

P3331.5.1

**Leaside Business Centre, 43-44 Gillender Street, London, E14 6RP**

Phase 1 Geoenvironmental Desk Study

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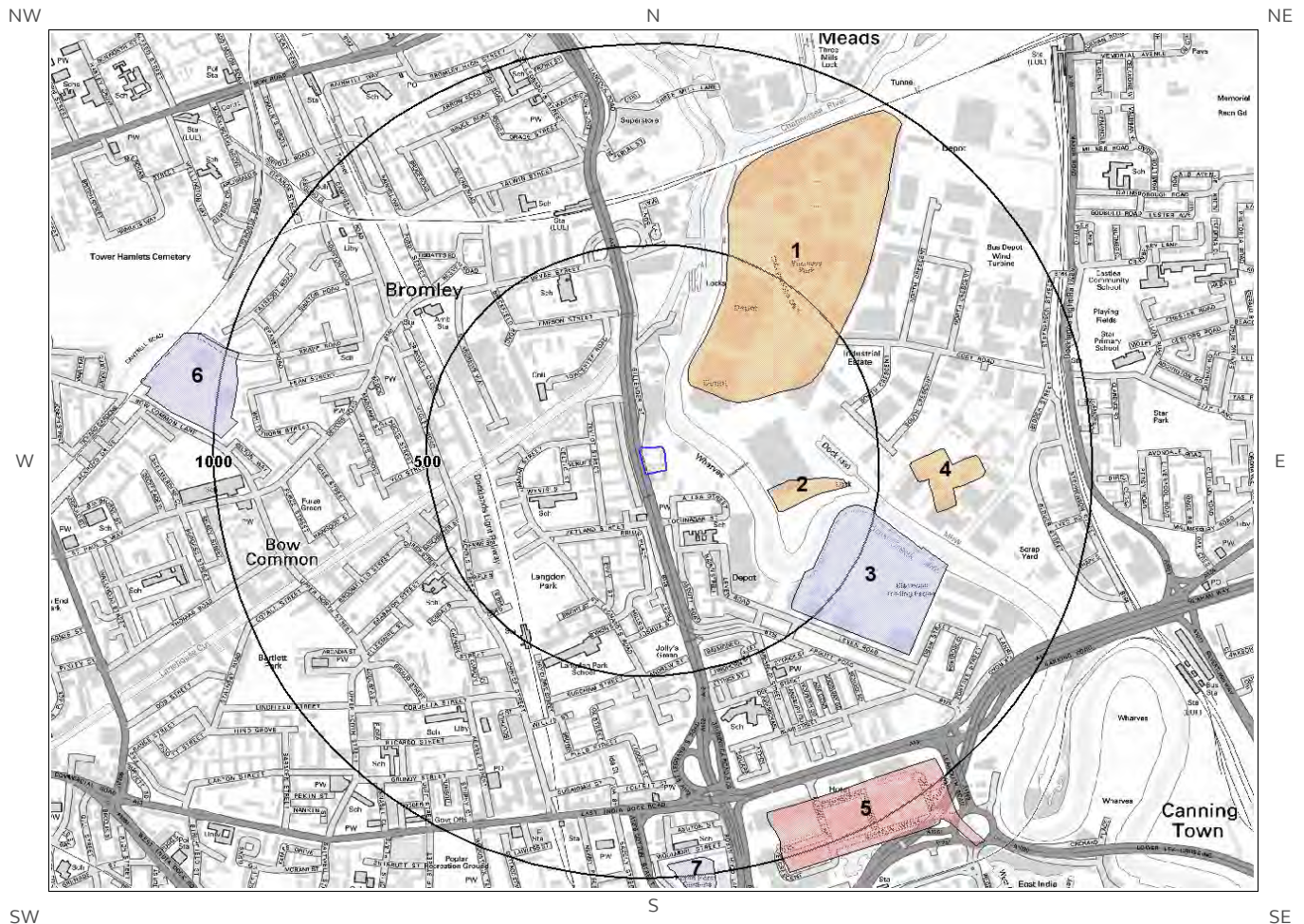
[www.agbenvironmental.co.uk](http://www.agbenvironmental.co.uk)



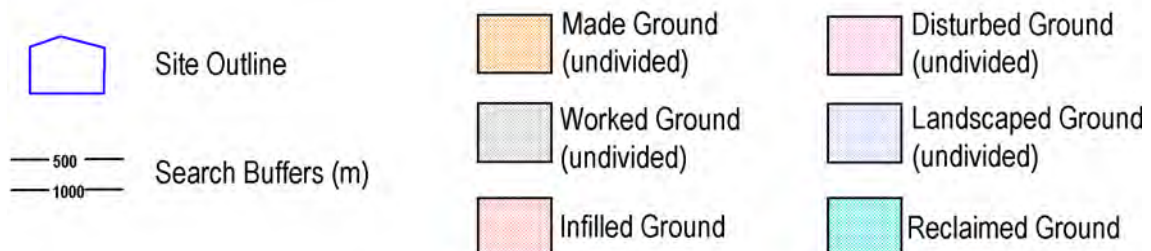
**Part 5 of 7**

# 2 Geology 1:50,000 Scale

## 2.1 Artificial Ground map



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## 2. Geology 1:50,000 scale

### 2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 256

#### 2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? Yes

ID	Distance (m)	Direction	LEX Code	Description	Rock Description
1	168.0	NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	242.0	E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	410.0	SE	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND

