Electricity Substation	1970 - 1986	276829
AG	433m NE	Electricity Substation	1992 - 1994	260961
N	448m SE	Electricity Substation	1969	245531
13	450m N	Electricity Substation	1970 - 1996	264722
AJ	454m W	Electricity Substation	1971	255498
AG	458m NE	Electricity Substation	1969	245555
AJ	458m W	Electricity Substation	1991 - 1998	258861
AJ	459m W	Electricity Substation	1981 - 1991	289754
AG	459m NE	Electricity Substation	1951	286366
AG	461m NE	Electricity Substation	1951 - 1991	269699

This data is sourced from Ordnance Survey / Groundsure.

1.4 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, 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	5

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
H	98m NW	Garage	1994	75170
H	101m NW	Garage	1992 - 1993	84631
C	107m N	Garage	1990 - 1991	84083
15	473m NW	Garage	1962 - 1990	85504
AM	488m N	Garage	1916	73509

This data is sourced from Ordnance Survey / Groundsure.

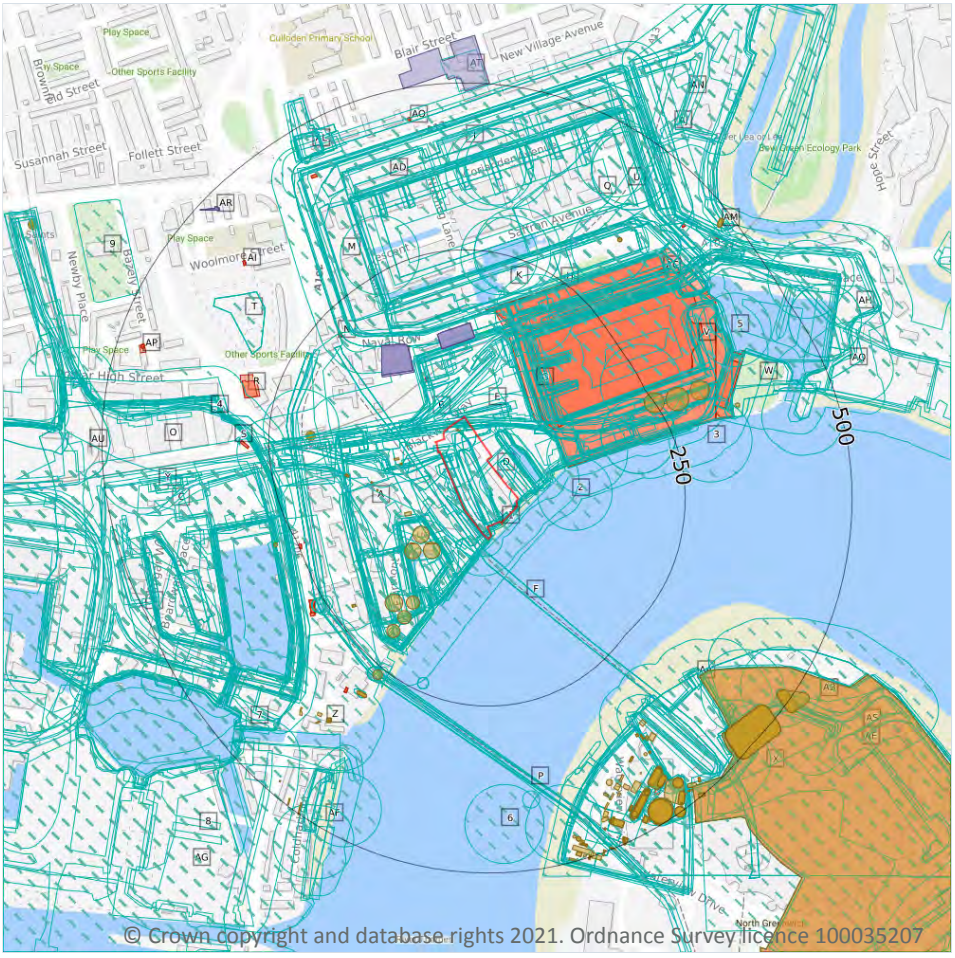
1.6 Historical military land

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	523

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 36**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Unspecified Wharf**	**1867**	**2240274**
A	**On site**	**Railway Sidings**	**1894**	**2198657**
A	**On site**	**Dock**	**1938**	**2192566**

ID	Location	Land Use	Date	Group ID
A	On site	Ship Building Yard	1867	2208035
A	On site	Unspecified Dock	1896	2273170
A	On site	Railway Sidings	1896	2198657
A	On site	Railway Sidings	1899	2198657
A	On site	Unspecified Dock	1899	2254770
A	On site	Goods Station	1899	2257974
A	On site	Railway Sidings	1899	2198657
A	On site	Unspecified Dock	1899	2254770
A	On site	Goods Station	1899	2257974
A	On site	Oil Depot	1973	2178387
A	On site	Dock	1894	2271999
A	On site	Oil Depot	1981	2178387
A	On site	Railway Sidings	1955	2283024
A	On site	Railway Sidings	1949	2198657
A	On site	Dock	1949	2192566
B	On site	Dock	1894	2175396
B	On site	Railway Sidings	1894	2198657
B	On site	Docks	1920	2199845
B	On site	Railway Depot	1898	2287840
B	On site	Railway Sidings	1898	2203219
B	On site	Railway Depot	1867	2217745
B	On site	Railway Sidings	1867	2225460
B	On site	Unspecified Commercial/Industrial	1896	2242234
B	On site	Railway Sidings	1899	2203152
B	On site	Railway Sidings	1899	2256950
B	On site	Goods Depot	1965	2158394
B	On site	Railway Sidings	1894	2198657
B	On site	Railway Sidings	1867	2250765

ID	Location	Land Use	Date	Group ID
B	**On site**	**Goods and Coal Yard**	**1955**	**2165386**
B	**On site**	**Railway Sidings**	**1949**	**2198657**
C	**On site**	**Railway Sidings**	**1894**	**2123463**
C	**On site**	**Railway Sidings**	**1938**	**2207465**
C	**On site**	**Railway Sidings**	**1920**	**2220132**
C	**On site**	**Railway Sidings**	**1894**	**2293765**
D	**On site**	**Unspecified Yard**	**1938**	**2265327**
D	**On site**	**Unspecified Yard**	**1894**	**2224641**
D	**On site**	**Ship Building Yard**	**1898**	**2181439**
D	**On site**	**Railway Sidings**	**1898**	**2186998**
D	**On site**	**Ship Building Yards**	**1867**	**2163214**
D	**On site**	**Unspecified Yard**	**1896**	**2268088**
D	**On site**	**Unspecified Yard**	**1899**	**2205701**
D	**On site**	**Unspecified Yard**	**1899**	**2205701**
D	**On site**	**Dock**	**1989**	**2266886**
D	**On site**	**Dock**	**1973**	**2266886**
D	**On site**	**Railway Sidings**	**1965**	**2198657**
D	**On site**	**Unspecified Yard**	**1920**	**2267913**
D	**On site**	**Unspecified Yard**	**1894**	**2232871**
D	**On site**	**Railway Building**	**1867**	**2149463**
D	**On site**	**Ship Building Yard**	**1867**	**2281136**
D	**On site**	**Dock**	**1981**	**2266886**
D	**On site**	**Docks**	**1955**	**2188660**
D	**On site**	**Unspecified Yard**	**1949**	**2267913**
D	**On site**	**Railway Sidings**	**1949**	**2280458**
E	**On site**	**Dock**	**1894**	**2179979**
B	0m N	Railway Sidings	1894	2198657
B	2m N	Railway Building	1867	2149464

ID	Location	Land Use	Date	Group ID
A	3m SW	Ship Building Yard	1867	2206621
F	13m SW	Tunnel	1989	2225947
F	13m SW	Tunnel	1973	2225947
F	13m SW	Tunnel	1994	2225947
F	13m SW	Tunnel	1981	2225947
B	16m NW	Railway Sidings	1920	2198657
D	21m NE	Graving Dock	1867	2255639
D	22m NE	Dock	1989	2280704
D	22m NE	Dock	1981	2280704
D	26m NE	Docks	1955	2266485
B	27m NW	Railway Sidings	1899	2199142
B	27m NW	Railway Sidings	1899	2175970
A	28m SW	Wharf	1898	2160621
A	28m SW	Ship Building Yard	1898	2287201
D	29m E	Dock	1994	2268546
2	29m E	Graving Dock	1867	2252972
A	29m SW	Railway Sidings	1898	2214081
D	30m NE	Graving Dock	1898	2262322
B	33m NW	Railway Sidings	1896	2292882
D	35m NE	Unspecified Yard	1894	2207059
B	35m NE	Unspecified Ground Workings	1949	2133804
A	37m SW	Unspecified Wharf	1867	2265228
A	39m SW	Dock	1894	2271902
A	46m NW	Railway Station	1896	2284464
A	49m SW	Graving Dock	1898	2241343
A	49m SW	Graving Docks	1867	2227489
A	58m SW	Graving Dock	1867	2246031
B	61m NW	Railway Depot	1867	2192698

ID	Location	Land Use	Date	Group ID
A	62m SW	Unspecified Tanks	1973	2197750
A	62m SW	Unspecified Tanks	1981	2197750
A	63m SW	Dock	1955	2278242
E	63m NE	Unspecified Wharf	1894	2224323
B	66m NW	Railway Building	1894	2149465
B	68m N	Railway Buildings	1949	2163692
A	71m W	Railway Station	1867	2262543
A	72m SW	Graving Dock	1867	2249576
A	74m SW	Graving Docks	1898	2204881
E	83m NE	Unspecified Commercial/Industrial	1955	2236065
E	88m NE	Electric Generating Station	1973	2202620
E	88m NE	Railway Sidings	1973	2200525
E	88m NE	Electric Generating Station	1981	2202620
E	88m NE	Dock	1938	2268649
E	90m NE	Unspecified Dock	1867	2265330
E	90m NE	Export Dock	1896	2128896
E	90m NE	Unspecified Wharf	1938	2248417
E	90m NE	Dock	1867	2290233
E	91m NE	Dock	1894	2268649
G	92m NE	Quay	1867	2139303
A	92m W	Unspecified Tanks	1898	2144039
A	95m SW	Goods Station	1949	2190554
A	95m SW	Graving Docks	1867	2227489
A	97m W	Railway Station	1949	2173384
H	97m NE	Unspecified Dock	1899	2182205
H	97m NE	Unspecified Dock	1899	2182205
A	102m W	Railway Station	1899	2205029
A	102m W	Railway Station	1899	2205029

ID	Location	Land Use	Date	Group ID
A	102m W	Railway Station	1920	2173384
E	102m NE	Dock	1898	2268649
G	103m NE	Unspecified Quay	1867	2166596
A	103m W	Railway Station	1938	2173384
A	104m SW	Goods Station	1938	2232112
A	104m SW	Goods Station	1920	2191809
A	104m SW	Goods Station	1894	2246470
A	105m SW	Goods Station	1894	2227319
A	107m W	Railway Station	1867	2262543
A	108m W	Railway Station	1894	2251024
A	108m W	Railway Station	1894	2197287
B	108m N	Pumping Station	1989	2171686
B	108m N	Pumping Station	1981	2171686
A	108m SW	Graving Docks	1867	2280982
A	109m SW	Goods Station	1896	2227319
A	110m W	Railway Station	1894	2251024
E	111m NE	Dock	1949	2276576
E	112m NE	Quay	1867	2189448
A	113m SW	Goods Station	1894	2227319
E	114m NE	Unspecified Wharf	1896	2186554
E	116m NE	Unspecified Wharf	1894	2186554
E	117m NE	Quay	1938	2255392
J	117m N	Dock	1965	2291706
J	117m N	Dock	1955	2291706
J	117m N	Dock	1949	2291706
J	118m N	Dock	1894	2265568
E	119m NE	Unspecified Wharf	1867	2193110
E	120m NE	Unspecified Wharf	1899	2186554

ID	Location	Land Use	Date	Group ID
E	120m NE	Unspecified Wharf	1899	2186554
E	122m NE	Quay	1949	2244953
E	122m NE	Unspecified Wharf	1949	2269571
E	122m NE	Quay	1920	2215688
B	127m NE	Railway Station	1994	2152687
E	131m E	Unspecified Quay	1867	2166601
J	135m N	Dock	1867	2191311
J	137m N	Dock	1898	2204775
A	137m SW	Unspecified Tanks	1973	2272806
A	137m SW	Unspecified Tanks	1981	2272806
J	139m N	Dock	1938	2267818
K	139m N	Quay	1938	2228825
J	140m N	Dock	1894	2175787
A	146m W	Railway Station	1994	2203593
E	147m NE	Unspecified Wharf	1989	2279861
E	147m NE	Unspecified Wharf	1994	2279861
K	148m N	Transit Shed	1920	2225038
L	149m W	Railway Sidings	1894	2172693
L	149m W	Dock Station	1894	2274659
A	149m W	Railway Building	1949	2149461
C	150m W	Dock	1894	2263043
A	150m W	Railway Building	1949	2149460
B	152m N	Unspecified Warehouse	1973	2267525
E	153m NE	Quay	1938	2248701
B	154m N	Unspecified Warehouses	1965	2231496
B	154m N	Unspecified Warehouses	1955	2231496
K	154m N	Unspecified Warehouse	1938	2198569
K	154m N	Transit Shed	1938	2268745

ID	Location	Land Use	Date	Group ID
K	155m N	Transit Shed	1949	2206049
A	156m W	Railway Sidings	1898	2171468
E	157m NE	Quay	1920	2182498
M	160m NW	Quay	1938	2265751
E	162m NE	Railway Station	1894	2258941
A	164m W	Railway Building	1949	2149462
E	164m NE	Quay	1949	2182498
E	165m NE	Railway Station	1896	2258941
J	167m NW	Import Dock	1896	2146419
E	167m NE	Railway Station	1894	2180678
E	170m NE	Unspecified Wharf	1965	2271453
E	175m NE	Railway Station	1899	2258941
E	175m NE	Railway Station	1899	2258941
E	175m NE	Unspecified Warehouse	1938	2247227
E	176m NE	Unspecified Warehouse	1920	2247227
A	180m SW	Wharf	1898	2160628
E	187m NE	Railway Buildings	1894	2280149
E	187m NE	Quay	1920	2191717
A	188m SW	Unspecified Wharf	1867	2244842
K	188m N	Quay	1955	2172721
A	191m SW	Unspecified Tank	1973	2253136
A	191m SW	Unspecified Tank	1981	2253136
A	192m W	Railway Station	1949	2229875
M	194m NW	Quay	1920	2210217
M	195m NW	Transit Shed	1920	2174554
M	195m NW	Unspecified Warehouse	1920	2252801
K	196m N	Quay	1973	2192650
K	197m N	Quay	1920	2249843

ID	Location	Land Use	Date	Group ID
B	197m NW	Quay	1949	2189760
K	197m N	Quay	1949	2254185
M	199m NW	Quay	1949	2182695
E	200m NE	Quay	1867	2237724
M	200m NW	Transit Shed	1938	2225541
A	200m W	Tunnel	1949	2293546
A	201m SW	Unspecified Wharf	1867	2244842
A	201m W	Railway Building	1965	2149459
E	201m NE	Wharf	1898	2160619
J	202m NW	Railway Sidings	1955	2177340
E	203m NE	Railway Station	1894	2180678
A	204m W	Unspecified Tank	1898	2155137
A	205m W	Tunnel	1920	2210274
E	205m NE	Unspecified Wharf	1894	2232500
E	206m NE	Unspecified Wharf	1867	2260782
C	207m W	Dock	1894	2212151
E	207m NE	Railway Buildings	1949	2279737
E	207m NE	Unspecified Quay	1867	2166595
E	209m NE	Unspecified Wharf	1920	2184386
A	209m W	Tunnel	1989	2250914
A	209m W	Tunnel	1973	2250914
A	209m W	Tunnel	1965	2250914
A	209m W	Tunnel	1994	2250914
A	209m W	Tunnel	1981	2250914
A	209m W	Tunnel	1955	2250914
E	210m NE	Railway Station	1938	2201122
E	212m NE	Railway Station	1920	2201122
M	214m NW	Quay	1955	2294915

ID	Location	Land Use	Date	Group ID
E	218m NE	Railway Station	1949	2262171
E	224m NE	Unspecified Warehouse	1949	2247227
A	228m SW	Unspecified Wharf	1989	2197110
A	228m SW	Unspecified Wharf	1973	2227671
A	228m SW	Unspecified Wharf	1994	2197110
C	228m W	Docks	1955	2221010
E	234m NE	Unspecified Tanks	1973	2193676
E	234m NE	Unspecified Tanks	1981	2193676
3	239m E	Unspecified Wharf	1955	2235635
A	240m SW	Unspecified Wharf	1981	2157268
A	240m SW	Unspecified Tank	1949	2223063
C	240m W	Railway Sidings	1949	2279320
C	242m W	Dock	1898	2268162
C	245m W	Docks	1920	2208137
A	245m SW	Unspecified Tank	1938	2188836
L	245m W	Docks	1938	2206300
A	247m SW	Unspecified Tank	1949	2248615
C	248m W	Railway Sidings	1899	2258878
C	248m W	Unspecified Dock	1899	2252195
C	248m W	Railway Sidings	1899	2258878
C	248m W	Unspecified Dock	1899	2252195
A	249m SW	Unspecified Tank	1920	2223063
C	249m W	Unspecified Docks	1896	2244891
C	249m W	Railway Sidings	1896	2172693
A	250m SW	Unspecified Tank	1989	2290702
A	250m SW	Unspecified Tank	1973	2290702
A	250m SW	Unspecified Tank	1965	2290702
A	250m SW	Unspecified Tank	1994	2290702

ID	Location	Land Use	Date	Group ID
A	250m SW	Unspecified Tank	1981	2290702
A	250m SW	Unspecified Tank	1955	2290702
C	250m W	Railway Sidings	1973	2216348
C	250m W	Railway Sidings	1965	2253307
C	250m W	Unspecified Commercial/Industrial	1965	2291834
C	250m W	Railway Sidings	1955	2183339
C	250m W	Unspecified Commercial/Industrial	1955	2291834
O	251m W	Railway Sidings	1981	2211725
A	251m SW	Unspecified Tank	1938	2267972
L	251m W	Dock	1894	2271994
C	252m W	Unspecified Dock	1867	2168920
C	253m W	Railway Sidings	1898	2226904
C	253m W	Railway Sidings	1898	2258878
C	253m W	Unspecified Docks	1898	2244891
C	253m W	Railway Sidings	1867	2197495
C	254m W	Docks	1949	2221010
C	254m W	Railway Sidings	1894	2238105
A	254m SW	Unspecified Tank	1989	2208963
A	254m SW	Unspecified Tank	1973	2208963
A	254m SW	Unspecified Tank	1965	2208963
A	254m SW	Unspecified Tank	1994	2208963
A	254m SW	Unspecified Tank	1981	2208963
A	254m SW	Unspecified Tank	1955	2208963
P	254m SW	Tunnel	1938	2178588
E	254m NE	Unspecified Warehouses	1965	2203020
E	254m NE	Unspecified Warehouses	1955	2203020
A	255m SW	Unspecified Tank	1920	2248615
C	258m SW	Dock	1994	2288149

ID	Location	Land Use	Date	Group ID
O	258m W	Unspecified Commercial/Industrial	1898	2295272
Q	259m N	Dock	1981	2205824
Q	261m NE	Dock	1989	2203276
C	262m W	Railway Sidings	1867	2240832
E	267m NE	Unspecified Warehouse	1920	2247228
C	267m W	Docks	1894	2237025
C	270m W	Dock	1973	2288149
C	271m W	Dock	1867	2288149
C	274m W	Dock	1989	2288149
C	274m W	Dock	1981	2288149
E	278m NE	Unspecified Warehouse	1949	2264234
P	289m SE	Dry Dock	1920	2188084
S	293m W	Railway Building	1894	2149466
A	295m SW	Unspecified Tanks	1965	2281166
A	295m SW	Unspecified Tanks	1955	2281166
T	298m NW	Unspecified Heaps	1989	2228601
T	298m NW	Unspecified Heaps	1994	2228601
T	298m NW	Unspecified Heaps	1981	2228601
U	298m NE	Tunnel	1994	2151554
J	311m N	Quay	1955	2219078
P	315m SE	Dry Dock	1949	2178881
J	318m N	Quay	1920	2273895
C	320m W	Railway Building	1973	2149455
J	320m N	Quay	1973	2264982
J	321m N	Unspecified Quay	1867	2166594
J	323m N	Quay	1867	2278501
4	329m W	Railway Building	1894	2149468
P	332m SE	Ship Building Yard	1894	2210707

ID	Location	Land Use	Date	Group ID
P	332m SE	Dry Dock	1894	2208992
P	335m SE	Shipbuilding Yard	1896	2204773
E	336m NE	Unspecified Wharf	1867	2259207
V	337m NE	Quay	1867	2197148
P	337m SE	Shipbuilding Yard	1899	2279364
P	337m SE	Shipbuilding Yard	1899	2279364
P	338m SE	Dock	1894	2146531
P	339m SE	Shipbuilding Yard	1894	2188392
P	339m SE	Unspecified Commercial/Industrial	1938	2176810
V	341m NE	Unspecified Quay	1867	2166599
P	342m SE	Dry Dock	1896	2272872
P	343m SE	Dry Dock	1894	2229499
P	343m SE	Dry Dock	1899	2272872
P	343m SE	Dry Dock	1899	2272872
P	344m SE	Dry Dock	1938	2178881
E	344m E	Wharf	1898	2160620
W	344m E	Dock	1898	2205825
X	344m SE	Gas Works	1973	2202339
X	344m SE	Railway Sidings	1965	2291400
X	344m SE	Unspecified Commercial/Industrial	1965	2285136
X	344m SE	Unspecified Commercial/Industrial	1955	2285136
X	344m SE	Railway Sidings	1955	2291400
P	344m SE	Unspecified Commercial/Industrial	1920	2176810
P	352m SE	Unspecified Commercial/Industrial	1894	2239830
E	353m NE	Unspecified Tank	1894	2155131
Y	353m W	Railway Building	1949	2149458
P	354m SE	Ship Building Yard	1894	2210707
5	355m NE	Quay	1994	2291732

ID	Location	Land Use	Date	Group ID
J	357m N	Quay	1938	2280045
AA	357m SE	Unspecified Wharf	1949	2194042
P	358m SE	Unspecified Commercial/Industrial	1899	2176810
P	358m SE	Unspecified Commercial/Industrial	1899	2176810
P	358m SE	Unspecified Wharf	1896	2179110
AB	358m SE	Unspecified Wharf	1994	2183109
J	359m N	Quay	1949	2218523
P	359m SE	Unspecified Wharf	1894	2240655
P	360m SE	Unspecified Wharf	1949	2219797
AA	360m SE	Unspecified Wharf	1938	2194042
J	362m N	Quay	1898	2286399
AA	362m SE	Unspecified Wharf	1920	2281439
Y	363m W	Unspecified Depot	1965	2221839
AD	364m N	Transit Shed	1920	2212947
P	364m SE	Unspecified Wharf	1981	2201110
P	365m SE	Unspecified Wharf	1920	2279658
O	368m W	Railway Sidings	1898	2206838
6	368m S	Unspecified Wharf	1894	2174549
AE	368m SE	Railway Sidings	1894	2169118
AD	369m N	Transit Shed	1949	2170233
AD	370m N	Transit Shed	1938	2212947
C	370m W	Railway Building	1973	2149456
AF	371m SW	Unspecified Wharf	1994	2260125
AE	373m SE	Gas Works	1896	2212561
AA	374m SE	Unspecified Wharf	1955	2185956
AE	375m SE	Gas Works	1899	2169157
AE	375m SE	Gas Works	1899	2169155
J	377m N	Transit Shed	1920	2266217

ID	Location	Land Use	Date	Group ID
J	378m N	Transit Shed	1938	2266217
AE	379m SE	Unspecified Commercial/Industrial	1938	2226545
W	380m NE	Basin	1896	2164527
E	380m NE	Quay	1981	2222402
AF	381m SW	Dock	1920	2240323
J	381m N	Transit Shed	1949	2245402
P	382m S	Unspecified Wharf	1938	2241678
P	382m S	Unspecified Wharf	1894	2174549
Y	384m W	Unspecified Depot	1973	2208279
Y	384m W	Unspecified Depot	1981	2208279
AG	384m SW	Dock	1894	2288150
W	385m NE	Dock Basin	1899	2195690
W	385m NE	Dock Basin	1899	2195690
W	385m NE	Dock Basin	1989	2183577
W	385m NE	Dock Basin	1981	2183577
E	385m NE	Quay	1949	2235875
J	386m NW	Railway Sidings	1973	2181017
J	386m NW	Railway Sidings	1965	2260980
U	387m NE	Quay	1973	2260093
U	387m NE	Quay	1981	2260093
W	387m NE	Dock Basin	1867	2223724
AH	388m NE	Dock Basin	1994	2278692
U	390m NE	Quay	1989	2260093
AF	391m SW	Unspecified Wharf	1955	2199705
AJ	392m N	Railway Sidings	1981	2228451
U	393m NE	Quay	1955	2177262
C	401m SW	Railway Building	1949	2149454
AF	403m SW	Unspecified Wharf	1989	2234683

ID	Location	Land Use	Date	Group ID
P	408m S	Unspecified Wharf	1899	2265890
P	408m S	Unspecified Wharf	1899	2265890
AG	413m SW	Dock	1867	2288150
AA	413m SE	Unspecified Wharf	1973	2241234
L	413m SW	Quay	1938	2244218
E	416m NE	Unspecified Wharf	1867	2235958
AF	417m SW	Unspecified Wharf	1894	2282492
AB	418m SE	Unspecified Wharf	1989	2240497
AK	419m NE	Dock Basin	1894	2231494
P	419m SE	Unspecified Tanks	1894	2280501
U	420m NE	Quay	1938	2188764
AH	420m NE	Dock Basin	1973	2262343
AA	421m SE	Unspecified Pit	1894	2170727
P	421m SE	Unspecified Tanks	1894	2169384
AF	421m SW	Unspecified Wharf	1899	2187414
AF	421m SW	Unspecified Wharf	1899	2187414
P	421m SE	Unspecified Tanks	1955	2242765
7	421m SW	Dock	1898	2182010
U	422m NE	Unspecified Quay	1867	2166597
AK	422m NE	Quay	1955	2178386
AF	423m SW	Unspecified Wharf	1894	2263868
AF	423m SW	Unspecified Wharf	1896	2263868
P	424m SE	Unspecified Tanks	1949	2184126
O	425m W	Railway Buildings	1867	2163573
P	426m SE	Unspecified Tanks	1899	2169384
P	426m SE	Unspecified Tanks	1899	2169384
P	426m SE	Unspecified Tanks	1896	2169384
P	426m SE	Unspecified Tanks	1894	2169384

ID	Location	Land Use	Date	Group ID
P	427m SE	Unspecified Tanks	1965	2242765
P	427m S	Ordnance Works	1898	2165181
U	428m NE	Quay	1949	2236025
P	428m SE	Unspecified Tanks	1938	2184126
P	429m SE	Unspecified Tanks	1973	2288398
O	430m W	Railway Building	1894	2149467
U	430m NE	Quay	1920	2210876
AA	431m SE	Unspecified Ground Workings	1896	2251894
P	431m SE	Unspecified Tanks	1920	2232826
AA	434m SE	Unspecified Ground Workings	1899	2251894
AA	434m SE	Unspecified Ground Workings	1899	2251894
AA	435m SE	Unspecified Pit	1894	2174588
AJ	437m N	Transit Shed	1938	2213675
P	438m SE	Unspecified Tanks	1894	2169384
AL	438m NW	Hospital	1920	2222205
AJ	439m N	Transit Shed	1920	2184040
P	441m SE	Unspecified Tanks	1965	2211990
P	441m SE	Unspecified Tanks	1955	2211990
P	442m SE	Unspecified Tanks	1899	2169384
P	442m SE	Unspecified Tanks	1899	2169384
P	443m SE	Unspecified Tanks	1896	2169384
P	443m SE	Unspecified Tanks	1894	2169384
AL	444m NW	Hospital	1938	2287965
AJ	445m N	Transit Shed	1949	2184040
AL	445m NW	Hospital	1949	2287965
AL	445m NW	Hospital	1973	2284023
AL	445m NW	Hospital	1965	2284023
AL	445m NW	Hospital	1955	2284023

ID	Location	Land Use	Date	Group ID
AL	446m NW	Hospital	1898	2260634
AN	446m NE	Unspecified Wharf	1896	2252953
AK	447m NE	Quay	1938	2188764
AN	448m NE	Unspecified Wharf	1894	2237624
L	448m SW	Basin	1899	2204588
L	448m SW	Basin	1899	2204588
AL	449m NW	Hospital	1894	2192245
AL	449m NW	Hospital	1894	2209836
L	450m SW	Docks	1965	2185832
AL	451m NW	Hospital	1894	2192245
AL	451m NW	Hospital	1894	2192245
P	451m SE	Unspecified Tanks	1965	2171721
P	451m SE	Unspecified Tanks	1955	2201083
AL	452m NW	Hospital	1899	2260634
AL	452m NW	Hospital	1899	2260634
L	452m SW	Basin	1896	2230081
L	453m SW	Basin	1898	2293464
AG	453m SW	Dock	1898	2288150
AN	453m NE	Unspecified Wharf	1899	2275800
AN	453m NE	Unspecified Wharf	1899	2275800
AA	453m SE	Unspecified Tanks	1973	2278629
AA	453m SE	Unspecified Tanks	1965	2278629
AA	453m SE	Unspecified Tanks	1955	2278629
AA	454m SE	Unspecified Pit	1894	2170727
C	455m W	Goods Shed	1949	2212466
L	456m SW	Dock Basin	1867	2151239
P	456m SE	Unspecified Tanks	1920	2185981
P	458m SE	Unspecified Tank	1894	2276408

ID	Location	Land Use	Date	Group ID
AA	458m SE	Unspecified Tanks	1949	2210894
C	462m W	Goods Sheds	1920	2166527
8	462m SW	Unspecified Dock	1867	2259360
P	462m SE	Unspecified Tank	1894	2205904
C	463m W	Goods Shed	1938	2212466
AA	464m SE	Unspecified Tanks	1938	2210894
P	465m SE	Unspecified Tank	1899	2193408
P	465m SE	Unspecified Tank	1899	2193408
P	465m S	Unspecified Tank	1965	2155134
AF	465m SW	Unspecified Wharf	1894	2234683
P	468m SE	Unspecified Tank	1894	2205904
AQ	469m NE	Unspecified Wharf	1989	2222012
AA	470m SE	Unspecified Pit	1894	2125455
AN	471m NE	Railway Sidings	1894	2183217
AK	471m NE	Dock	1955	2283202
AK	471m NE	Dock	1949	2283202
AA	473m SE	Unspecified Ground Workings	1894	2269541
L	475m SW	Quay	1949	2227985
AN	476m NE	Railway Sidings	1896	2272461
AH	477m NE	Quay	1973	2282612
AH	477m NE	Quay	1994	2282612
AB	477m SE	Gasometers	1973	2138392
AB	477m SE	Unspecified Tanks	1965	2264248
AB	477m SE	Unspecified Tanks	1955	2264248
AN	478m NE	Railway Sidings	1894	2286219
AA	479m SE	Unspecified Ground Workings	1894	2237569
AK	480m NE	Quay	1920	2255408
AS	482m SE	Railway Sidings	1894	2194243

ID	Location	Land Use	Date	Group ID
AK	483m NE	Quay	1949	2198607
AN	485m NE	Railway Sidings	1899	2275496
AN	485m NE	Railway Sidings	1899	2275496
AT	487m N	Unspecified Depot	1965	2147249
AU	487m W	Railway Sidings	1989	2204374
AU	487m W	Railway Sidings	1994	2204374
AF	489m SW	Unspecified Wharf	1938	2188323
AQ	490m E	Unspecified Commercial/Industrial	1955	2184344
AN	491m NE	Unspecified Commercial/Industrial	1949	2201134
AQ	496m E	Unspecified Commercial/Industrial	1898	2251512
AS	497m SE	Railway Sidings	1896	2223423
9	498m NW	Grave Yard	1898	2202045
AN	499m NE	Unspecified Commercial/Industrial	1867	2181784
AS	499m SE	Railway Sidings	1899	2169121
AS	499m SE	Railway Sidings	1899	2169122
AN	500m NE	Unspecified Commercial/Industrial	1938	2205589

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**181**

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 36**

ID	Location	Land Use	Date	Group ID
D	**On site**	**Unspecified Tank**	**1916**	**366885**
A	57m W	Unspecified Tank	1951	385127
A	57m W	Unspecified Tank	1950	404755
A	59m W	Unspecified Tank	1950	366883

ID	Location	Land Use	Date	Group ID
A	62m SW	Unspecified Tank	1969	366886
A	63m SW	Unspecified Tank	1969	404841
A	64m SW	Unspecified Tank	1969	404841
A	75m SW	Unspecified Tank	1969	366884
A	87m SW	Unspecified Tank	1969	410269
A	89m SW	Unspecified Tank	1969	410269
A	106m SW	Tanks	1981	396762
A	106m SW	Tanks	1971	382628
A	108m SW	Tanks	1981	390705
A	108m SW	Tanks	1971	388330
A	137m SW	Unspecified Tank	1969	366887
A	138m W	Unspecified Tank	1950	410440
A	138m W	Unspecified Tank	1950	410440
A	155m SW	Unspecified Tank	1969	366879
A	161m SW	Unspecified Tank	1969	366882
A	188m SW	Unspecified Tank	1969	366880
A	216m SW	Unspecified Tank	1961	406177
A	216m SW	Unspecified Tank	1950	406177
A	216m SW	Unspecified Tank	1950	406177
E	235m NE	Unspecified Tank	1969	366890
A	255m SW	Unspecified Tank	1950	366881
E	264m NE	Unspecified Tank	1969	366891
C	277m SW	Unspecified Tank	1896	366869
A	296m SW	Tanks	1961	389494
A	296m SW	Tanks	1950	389494
A	296m SW	Tanks	1950	389494
E	302m NE	Unspecified Tank	1969	366892
E	350m NE	Unspecified Tank	1994	406280

ID	Location	Land Use	Date	Group ID
E	350m NE	Unspecified Tank	1993	406280
E	354m NE	Unspecified Tank	1951	366893
P	355m SE	Unspecified Tank	1969	366889
Z	357m SW	Unspecified Tank	1985	409146
Z	357m SW	Unspecified Tank	1989	409146
Z	357m SW	Unspecified Tank	1989	409146
Z	357m SW	Unspecified Tank	1991	409146
Z	357m SW	Unspecified Tank	1991	409146
Z	357m SW	Unspecified Tank	1991	409146
Z	357m SW	Unspecified Tank	1971	409146
Z	360m SW	Unspecified Tank	1998	384786
Z	361m SW	Tanks	1950	376671
P	366m SE	Unspecified Tank	1969	384820
P	366m SE	Unspecified Tank	1950	384820
Z	371m SW	Tanks	1950	376670
P	372m SE	Tanks	1950	376736
P	372m SE	Unspecified Tank	1969	405890
P	372m SE	Unspecified Tank	1950	405890
AE	373m SE	Gas Works	1896	408160
Z	375m SW	Tanks	1950	376672
P	378m SE	Tanks	1950	376735
P	379m SE	Tanks	1969	376737
P	390m SE	Unspecified Tank	1969	384063
P	390m SE	Unspecified Tank	1950	384063
P	390m SE	Unspecified Tank	1950	384063
P	396m SE	Cooling Tank	1969	374246
P	399m SE	Unspecified Tank	1969	406641
P	399m SE	Unspecified Tank	1950	406641

ID	Location	Land Use	Date	Group ID
P	399m SE	Unspecified Tank	1961	406641
P	399m SE	Unspecified Tank	1950	406641
P	402m SE	Unspecified Tank	1896	366860
P	406m SE	Unspecified Tank	1950	366863
P	413m SE	Tanks	1950	376658
P	417m SE	Unspecified Tank	1896	366849
P	418m SE	Tanks	1969	376660
P	419m SE	Tanks	1969	376733
P	423m SE	Tanks	1969	376734
P	424m SE	Unspecified Tank	1950	366861
P	424m SE	Tanks	1896	411446
P	425m SE	Tanks	1969	392720
P	425m SE	Tanks	1950	392720
P	425m SE	Tanks	1961	392720
P	425m SE	Tanks	1950	392720
P	426m SE	Unspecified Tanks	1896	379233
P	427m SE	Unspecified Tank	1969	366862
P	433m SE	Unspecified Tank	1950	366859
P	439m SE	Tanks	1961	393053
P	439m SE	Tanks	1969	393053
P	439m SE	Tanks	1950	393053
P	439m SE	Tanks	1950	393053
P	441m SE	Tanks	1896	394594
P	443m SE	Tanks	1950	403955
P	443m SE	Tanks	1969	383910
P	443m SE	Unspecified Tanks	1896	379232
P	445m SE	Unspecified Tank	1961	403044
P	445m SE	Unspecified Tank	1950	403044

ID	Location	Land Use	Date	Group ID
P	445m SE	Unspecified Tank	1950	403044
P	448m SE	Tanks	1961	394594
P	448m SE	Tanks	1950	394594
P	448m SE	Tanks	1950	394594
P	451m SE	Tanks	1969	389542
P	451m SE	Tanks	1969	403955
P	452m SE	Unspecified Tank	1950	387759
P	452m SE	Unspecified Tank	1969	387759
P	452m SE	Unspecified Tank	1950	387759
P	455m SE	Unspecified Tank	1961	392770
P	455m SE	Unspecified Tank	1950	392770
P	455m SE	Unspecified Tank	1950	392770
P	456m SE	Tanks	1950	386706
P	456m SE	Tanks	1969	392115
P	456m SE	Tanks	1950	392115
P	457m SE	Tanks	1950	376659
P	457m SE	Unspecified Tank	1969	397227
P	457m SE	Unspecified Tank	1950	397227
AA	458m SE	Tanks	1969	404297
AA	458m SE	Tanks	1950	404297
AA	458m SE	Tanks	1961	404297
AA	458m SE	Tanks	1951	404297
P	459m SE	Tanks	1950	409719
P	462m S	Unspecified Tank	1969	366858
P	462m SE	Unspecified Tank	1896	366852
P	463m SE	Unspecified Tank	1896	392653
P	464m SE	Unspecified Tank	1969	392653
P	464m SE	Unspecified Tank	1950	392653

ID	Location	Land Use	Date	Group ID
P	465m SE	Unspecified Tank	1961	393645
P	465m SE	Unspecified Tank	1950	393645
P	465m S	Tanks	1950	383099
P	465m S	Tanks	1950	394462
P	466m S	Unspecified Tank	1961	399363
P	466m S	Unspecified Tank	1950	395418
P	467m S	Unspecified Tank	1950	389033
P	472m S	Tanks	1950	404013
P	473m SE	Tanks	1969	376738
AM	474m NE	Tanks	1969	389187
AM	475m NE	Tanks	1987	389187
P	475m S	Tanks	1950	386638
P	475m SE	Tanks	1961	385551
P	475m SE	Tanks	1950	385551
P	475m SE	Tanks	1950	385016
P	476m S	Tanks	1950	403551
P	476m SE	Tanks	1950	388390
P	476m SE	Tanks	1969	402864
P	476m SE	Tanks	1950	402864
P	476m S	Tanks	1961	397245
P	476m SE	Tanks	1969	393819
P	476m SE	Tanks	1950	388390
P	476m SE	Tanks	1961	402864
P	476m SE	Tanks	1950	402864
P	476m S	Tanks	1950	397245
AF	477m SW	Unspecified Tank	1971	366864
P	479m S	Tanks	1950	402381
P	480m S	Tanks	1950	402381

ID	Location	Land Use	Date	Group ID
AB	480m SE	Tanks	1961	410458
AB	480m SE	Tanks	1951	410458
AB	480m SE	Tanks	1950	389146
P	480m SE	Unspecified Tank	1969	366847
P	483m SE	Unspecified Tank	1896	366846
P	483m SE	Unspecified Tank	1896	366851
AF	484m SW	Tanks	1971	376673
P	486m S	Tanks	1950	399529
P	487m S	Tanks	1950	399529
AF	489m SW	Tanks	1971	376675
P	489m SE	Unspecified Tank	1896	366845
P	489m SE	Tanks	1969	390225
P	489m SE	Tanks	1950	390225
P	490m SE	Unspecified Tank	1961	366855
P	490m SE	Tanks	1950	390225
P	491m SE	Unspecified Tank	1961	382640
P	491m SE	Unspecified Tank	1950	382640
P	492m SE	Unspecified Tank	1969	382640
P	492m SE	Unspecified Tank	1950	382640
P	492m SE	Tanks	1961	387926
P	492m SE	Tanks	1950	376732
P	492m S	Unspecified Tank	1969	366857
P	493m S	Tanks	1950	376661
P	493m SE	Unspecified Tank	1950	366850
P	493m SE	Tanks	1961	410253
P	494m SE	Tanks	1950	409842
P	495m SE	Tanks	1969	388786
P	495m SE	Tanks	1950	388786

ID	Location	Land Use	Date	Group ID
P	495m S	Tanks	1969	376667
P	496m S	Tanks	1950	376662
P	496m SE	Unspecified Tank	1961	366853
P	496m S	Tanks	1950	376663
P	497m S	Tanks	1950	386394
P	497m S	Tanks	1961	381654
P	498m S	Tanks	1950	381654
P	498m SE	Unspecified Tank	1961	366854
P	500m S	Tanks	1950	376664

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**105**

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 36**

ID	Location	Land Use	Date	Group ID
B	73m NW	Electricity Substation	1969	279512
B	74m NW	Electricity Substation	1990	279512
B	74m NW	Electricity Substation	1991	279512
E	84m NE	Electricity Generating Station	1969	272129
E	87m NE	Wharf Generating Station	1951	263542
E	95m NE	Wharf Generating Station	1950	268346
E	109m NE	Wharf Generating Station	1950	268346
A	194m SW	Electricity Substation	1971	276718
A	194m SW	Electricity Substation	1998	255856
A	195m SW	Electricity Substation	1985	289929
A	195m SW	Electricity Substation	1989	289929

ID	Location	Land Use	Date	Group ID
A	195m SW	Electricity Substation	1989	289929
A	195m SW	Electricity Substation	1991	289929
A	195m SW	Electricity Substation	1991	289929
A	195m SW	Electricity Substation	1991	289929
N	209m NW	Electricity Substation	1971	292375
N	209m NW	Electricity Substation	1981	292375
N	209m NW	Electricity Substation	1990	292375
N	209m NW	Electricity Substation	1991	292375
N	209m NW	Electricity Substation	1991	292375
N	210m NW	Electricity Substation	1991	292375
N	210m NW	Electricity Substation	1991	292375
C	235m SW	Electricity Substation	1991	257391
C	236m SW	Electricity Substation	1994	257391
C	236m SW	Electricity Substation	1993	257391
C	236m SW	Electricity Substation	1992	257391
C	236m SW	Electricity Substation	1992	257391
C	236m SW	Electricity Substation	1998	257391
C	245m SW	Electricity Substation	1985	258274
C	246m SW	Electricity Substation	1971	258274
A	259m SW	Electricity Substation	1985	292596
A	259m SW	Electricity Substation	1989	292596
A	259m SW	Electricity Substation	1989	292596
A	259m SW	Electricity Substation	1991	292596
A	259m SW	Electricity Substation	1991	292596
A	259m SW	Electricity Substation	1991	292596
A	259m SW	Electricity Substation	1971	292596
A	272m SW	Electricity Substation	1950	281285
A	272m SW	Electricity Substation	1950	281285

ID	Location	Land Use	Date	Group ID
R	272m W	Electricity Substation	1950	258061
R	276m W	Electricity Substation	1950	258061
S	280m W	Electricity Substation	1971	283599
S	280m W	Electricity Substation	1981	283599
A	306m SW	Electricity Substation	1971	268866
A	307m SW	Electricity Substation	1985	268866
A	307m SW	Electricity Substation	1989	268866
A	307m SW	Electricity Substation	1989	268866
E	318m E	Wharf Generating Station	1951	263542
E	320m E	Wharf Generating Station	1951	255082
E	327m NE	Electricity Generating Station	1987	282591
E	327m NE	Electricity Generating Station	1969	272129
C	352m W	Electricity Substation	1971	284355
C	352m W	Electricity Substation	1981	284355
AC	364m NE	Electricity Substation	1950	245556
AE	373m SE	Gas Works	1896	276538
AC	374m NE	Electricity Substation	1951	277615
AC	374m NE	Electricity Substation	1950	277615
AI	388m NW	Electricity Substation	1994	278899
AI	388m NW	Electricity Substation	1993	278899
AI	388m NW	Electricity Substation	1992	278899
AI	388m NW	Electricity Substation	1992	278899
AI	388m NW	Electricity Substation	1998	278899
AI	388m NW	Electricity Substation	1991	278899
AI	388m NW	Electricity Substation	1991	278899
AI	388m NW	Electricity Substation	1992	278899
AI	388m NW	Electricity Substation	1971	257509
AI	389m NW	Electricity Substation	1981	278899

ID	Location	Land Use	Date	Group ID
AI	389m NW	Electricity Substation	1990	278899
AI	389m NW	Electricity Substation	1991	278899
AI	389m NW	Electricity Substation	1991	278899
AI	389m NW	Electricity Substation	1991	278899
AL	422m NW	Electricity Substation	1970	276829
AL	422m NW	Electricity Substation	1986	276829
AM	433m NE	Electricity Substation	1994	260961
AM	433m NE	Electricity Substation	1993	260961
AM	433m NE	Electricity Substation	1992	260961
AM	433m NE	Electricity Substation	1992	260961
P	448m SE	Electricity Substation	1969	245531
AO	450m N	Electricity Substation	1996	264722
AO	450m N	Electricity Substation	1993	264722
AO	450m N	Electricity Substation	1990	264722
AO	450m N	Electricity Substation	1991	264722
AO	450m N	Electricity Substation	1992	264722
AO	451m N	Electricity Substation	1970	264722
AP	454m W	Electricity Substation	1971	255498
AM	458m NE	Electricity Substation	1969	245555
AP	458m W	Electricity Substation	1994	258861
AP	458m W	Electricity Substation	1993	258861
AP	458m W	Electricity Substation	1992	258861
AP	458m W	Electricity Substation	1992	258861
AP	458m W	Electricity Substation	1998	258861
AP	458m W	Electricity Substation	1991	258861
AP	458m W	Electricity Substation	1991	258861
AP	458m W	Electricity Substation	1992	258861
AP	459m W	Electricity Substation	1981	289754

ID	Location	Land Use	Date	Group ID
AP	459m W	Electricity Substation	1990	289754
AP	459m W	Electricity Substation	1991	289754
AP	459m W	Electricity Substation	1991	289754
AP	459m W	Electricity Substation	1991	289754
AM	459m NE	Electricity Substation	1951	286366
AM	461m NE	Electricity Substation	1969	269699
AM	461m NE	Electricity Substation	1951	269699
AM	461m NE	Electricity Substation	1951	269699
AM	462m NE	Electricity Substation	1987	269699
AM	462m NE	Electricity Substation	1991	269699

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	**13**

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'.

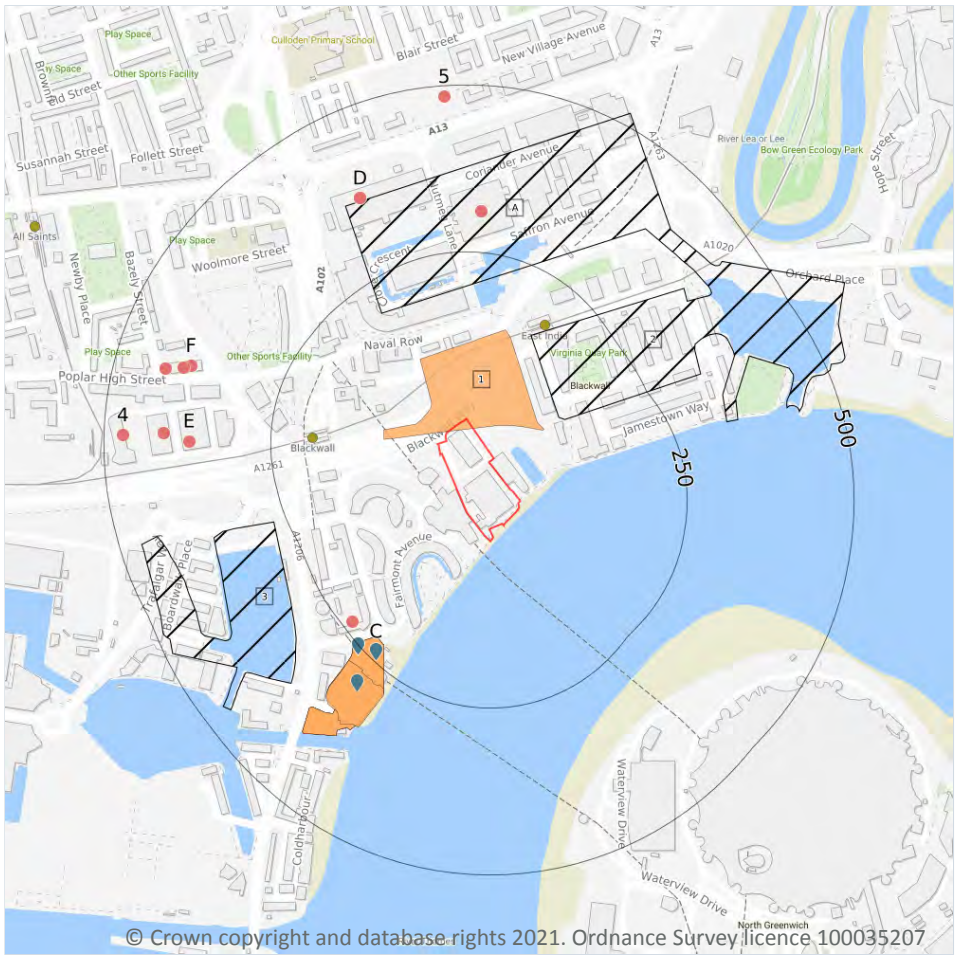
Features are displayed on the Past land use - un-grouped map on **page 36**

ID	Location	Land Use	Date	Group ID
I	98m NW	Garage	1994	75170
I	101m NW	Garage	1993	84631
I	101m NW	Garage	1992	84631

ID	Location	Land Use	Date	Group ID
I	101m NW	Garage	1992	84631
B	107m N	Garage	1990	84083
B	107m N	Garage	1991	84083
B	107m N	Garage	1991	84083
AR	473m NW	Garage	1970	85504
AR	473m NW	Garage	1962	85504
AR	473m NW	Garage	1989	85504
AR	473m NW	Garage	1990	85504
AR	473m NW	Garage	1989	85504
AT	488m N	Garage	1916	73509

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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	0

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.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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	3

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 68**

ID	Location	Details		
2	115m NE	Site Address: East India Dock, London E14 Licence Holder Address: -	Waste Licence: - Site Reference: 8TH005, TOW005 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
A	189m N	Site Address: Eastern Dock, South Bromley, Tower Hamlets, London Licence Holder Address: -	Waste Licence: - Site Reference: 8TH002, TOW002 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
3	269m W	Site Address: Poplar Dock, Blackwall, Tower Hamlets, London Licence Holder Address: -	Waste Licence: - Site Reference: 8TH004, TOW004 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	**5**

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 68**

ID	Location	Address	Further Details	Date
1	**On site**	**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**	**1969**
B	220m SW	Site Address: N/A	Type of Site: Waste Transfer Station Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1991
B	220m SW	Site Address: N/A	Type of Site: Waste Transfer Station Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1991
B	220m SW	Site Address: N/A	Type of Site: Waste Transfer Station Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1991
B	271m SW	Site Address: N/A	Type of Site: Waste Transfer Station Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1998

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

3.6 Licensed waste sites

Records within 500m	**8**

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

Features are displayed on the Waste and landfill map on **page 68**

ID	Location	Details		
C	238m SW	Site Name: Northumberland Wharf Transfer Station Site Address: Steven Pryor, Northumberland Wharf, Yabsley Street, Poplar, London, E14 9RG Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO139 EPR reference: EA/EPR/NP3395VV/T002 Operator: Veolia E S (U K) Limited Waste Management licence No: 80133 Annual Tonnage: 24999	Issue Date: 23/09/1994 Effective Date: 29/11/2010 Modified:: 01/06/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	238m SW	Site Name: Northumberland Wharf Transfer Station Site Address: Steven Pryor, Northumberland Wharf T S, Yabsley Street, Poplar, London, E14 9RG Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: COR002 EPR reference: EA/EPR/FB3605LE/V002 Operator: Cory Environmental Limited Waste Management licence No: 80133 Annual Tonnage: 24999	Issue Date: 23/09/1994 Effective Date: 24/10/2017 Modified:: 02/06/2020 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	251m SW	Site Name: Cleanaway Limited, Yabsley Street Site Address: Steven Pryor, Northumberland Wharf, Yabsley Street, Poplar, London, E14 9RG Correspondence Address: Cleanaway Limited, The Drive, Warley, Brentwood, Essex, CM13 3BE	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CLE007 EPR reference: - Operator: Cleanaway Ltd Waste Management licence No: 80133 Annual Tonnage: 0	Issue Date: 23/09/1994 Effective Date: - Modified:: 15/11/1999 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

ID	Location	Details		
C	251m SW	Site Name: Yabsley Street Site Address: Steven Pryor, Northumberland Wharf, Yabsley Street, Poplar, London, E14 9RG Correspondence Address: Cleanaway Ltd, The Drive, Great Warley, Brentwood, Essex, CM13 3BE	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CLE007 EPR reference: - Operator: Veolia E S Cleanaway (U K) Ltd Waste Management licence No: 80133 Annual Tonnage: 75000	Issue Date: 23/09/1994 Effective Date: - Modified:: 15/11/1999 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	251m SW	Site Name: Northumberland Wharf Transfer Station Site Address: Steven Pryor, Yabsley Street, Poplar, London, E14 9RG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO139 EPR reference: EA/EPR/NP3395VV/T001 Operator: Veolia Environmental Services (U K) Ltd Waste Management licence No: 80133 Annual Tonnage: 24999	Issue Date: 23/09/1994 Effective Date: 29/11/2010 Modified:: 15/11/1999 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
C	251m SW	Site Name: Northumberland Wharf Transfer Station Site Address: Steven Pryor, Northumberland Wharf, Yabsley Street, Poplar, London, E14 9RG Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO139 EPR reference: EA/EPR/NP3395VV/T002 Operator: Cory Environmental Ltd Waste Management licence No: 80133 Annual Tonnage: 24999	Issue Date: 23/09/1994 Effective Date: 29/11/2010 Modified:: 01/06/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

ID	Location	Details		
B	292m SW	Site Name: Northumberland Wharf Transfer Station Site Address: Steven Pryor, Northumberland Wharf, Yabsley Street, Poplar, London, E14 9RG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: COR149 EPR reference: EA/EPR/GB3332AD/V002 Operator: Cory Environmental Limited Waste Management licence No: 104101 Annual Tonnage: 19500	Issue Date: 01/06/2012 Effective Date: - Modified:: 02/06/2020 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	292m SW	Site Name: Northumberland Wharf Transfer Station Site Address: Steven Pryor, Northumberland Wharf, Yabsley Street, Poplar, London, E14 9RG Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: COR149 EPR reference: EA/EPR/GB3332AD/T001 Operator: Cory Environmental Ltd Waste Management licence No: 104101 Annual Tonnage: 19500	Issue Date: 01/06/2012 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Tran Part

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

3.7 Waste exemptions

Records within 500m **22**

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 68**

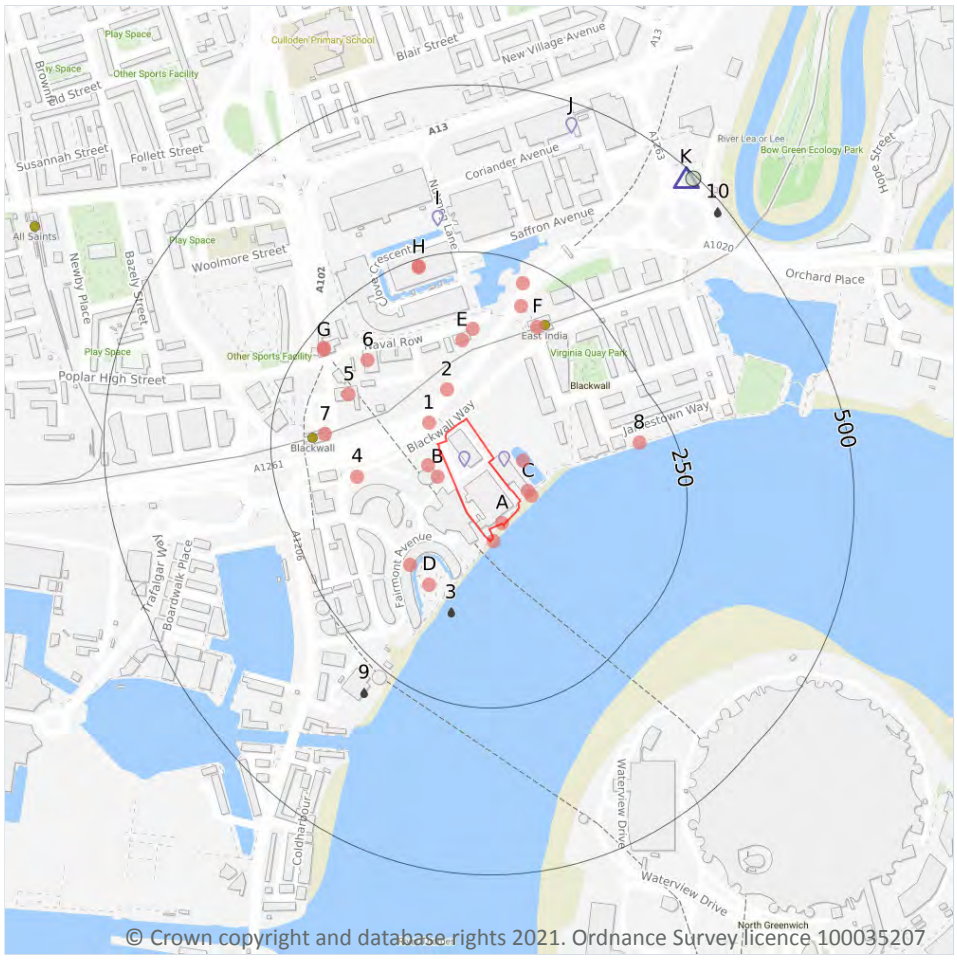
ID	Location	Site	Reference	Category	Sub-Category	Description
C	236m SW	Telford Homes plc Yabsley Street London London E14 9RX	EPR/GH0279BJ/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
A	312m N	3, NUTMEG LANE, LONDON, E14 2AX	WEX240234	Storing waste exemption	Not on a farm	Storage of waste in a secure place

ID	Location	Site	Reference	Category	Sub-Category	Description
A	312m N	3, NUTMEG LANE, LONDON, E14 2AX	WEX240234	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	312m N	3, NUTMEG LANE, LONDON, E14 2AX	WEX244350	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	312m N	3, NUTMEG LANE, LONDON, E14 2AX	WEX244350	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	366m NW	Global Switch Estate 1 Limited, 240 east India Dock House, London, E14 9YY	WEX240247	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	366m NW	Global Switch Estate 1 Limited, 240 east India Dock House, London, E14 9YY	WEX240247	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	366m NW	Global Switch Estates 1 Limited, 240 East India Dock, London, E14 9YY	WEX244348	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	366m NW	Global Switch Estates 1 Limited, 240 East India Dock, London, E14 9YY	WEX244348	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	373m W	UNIT C19, POPLAR BUSINESS PARK, PRESTONS ROAD, LONDON, E14 9RL	WEX144918	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
F	388m W	257-259, POPLAR HIGH STREET, LONDON, E14 0BE	WEX100959	Storing waste exemption	Not on a farm	Storage of waste in secure containers
F	388m W	257-259, POPLAR HIGH STREET, LONDON, E14 0BE	WEX100959	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	388m W	257-259, POPLAR HIGH STREET, LONDON, E14 0BE	WEX100959	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
F	398m W	257 - 259 Poplar High Street, Poplar, London, E14 0BE	WEX176181	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
F	398m W	257-259, Poplar High Street, London, E14 0BE	WEX008336	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
E	411m W	Unit 2, Poplar Business Park, 10 Prestons Road, Poplar, E14 9RL	WEX160503	Storing waste exemption	Not on a Farm	Storage of waste in a secure place

ID	Location	Site	Reference	Category	Sub-Category	Description
E	411m W	Unit 2, Poplar Business Park, 10 Prestons Road, Poplar, E14 9RL	WEX160503	Storing waste exemption	Not on a Farm	Storage of waste in secure containers
F	424m W	257-259, POPLAR HIGH STREET, LONDON, E14 0BE	WEX243415	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	424m W	257-259, POPLAR HIGH STREET, LONDON, E14 0BE	WEX243415	Storing waste exemption	Not on a farm	Storage of waste in secure containers
F	424m W	257-259, POPLAR HIGH STREET, LONDON, E14 0BE	WEX243415	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
4	472m W	Poplar Business Park Unit A1 Prestons Road LONDON E14 9RL	EPR/WF0005KP/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
5	483m N	JONES HOUSE, FLAT 1, BLAIR STREET, LONDON, E14 0NT	WEX083715	Using waste exemption	Not on a farm	Use of waste in construction

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	25

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 76**

ID	Location	Company	Address	Activity	Category
A	**On site**	**Floating Jetty**	**Greater London, E14**	**Moorings and Unloading Facilities**	**Water**
A	3m SE	Floating Jetty	Greater London, E14	Moorings and Unloading Facilities	Water
C	18m NE	East India Pier	Greater London, E14	Ferries and Ferry Terminals	Water

ID	Location	Company	Address	Activity	Category
C	18m NE	East India Pier	Greater London, E14	Ferries and Ferry Terminals	Water
B	20m SW	Electricity Sub Station	Greater London, E14	Electrical Features	Infrastructure and Facilities
B	25m SW	Electricity Sub Station	Greater London, E14	Electrical Features	Infrastructure and Facilities
1	31m NW	Gantry	Greater London, E14	Travelling Cranes and Gantries	Industrial Features
C	42m NE	Graving Dock	Greater London, E14	Moorings and Unloading Facilities	Water
2	53m NW	Gantry	Greater London, E14	Travelling Cranes and Gantries	Industrial Features
D	110m SW	Wharf	Greater London, E14	Moorings and Unloading Facilities	Water
D	115m SW	Alfatec	Flat 1313 New Providence Wharf 1, Fairmont Avenue, London, Greater London, E14 9PJ	Office and Shop Equipment	Industrial Products
E	118m N	Pumping Ho	Greater London, E14	Water Pumping Stations	Industrial Features
4	129m W	Electricity Sub Station	Greater London, E14	Electrical Features	Infrastructure and Facilities
E	135m N	Electricity Sub Station	Greater London, E14	Electrical Features	Infrastructure and Facilities
5	152m NW	Arvin & Sons	1, Prestage Way, London, Greater London, E14 9QE	Construction Completion Services	Construction Services
6	161m NW	Works	Greater London, E14	Unspecified Works Or Factories	Industrial Features
7	169m W	Blackwall Station (Docklands Light Railway)	Greater London, E14	Tram, Metro and Light Railway Stations and Stops	Public Transport, Stations and Infrastructure
F	174m NE	East India Station (Docklands Light Railway)	Greater London, E14	Tram, Metro and Light Railway Stations and Stops	Public Transport, Stations and Infrastructure
F	187m NE	Gantry	Greater London, E14	Travelling Cranes and Gantries	Industrial Features

ID	Location	Company	Address	Activity	Category
8	198m NE	Virgina Quay	Greater London, E14	Moorings and Unloading Facilities	Water
F	220m NE	Gantry	Greater London, E14	Travelling Cranes and Gantries	Industrial Features
G	221m NW	Depot	Greater London, E14	Container and Storage	Transport, Storage and Delivery
G	223m NW	E M Highway Services Ltd	Blackwall Tunnel Depot, Naval Row, London, Greater London, E14 9PS	Civil Engineers	Engineering Services
H	238m N	Gallivant Perfumes Ltd	The Trampery Republic, First Floor Anchorage House, London, Greater London, E14 2BE	Cosmetics, Toiletries and Perfumes	Consumer Products
H	240m N	Lebara Mobile Ltd	2, Clove Crescent, London, Greater London, E14 2BE	Radar and Telecommunications Equipment	Industrial Products

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 76**

ID	Location	Company	Address	LPG	Status
K	489m NE	ESSO	Leamouth Road, Lower Lea Crossing, Leamouth, London, Inner London, E14 0JG	Not Applicable	Obsolete

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	0

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.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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	0

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.

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	7

Records of Part A(1) 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 76**

ID	Location	Details	
B	**On site**	**Operator: THOMSON REUTERS GROUP LIMITED** **Installation Name: THOMSON REUTERS DOCKLANDS TECHNICAL CENTRE - EPR/CP3339DZ** **Process: COMBUSTION; ANY FUEL =>50MW** **Permit Number: CP3339DZ** **Original Permit Number: CP3339DZ**	**EPR Reference: -** **Issue Date: 11/01/2019** **Effective Date: 11/01/2019** **Last date noted as effective: 25/01/2021** **Status: SUPERCEDED**
B	**On site**	**Operator: TELEHOUSE INTERNATIONAL CORPORATION OF EUROPE LIMITED** **Installation Name: THOMSON REUTERS DOCKLANDS TECHNICAL CENTRE - EPR/CP3339DZ** **Process: COMBUSTION; ANY FUEL =>50MW** **Permit Number: EP3507SL** **Original Permit Number: EP3507SL**	**EPR Reference: -** **Issue Date: 13/10/2020** **Effective Date: 13/10/2020** **Last date noted as effective: 25/01/2021** **Status: TRANSFER EFFECTIVE**
C	15m E	Operator: THOMSON REUTERS GROUP LIMITED Installation Name: THOMSON REUTERS DOCKLANDS TECHNICAL CENTRE - EPR/CP3339DZ Process: ASSOCIATED PROCESS Permit Number: CP3339DZ Original Permit Number: CP3339DZ	EPR Reference: - Issue Date: 11/01/2019 Effective Date: 11/01/2019 Last date noted as effective: 28/09/2020 Status: EFFECTIVE
I	302m N	Operator: GLOBAL SWITCH LIMITED Installation Name: EAST INDIA DOCK ROAD Process: COMBUSTION; ANY FUEL =>50MW Permit Number: BP3530YR Original Permit Number: BP3530YR	EPR Reference: - Issue Date: 25/06/2019 Effective Date: 25/06/2019 Last date noted as effective: 25/01/2021 Status: EFFECTIVE
I	302m N	Operator: GLOBAL SWITCH LIMITED Installation Name: EAST INDIA DOCK ROAD Process: ASSOCIATED PROCESS Permit Number: BP3530YR Original Permit Number: BP3530YR	EPR Reference: - Issue Date: 25/06/2019 Effective Date: 25/06/2019 Last date noted as effective: 25/01/2021 Status: EFFECTIVE

ID	Location	Details	
J	466m N	Operator: TELEHOUSE INTERNATIONAL CORPORATION OF EUROPE LIMITED Installation Name: TELEHOUSE DOCKLANDS DATACENTRE Process: COMBUSTION; ANY FUEL =>50MW Permit Number: SP3237JU Original Permit Number: SP3237JU	EPR Reference: - Issue Date: 24/04/2019 Effective Date: 24/04/2019 Last date noted as effective: 25/01/2021 Status: EFFECTIVE
J	466m N	Operator: TELEHOUSE INTERNATIONAL CORPORATION OF EUROPE LIMITED Installation Name: TELEHOUSE DOCKLANDS DATACENTRE Process: ASSOCIATED PROCESS Permit Number: SP3237JU Original Permit Number: SP3237JU	EPR Reference: - Issue Date: 24/04/2019 Effective Date: 24/04/2019 Last date noted as effective: 28/09/2020 Status: EFFECTIVE

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

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

Records within 500m	**0**

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.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	**0**

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	**3**

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 76**

ID	Location	Address	Details	
3	122m SW	BLACKWALL ENGINEERING YARD, BLACKWA, BLACKWALL ENGINEERING YARD BLAC, KWALL WAY POPLAR LONDON	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.2441 Permit Version: 1 Receiving Water: RIVER THAMES	Status: REVOKED - UNSPECIFIED Issue date: 16/05/1988 Effective Date: 16/05/1988 Revocation Date: 17/09/1992
9	295m SW	NORTHUMBERLAND WHARF WASTE TRANSFER, NORTHUMBERLAND WHARF WASTE TRANS, FER STATION YABSLEY ST. POPLAR, LONDON	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.1718 Permit Version: 1 Receiving Water: RIVER THAMES(TIDAL)	Status: TRANSFERRED FROM COPA 1974 Issue date: 10/07/1987 Effective Date: 10/07/1987 Revocation Date: -
10	487m NE	DOCKLANDS LIGHT RAILWAY, BECKTON EX, DOCKLANDS LIGHT RAILWAY BECKTON, EXTENSION LONDON	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTW.0097 Permit Version: 1 Receiving Water: BOW CREEK, RIVER LEE	Status: REVOKED - UNSPECIFIED Issue date: 10/10/1989 Effective Date: 10/10/1989 Revocation Date: 08/04/1998

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	0

Discharges of Special Category Effluents to the public sewer.

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	1

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 76**

ID	Location	Details	
K	494m NE	Incident Date: 06/03/2002 Incident Identification: 62269 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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.

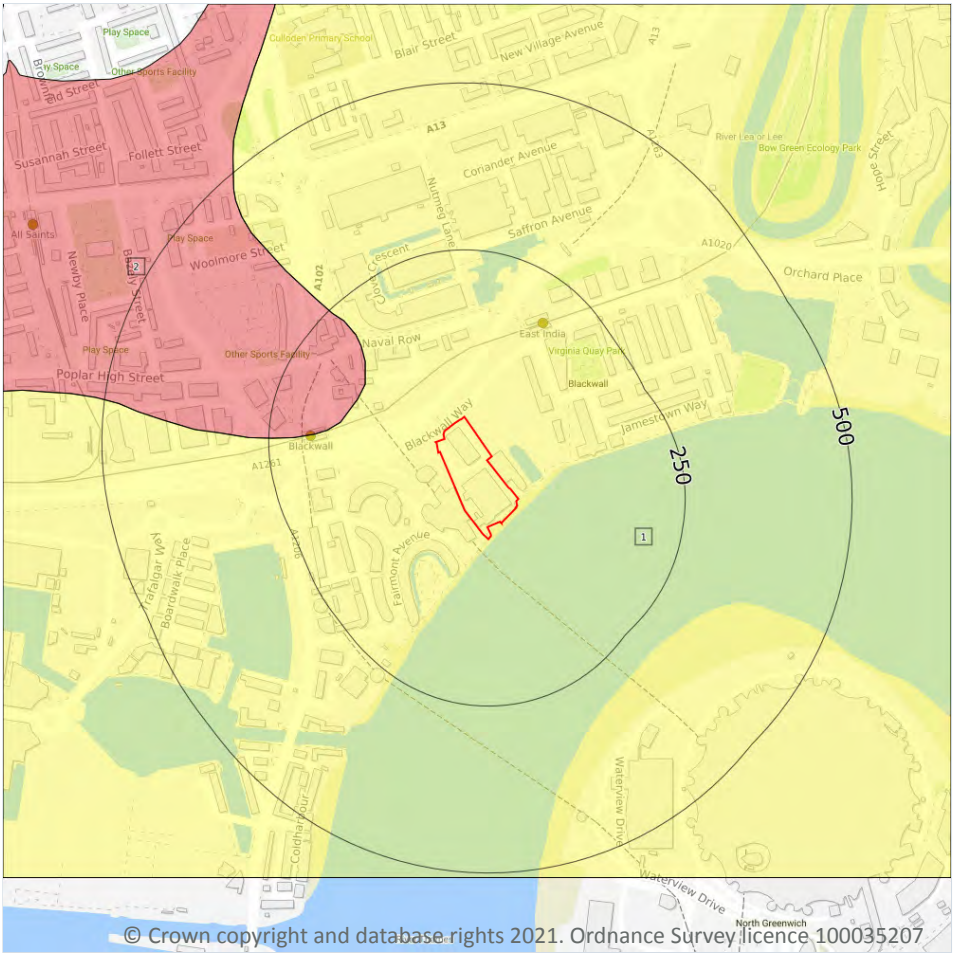
4.21 Pollution inventory radioactive waste

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



5.1 Superficial aquifer

Records within 500m	2

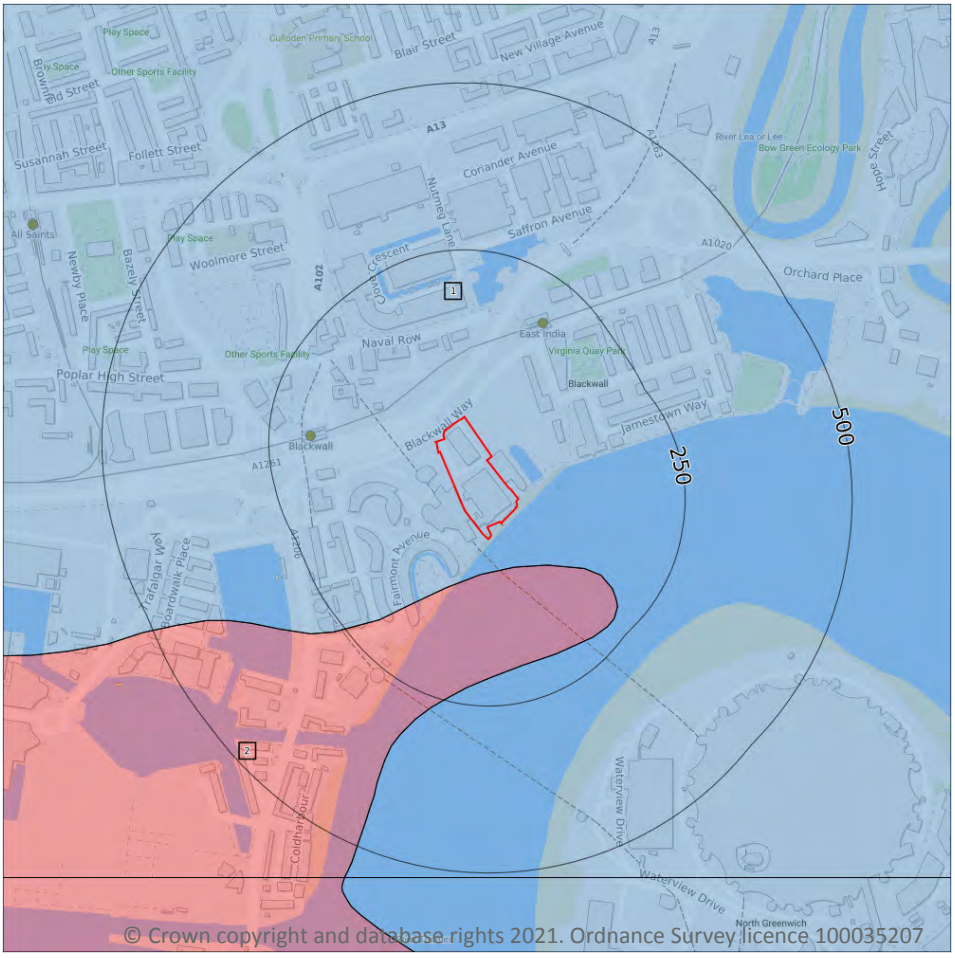
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 85**

ID	Location	Designation	Description
1	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
2	133m NW	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



5.2 Bedrock aquifer

Records within 500m	2

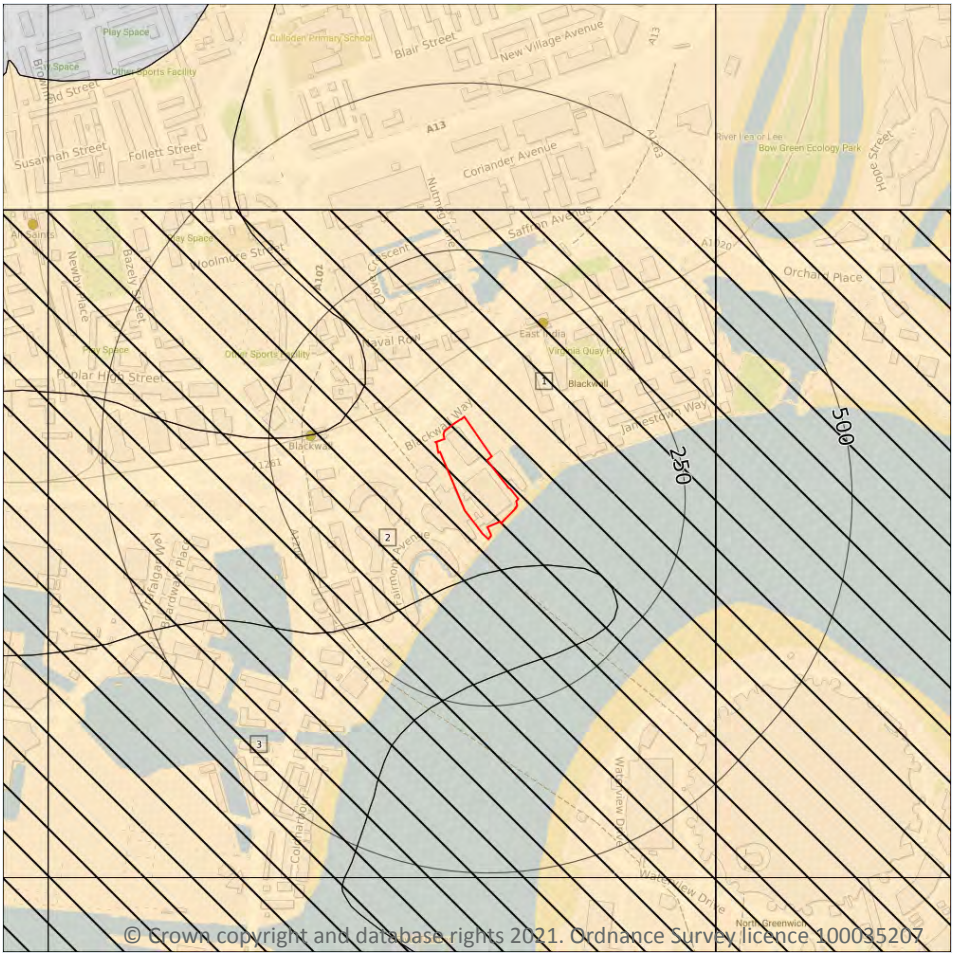
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 87**

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**
2	49m S	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.

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 88**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed**
3	49m S	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary 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

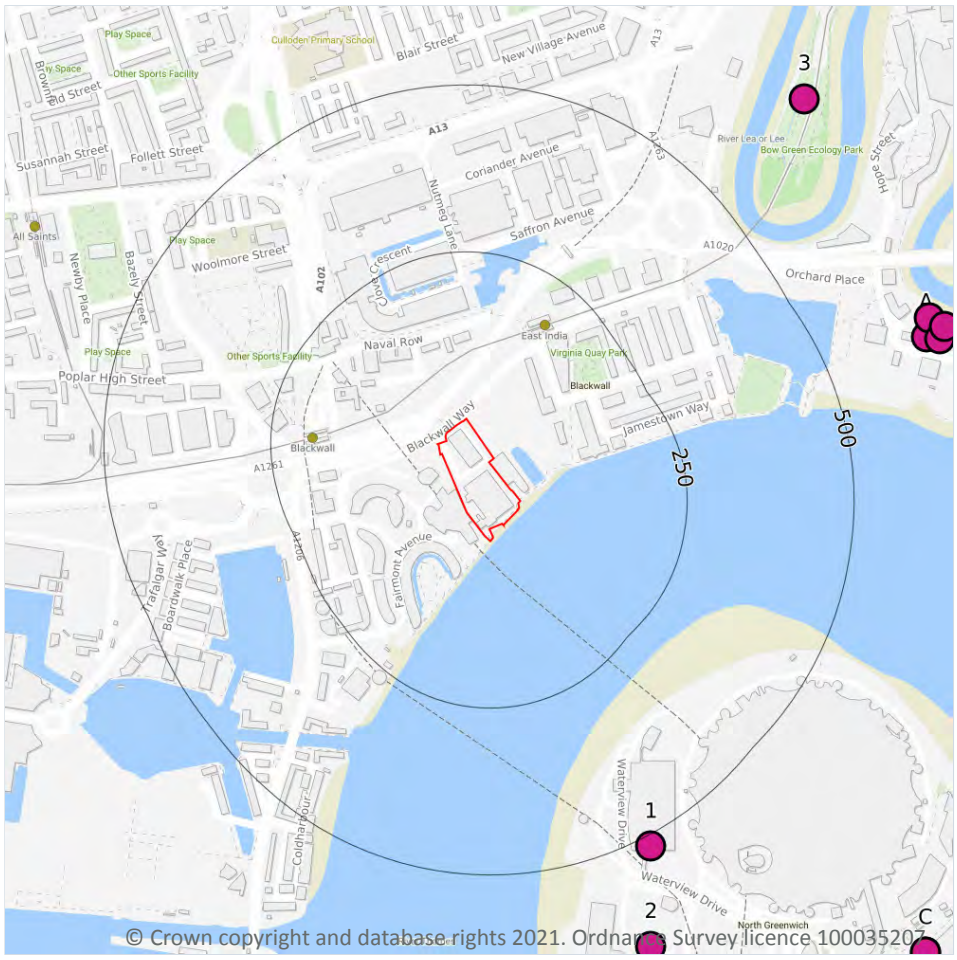
Records on site	**1**

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.

ID	Summary	Additional information
2	**Potentially increased vulnerability of the bedrock aquifer due to limited cover by superficial deposits**	**Removal of, or limited cover of, superficial deposits within the River Thames**

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
- 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	39

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 90**

ID	Location	Details	
1	516m SE	Status: Historical Licence No: 28/39/44/0042 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: THE MILLENNIUM DOME BOREHOLE Data Type: Point Name: ENGLISH PARTNERSHIPS Easting: 538900 Northing: 180050	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/11/1999 Expiry Date: 31/12/2004 Issue No: 2 Version Start Date: 01/07/2001 Version End Date: -
2	652m S	Status: Historical Licence No: 28/39/44/0025 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: 303 TUNNEL AVENUE, GREENWICH, - BOREHOLE 'A' Data Type: Point Name: PIONEER WILLMENT CONCRETE LTD Easting: 538900 Northing: 179900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/06/1991 Expiry Date: 31/12/2001 Issue No: 100 Version Start Date: 14/06/1991 Version End Date: -
A	655m E	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 10 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539312 Northing: 180813	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
A	671m NE	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 12 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539317 Northing: 180842	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
A	673m E	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 9 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539332 Northing: 180810	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -

ID	Location	Details	
-	685m E	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 8 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539353 Northing: 180788	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
A	687m E	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 1 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539340 Northing: 180828	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
3	697m NE	Status: Active Licence No: 29/38/09/0162 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: LIMMO PENINSULA Data Type: Point Name: LEE VALLEY REGIONAL PARK AUTHORITY Easting: 539130 Northing: 181170	Annual Volume (m^3): 30,000 Max Daily Volume (m^3): 146.40 Original Application No: - Original Start Date: 28/07/1997 Expiry Date: - Issue No: 101 Version Start Date: 09/08/2001 Version End Date: -
-	698m S	Status: Historical Licence No: 28/39/44/0024 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: 303 TUNNEL AVENUE, GREENWICH, - BOREHOLE 'A' Data Type: Point Name: BLACKWALL AGGREGATES LIMITED Easting: 538830 Northing: 179830	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/11/1988 Expiry Date: - Issue No: 101 Version Start Date: 11/01/2000 Version End Date: -
-	717m E	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 7 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539389 Northing: 180780	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -

ID	Location	Details	
-	718m S	Status: Historical Licence No: 28/39/44/0024 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: 303 TUNNEL AVENUE, GREENWICH. Data Type: Point Name: BLACKWALL AGGREGATES LIMITED Easting: 538900 Northing: 179830	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/11/1988 Expiry Date: - Issue No: 101 Version Start Date: 11/01/2000 Version End Date: -
-	718m S	Status: Historical Licence No: 28/39/44/0046 Details: Process water Direct Source: THAMES GROUNDWATER Point: 303 TUNNEL AVENUE, GREENWICH. Data Type: Point Name: HANSON QUARRY PROD EUROPE LTD Easting: 538900 Northing: 179830	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/01/2002 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 01/01/2002 Version End Date: -
-	727m E	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 6 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539401 Northing: 180777	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	732m E	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 2 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539391 Northing: 180821	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	753m E	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 3 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539417 Northing: 180811	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -

ID	Location	Details	
-	766m E	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 5 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539445 Northing: 180766	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
-	786m E	Status: Historical Licence No: TH/038/0009/055 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TRINITY BUOY WHARF 4 Data Type: Point Name: Ballymore Construction Services Limited Easting: 539454 Northing: 180805	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 05/08/2019 Expiry Date: 31/12/2019 Issue No: 1 Version Start Date: 05/08/2019 Version End Date: -
C	896m SE	Status: Historical Licence No: 28/39/44/0051 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: ABSTRACTION POINT 'B' - CHALK, GREEN PLACE, GREENWICH Data Type: Point Name: GREENWICH PENINSULA N0204 BLOCK A NOMINEE 1 & 2 LIMITED Easting: 539311 Northing: 179891	Annual Volume (m^3): 1,261,440 Max Daily Volume (m^3): 3456 Original Application No: - Original Start Date: 06/04/2009 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 06/04/2009 Version End Date: -
C	896m SE	Status: Active Licence No: TH/039/0044/013 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE B - GREENWICH Data Type: Point Name: WestInvest Gesellschaft fur Investmentfonds mbH Easting: 539311 Northing: 179891	Annual Volume (m^3): 1,261,440 Max Daily Volume (m^3): 3,456 Original Application No: - Original Start Date: 11/09/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 11/09/2013 Version End Date: -

ID	Location	Details	
-	926m SE	Status: Historical Licence No: 28/39/44/0051 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: ABSTRACTION POINT 'A' - CHALK, GREEN PLACE, GREENWICH Data Type: Point Name: GREENWICH PENINSULA N0204 BLOCK A NOMINEE 1 & 2 LIMITED Easting: 539329 Northing: 179866	Annual Volume (m^3): 1,261,440 Max Daily Volume (m^3): 3456 Original Application No: - Original Start Date: 06/04/2009 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 06/04/2009 Version End Date: -
-	926m SE	Status: Active Licence No: TH/039/0044/013 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE A - GREENWICH Data Type: Point Name: WestInvest Gesellschaft fur Investmentfonds mbH Easting: 539329 Northing: 179866	Annual Volume (m^3): 1,261,440 Max Daily Volume (m^3): 3,456 Original Application No: - Original Start Date: 11/09/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 11/09/2013 Version End Date: -
-	1196m S	Status: Active Licence No: 28/39/44/0047/R01 Details: Process Water Direct Source: THAMES GROUNDWATER Point: VICTORIA DEEP WATER TERMINAL GREENWICH SE10- BOREHOLE Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 538997 Northing: 179359	Annual Volume (m^3): 50,000 Max Daily Volume (m^3): 720 Original Application No: - Original Start Date: 25/04/2016 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 25/04/2016 Version End Date: -
-	1206m S	Status: Historical Licence No: 28/39/44/0047 Details: Process Water Direct Source: THAMES GROUNDWATER Point: VICTORIA DEEP WATER TERMINAL GREENWICH SE10- BOREHOLE Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 539000 Northing: 179350	Annual Volume (m^3): 50000 Max Daily Volume (m^3): 720 Original Application No: - Original Start Date: 02/09/2004 Expiry Date: 31/03/2016 Issue No: 2 Version Start Date: 10/07/2014 Version End Date: -

ID	Location	Details	
-	1416m SE	Status: Historical Licence No: 28/39/44/0040 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BLACKWALL LANE / BOORD STREET, GREENWICH - BOREHOLE Data Type: Point Name: URBAN REGENERATION AGENCY Easting: 539400 Northing: 179300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/06/1999 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 18/06/1999 Version End Date: -
-	1416m SE	Status: Historical Licence No: 28/39/44/0040 Details: Make-Up or Top Up Water Direct Source: THAMES GROUNDWATER Point: BLACKWALL LANE / BOORD STREET, GREENWICH - BOREHOLE Data Type: Point Name: URBAN REGENERATION AGENCY Easting: 539400 Northing: 179300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/06/1999 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 18/06/1999 Version End Date: -
-	1416m SE	Status: Historical Licence No: 28/39/44/0049 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: BOORD STREET, GREENWICH - BOREHOLE Data Type: Point Name: The Land Trust Easting: 539400 Northing: 179300	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 600 Original Application No: - Original Start Date: 09/02/2005 Expiry Date: 31/03/2016 Issue No: 3 Version Start Date: 10/07/2014 Version End Date: -
-	1416m SE	Status: Historical Licence No: 28/39/44/0049 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOORD STREET, GREENWICH - BOREHOLE Data Type: Point Name: The Land Trust Easting: 539400 Northing: 179300	Annual Volume (m^3): 80000 Max Daily Volume (m^3): 600 Original Application No: - Original Start Date: 09/02/2005 Expiry Date: 31/03/2016 Issue No: 3 Version Start Date: 10/07/2014 Version End Date: -

ID	Location	Details	
-	1416m SW	Status: Historical Licence No: 28/39/39/0179 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: THE INTERNATIONAL HOTEL, ISLE OF DOGS - BOREHOLE Data Type: Point Name: BRITTANIA INTERNATIONAL HOTELS LTD Easting: 537350 Northing: 179930	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/01/1998 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 26/01/1998 Version End Date: -
-	1416m SW	Status: Historical Licence No: 28/39/39/0220 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: THE INTERNATIONAL HOTEL, ISLE OF DOGS - BOREHOLE Data Type: Point Name: BRITANNIA HOTELS LIMITED Easting: 537350 Northing: 179930	Annual Volume (m^3): 78840 Max Daily Volume (m^3): 216 Original Application No: - Original Start Date: 09/10/2006 Expiry Date: 30/11/2007 Issue No: 1 Version Start Date: 09/10/2006 Version End Date: -
-	1416m SW	Status: Historical Licence No: 28/39/39/0234 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BRITANNIA INTERNATIONAL HOTEL, ISLE OF DOGS E14- BOREHOLE Data Type: Point Name: BRITANNIA HOTELS LIMITED Easting: 537350 Northing: 179930	Annual Volume (m^3): 78840 Max Daily Volume (m^3): 216 Original Application No: - Original Start Date: 30/04/2008 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 30/04/2008 Version End Date: -
-	1455m SW	Status: Historical Licence No: TH/039/0039/077 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BRITANNIA INTERNATIONAL HOTEL, ISLE OF DOGS E14- BOREHOLE Data Type: Point Name: BRITANNIA HOTELS LIMITED Easting: 537313 Northing: 179919	Annual Volume (m^3): 78840 Max Daily Volume (m^3): 216 Original Application No: - Original Start Date: 14/10/2013 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 14/10/2013 Version End Date: -

ID	Location	Details	
-	1455m SW	Status: Active Licence No: TH/039/0039/077/R01 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BRITANNIA INTERNATIONAL HOTEL, ISLE OF DOGS E14- BOREHOLE Data Type: Point Name: BRITANNIA HOTELS LIMITED Easting: 537313 Northing: 179919	Annual Volume (m^3): 78,840 Max Daily Volume (m^3): 216 Original Application No: - Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -
-	1553m E	Status: Historical Licence No: TH/037/0054/014 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 18 WESTERN GATEWAY, ROYAL VICTORIA DOCK, LONDON Data Type: Point Name: Oxygen Property Management Limited Easting: 540248 Northing: 180741	Annual Volume (m^3): 61600 Max Daily Volume (m^3): 308 Original Application No: - Original Start Date: 20/05/2013 Expiry Date: 31/03/2019 Issue No: 2 Version Start Date: 19/01/2015 Version End Date: -
-	1553m E	Status: Active Licence No: TH/037/0054/014/R01 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 18 WESTERN GATEWAY, ROYAL VICTORIA DOCK, LONDON Data Type: Point Name: Oxygen Property Management Limited Easting: 540248 Northing: 180741	Annual Volume (m^3): 5,000 Max Daily Volume (m^3): 308 Original Application No: - Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -
-	1556m W	Status: Active Licence No: TH/039/0039/143 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: BOREHOLE B AT WESTFERRY ROAD, CANARY WHARF Data Type: Point Name: W J Groundwater Limited Easting: 537114 Northing: 180125	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/09/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 30/09/2019 Version End Date: -

ID	Location	Details	
-	1585m E	Status: Historical Licence No: TH/037/0054/001 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 18 WESTERN GATEWAY, ROYAL VICTORIA DOCK, LONDON Data Type: Point Name: Meadowshire Ltd Easting: 540280 Northing: 180740	Annual Volume (m^3): 61600 Max Daily Volume (m^3): 308 Original Application No: - Original Start Date: 07/05/2009 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 07/05/2009 Version End Date: -
-	1615m W	Status: Active Licence No: TH/039/0039/143 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: BOREHOLE C AT WESTFERRY ROAD, CANARY WHARF Data Type: Point Name: W J Groundwater Limited Easting: 537051 Northing: 180129	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/09/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 30/09/2019 Version End Date: -
-	1635m W	Status: Active Licence No: TH/039/0039/143 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: BOREHOLE A AT WESTFERRY ROAD, CANARY WHARF Data Type: Point Name: W J Groundwater Limited Easting: 536981 Northing: 180310	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 30/09/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 30/09/2019 Version End Date: -
-	1830m SE	Status: Active Licence No: TH/039/0044/016 Details: Lake & Pond Throughflow Direct Source: THAMES GROUNDWATER Point: SOUTHERN PARK BOREHOLE Data Type: Point Name: The Land Restoration Trust Easting: 539930 Northing: 179189	Annual Volume (m^3): 11,000 Max Daily Volume (m^3): 80 Original Application No: - Original Start Date: 13/08/2018 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 13/08/2018 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	5

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 90**

ID	Location	Details	
-	1416m SW	Status: Historical Licence No: 28/39/39/0179 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: THE INTERNATIONAL HOTEL, ISLE OF DOGS - BOREHOLE Data Type: Point Name: BRITTANIA INTERNATIONAL HOTELS LTD Easting: 537350 Northing: 179930	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/01/1998 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 26/01/1998 Version End Date: -
-	1416m SW	Status: Historical Licence No: 28/39/39/0220 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: THE INTERNATIONAL HOTEL, ISLE OF DOGS - BOREHOLE Data Type: Point Name: BRITANNIA HOTELS LIMITED Easting: 537350 Northing: 179930	Annual Volume (m^3): 78840 Max Daily Volume (m^3): 216 Original Application No: - Original Start Date: 09/10/2006 Expiry Date: 30/11/2007 Issue No: 1 Version Start Date: 09/10/2006 Version End Date: -

ID	Location	Details	
-	1416m SW	Status: Historical Licence No: 28/39/39/0234 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BRITANNIA INTERNATIONAL HOTEL, ISLE OF DOGS E14- BOREHOLE Data Type: Point Name: BRITANNIA HOTELS LIMITED Easting: 537350 Northing: 179930	Annual Volume (m^3): 78840 Max Daily Volume (m^3): 216 Original Application No: - Original Start Date: 30/04/2008 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 30/04/2008 Version End Date: -
-	1455m SW	Status: Historical Licence No: TH/039/0039/077 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BRITANNIA INTERNATIONAL HOTEL, ISLE OF DOGS E14- BOREHOLE Data Type: Point Name: BRITANNIA HOTELS LIMITED Easting: 537313 Northing: 179919	Annual Volume (m^3): 78840 Max Daily Volume (m^3): 216 Original Application No: - Original Start Date: 14/10/2013 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 14/10/2013 Version End Date: -
-	1455m SW	Status: Active Licence No: TH/039/0039/077/R01 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BRITANNIA INTERNATIONAL HOTEL, ISLE OF DOGS E14- BOREHOLE Data Type: Point Name: BRITANNIA HOTELS LIMITED Easting: 537313 Northing: 179919	Annual Volume (m^3): 78,840 Max Daily Volume (m^3): 216 Original Application No: - Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	**0**

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.

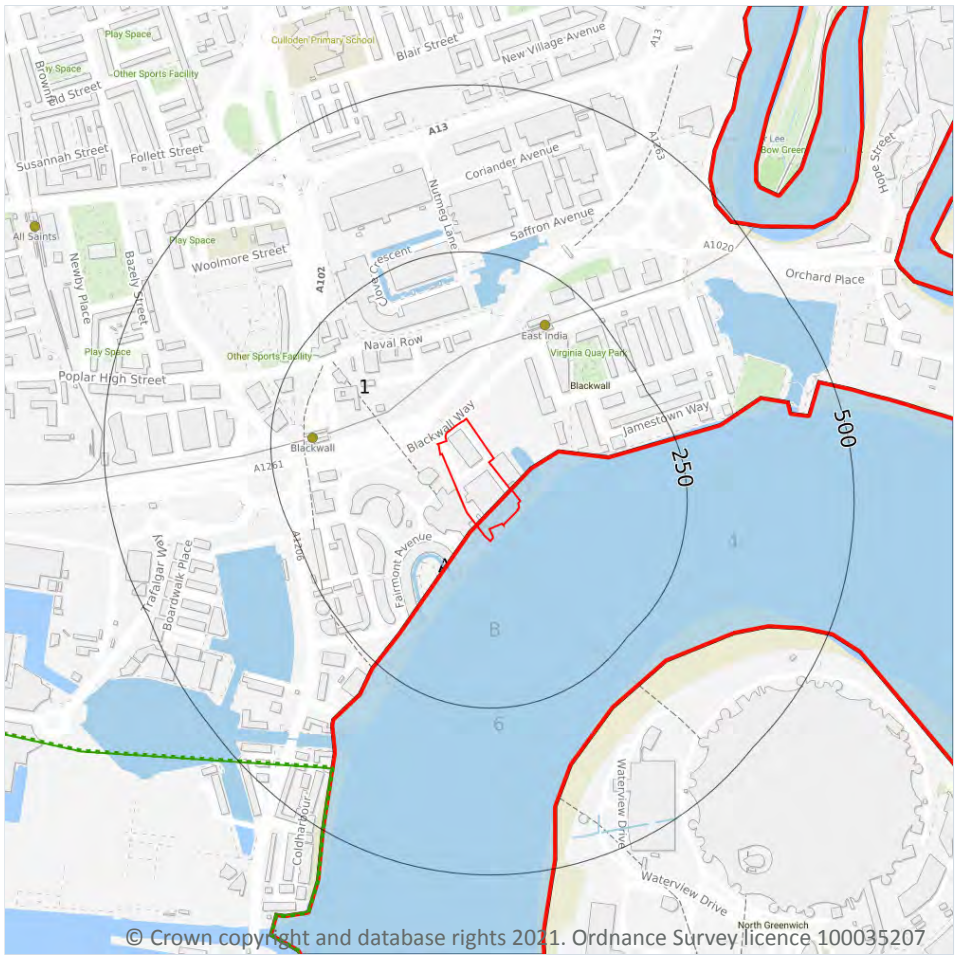
5.10 Source Protection Zones (confined aquifer)

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



6.1 Water Network (OS MasterMap)

Records within 250m	11

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 103**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	75m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
A	80m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	83m SW	Foreshore. Watercourse flows over the foreshore between mean high water and mean low water.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	84m SW	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	112m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	112m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	150m S	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	151m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	156m SW	Foreshore. Watercourse flows over the foreshore between mean high water and mean low water.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	163m SE	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames
6	176m S	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**4**

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 103**

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 103**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**Coastal Catchment**	**Not part of a river WB catchment**	**128**	**Land area part of London Management Catchment draining to the Tidal Thames**	**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 103**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
2	**On site**	**Transitional**	**Thames Middle**	**GB530603911402**	**Moderate**	**Fail**	**Moderate**	**2016**

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

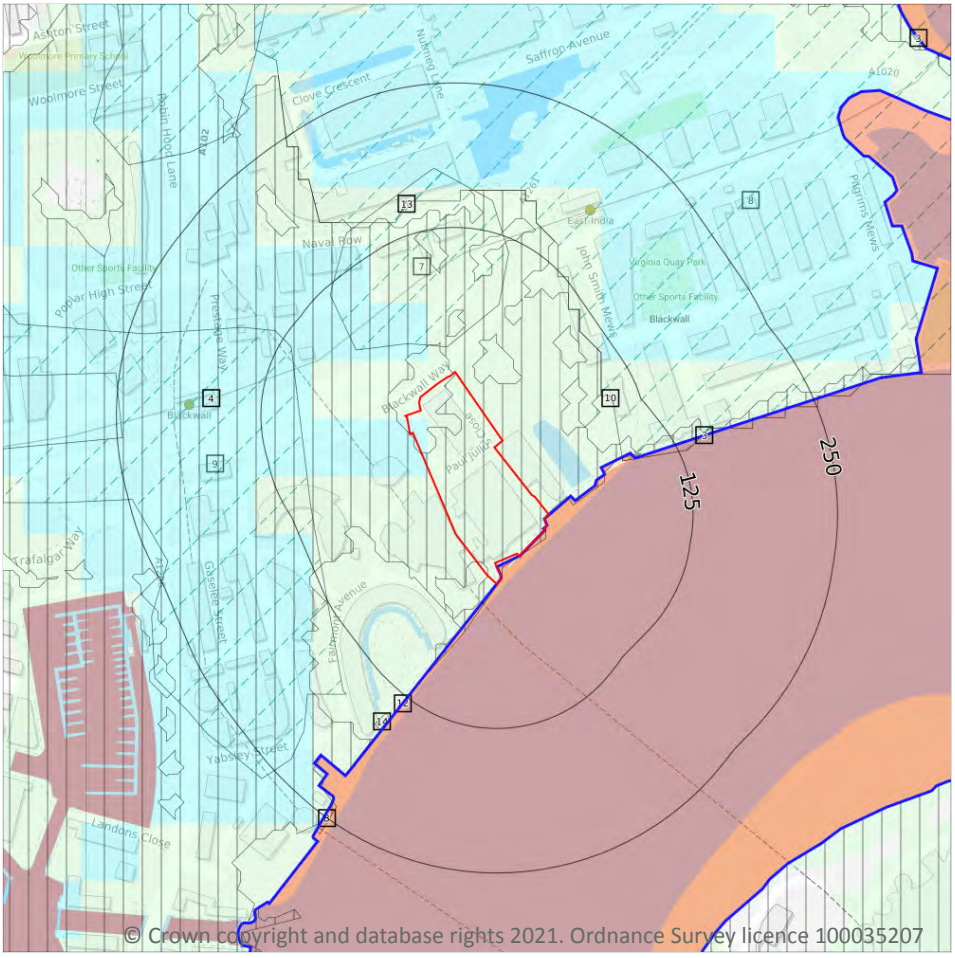
6.5 WFD Groundwater bodies

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



7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	6

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

Features are displayed on the River and coastal flooding map on **page 107**

Distance	RoFRaS flood risk
On site	**High**
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	3

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.

Features are displayed on the River and coastal flooding map on **page 107**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
7	23m N	Ttd_Feo_1928	1928-01-01 1928-12-31	Main river	Overtopping of defences	Tidal
8	79m NE	06marchspring1947	1947-01-01 1947-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
9	91m W	Ttd_Feo_1928	1928-01-01 1928-12-31	Main river	Overtopping of defences	Tidal

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

7.3 Flood Defences

Records within 250m	1

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.

Features are displayed on the River and coastal flooding map on **page 107**

ID	Location	Update
3	**On site**	**15/02/2021**

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	6

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.

Features are displayed on the River and coastal flooding map on **page 107**

ID	Location	
4	**On site**	**Area benefiting from flood defences**
10	98m NE	Area benefiting from flood defences
12	113m SW	Area benefiting from flood defences
13	147m N	Area benefiting from flood defences
14	147m SW	Area benefiting from flood defences
B	236m SW	Area benefiting from flood defences

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

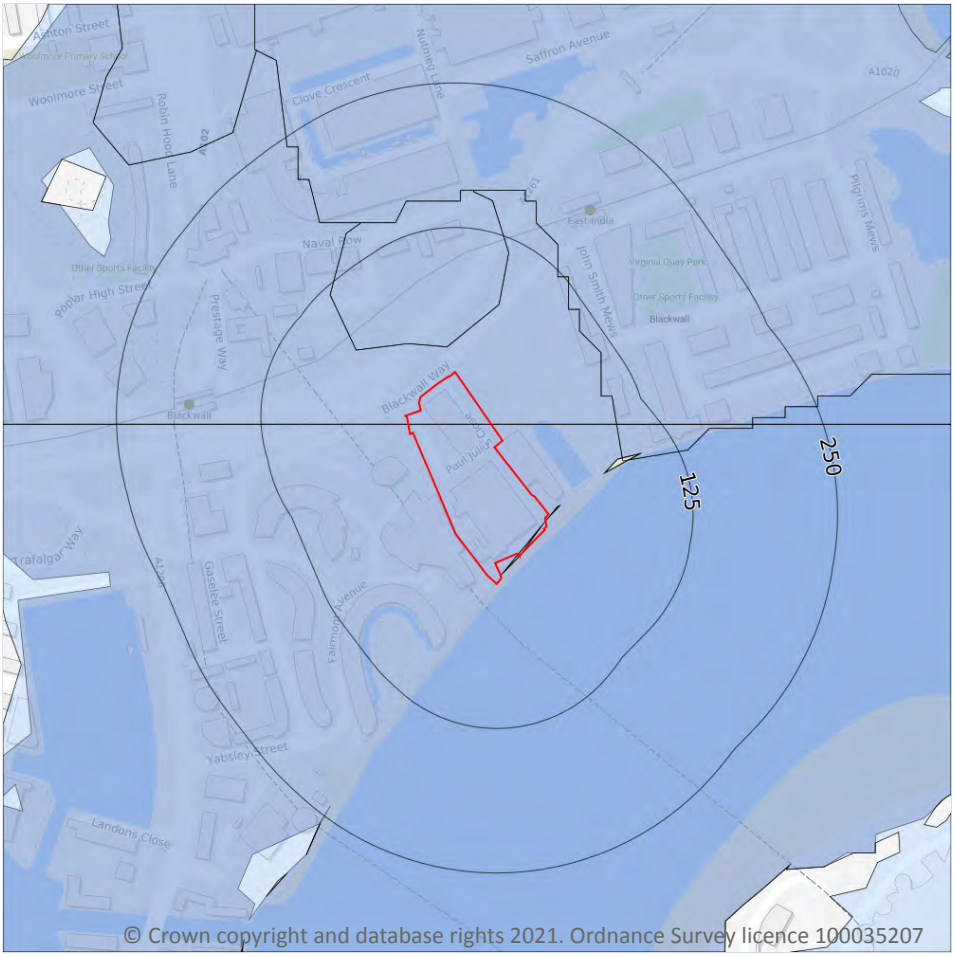
7.5 Flood Storage Areas

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 107**

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

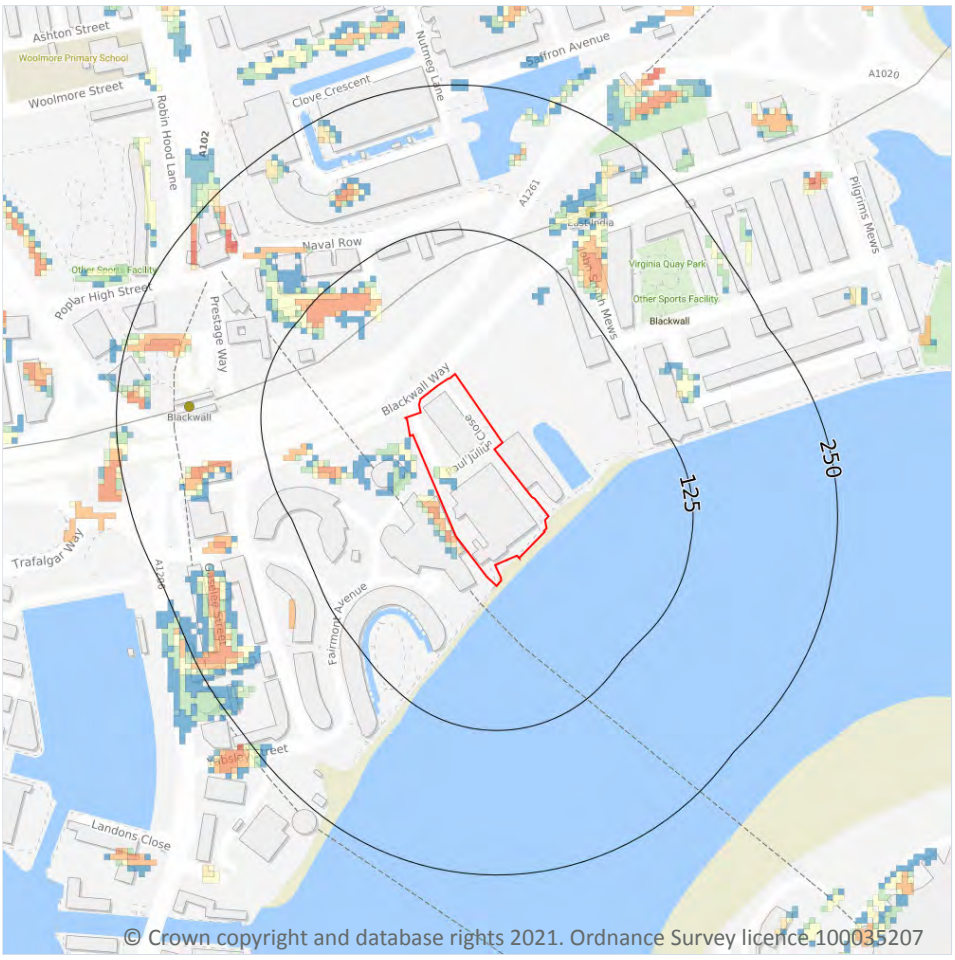
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 107**

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 112**

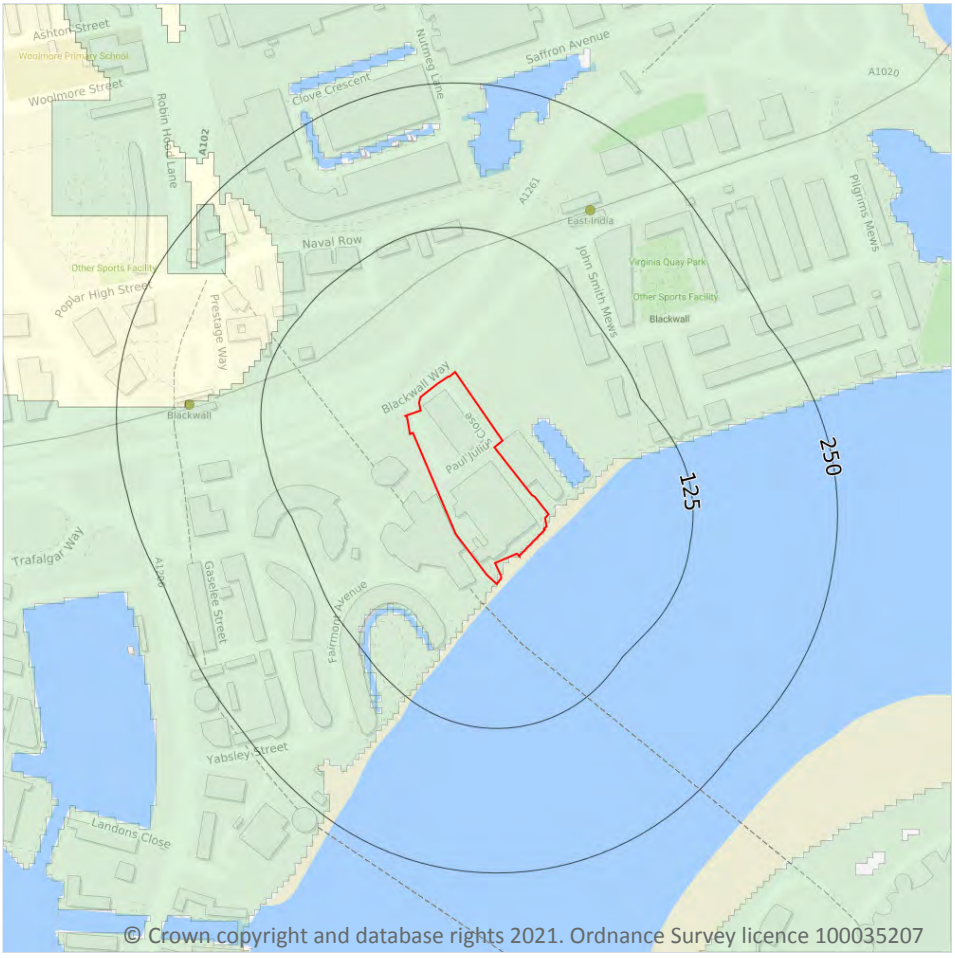
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on

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	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

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

9.1 Groundwater flooding

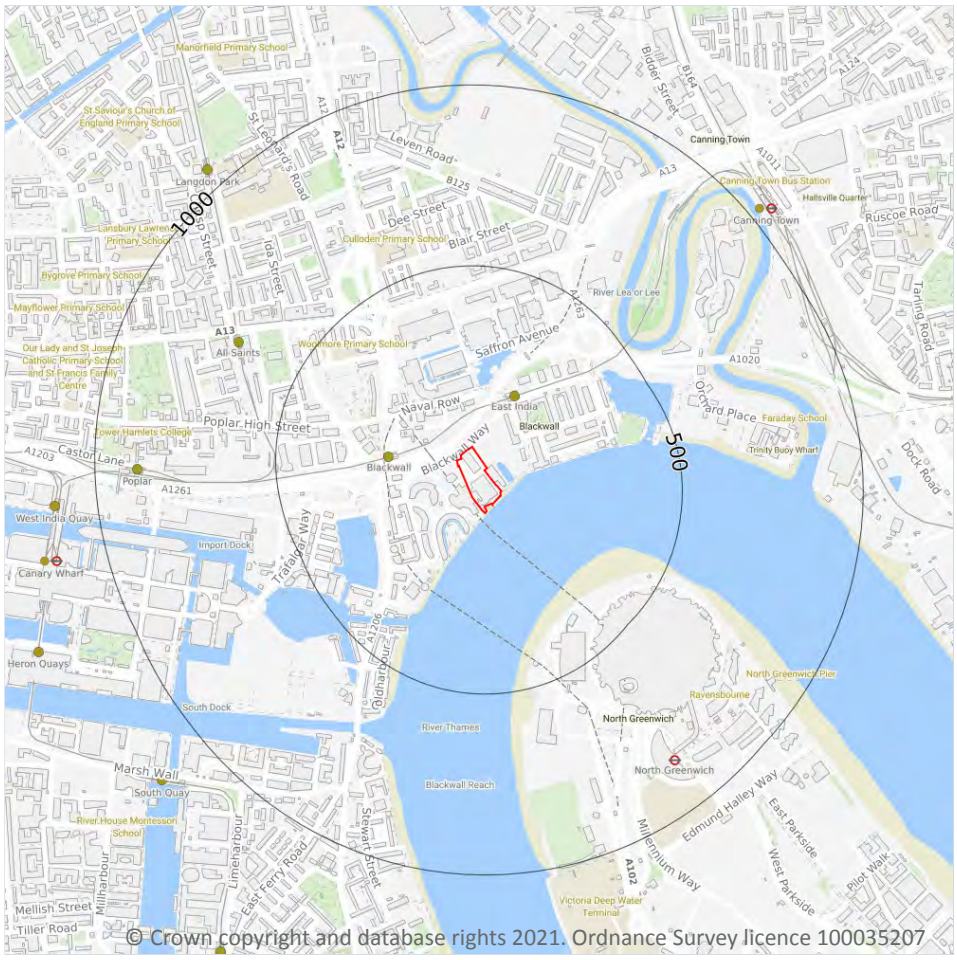
Highest risk on site	**Low**
Highest risk within 50m	**Low**

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 114**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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	1

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 115**

ID	Location	Name	Data source
-	1496m S	Mudchute Park Farm	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	0

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.

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

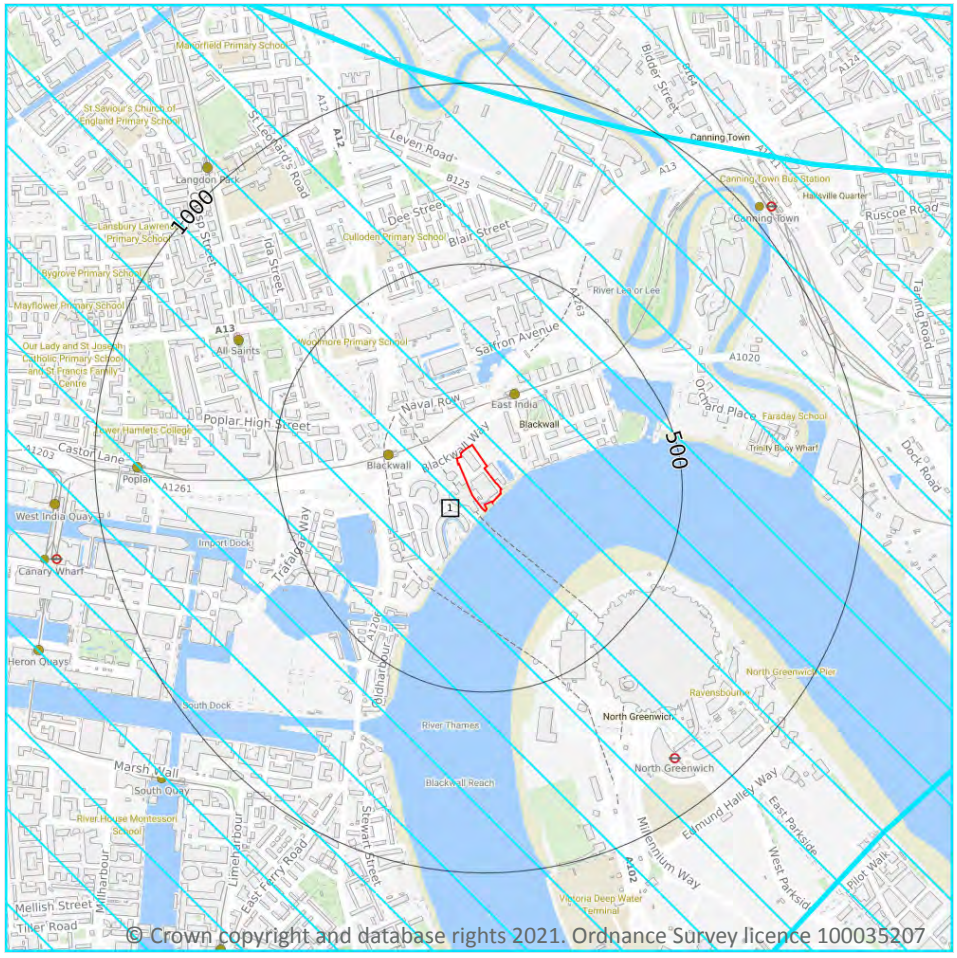
Records within 2000m	1

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
563m N	LEE NVZ	Surface Water	S443	Existing

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

SSSI Impact Zones and Units



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 120**

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 > 4000m². 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**

This data is sourced from Natural England.

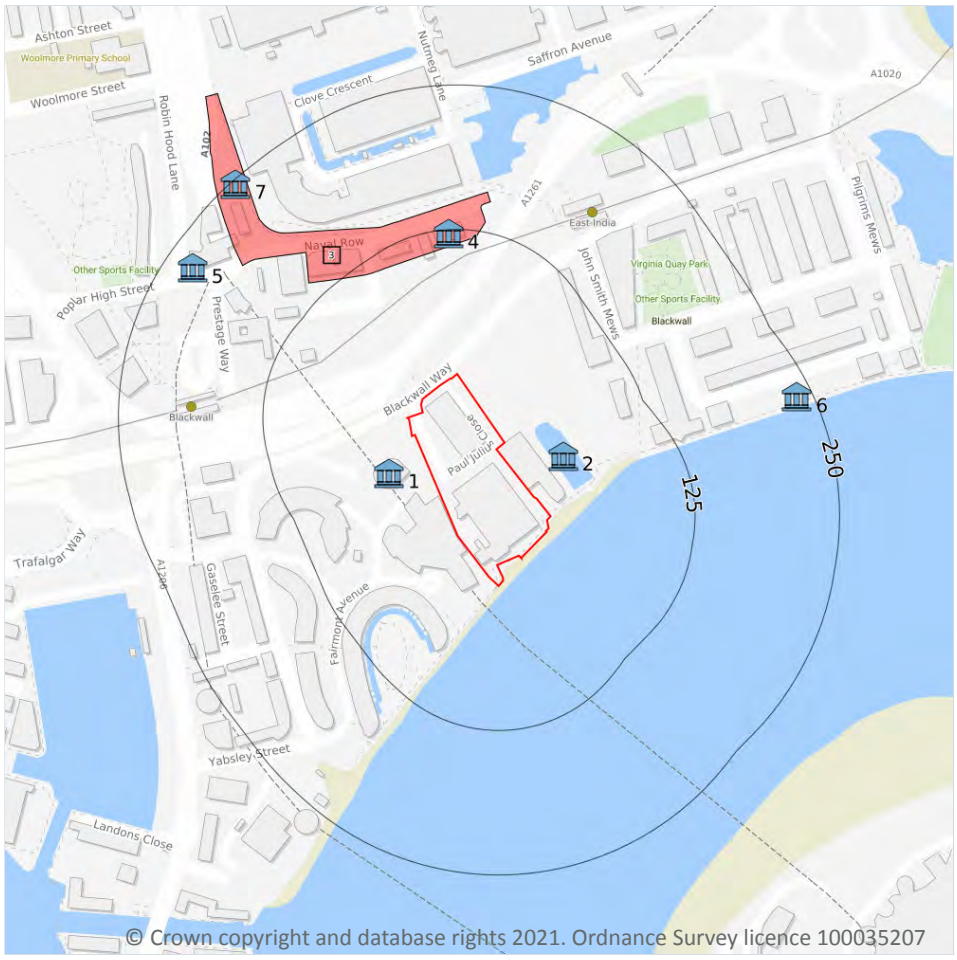
10.18 SSSI Units

Records within 2000m	0

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



Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

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	6

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.

Features are displayed on the Visual and cultural designations map on **page 122**

ID	Location	Name	Grade	Reference Number	Listed date
1	34m SW	Northern Ventilation Shaft To The Blackwall Tunnel Southbound, Blackwall And Cubitt Town, Tower Hamlets, London, E14	II	1246738	20/12/2000
2	42m NE	Dry Dock At Blackwall Engineering, Blackwall And Cubitt Town, Tower Hamlets, London, E14	II	1242217	01/04/1983
4	121m N	East India Dock Pumping Station, Poplar, Tower Hamlets, London, E14	II	1357801	27/09/1973

ID	Location	Name	Grade	Reference Number	Listed date
5	227m NW	Northern Portal And Parapet To The Blackwall Tunnel, Poplar, Tower Hamlets, London, E14	II	1065070	27/09/1973
6	237m NE	Virginia Quay Settlers Monument, Blackwall And Cubitt Town, Tower Hamlets, London, E14	II	1442213	09/03/2017
7	246m NW	Embankment Wall, Railings And Steps, Poplar, Tower Hamlets, London, E14	II	1065132	27/09/1973

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

11.5 Conservation Areas

Records within 250m	**1**

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.

Features are displayed on the Visual and cultural designations map on **page 122**

ID	Location	Name	District	Date of designation
3	107m N	Naval Row	Tower Hamlets	01/1987

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.

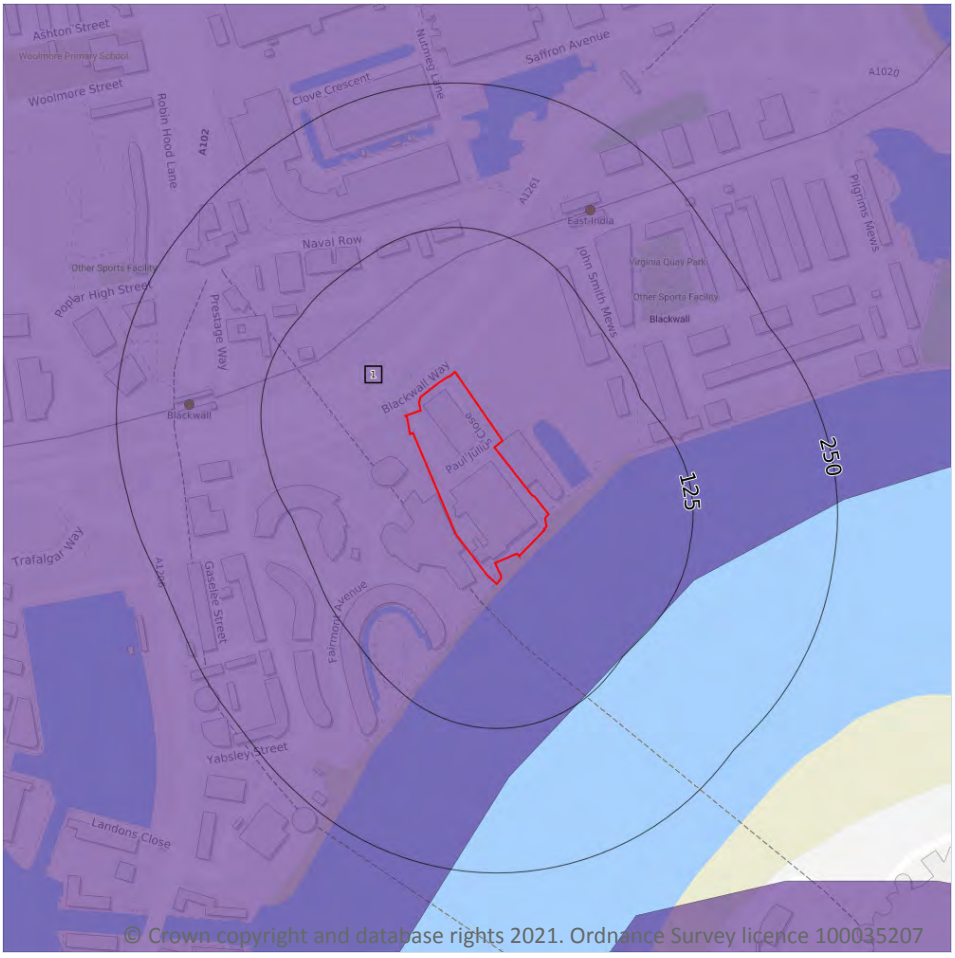
11.7 Registered Parks and Gardens

Records within 250m	0

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 126**

ID	Location	Classification	Description
1	**On site**	**Urban**	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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.

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

12.3 Tree Felling Licences

Records within 250m	0

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.

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.

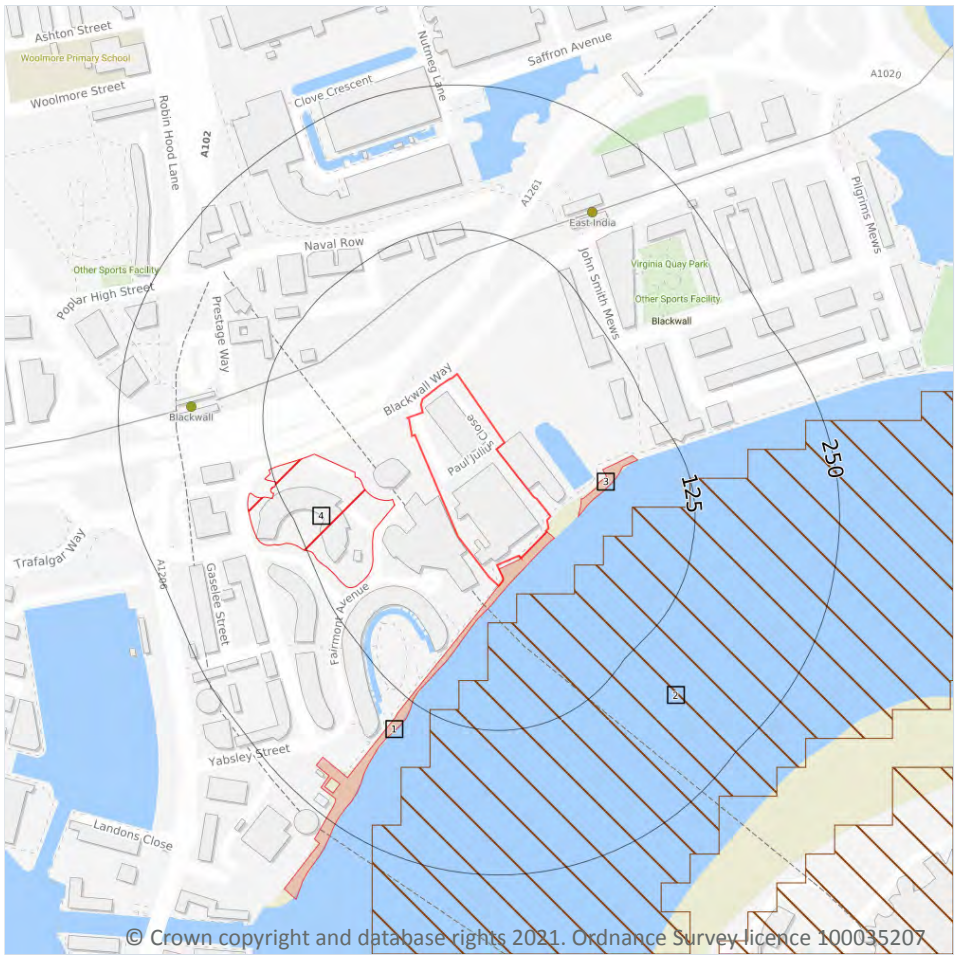
12.5 Countryside Stewardship Schemes

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	2

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 128**

ID	Location	Main Habitat	Other habitats
1	**On site**	**No main habitat but additional habitats present**	**Additional: MUDFL (INV 50%)**
3	24m E	Mudflats	Main habitat: MUDFL (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	1

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.

Features are displayed on the Habitat designations map on **page 128**

ID	Location	Type	Habitat
2	16m SE	Network Enhancement Zone 2	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	1

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.

Features are displayed on the Habitat designations map on **page 128**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
4	40m SW	Charrington s Wharf	High	BugLife All Of A Buzz Data	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

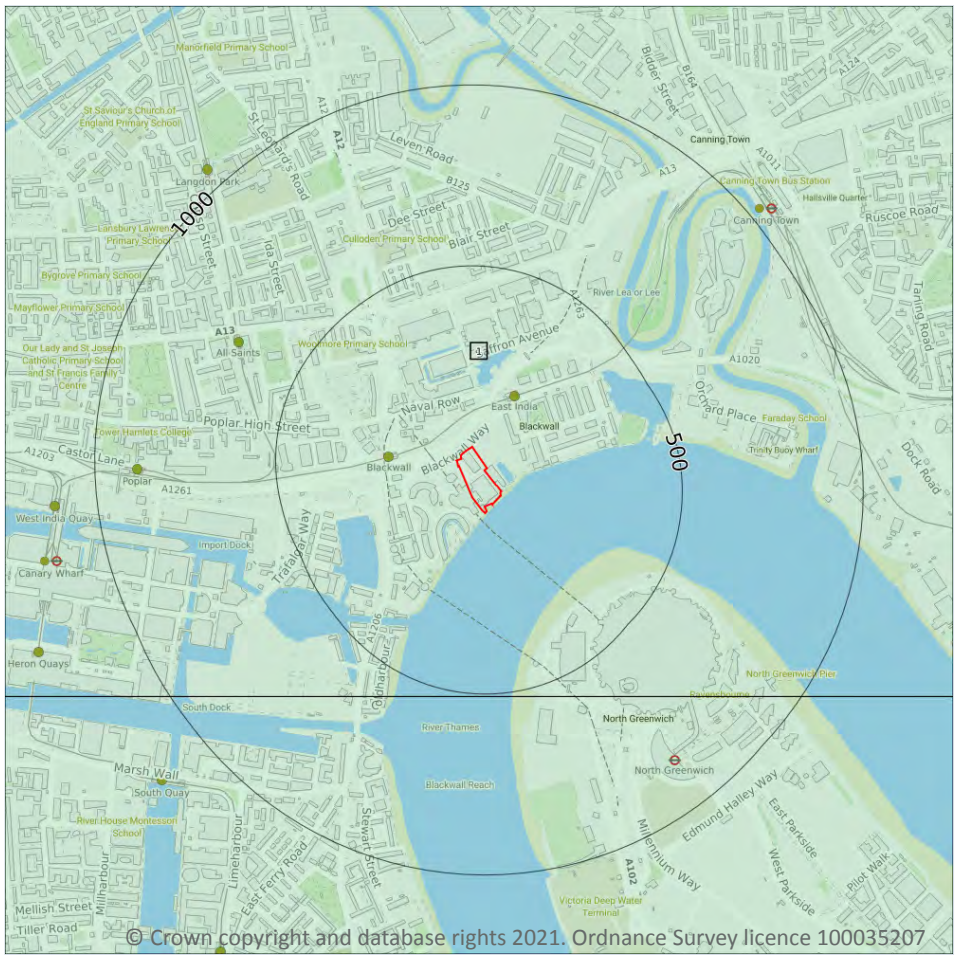
13.4 Limestone Pavement Orders

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

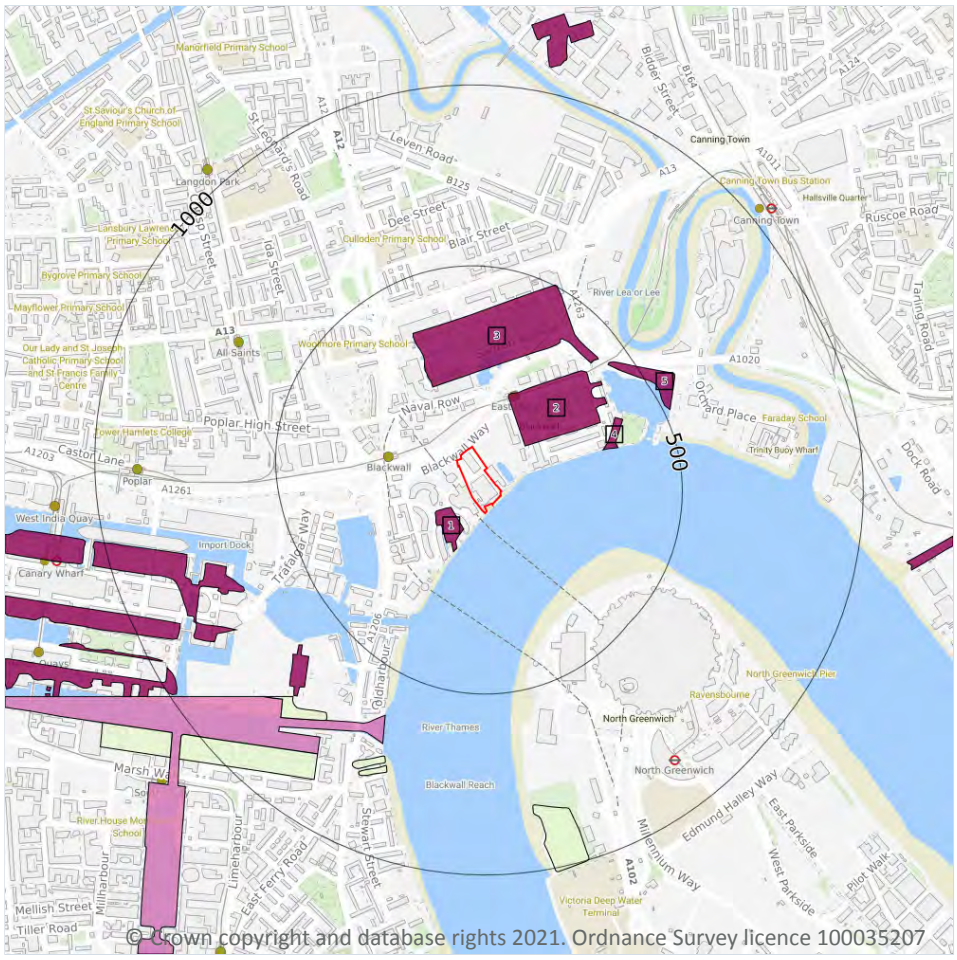
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 130**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**TQ38SE**

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground



14.2 Artificial and made ground (10k)

Records within 500m	5

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

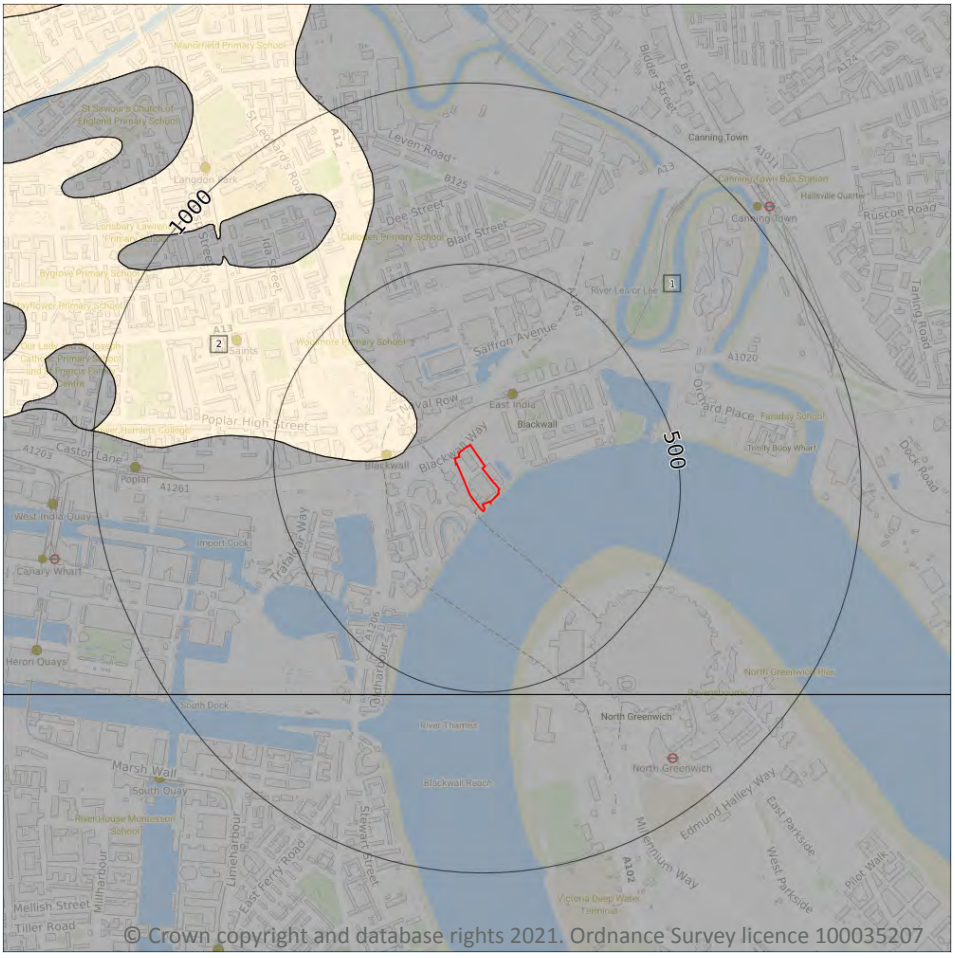
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 131**

ID	Location	LEX Code	Description	Rock description
1	65m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	122m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	192m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	303m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	438m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m	2

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 133**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**ALV-C**	**Alluvium - Clay (unlithified Deposits Coding Scheme)**	**Clay**
2	127m NW	KPGR-XSV	Kempton Park Gravel Formation - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

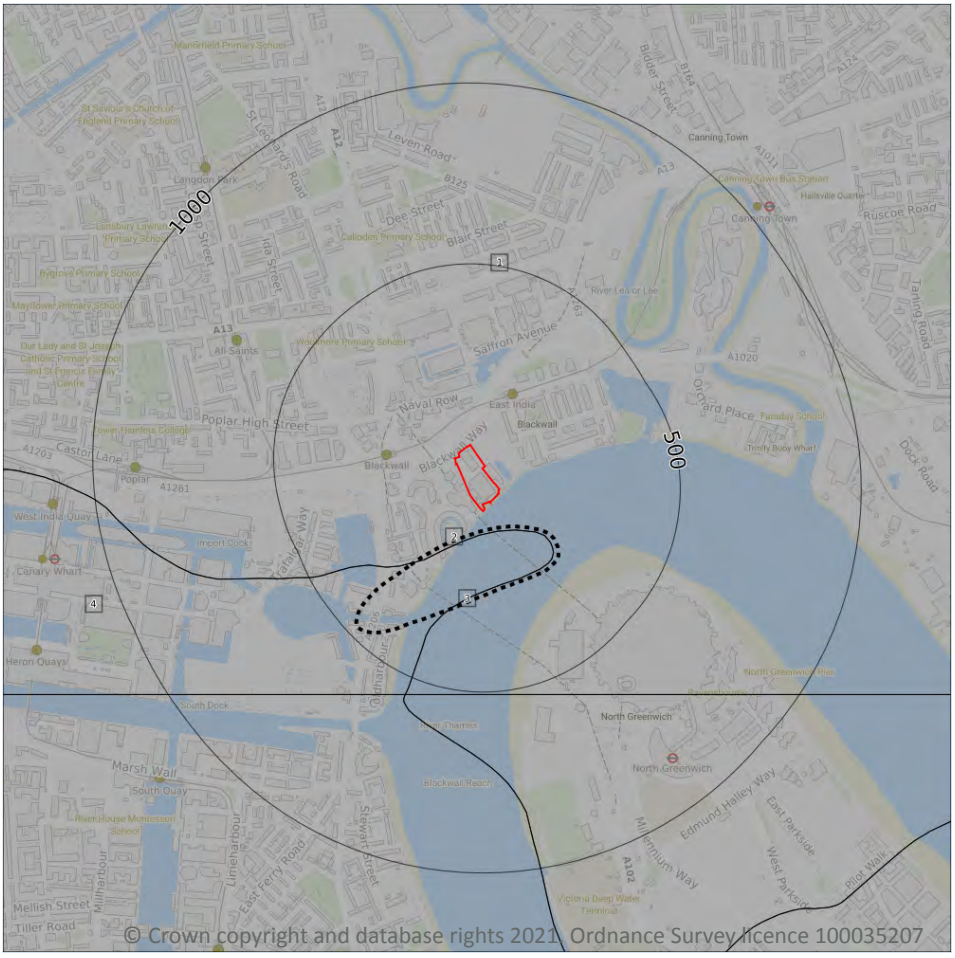
14.4 Landslip (10k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m	2

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 135**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**LC-CLAY**	**London Clay Formation - Clay**	**Eocene Epoch**
4	63m S	LMBE-CLAY	Lambeth Group - Clay	Paleocene Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	2

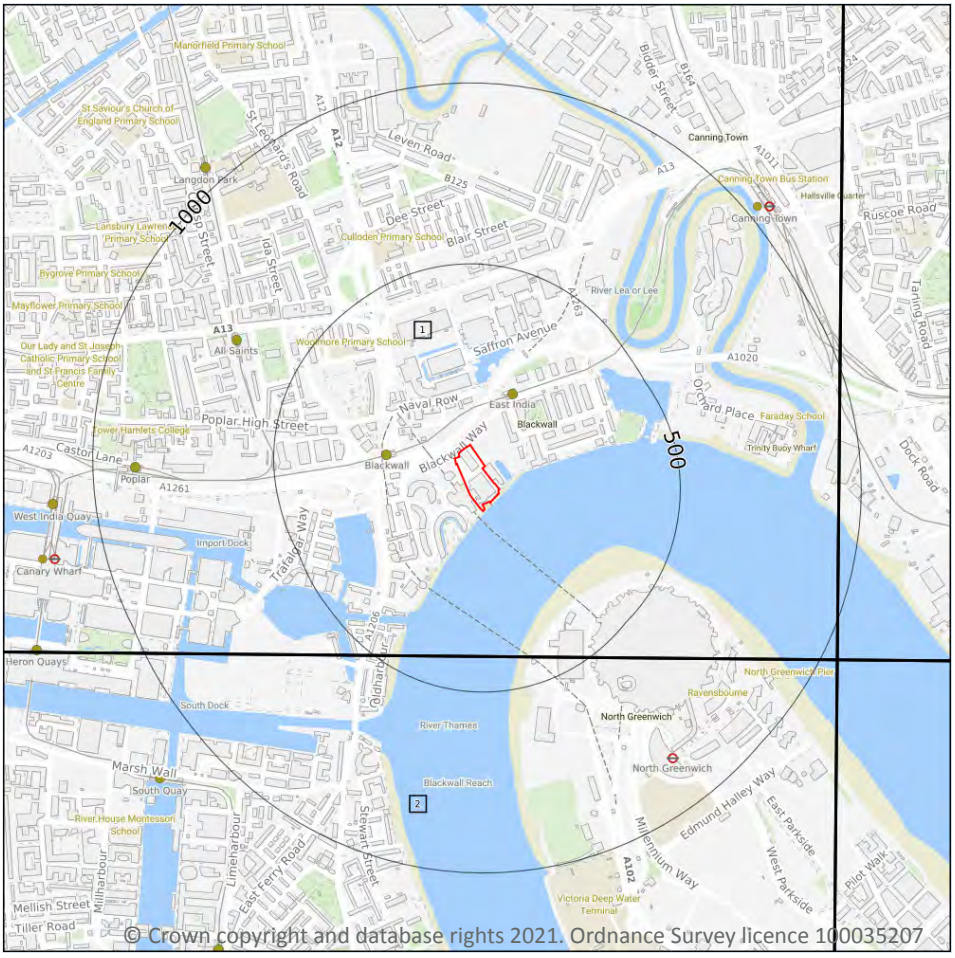
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 135**

ID	Location	Category	Description
2	53m S	LANDFORM	Hollow filled with Superficial Deposits
3	55m SE	LANDFORM	Hollow filled with Superficial Deposits

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	2

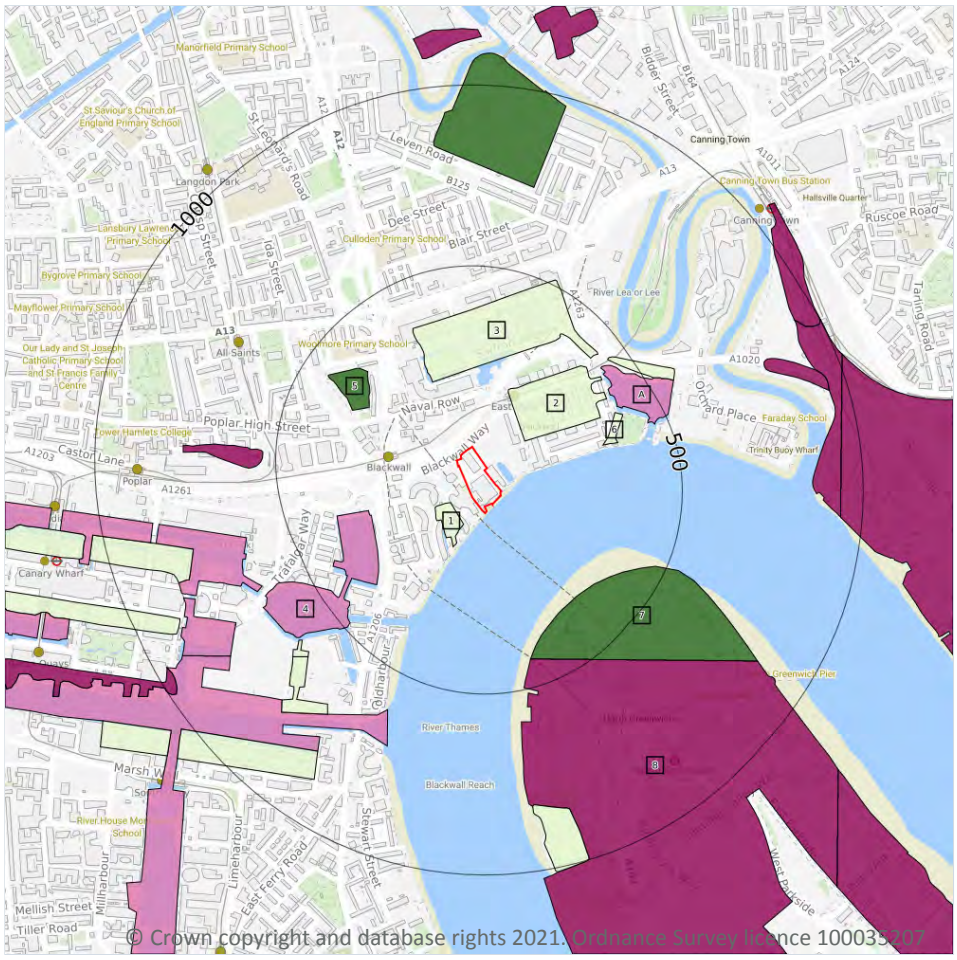
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 137**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW256_north_london_v4**
2	402m S	Full	Full	Full	Full	EW270_south_london_v4

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



15.2 Artificial and made ground (50k)

Records within 500m	10

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 138**

ID	Location	LEX Code	Description	Rock description
1	59m SW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	129m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	205m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
4	275m SW	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

ID	Location	LEX Code	Description	Rock description
5	283m NW	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
6	308m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
7	341m SE	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
A	396m NE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
8	422m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
A	445m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

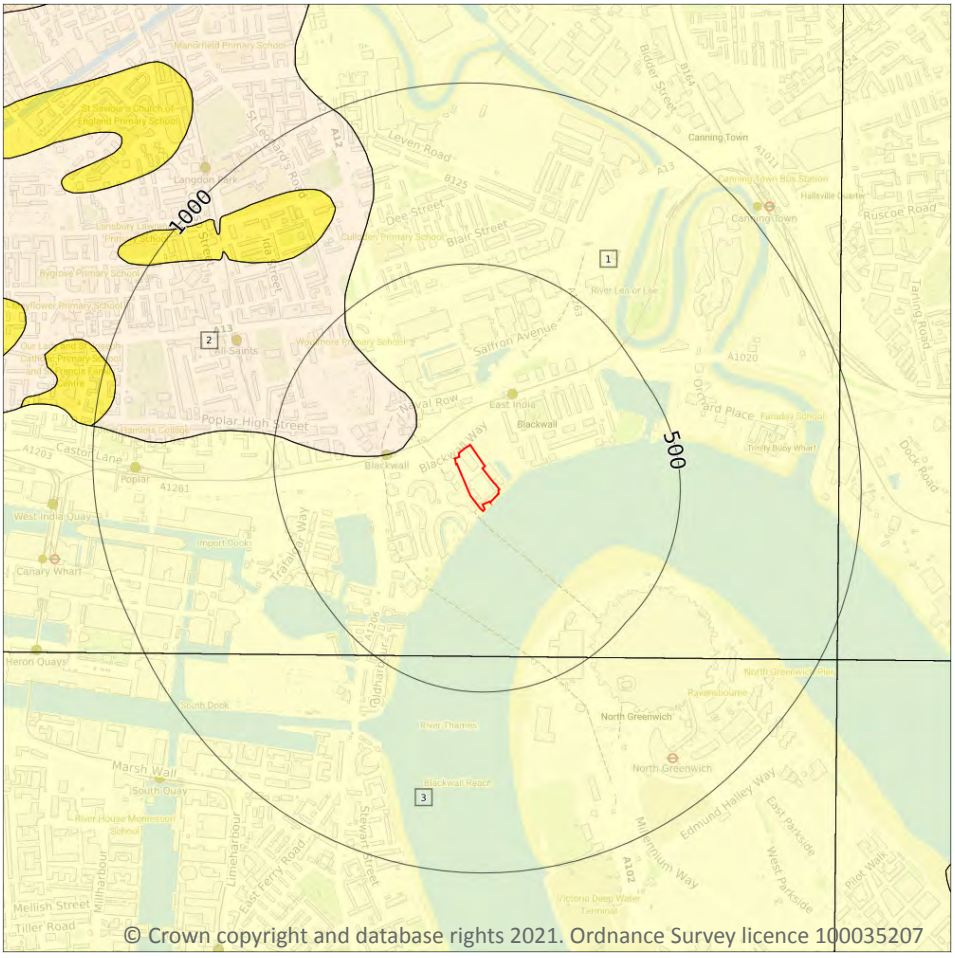
15.3 Artificial ground permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m **3**

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 140**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**ALV-XCZSP**	**ALLUVIUM**	**CLAY, SILT, SAND AND PEAT**
2	133m NW	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL
3	402m S	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**Moderate**	**Very Low**

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

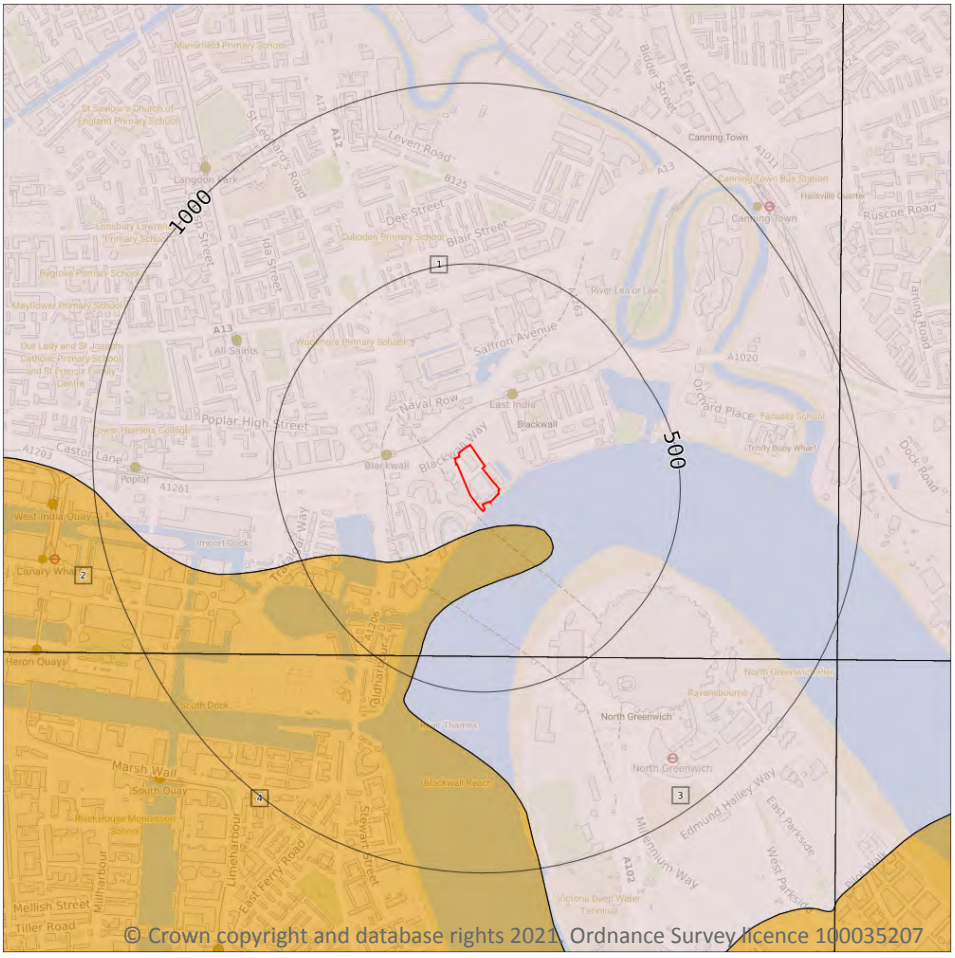
15.7 Landslip permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m **4**

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 142**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**LC-XCZS**	**LONDON CLAY FORMATION - CLAY, SILT AND SAND**	**YPRESIAN**
2	49m S	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
3	402m S	LC-XCZ	LONDON CLAY FORMATION - CLAY AND SILT	YPRESIAN
4	437m SW	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	**2**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**Moderate**	**Very Low**
49m W	Mixed	Moderate	Very Low

This data is sourced from the British Geological Survey.

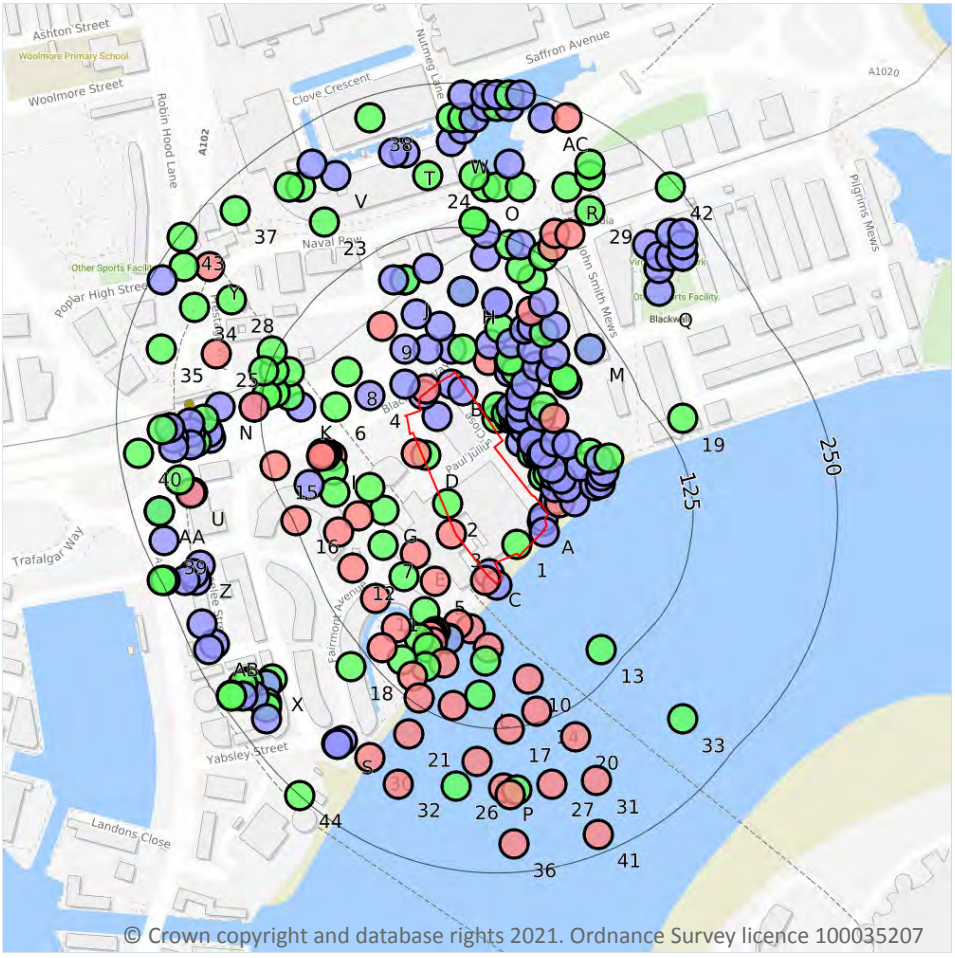
15.10 Bedrock faults and other linear features (50k)

Records within 500m	**0**

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	287

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 144**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	538677 180541	BLACKWALL YARD 11	16.0	N	1034942
2	On site	538617 180576	BLACKWALL YARD 9	13.5	N	1034940

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	**On site**	**538699 180561**	**BLACKWALL YARD TP 11**	**2.0**	**N**	**1034954**
A	**On site**	**538700 180565**	**BLACKWALL YARD TP 12**	**2.0**	**N**	**1034955**
B	**On site**	**538620 180680**	**NAVEL ROW TP K**	**3.0**	**N**	**14772318**
B	**On site**	**538608 180652**	**BLACKWALL YARD TP 4**	**1.0**	**N**	**1034952**
B	**On site**	**538630 180674**	**BLACKWALL YARD TP 34**	**2.0**	**N**	**1034973**
C	**On site**	**538653 180516**	**BLACKWALL YARD BH10**	**8.0**	**N**	**1034941**
D	**On site**	**538598 180618**	**BLACKWALL YARD 8**	**14.6**	**N**	**1034939**
B	0m NW	538596 180671	BLACKWALL YARD 1	6.0	N	1034930
C	1m SE	538660 180506	BLACKWALL YARD TP 1	0.0	N	1034951
A	1m SE	538701 180552	BLACKWALL YARD TP 10	1.0	N	1034953
B	3m NW	538598 180676	BLACKWALL YARD 1A	31.5	N	1034931
3	4m SW	538620 180550	BLACKWALL TUNNEL BH4	33.0	N	1033868
D	4m SW	538590 180620	BLACKWALL TUNNEL BH3	33.0	N	1033867
C	4m SW	538650 180510	BLACKWALL TUNNEL BH4A	33.0	N	1033869
A	7m NE	538660 180650	BLACKWALL LOWER DRY DOCKS 1	15.0	N	13600091
A	12m NE	538710 180580	BLACKWALL YARD DRY DOCK B5A	20.0	N	13576177
A	12m NE	538710 180580	BLACKWALL YARD DRY DOCK B5	5.95	N	13576176
A	13m NE	538660 180660	BLACKWALL YARD DRY DOCK B3	20.0	N	13576169
A	14m NE	538714 180577	BLACKWALL YARD 16	31.0	N	1034948
A	15m NE	538670 180650	BLACKWALL LOWER DRY DOCKS TP 1	3.4	N	13600094
A	16m E	538680 180630	BLACKWALL YARD DRY DOCK TP 3	1.05	N	13576193
A	16m NE	538668 180654	BLACKWALL LOWER DOCK 1	15.0	N	13576644
B	18m NW	538580 180680	NAVEL ROW TP D	3.5	N	14772304
A	18m NE	538700 180600	BLACKWALL YARD DRY DOCK TP 5	5.0	N	13576198
A	18m NE	538700 180600	BLACKWALL LOWER DRY DOCKS 2	17.6	N	13600093
A	19m NE	538710 180590	BLACKWALL LOWER DRY DOCKS TP 2	3.4	N	13600096
A	19m NE	538674 180651	BLACKWALL YARD 14	13.5	N	1034946
A	20m N	538620 180710	NAVEL ROW TP L	2.0	N	14772319

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	21m N	538630 180710	LEAMOUTH ROAD - LONDON 1	12.0	N	13594704
A	21m NE	538683 180641	BLACKWALL YARD TP 18	3.0	N	1034960
A	22m NE	538678 180650	BLACKWALL LOWER DOCK TP T1	3.4	N	13576646
A	22m NE	538672 180659	BLACKWALL YARD TP 19	3.0	N	1034961
A	23m NE	538690 180620	BLACKWALL YARD DRY DOCK B4A	20.0	N	13576174
A	23m NE	538704 180603	BLACKWALL LOWER DOCK 2	17.6	N	13576645
A	24m NE	538680 180650	BLACKWALL YARD DRY DOCK C2B	5.5	N	13576188
A	25m NE	538710 180600	BLACKWALL YARD DRY DOCK C1A	8.8	N	13576183
A	25m NE	538710 180600	BLACKWALL YARD DRY DOCK C1	7.6	N	13576181
A	25m NE	538727 180578	BLACKWALL YARD TP 14	2.0	N	1034956
A	26m E	538690 180630	BLACKWALL YARD DRY DOCK B4	3.8	N	13576171
A	26m NE	538695 180619	BLACKWALL YARD 15	15.5	N	1034947
A	27m NE	538720 180590	BLACKWALL YARD DRY DOCK C2C	5.3	N	13576191
A	27m E	538691 180629	BLACKWALL YARD TP 17	3.0	N	1034959
A	28m NE	538715 180598	BLACKWALL LOWER DOCK TP T2	3.4	N	13576647
A	28m NE	538698 180618	BLACKWALL YARD TP 16	3.0	N	1034958
A	28m NE	538707 180607	BLACKWALL YARD TP 15	4.0	N	1034957
A	29m NE	538652 180700	BLACKWALL YARD 2	31.45	N	1034932
A	29m NE	538680 180660	EAST INDIA DOCK PHASE IV TP 10	3.0	N	13601910
A	30m NW	538600 180710	NAVEL ROW TP B	2.8	N	14772355
A	30m NE	538700 180620	BLACKWALL YARD DRY DOCK C2A	4.95	N	13576185
A	35m NE	538680 180670	BLACKWALL YARD DRY DOCK TP 4	5.0	N	13576195
4	35m NW	538550 180670	NAVEL ROW TP C	3.5	N	14772303
A	38m NE	538670 180690	NAVEL ROW TP R	3.0	N	14772340
A	39m NE	538654 180714	BLACKWALL YARD TP 33	2.0	N	1034972
A	39m NE	538697 180652	BLACKWALL YARD TP 22	3.0	N	1034963
E	39m SW	538589 180533	A102 BLACKWALL TUNNEL R7	40.5	N	1034440
5	39m SW	538606 180509	A102 BLACKWALL TUNNEL R8	51.0	N	1034441

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	41m NW	538580 180710	NAVEL ROW TP E	3.5	N	14772305
A	42m N	538610 180730	NAVEL ROW TP M	3.0	N	14772320
A	43m NE	538670 180699	BLACKWALL YARD 12B	7.0	N	1034944
A	44m NE	538676 180691	BLACKWALL YARD 3	12.0	N	1034933
A	44m NE	538684 180680	BLACKWALL YARD TP 35	2.0	N	1034974
A	44m NE	538710 180630	BLACKWALL YARD DRY DOCK C2	4.0	N	13576184
A	45m NE	538671 180700	BLACKWALL YARD 12A	21.6	N	1034943
F	45m SW	538637 180468	A102 BLACKWALL TUNNEL R12	41.55	N	1034447
A	46m NE	538700 180660	BLACKWALL YARD DRY DOCK B6	20.0	N	13576178
A	47m NE	538744 180592	BLACKWALL YARD TP 25	1.0	N	1034966
A	47m NE	538732 180608	BLACKWALL YARD TP 24	2.0	N	1034965
F	48m SW	538626 180472	A102 BLACKWALL TUNNEL R12A	57.7	N	1034448
A	49m NE	538709 180650	BLACKWALL YARD 18A	44.5	N	1034949
G	49m SW	538562 180571	A102 BLACKWALL TUNNEL S6	30.0	N	1034402
A	50m NE	538720 180627	BLACKWALL YARD TP 23	2.0	N	1034964
A	52m NE	538749 180594	BLACKWALL YARD TP 26A	0.0	N	1034968
G	53m SW	538550 180590	DUPLICATION OF BLACKWALL TUNNEL BH1	24.38	N	1033896
A	54m NE	538662 180728	BLACKWALL YARD 4	11.8	N	1034934
A	54m NE	538672 180715	BLACKWALL YARD TP 36	2.0	N	1034975
F	55m S	538652 180452	A102 BLACKWALL TUNNEL S10	30.05	N	1034406
A	56m NE	538750 180600	BLACKWALL YARD DRY DOCK TP 6	3.5	N	13576199
E	58m SW	538579 180513	A102 BLACKWALL TUNNEL RC2	11.0	N	1034486
A	60m NW	538590 180740	NAVEL ROW TP G	3.0	N	14772307
A	60m NE	538752 180604	BLACKWALL YARD TP 26	4.0	N	1034967
A	61m NE	538740 180620	BLACKWALL YARD DRY DOCK B7	20.0	N	13576179
A	61m NE	538694 180695	BLACKWALL YARD TP 20	3.0	N	1034962
6	61m W	538520 180660	DUPLICATION OF BLACKWALL TUNNEL BH3	21.03	N	1033898
7	62m SW	538561 180540	A102 BLACKWALL TUNNEL RC1	13.0	N	1034485

ID	Location	Grid reference	Name	Length	Confidential	Web link
F	62m SW	538597 180483	A102 BLACKWALL TUNNEL RC3	11.0	N	1034487
F	63m SW	538618 180460	A102 BLACKWALL TUNNEL RC6A	14.0	N	1034491
8	63m NW	538530 180690	DUPLICATION OF BLACKWALL TUNNEL BH2	24.38	N	1033897
A	63m NE	538748 180614	BLACKWALL YARD TP 27	2.0	N	1034969
F	63m SW	538618 180459	A102 BLACKWALL TUNNEL RC6	1.0	N	1034490
A	66m NE	538690 180710	NAVEL ROW TP V	2.8	N	14772345
F	66m SW	538606 180466	A102 BLACKWALL TUNNEL R10C	40.0	N	1034445
F	68m S	538650 180440	BLACKWALL TUNNEL BH5	19.0	N	1033870
A	68m NE	538706 180690	BLACKWALL YARD 13A	5.5	N	1034945
9	69m NW	538560 180730	BECKTON 11 EXTENSION D.L.R S1/2	35.0	N	15624167
F	69m SW	538604 180464	A102 BLACKWALL TUNNEL R10B	40.0	N	1034444
A	70m NE	538683 180727	BLACKWALL YARD TP 32	2.0	N	1034971
A	70m NE	538660 180750	NAVEL ROW TP S	3.0	N	14772341
A	70m NE	538660 180750	NAVEL ROW TP T	0.9	N	14772342
H	70m N	538630 180760	NAVEL ROW 1	15.0	N	14772352
H	70m N	538630 180760	NAVEL ROW TP D	1.5	N	14772357
I	70m W	538517 180617	A102 BLACKWALL TUNNEL SBP2	30.7	N	1034494
A	71m NE	538756 180616	BLACKWALL YARD 19	30.0	N	1034950
G	71m SW	538540 180566	A102 BLACKWALL TUNNEL SBP3	40.5	N	1034495
F	72m SW	538602 180462	A102 BLACKWALL TUNNEL R10A	53.72	N	1034443
I	73m W	538513 180620	A102 BLACKWALL TUNNEL R4C	40.0	N	1034437
I	74m SW	538518 180605	A102 BLACKWALL TUNNEL R100	25.5	N	1034477
A	74m NE	538720 180680	NAVEL ROW TP W	-2.0	N	14772347
F	74m SW	538604 180457	A102 BLACKWALL TUNNEL SBP4	39.45	N	1034496
A	74m NE	538718 180684	BLACKWALL YARD 5	12.0	N	1034935
A	75m NE	538718 180685	BLACKWALL YARD 5A	21.0	N	1034936
I	76m W	538511 180618	A102 BLACKWALL TUNNEL R4B	40.0	N	1034436
I	77m W	538509 180620	Crossrail CH5R	52.0	N	20655199

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	77m NE	538690 180730	NAVEL ROW TP A	2.8	N	14772353
I	79m W	538508 180617	A102 BLACKWALL TUNNEL R4A	50.55	N	1034435
A	80m NE	538710 180705	BLACKWALL YARD TP 31	2.0	N	1034970
F	80m SW	538592 180460	A102 BLACKWALL TUNNEL RC4	13.7	N	1034488
F	81m SW	538600 180452	A102 BLACKWALL TUNNEL SBP4A	23.0	N	1034497
F	82m SW	538614 180439	A102 BLACKWALL TUNNEL R13	45.0	N	1034449
I	83m SW	538519 180586	A102 BLACKWALL TUNNEL S5	30.0	N	1034401
A	83m NE	538701 180724	BLACKWALL YARD 6	30.0	N	1034937
A	84m NE	538689 180743	Crossrail CH6R	55.45	N	20655202
10	86m S	538687 180425	A102 BLACKWALL TUNNEL R301	44.6	N	1034482
11	89m SW	538555 180494	A102 BLACKWALL TUNNEL S8R	52.5	N	1034404
F	90m SW	538573 180469	A102 BLACKWALL TUNNEL S9	40.0	N	1034405
J	91m NW	538580 180770	NAVEL ROW TP C	3.0	N	14772356
J	91m NW	538580 180770	DLR BECKTON EXTENSION BH19	20.0	N	14287939
K	91m W	538490 180660	NAVEL ROW TP B	3.5	N	14772302
G	92m SW	538523 180552	A102 BLACKWALL TUNNEL R6	40.15	N	1034439
J	93m N	538600 180780	NAVEL ROW TP J	1.4	N	14772309
12	93m SW	538535 180521	A102 BLACKWALL TUNNEL S7	40.0	N	1034403
A	94m NE	538710 180730	NAVEL ROW TP X	1.0	N	14772348
F	95m SW	538598 180435	A102 BLACKWALL TUNNEL RC7	14.0	N	1034492
J	96m NW	538570 180770	NAVEL ROW TP H	2.2	N	14772308
L	97m S	538645 180411	A102 BLACKWALL TUNNEL R16	23.1	N	1034452
A	97m NE	538700 180750	NAVEL ROW TP Y	1.0	N	14772350
I	98m SW	538497 180593	A102 BLACKWALL TUNNEL S48	10.0	N	1034513
K	102m W	538480 180670	DLR BECKTON EXTENSION BH21	20.0	N	14287941
A	103m N	538650 180790	NAVEL ROW TP U	0.8	N	14772344
F	104m SW	538578 180441	A102 BLACKWALL TUNNEL RC5	14.6	N	1034489
A	105m NE	538690 180771	BLACKWALL YARD 7	11.8	N	1034938

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	106m NE	538680 180780	LEAMOUTH ROAD - LONDON 2	11.5	N	13594707
13	106m SE	538750 180450	BLACKWALL TUNNEL BH11	25.6	N	1033871
M	107m NE	538740 180710	BRUNSWICK POWER STATION 9	15.5	N	13576282
M	107m NE	538740 180710	BRUNSWICK POWER STATION 9A	3.5	N	13576279
K	107m W	538480 180690	BLACKWALL TUNNEL BH2	19.0	N	1033866
F	108m SW	538587 180427	A102 BLACKWALL TUNNEL R11	55.53	N	1034446
F	110m SW	538560 180452	A102 BLACKWALL TUNNEL R9	40.0	N	1034442
L	111m S	538622 180402	A102 BLACKWALL TUNNEL R15	41.35	N	1034451
K	114m W	538468 180672	A102 BLACKWALL TUNNEL S4	26.83	N	1034400
14	115m S	538694 180397	A102 BLACKWALL TUNNEL R17	55.7	N	1034453
A	119m NE	538670 180800	DLR BECKTON EXTENSION BH18	20.0	N	14287936
15	120m W	538468 180609	A102 BLACKWALL TUNNEL R3	50.67	N	1034434
F	120m SW	538592 180408	A102 BLACKWALL TUNNEL R14	40.4	N	1034450
K	120m W	538467 180691	A102 BLACKWALL TUNNEL WRP1	29.9	N	1034512
K	122m W	538460 180670	E. Z. ROAD PHASE 6 216	15.0	N	13576345
16	122m SW	538486 180562	A102 BLACKWALL TUNNEL R5	40.4	N	1034438
A	123m N	538650 180810	NAVEL ROW TP E	3.0	N	14772358
A	124m NE	538680 180800	NAVEL ROW TP Z	2.3	N	14772351
A	126m NE	538700 180790	BRUNSWICK POWER STATION 1	16.0	N	13576262
17	126m S	538670 180381	A102 BLACKWALL TUNNEL R303	45.9	N	1034484
K	128m NW	538465 180708	A102 BLACKWALL TUNNEL S3	26.0	N	1034399
K	128m W	538458 180691	A102 BLACKWALL TUNNEL SBP1	28.5	N	1034493
K	131m W	538450 180660	NAVEL ROW TP A	4.0	N	14772296
K	131m W	538450 180660	BECKTON 11 EXTENSION D.L.R S1/1A	35.0	N	15624166
A	131m N	538640 180820	EAST INDIA DOCK GROUND WATER SURVEY 03	11.2	N	13736806
A	131m N	538640 180820	EAST INDIA DOCK- GROUND WATER SURVEY 03	11.2	N	13601823
A	138m NE	538708 180799	Crossrail CH7RA	60.2	N	20655222
18	142m SW	538533 180435	A102 BLACKWALL TUNNEL PT1P	19.0	N	1034498

ID	Location	Grid reference	Name	Length	Confidential	Web link
19	142m NE	538820 180650	BRUNSWICK POWER STATION 8	17.0	N	13576276
A	148m NE	538710 180810	BECKTON 11 EXTENSION D.L.R S1/3	40.0	N	15624168
20	149m SE	538728 180375	A102 BLACKWALL TUNNEL R302	45.0	N	1034483
21	151m SW	538583 180377	A102 BLACKWALL TUNNEL R300	39.55	N	1034481
22	155m S	538642 180353	A102 BLACKWALL TUNNEL R18	59.35	N	1034454
A	155m NE	538723 180809	CROSSRAIL BH CH7R	60.2	N	19411746
N	161m W	538420 180660	BECKTON 11 EXTENSION D.L.R S1/1	1.5	N	15624165
O	162m N	538650 180850	EAST INDIA DOCK- GROUND WATER SURVEY 02	11.0	N	13601822
O	164m N	538660 180850	EAST INDIA DOCK GROUND WATER SURVEY 02	11.0	N	13736803
O	170m N	538680 180850	EAST INDIA DOCK 9	15.0	N	13576514
N	170m W	538412 180633	PRESTONS ROAD FLYOVER 1	9.5	N	13473099
O	171m N	538640 180860	EAST INDIA DOCK GROUND WATER SURVEY 01	11.0	N	13736798
23	171m NW	538510 180820	EAST INDIA DOCK 6	15.0	N	13576511
N	171m W	538410 180638	PRESTONS ROAD FLYOVER 4	9.1	N	13473102
24	171m N	538600 180860	EAST INDIA DOCK- GROUND WATER SURVEY 01	11.0	N	13601820
25	172m W	538417 180706	A102 BLACKWALL TUNNEL R2	51.15	N	1034433
N	175m W	538406 180649	PRESTONS ROAD FLYOVER 7/7A	10.5	N	13473105
P	177m S	538665 180330	A102 BLACKWALL TUNNEL S14RB	30.8	N	1034412
26	178m S	538624 180332	A102 BLACKWALL TUNNEL S13	20.5	N	1034409
P	179m S	538677 180329	A102 BLACKWALL TUNNEL S14RA	16.0	N	1034411
27	179m S	538707 180334	A102 BLACKWALL TUNNEL R19	38.5	N	1034455
28	181m NW	538430 180753	A102 BLACKWALL TUNNEL S1	26.3	N	1034397
N	182m W	538400 180630	DLR BECKTON EXTENSION BH22	20.0	N	14287942
29	182m NE	538740 180830	DLR BECKTON EXTENSION BH17	20.0	N	14287935
P	182m S	538671 180325	A102 BLACKWALL TUNNEL S14R	45.0	N	1034410
Q	185m NE	538800 180760	OPEN SPACE VIRGINIA QUAY LONDON E14 WS10	1.1	N	18359326
30	186m SW	538550 180357	A102 BLACKWALL TUNNEL S11	30.05	N	1034407
O	186m N	538670 180870	EAST INDIA DOCK LAKE TP 1	4.0	N	13601783

ID	Location	Grid reference	Name	Length	Confidential	Web link
N	186m W	538395 180638	PRESTONS ROAD FLYOVER 5	9.0	N	13473103
N	187m W	538394 180646	PRESTONS ROAD FLYOVER 8	8.2	N	13473106
R	187m NE	538720 180850	LEAMOUTH ROAD SEWER 6	15.0	N	13602944
N	187m W	538395 180627	PRESTONS ROAD FLYOVER 2/2A	5.3	N	13473100
S	190m SW	538526 180371	Crossrail SN4	6.0	N	20655221
31	191m SE	538746 180337	A102 BLACKWALL TUNNEL R20	37.5	N	1034456
32	193m SW	538574 180334	A102 BLACKWALL TUNNEL S12	30.45	N	1034408
T	195m N	538580 180880	EAST INDIA DOCK PHASE II 4	9.5	N	13602331
U	195m W	538396 180586	PRESTONS ROAD POPLAR L36	5.03	N	1032521
S	195m SW	538521 180369	Crossrail SN4B	6.0	N	20655224
S	195m SW	538522 180368	Crossrail SN4A	1.9	N	20655223
Q	196m NE	538800 180780	OPEN SPACE VIRGINIA QUAY LONDON E14 WS4	3.0	N	18359297
U	196m W	538395 180585	CROSSRAIL BH CH4R	51.0	N	19411745
T	197m N	538570 180880	EAST INDIA DOCK PHASE II TP 16	-2.0	N	13602408
33	198m SE	538820 180390	BLACKWALL TUNNEL BH12	18.0	N	1033872
V	199m NW	538520 180860	EAST INDIA DOCK PHASE II TP 10	-2.0	N	13602352
Q	199m NE	538790 180800	OPEN SPACE VIRGINIA QUAY LONDON E14 WS5	1.1	N	18359314
W	200m N	538620 180890	EAST INDIA DOCK PHASE II TP 17	-2.0	N	13602409
N	201m W	538380 180633	PRESTONS ROAD FLYOVER 6	8.2	N	13473104
Q	202m NE	538800 180790	OPEN SPACE VIRGINIA QUAY LONDON E14 WS3	3.0	N	18359292
X	202m SW	538465 180425	PRESTONS ROAD SITE C 3	15.0	N	13473114
N	202m W	538380 180625	PRESTONS ROAD FLYOVER 3	8.4	N	13473101
U	203m W	538385 180597	BLACKWALL TUNNEL PRESTONS RD POPLAR L91	25.6	N	1032489
N	204m W	538377 180642	PRESTONS ROAD FLYOVER 9	7.55	N	13473107
34	205m NW	538398 180746	A102 BLACKWALL TUNNEL S2	26.9	N	1034398
R	206m NE	538740 180860	EAST INDIA DOCK- GROUND WATER SURVEY 29	11.0	N	13601879
R	206m NE	538740 180860	BRUNSWICK POWER STATION 2	15.0	N	13576265
V	207m NW	538490 180850	EAST INDIA IMPORT DOCK POPLAR BH6	24.38	N	1033715

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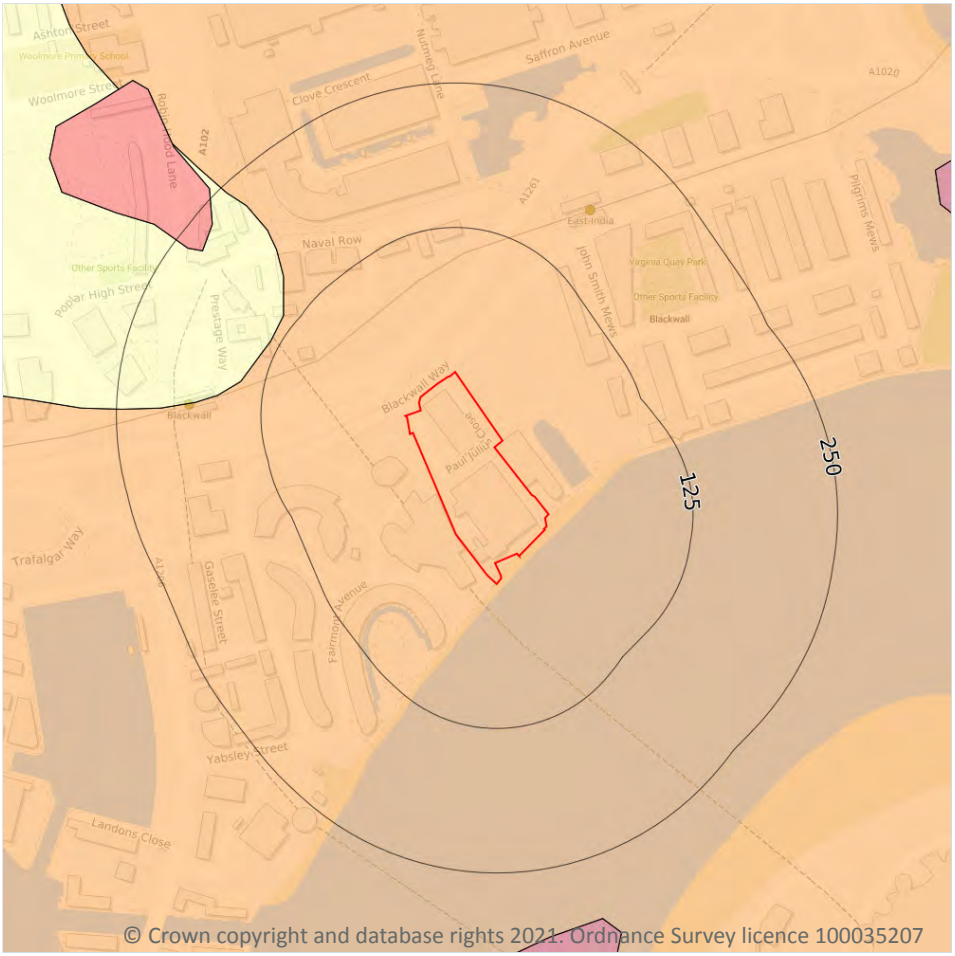
X	209m SW	538460 180420	PRESTONS ROAD SITE C 3	15.0	N	13576948
X	209m SW	538460 180420	PRESTONS ROAD SITE C TP 1	3.0	N	13602604
W	210m N	538630 180900	EAST INDIA DOCK HI	3.9	N	13594658
Q	210m NE	538810 180790	OPEN SPACE VIRGINIA QUAY LONDON E14 WS2	5.0	N	18359290
N	211m W	538370 180640	E. Z. ROAD PHASE 6 207	17.5	N	13576338
Y	213m NW	538411 180781	A102 BLACKWALL TUNNEL R1	50.15	N	1034432
V	213m NW	538480 180850	EAST INDIA DOCK PHASE II 2	15.0	N	13602312
Z	214m SW	538403 180523	PRESTONS ROAD/YABSLEY STREET 1	2.0	N	13473016
R	214m NE	538740 180870	EAST INDIA DOCK GROUND WATER SURVEY 29	11.2	N	13736850
V	218m NW	538500 180870	EAST INDIA DOCK PHASE II TP 11	-2.0	N	13602353
Q	218m NE	538820 180790	OPEN SPACE VIRGINIA QUAY LONDON E14 WS9	1.1	N	18359324
Q	218m NE	538820 180790	OPEN SPACE VIRGINIA QUAY LONDON E14 WS8	1.1	N	18359322
X	219m SW	538460 180404	PRESTONS ROAD SITE C 1	16.0	N	13473111
35	219m W	538369 180710	LUMSDEN ST & BEDFORD ST POPLAR L77	18.89	N	1032488
W	220m N	538620 180910	EAST INDIA DOCK- GROUND WATER SURVEY 04	12.3	N	13601825
W	220m N	538630 180910	EAST INDIA DOCK GROUND WATER SURVEY 04	12.5	N	13736808
X	220m SW	538445 180422	PRESTONS ROAD SITE C 2	17.0	N	13473113
W	220m N	538640 180910	EAST INDIA DOCK BE7	2.75	N	13576322
X	221m SW	538460 180400	PRESTONS ROAD SITE C 1	16.0	N	13576946
Q	222m NE	538810 180810	OPEN SPACE VIRGINIA QUAY LONDON E14 WS6	0.9	N	18359316
Z	222m SW	538400 180510	PRESTONS ROAD - YABSLEY ROAD 1	2.0	N	13596853
Z	222m SW	538397 180516	PRESTONS ROAD/YABSLEY STREET TP A	1.0	N	13473023
X	223m SW	538450 180410	PRESTONS ROAD SITE C TP 3	2.45	N	13602611
Q	224m NE	538820 180800	OPEN SPACE VIRGINIA QUAY LONDON E14 WS1	2.3	N	18359287
36	225m S	538674 180282	A102 BLACKWALL TUNNEL S15R	41.0	N	1034413
X	225m SW	538440 180420	PRESTONS ROAD SITE C 2	17.0	N	13576947
AA	226m W	538368 180570	MAIN DRAINAGE PHASE 1 54D	1.0	N	1034575
AA	226m W	538368 180570	MAIN DRAINAGE PHASE 1 54C	1.0	N	1034574

ID	Location	Grid reference	Name	Length	Confidential	Web link
AA	226m W	538368 180570	MAIN DRAINAGE PHASE 1 54E	15.0	N	1034576
X	227m SW	538460 180390	PRESTONS ROAD SITE C TP 4	3.0	N	13602614
37	228m NW	538433 180830	A102 BLACKWALL TUNNEL S100	27.0	N	1034426
AB	230m SW	538415 180455	PRESTONS ROAD/YABSLEY STREET 4	1.0	N	13473019
Q	230m NE	538820 180810	OPEN SPACE VIRGINIA QUAY LONDON E14 WS7	1.0	N	18359320
Y	231m NW	538389 180781	HIGH ST POPLAR & ROBIN HOOD POPLAR L105	18.24	N	1032535
Z	231m SW	538390 180510	PRESTONS RD HOUSING SITE POPLAR	3.96	N	1033048
X	231m SW	538440 180410	PRESTONS ROAD SITE C TP 2	3.2	N	13602608
W	231m N	538650 180920	EAST INDIA DOCK BE9	9.0	N	13576325
38	232m N	538550 180910	EAST INDIA DOCK 7	15.0	N	13576512
39	232m SW	538372 180544	PRESTONS ROAD HIGHWAY IMPROVEMENT PHASE 1 TP 9	1.5	N	13576718
AB	232m SW	538405 180472	PRESTONS ROAD/YABSLEY STREET TP B	1.0	N	13473024
40	233m W	538350 180620	E. Z. ROAD PHASE 6 206	17.5	N	13576336
W	233m N	538660 180920	BECKTON 11 EXTENSION D.L.R LS/R3	15.0	N	15624159
AC	233m N	538700 180910	EAST INDIA DOCK LAKE TP 2	4.0	N	13601784
41	234m S	538747 180290	A102 BLACKWALL TUNNEL R21	40.2	N	1034457
W	234m N	538670 180920	EAST INDIA DOCK H2	3.1	N	13594660
AB	236m SW	538410 180450	PRESTONS ROAD - YABSLEY ROAD 4	1.0	N	13598385
X	239m SW	538430 180411	PRESTONS ROAD/YABSLEY STREET 5	15.0	N	13473020
X	239m SW	538430 180410	PRESTONS ROAD - YABSLEY ROAD 5	15.0	N	13598392
W	240m N	538630 180930	EAST INDIA DOCK BE8	4.3	N	13576323
AC	240m NE	538720 180910	EAST INDIA IMPORT DOCK POPLAR BH7	30.78	N	1033716
W	241m N	538650 180930	EAST INDIA DOCK LAKE TP 4	3.8	N	13601786
Y	241m NW	538370 180770	NORTHERN DRAINAGE PHASE 2A 1C	7.5	N	13602631
W	243m N	538660 180930	EAST INDIA DOCK BE6	2.75	N	13576320
W	243m N	538660 180930	EAST INDIA DOCK BE5	3.0	N	13576319
W	244m N	538670 180930	BECKTON 11 EXTENSION D.L.R LS/R2	15.69	N	15624158
42	246m NE	538810 180850	DLR BECKTON EXTENSION BH16	20.0	N	14287932

ID	Location	Grid reference	Name	Length	Confidential	Web link
W	246m N	538680 180930	EAST INDIA DOCK BE4	9.0	N	13576318
Z	246m SW	538373 180510	PRESTONS ROAD/YABSLEY STREET 2	15.0	N	13473017
43	248m NW	538387 180807	A102 BLACKWALL TUNNEL S101	27.45	N	1034427
Z	249m SW	538370 180510	PRESTONS ROAD - YABSLEY ROAD 2	15.0	N	13596861
44	250m SW	538489 180324	BLACKWALL TUNNEL BLACKWALL L94	26.06	N	1032524

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	1

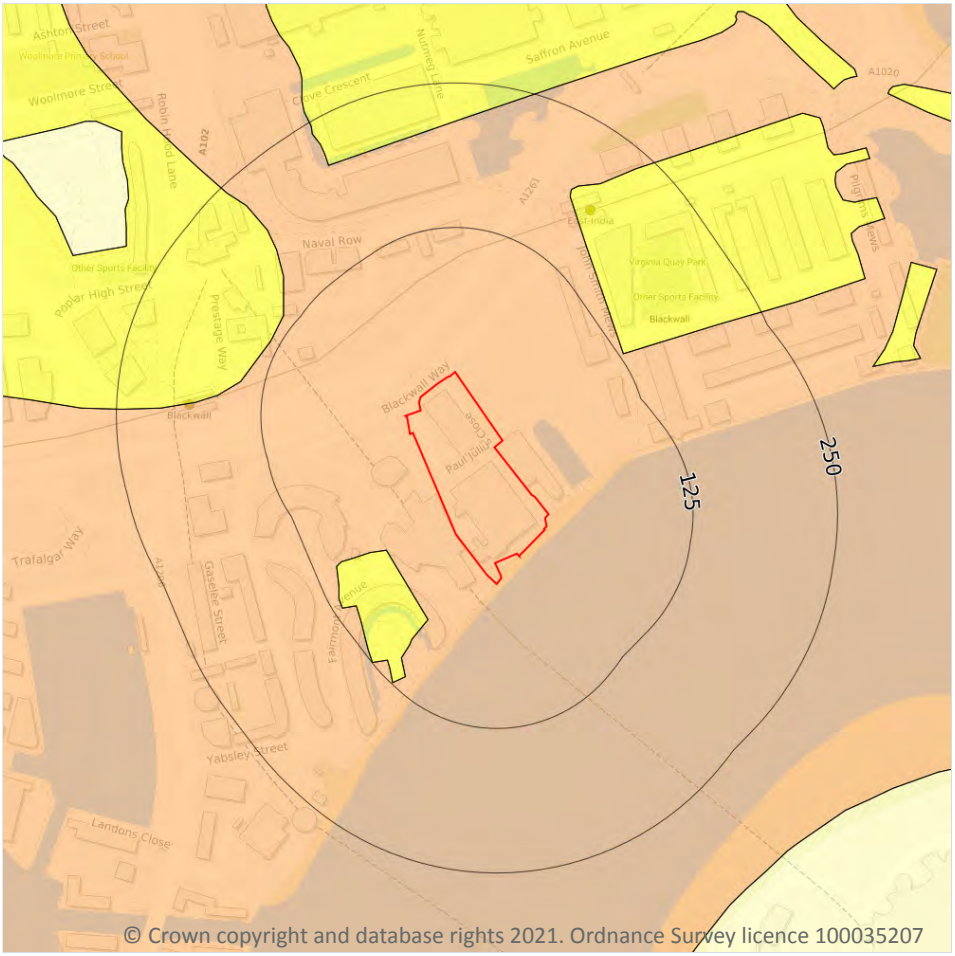
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 156**

Location	Hazard rating	Details
On site	**Low**	**Ground conditions predominantly medium plasticity.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m	1

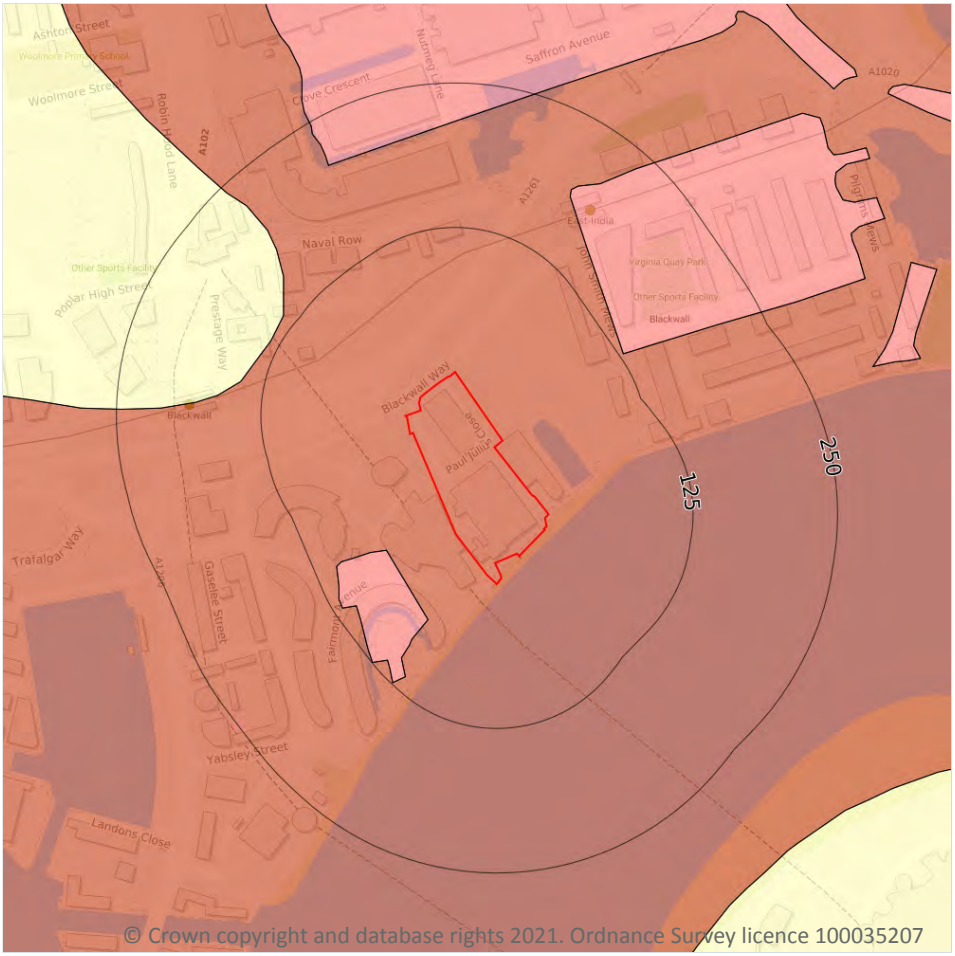
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 157**

Location	Hazard rating	Details
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m	1

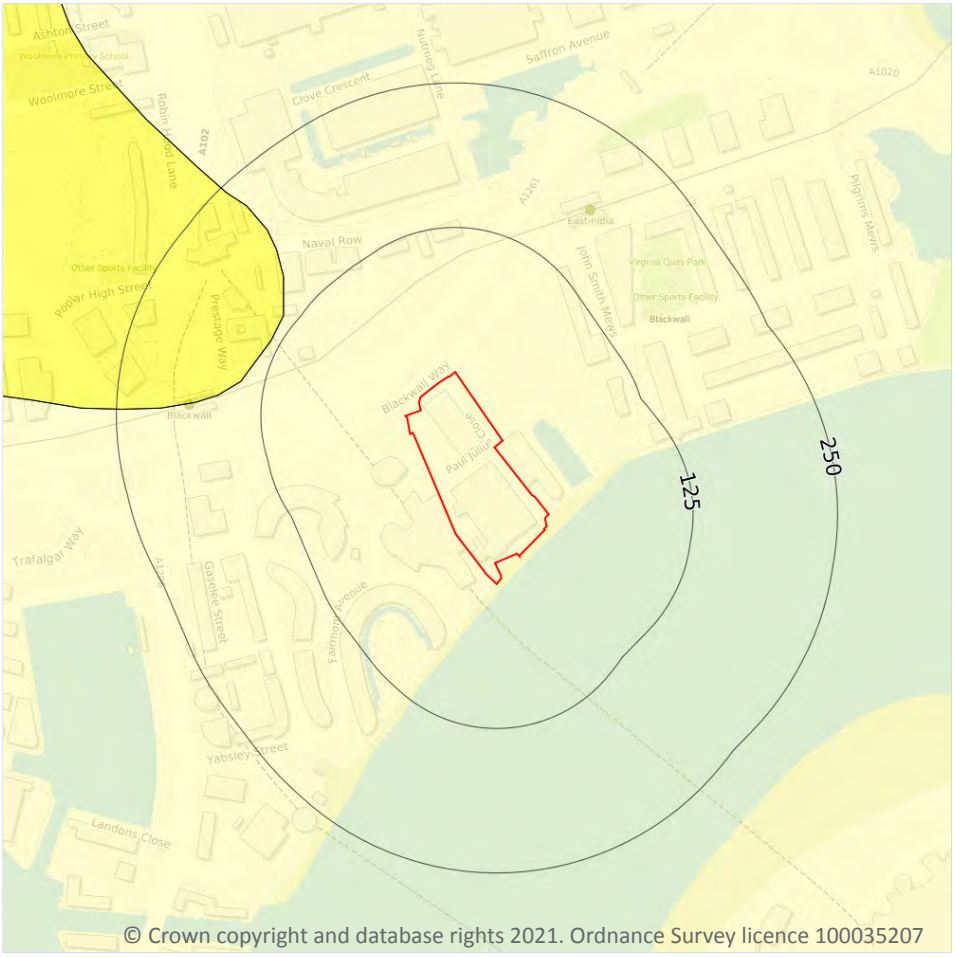
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 158**

Location	Hazard rating	Details
On site	**High**	**Highly compressible strata present. Significant constraint on land use depending on thickness.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m	1

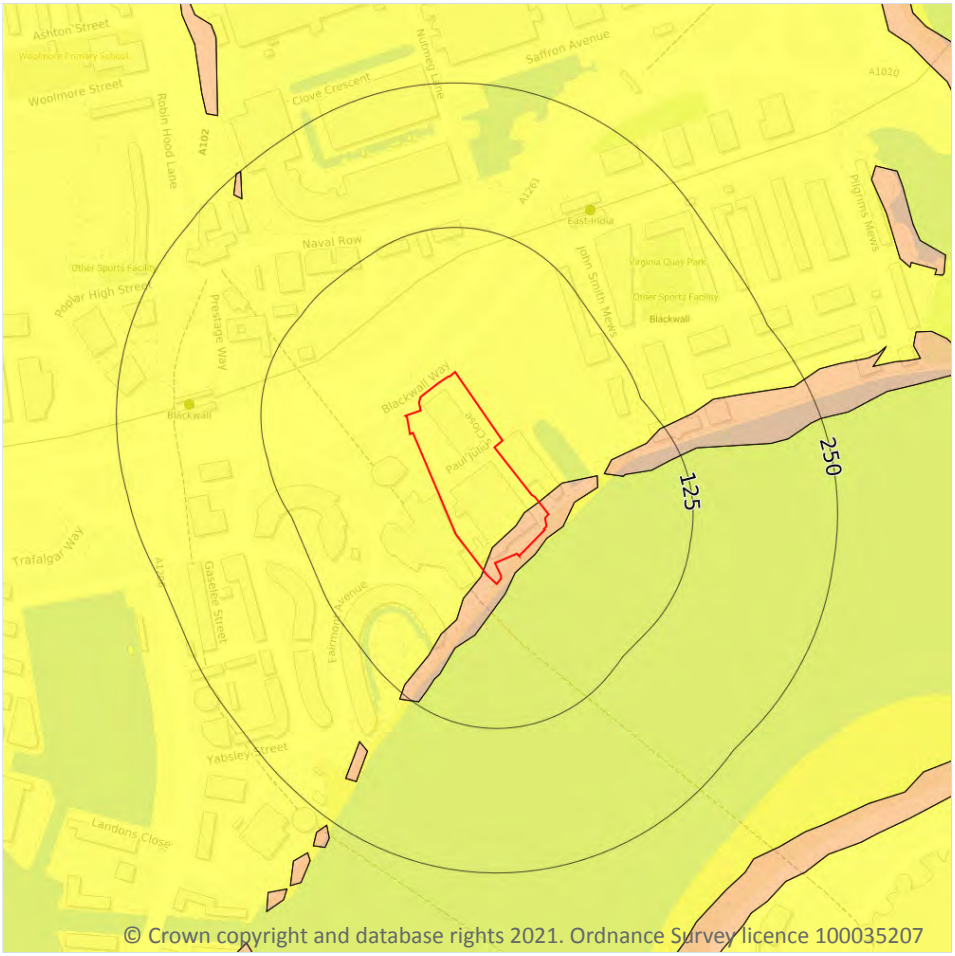
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 159**

Location	Hazard rating	Details
On site	**Negligible**	**Deposits with potential to collapse when loaded and saturated are believed not to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	2

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 160**

Location	Hazard rating	Details
On site	**Very low**	**Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.**

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks

Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

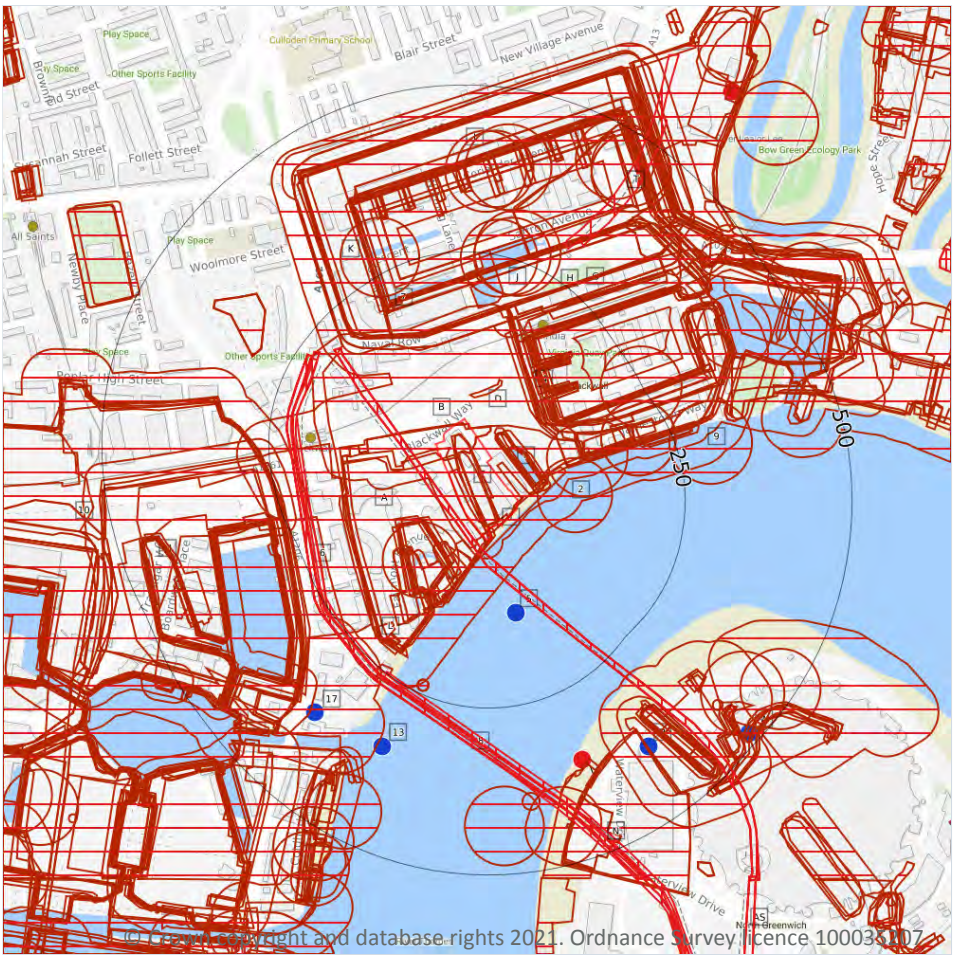
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 162**

Location	Hazard rating	Details
On site	**Negligible**	**Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.**

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

Natural cavities (Area)

Natural cavities (Point)

BritPits

Surface ground workings

Underground workings

Historical Mineral Planning Areas

Mining Cavities

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m	5

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

Features are displayed on the Mining, ground workings and natural cavities map on **page 164**

ID	Location	Details	Source
5	114m S	Type: Scour Hollows x 1 Superficial Geology: Alluvium Bedrock Geology: Lambeth Group	Simple Bibliography: Berry. F.G., (1979). Late Quaternary Scour-Hollows and Related Features in Central London. Quarterly Journal of Engineering Geology. Volume 12. pp. 9-29. Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
13	345m SW	Type: Scour Hollows x 1 Superficial Geology: Alluvium Bedrock Geology: Lambeth Group	Simple Bibliography: Berry. F.G., (1979). Late Quaternary Scour-Hollows and Related Features in Central London. Quarterly Journal of Engineering Geology. Volume 12. pp. 9-29. Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
17	364m SW	Type: Scour Hollows x 1 Superficial Geology: Alluvium Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Confidential Full Bibliography: Confidential Confidentiality: Data source to remain anonymous, data can be used freely
R	389m SE	Type: Scour Hollows x 1 Superficial Geology: Alluvium Bedrock Geology: Lambeth Group	Simple Bibliography: Berry. F.G., (1979). Late Quaternary Scour-Hollows and Related Features in Central London. Quarterly Journal of Engineering Geology. Volume 12. pp. 9-29. Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
W	482m SE	Type: Scour Hollows x 1 Superficial Geology: Alluvium Bedrock Geology: Chalk Group, Lambeth Group, London Clay Formation	Simple Bibliography: Confidential Full Bibliography: Confidential Confidentiality: Data source to remain anonymous, data can be used freely

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m	**1**

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 164**

ID	Location	Details	Description
V	355m SE	Name: Ordnance Wharf Address: Blackwall, Greenwich, LONDON, Greater London Commodity: Marine Sand & Gravel Status: Ceased	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m **101**

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 164**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Unspecified Wharf**	**1867**	**1:10560**
A	**On site**	**Dock**	**1894**	**1:10560**
A	**On site**	**Dock**	**1949**	**1:10560**
A	**On site**	**Dock**	**1938**	**1:10560**
A	**On site**	**Unspecified Dock**	**1896**	**1:10560**
A	**On site**	**Unspecified Dock**	**1899**	**1:10560**
A	**On site**	**Unspecified Dock**	**1899**	**1:10560**
B	**On site**	**Dock**	**1894**	**1:10560**
B	**On site**	**Docks**	**1920**	**1:10560**
C	**On site**	**Dock**	**1981**	**1:10000**
C	**On site**	**Docks**	**1955**	**1:10560**
C	**On site**	**Dock**	**1989**	**1:10000**
C	**On site**	**Dock**	**1973**	**1:10000**
D	**On site**	**Dock**	**1894**	**1:10560**
F	21m NE	Graving Dock	1867	1:10560
F	22m NE	Dock	1981	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
F	22m NE	Dock	1989	1:10000
F	26m NE	Docks	1955	1:10560
F	29m E	Dock	1994	1:10000
2	29m E	Graving Dock	1867	1:10560
F	30m NE	Graving Dock	1898	1:10560
3	35m NE	Unspecified Ground Workings	1949	1:10560
A	37m SW	Unspecified Wharf	1867	1:10560
A	39m SW	Dock	1894	1:10560
A	49m SW	Graving Dock	1898	1:10560
A	49m SW	Graving Docks	1867	1:10560
A	58m SW	Graving Dock	1867	1:10560
A	63m SW	Dock	1955	1:10560
D	63m NE	Unspecified Wharf	1894	1:10560
A	72m SW	Graving Dock	1867	1:10560
A	74m SW	Graving Docks	1898	1:10560
D	88m NE	Dock	1938	1:10560
G	90m NE	Unspecified Dock	1867	1:10560
G	90m NE	Export Dock	1896	1:10560
D	90m NE	Dock	1867	1:10560
D	90m NE	Unspecified Wharf	1938	1:10560
D	91m NE	Dock	1894	1:10560
4	92m NE	Quay	1867	1:10560
A	95m SW	Graving Docks	1867	1:10560
H	97m NE	Unspecified Dock	1899	1:10560
H	97m NE	Unspecified Dock	1899	1:10560
D	102m NE	Dock	1898	1:10560
A	108m SW	Graving Docks	1867	1:10560
D	111m NE	Dock	1949	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
D	112m NE	Quay	1867	1:10560
D	114m NE	Unspecified Wharf	1896	1:10560
D	116m NE	Unspecified Wharf	1894	1:10560
D	117m NE	Quay	1938	1:10560
I	117m N	Dock	1965	1:10560
I	117m N	Dock	1955	1:10560
I	117m N	Dock	1949	1:10560
I	118m N	Dock	1894	1:10560
D	119m NE	Unspecified Wharf	1867	1:10560
D	120m NE	Unspecified Wharf	1899	1:10560
D	120m NE	Unspecified Wharf	1899	1:10560
D	122m NE	Quay	1949	1:10560
D	122m NE	Unspecified Wharf	1949	1:10560
D	122m NE	Quay	1920	1:10560
I	135m N	Dock	1867	1:10560
I	137m N	Dock	1898	1:10560
I	139m N	Dock	1938	1:10560
J	139m N	Quay	1938	1:10560
I	140m N	Dock	1894	1:10560
D	147m NE	Unspecified Wharf	1989	1:10000
D	147m NE	Unspecified Wharf	1994	1:10000
6	150m W	Dock	1894	1:10560
G	153m NE	Quay	1938	1:10560
G	157m NE	Quay	1920	1:10560
K	160m NW	Quay	1938	1:10560
G	164m NE	Quay	1949	1:10560
I	167m NW	Import Dock	1896	1:10560
J	167m N	Pond	1994	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
D	170m NE	Unspecified Wharf	1965	1:10560
D	187m NE	Quay	1920	1:10560
L	188m SW	Unspecified Wharf	1867	1:10560
J	188m N	Quay	1955	1:10560
K	194m NW	Quay	1920	1:10560
J	196m N	Quay	1973	1:10000
J	197m N	Quay	1920	1:10560
7	197m NW	Quay	1949	1:10560
J	197m N	Quay	1949	1:10560
K	199m NW	Quay	1949	1:10560
G	200m NE	Quay	1867	1:10560
L	201m SW	Unspecified Wharf	1867	1:10560
D	205m NE	Unspecified Wharf	1894	1:10560
D	206m NE	Unspecified Wharf	1867	1:10560
M	207m W	Dock	1894	1:10560
D	209m NE	Unspecified Wharf	1920	1:10560
K	214m NW	Quay	1955	1:10560
L	228m SW	Unspecified Wharf	1994	1:10000
L	228m SW	Unspecified Wharf	1989	1:10000
L	228m SW	Unspecified Wharf	1973	1:10000
M	228m W	Docks	1955	1:10560
9	239m E	Unspecified Wharf	1955	1:10560
L	240m SW	Unspecified Wharf	1981	1:10000
M	242m W	Dock	1898	1:10560
M	245m W	Docks	1920	1:10560
10	245m W	Docks	1938	1:10560
M	248m W	Unspecified Dock	1899	1:10560
M	248m W	Unspecified Dock	1899	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
M	249m W	Unspecified Docks	1896	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	**26**

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 164**

ID	Location	Land Use	Year of mapping	Mapping scale
E	13m SW	Tunnel	1989	1:10000
E	13m SW	Tunnel	1973	1:10000
E	13m SW	Tunnel	1994	1:10000
E	13m SW	Tunnel	1981	1:10000
L	200m W	Tunnel	1940	1:10560
8	205m W	Tunnel	1915	1:10560
L	209m W	Tunnel	1989	1:10000
L	209m W	Tunnel	1973	1:10000
L	209m W	Tunnel	1965	1:10560
L	209m W	Tunnel	1994	1:10000
L	209m W	Tunnel	1981	1:10000
L	209m W	Tunnel	1955	1:10560
N	247m SW	Tunnel	1938	1:10560
T	298m NE	Tunnel	1994	1:10000
AL	559m SE	Tunnel	1940	1:10560
AL	622m SE	Tunnel	1994	1:10000
AL	622m SE	Tunnel	1989	1:10000
AS	637m SE	Tunnel	1973	1:10000
AS	637m SE	Tunnel	1994	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
AS	637m SE	Tunnel	1989	1:10000
AS	637m SE	Tunnel	1979	1:10000
32	722m NE	Iron Workings	1894	1:10560
-	882m SE	Tunnel	1973	1:10000
-	882m SE	Tunnel	1994	1:10000
-	882m SE	Tunnel	1989	1:10000
-	882m SE	Tunnel	1979	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**0**

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	**0**

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	**0**

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

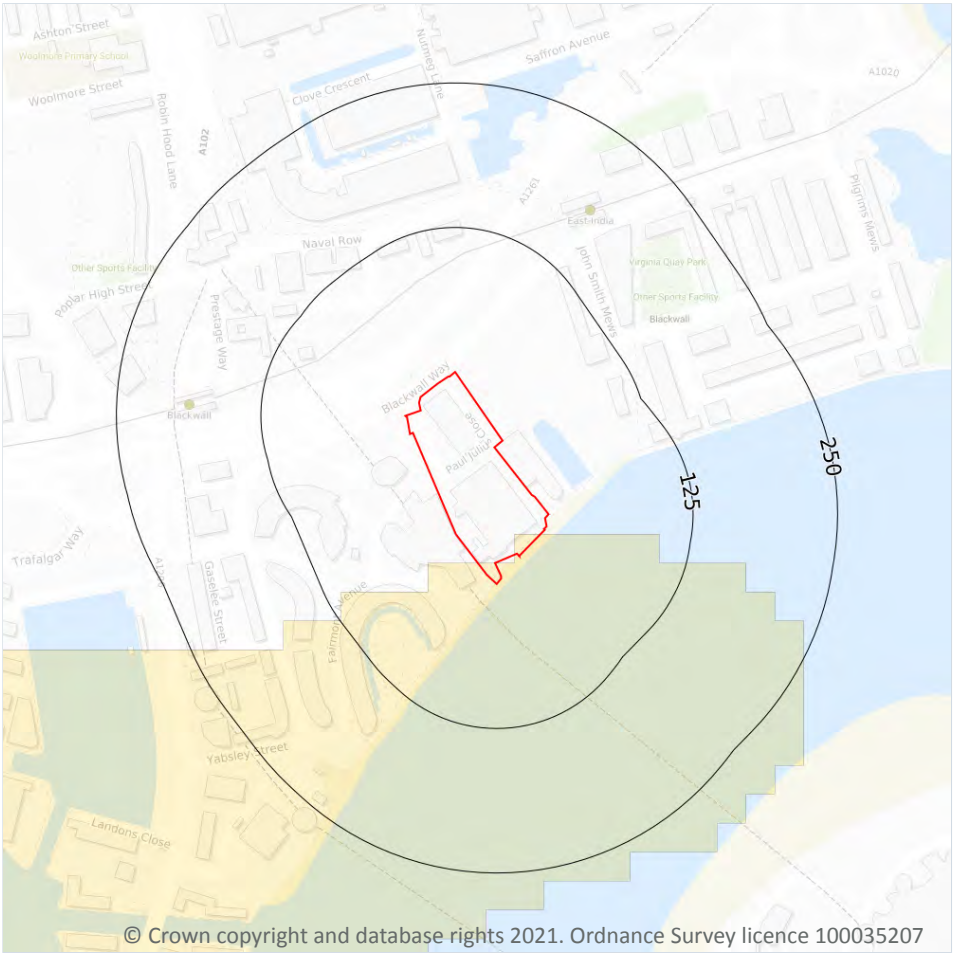
18.13 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site	2

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 174**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 1% and 3%**	**None**
On site	**Less than 1%**	**None****

This data is sourced from the British Geological Survey and Public Health England.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m **3**

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**
7m SE	No data	No data	No data	No data	No data	No data	No data
49m S	No data	No data	No data	No data	No data	No data	No data

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m **11**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	**16**	**2.8**	**276**	**190**	**0.4**	**60**	**67**	**24**	**17**
On site	**16**	**2.8**	**249**	**171**	**0.4**	**59**	**66**	**24**	**20**
On site	**17**	**3**	**314**	**216**	**0.4**	**57**	**82**	**24**	**31**
On site	**17**	**3**	**289**	**199**	**0.4**	**58**	**72**	**23**	**23**
3m SW	16	2.8	287	197	0.5	63	67	24	15
7m S	16	2.8	281	193	0.5	63	64	24	12

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
10m N	18	3.2	334	229	0.3	54	92	23	41
18m NE	17	3	304	209	0.3	56	83	23	33
21m NW	17	3	289	199	0.4	56	75	23	29
38m SE	16	2.8	234	161	0.5	61	60	24	15
49m SW	16	2.8	301	207	0.5	66	66	25	11

This data is sourced from the British Geological Survey.

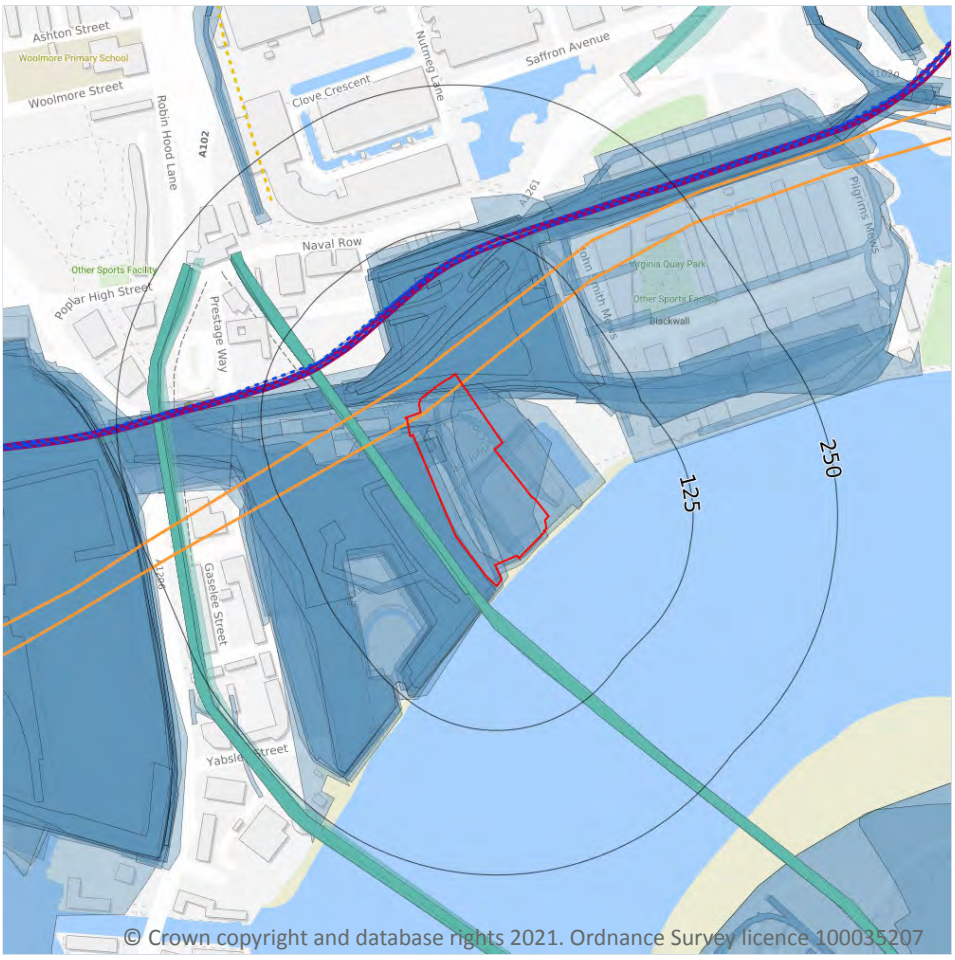
20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 Underground railways (London)

Records within 250m	1

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

Features are displayed on the Railway infrastructure and projects map on **page 178**

Location	Line Name	Line Section	Track Type	Depth (m bgl)	Operational hours
76m NW	Docklands Light Railway	Docklands Light Railway	Surface Track	0	Mon-Sat: Early 0530 Late 0030, Sun: Early 0700 Late 1130

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	112

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 178**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1961**	**2500**
On site	**Railway Sidings**	**1950**	**2500**
On site	**Railway Sidings**	**1954**	**1250**
On site	**Railway Sidings**	**1951**	**1250**
On site	**Railway Sidings**	**1950**	**1250**
On site	**Railway Sidings**	**1916**	**2500**
On site	**Railway Sidings**	**1896**	**2500**
On site	**Railway Sidings**	**1869**	**2500**
On site	**Railway Sidings**	**1896**	**10560**
On site	**Railway**	**1916**	**-**
On site	**Railway**	**1896**	**-**
On site	**Railway**	**1867**	**-**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway**	**1914**	**-**
On site	**Railway**	**1894**	**-**
On site	**Railway**	**1869**	**-**
On site	**Railway Sidings**	**1894**	**10560**
On site	**Railway Sidings**	**1938**	**10560**
On site	**Railway Sidings**	**1867**	**10560**
On site	**Railway Sidings**	**1872**	**10560**
On site	**Railway Sidings**	**1896**	**10560**
On site	**Railway Sidings**	**1899**	**10560**
On site	**Railway Sidings**	**1965**	**10560**
On site	**Railway Sidings**	**1920**	**10560**
On site	**Railway Sidings**	**1955**	**10560**
On site	**Railway Sidings**	**1949**	**10560**
0m N	Railway Sidings	1894	10560
1m SW	Railway	1916	-
9m SW	Railway Sidings	1950	1250
13m SW	Tunnel	1989	10000
13m SW	Tunnel	1973	10000
13m SW	Tunnel	1994	10000
13m SW	Tunnel	1981	10000
13m SW	Tunnel	1969	1250
13m SW	Tunnel	1990	1250
13m SW	Tunnel	1991	1250
13m SW	Tunnel	1994	1250
13m SW	Tunnel	1993	1250
13m SW	Tunnel	1992	1250
15m SW	Tunnel	1991	1250
16m SW	Tunnel	1969	1250

Location	Land Use	Year of mapping	Mapping scale
16m NW	Railway Sidings	1920	10560
27m NW	Railway Sidings	1899	10560
29m SW	Railway Sidings	1872	10560
32m NW	Railway Sidings	1969	1250
32m SW	Tunnel	1994	1250
32m SW	Tunnel	1993	1250
32m SW	Tunnel	1992	1250
33m NW	Railway Sidings	1896	10560
33m NW	Railway Sidings	1896	10560
37m SW	Railway Sidings	1869	2500
70m SW	Railway Sidings	1869	2500
87m NW	Tunnel	1994	1250
87m NW	Tunnel	1991	1250
87m NW	Tunnel	1992	1250
87m NW	Tunnel	1993	1250
87m NW	Tunnel	1998	1250
88m NE	Railway Sidings	1973	10000
88m NW	Tunnel	1981	1250
88m NW	Tunnel	1990	1250
88m NW	Tunnel	1991	1250
88m NW	Tunnel	1971	1250
90m W	Railway Sidings	1950	1250
90m NW	Railway Sidings	1991	1250
97m NE	Railway Sidings	1969	1250
109m SW	Railway Sidings	1961	2500
113m NE	Railway Sidings	1896	2500
119m SW	Railway Sidings	1950	1250
124m NE	Railway Sidings	1896	2500

Location	Land Use	Year of mapping	Mapping scale
127m W	Railway	1890	-
148m NE	Railway Sidings	1969	1250
149m W	Railway Sidings	1894	10560
155m W	Railway Sidings	1961	1250
156m W	Railway Sidings	1898	10560
174m NE	Railway Sidings	1969	1250
200m W	Tunnel	1949	10560
202m NW	Railway Sidings	1955	10560
205m W	Tunnel	1920	10560
207m W	Tunnel	1961	2500
207m W	Tunnel	1950	2500
207m W	Tunnel	1950	1250
207m W	Tunnel	1961	1250
207m W	Tunnel	1971	1250
207m W	Tunnel	1930	-
208m W	Tunnel	1994	1250
208m W	Tunnel	1991	1250
208m W	Tunnel	1992	1250
208m W	Tunnel	1993	1250
208m W	Tunnel	1998	1250
208m W	Tunnel	1981	1250
208m W	Tunnel	1990	1250
208m W	Tunnel	1991	1250
209m W	Tunnel	1989	10000
209m W	Tunnel	1973	10000
209m W	Tunnel	1965	10560
209m W	Tunnel	1994	10000
209m W	Tunnel	1981	10000

Location	Land Use	Year of mapping	Mapping scale
209m W	Tunnel	1955	10560
210m NW	Railway Sidings	1950	1250
211m W	Tunnel	1916	2500
213m NW	Railway Sidings	1950	2500
228m SW	Tunnel	1985	1250
228m SW	Tunnel	1989	1250
228m SW	Tunnel	1991	1250
230m SW	Tunnel	1998	1250
237m SW	Railway Sidings	1896	2500
240m W	Railway Sidings	1949	10560
248m W	Railway	1916	-
248m W	Railway Sidings	1899	10560
248m W	Railway Sidings	1971	1250
249m W	Railway	1894	-
249m W	Railway Sidings	1896	10560
249m W	Railway Sidings	1896	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	**0**

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	1

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on **page 178**

Location	Description
212m NW	Dismantled

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	4

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on **page 178**

Location	Name	Type
74m NW	Docklands Light Railway	light_rail
78m NW	Docklands Light Railway	light_rail
80m NW	Not given	Multi Track
199m W	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	2

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

Features are displayed on the Railway infrastructure and projects map on **page 178**

Location	Route Type
On site	**Tunnel Alignment**
18m NW	Tunnel Alignment

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: https://www.groundsure.com/terms-and-conditions-jan-2020/.

Appendix B – Site Photographs

Photos Relating to Site Walkover Undertaken on 06 May 2021

Project Name: Telehouse South Main Works
Project Reference: 6502635-001 Date: 10/05/2021
Project Manager: Jonny Fisher Document Reference: 6502635-001-SWE-ZZ-XX-SU-J-0001 Revision: C01

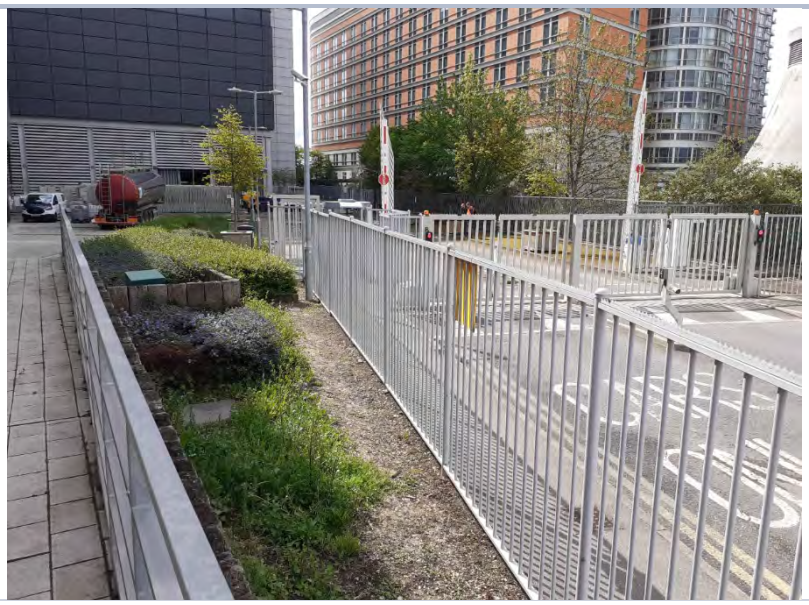
Photo 1	Main site entrance. View looking south.
	
Photo 2	South eastern view from north west corner of site.
	

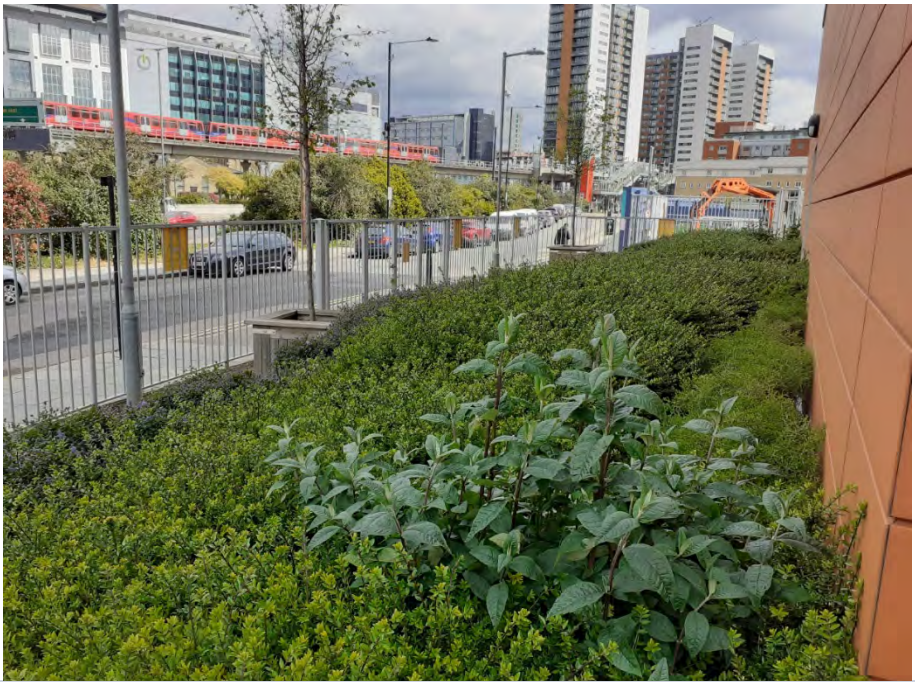
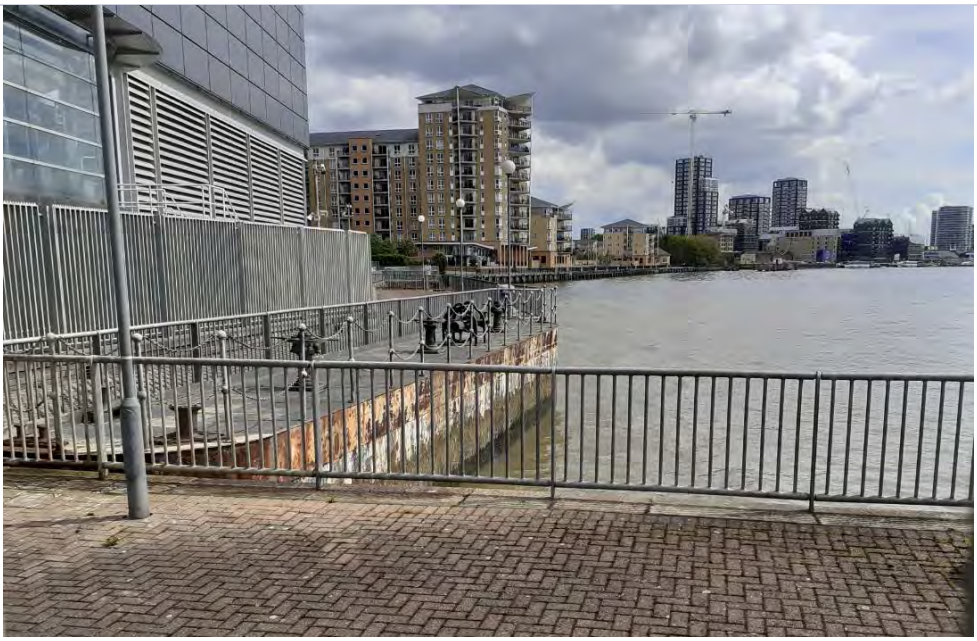
Photo 3	Northern site boundary. Facing eastwards.
	
Photo 4	View east. Building to the left is the more recent ‘Dock Building’ built in 2014 and the building to the right is the Technical centre constructed in 1988.
	

Photo 5	View north across western boundary.
	
Photo 6	View north across eastern boundary.
	

Photo 7	Southern boundary, Thames Path and River Thames. Caisson dating back to a least 1896 indicative to where the historic graving dock was once located.
	
Photo 8 & 9	Telehouse South building basement. Note the crack within the wall and water ingress. Sump pump located to the left.
	

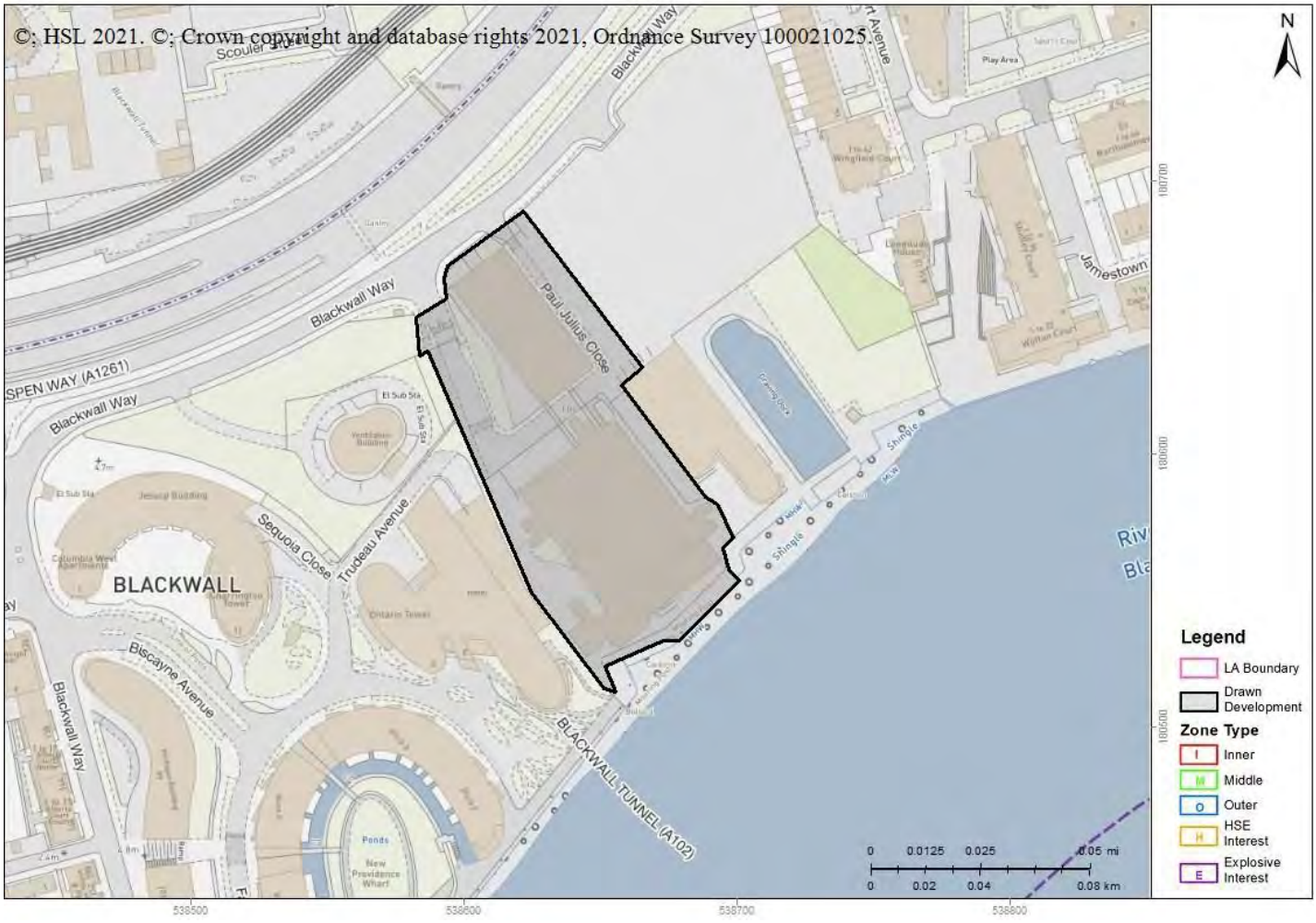
Appendix C – HSE Hazardous Installation Report

7200 Beach Drive, Cambridge Research Park, Ely Road, Waterbeach
Cambridge

CB25 9TL

Advice : HSL-210510160342-394 Does Not Cross Any Consultation Zones

Your Ref: 6502635-001
Development Name: Telehouse South Main Works
Comments:



The proposed development site which you have identified does not currently lie within the consultation distance (CD) of a major hazard site or major accident hazard pipeline; therefore at present HSE does not need to be consulted on any developments on this site. However, should there be a delay submitting a planning application for the proposed development on this site, you may wish to approach HSE again to ensure that there have been no changes to CDs in this area in the intervening period.

This advice report has been generated using information supplied by Philip Bara-Laskowski at MLM Consulting Engineers Ltd on 10 May 2021.

Appendix D – Fire Insurance Plans

Fire Insurance Plans

Groundsure
LOCATION INTELLIGENCE

Address
538654 180582

Your reference
6502635-001

Groundsure reference
MLM-7814579

Date
04/05/2021

Grid reference
538646 180579

N

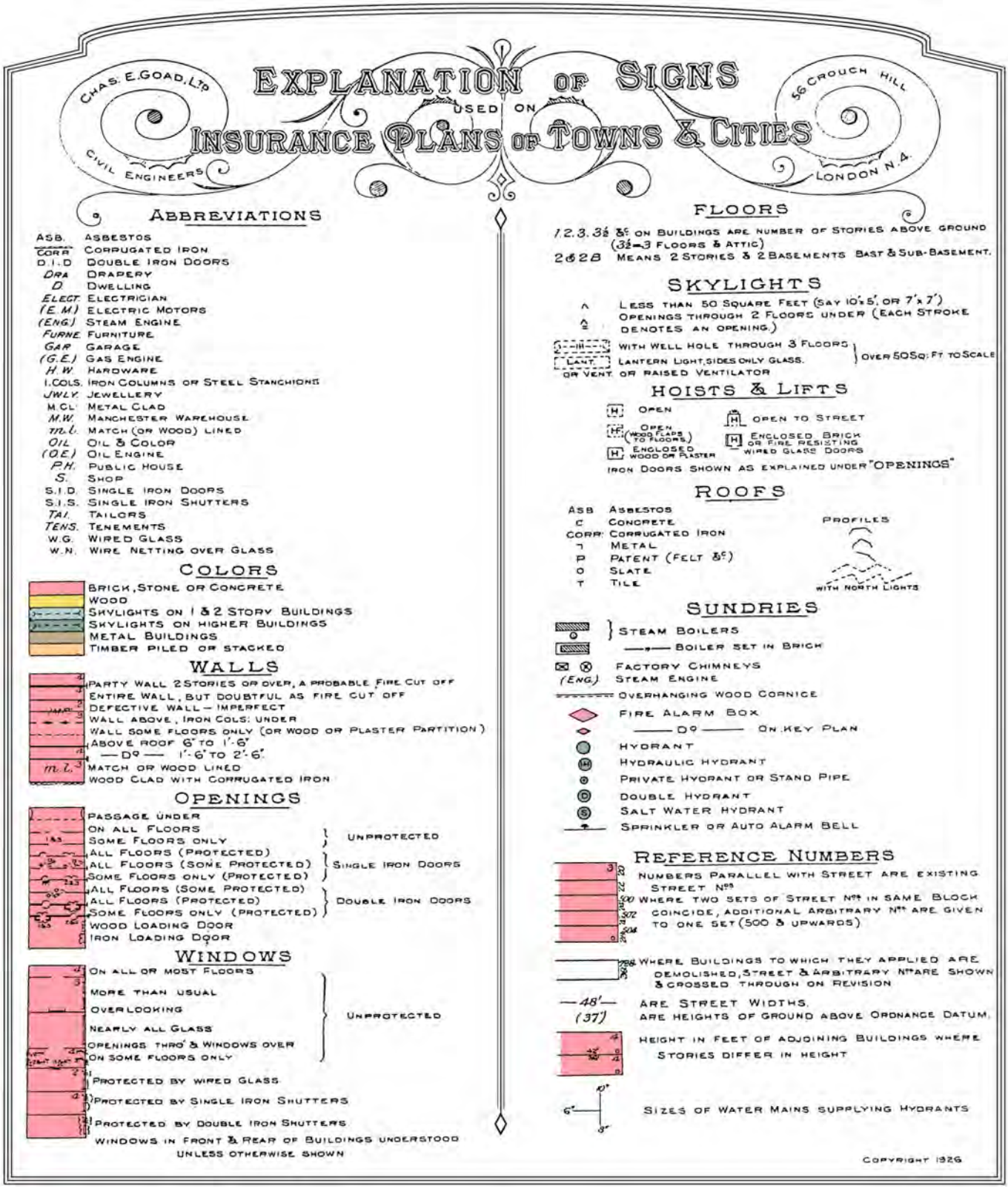
Groundsure
LOCATION INTELLIGENCE

1891 London

Groundsure
LOCATION INTELLIGENCE

1933 London

Legend


EXPLANATION OF SIGNS
USED ON
INSURANCE PLANS OF TOWNS & CITIES
CHAS. E. GOAD, LTD
CIVIL ENGINEERS
56 CROUCH HILL
LONDON N.4.
ABBREVIATIONS
ASB. ASBESTOS
CORR. CORRUGATED IRON
D.I.D. DOUBLE IRON DOORS
DRA. DRAPERY
D. DWELLING
ELECT. ELECTRICIAN
(E.M.) ELECTRIC MOTORS
(ENG.) STEAM ENGINE
FURNE. FURNITURE
GAR. GARAGE
(G.E.) GAS ENGINE
H.W. HARDWARE
I.COLS. IRON COLUMNS OR STEEL STANCHIONS
JWLY. JEWELLERY
M.CL. METAL CLAD
M.W. MANCHESTER WAREHOUSE
m.l. MATCH (OR WOOD) LINED
OIL OIL & COLOR
(O.E.) OIL ENGINE
P.H. PUBLIC HOUSE
S. SHOP
S.I.D. SINGLE IRON DOORS
S.I.S. SINGLE IRON SHUTTERS
TAI. TAILORS
TENS. TENEMENTS
W.G. WIRED GLASS
W.N. WIRE NETTING OVER GLASS
COLORS
BRICK, STONE OR CONCRETE
WOOD
SKYLIGHTS ON 1 & 2 STORY BUILDINGS
SKYLIGHTS ON HIGHER BUILDINGS
METAL BUILDINGS
TIMBER PILED OR STACKED
WALLS
PARTY WALL 2 STORIES OR OVER, A PROBABLE FIRE CUT OFF
ENTIRE WALL, BUT DOUBTFUL AS FIRE CUT OFF
DEFECTIVE WALL — IMPERFECT
WALL ABOVE, IRON COLS: UNDER
WALL SOME FLOORS ONLY (OR WOOD OR PLASTER PARTITION)
ABOVE ROOF 6" TO 1'-6"
— Dº — 1'-6" TO 2'-6"
m.l. MATCH OR WOOD LINED
WOOD CLAD WITH CORRUGATED IRON
OPENINGS
PASSAGE UNDER
ON ALL FLOORS
SOME FLOORS ONLY
UNPROTECTED
ALL FLOORS (PROTECTED)
ALL FLOORS (SOME PROTECTED)
SOME FLOORS ONLY (PROTECTED)
SINGLE IRON DOORS
ALL FLOORS (SOME PROTECTED)
ALL FLOORS (PROTECTED)
SOME FLOORS ONLY (PROTECTED)
DOUBLE IRON DOORS
WOOD LOADING DOOR
IRON LOADING DOOR
WINDOWS
ON ALL OR MOST FLOORS
MORE THAN USUAL
OVERLOOKING
NEARLY ALL GLASS
OPENINGS THRO' & WINDOWS OVER
ON SOME FLOORS ONLY
UNPROTECTED
PROTECTED BY WIRED GLASS
PROTECTED BY SINGLE IRON SHUTTERS
PROTECTED BY DOUBLE IRON SHUTTERS
WINDOWS IN FRONT & REAR OF BUILDINGS UNDERSTOOD UNLESS OTHERWISE SHOWN
FLOORS
1.2.3.3½ &c ON BUILDINGS ARE NUMBER OF STORIES ABOVE GROUND (3½=3 FLOORS & ATTIC)
2B2B MEANS 2 STORIES & 2 BASEMENTS BASE & SUB-BASEMENT.
SKYLIGHTS
LESS THAN 50 SQUARE FEET (SAY 10'x5', OR 7'x7')
OPENINGS THROUGH 2 FLOORS UNDER (EACH STROKE DENOTES AN OPENING.)
WITH WELL HOLE THROUGH 3 FLOORS
LANT. LANTERN LIGHT, SIDES ONLY GLASS.
OR VENT. OR RAISED VENTILATOR
OVER 50 SQ: FT TO SCALE
HOISTS & LIFTS
OPEN
OPEN TO STREET
OPEN (WOOD FLAPS TO FLOORS)
ENCLOSED BRICK OR FIRE RESISTING WIRED GLASS DOORS
ENCLOSED WOOD OR PLASTER
IRON DOORS SHOWN AS EXPLAINED UNDER "OPENINGS"
ROOFS
ASB ASBESTOS
C CONCRETE
CORR: CORRUGATED IRON
METAL
P PATENT (FELT &c)
S SLATE
T TILE
PROFILES
WITH NORTH LIGHTS
SUNDRIES
STEAM BOILERS
BOILER SET IN BRICK
FACTORY CHIMNEYS
(ENG.) STEAM ENGINE
OVERHANGING WOOD CORNICE
FIRE ALARM BOX
— Dº — ON KEY PLAN
HYDRANT
HYDRAULIC HYDRANT
PRIVATE HYDRANT OR STAND PIPE
DOUBLE HYDRANT
SALT WATER HYDRANT
SPRINKLER OR AUTO ALARM BELL
REFERENCE NUMBERS
NUMBERS PARALLEL WITH STREET ARE EXISTING STREET Nºs
WHERE TWO SETS OF STREET Nºs IN SAME BLOCK COINCIDE, ADDITIONAL ARBITRARY Nºs ARE GIVEN TO ONE SET (500 & UPWARDS)
WHERE BUILDINGS TO WHICH THEY APPLIED ARE DEMOLISHED, STREET & ARBITRARY Nºs ARE SHOWN & CROSSED THROUGH ON REVISION
—48'— (37') ARE STREET WIDTHS. ARE HEIGHTS OF GROUND ABOVE ORDNANCE DATUM.
HEIGHT IN FEET OF ADJOINING BUILDINGS WHERE STORIES DIFFER IN HEIGHT
6" 9" SIZES OF WATER MAINS SUPPLYING HYDRANTS
COPYRIGHT 1926

Further Information

This report contains all Goad plans available for your chosen location. Where plans cover only part of the mapped area, modern background mapping has been included for additional context.

Charles E. Goad

Goad plans were originally produced as Fire Insurance Plans (F.I.Ps) by Charles E. Goad Ltd. in the late 19th century. In addition to showing the materials used in building construction and the location of water supplies, the maps show the location of particular fire hazards such as chemical storage and processing areas, ovens and other such areas which are of interest to contaminated land practitioners. The first plans appeared in 1886, and by 1896 the collection comprised 73 volumes of plans for 37 cities. By 1912 the collection had grown to 124 volumes across 57 cities, though following this there was no significant expansion to new towns. Many cities saw significantly expanded coverage between 1928 and 1935, and regular revision of plans continued until the 1970s.

The maps were produced for the most important towns and cities in Great Britain at a scale of 1:480 (1 inch to 40 feet). Coverage for these towns varies according to the town's relative importance at the time, from an industrial and social perspective. All maps shown in this report are north-orientated and seamlessly stitched together with other maps of a similar age. Gaps in the mapping are filled in with contemporary mapping to provide a clear location context for the study site.

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08444 159 000

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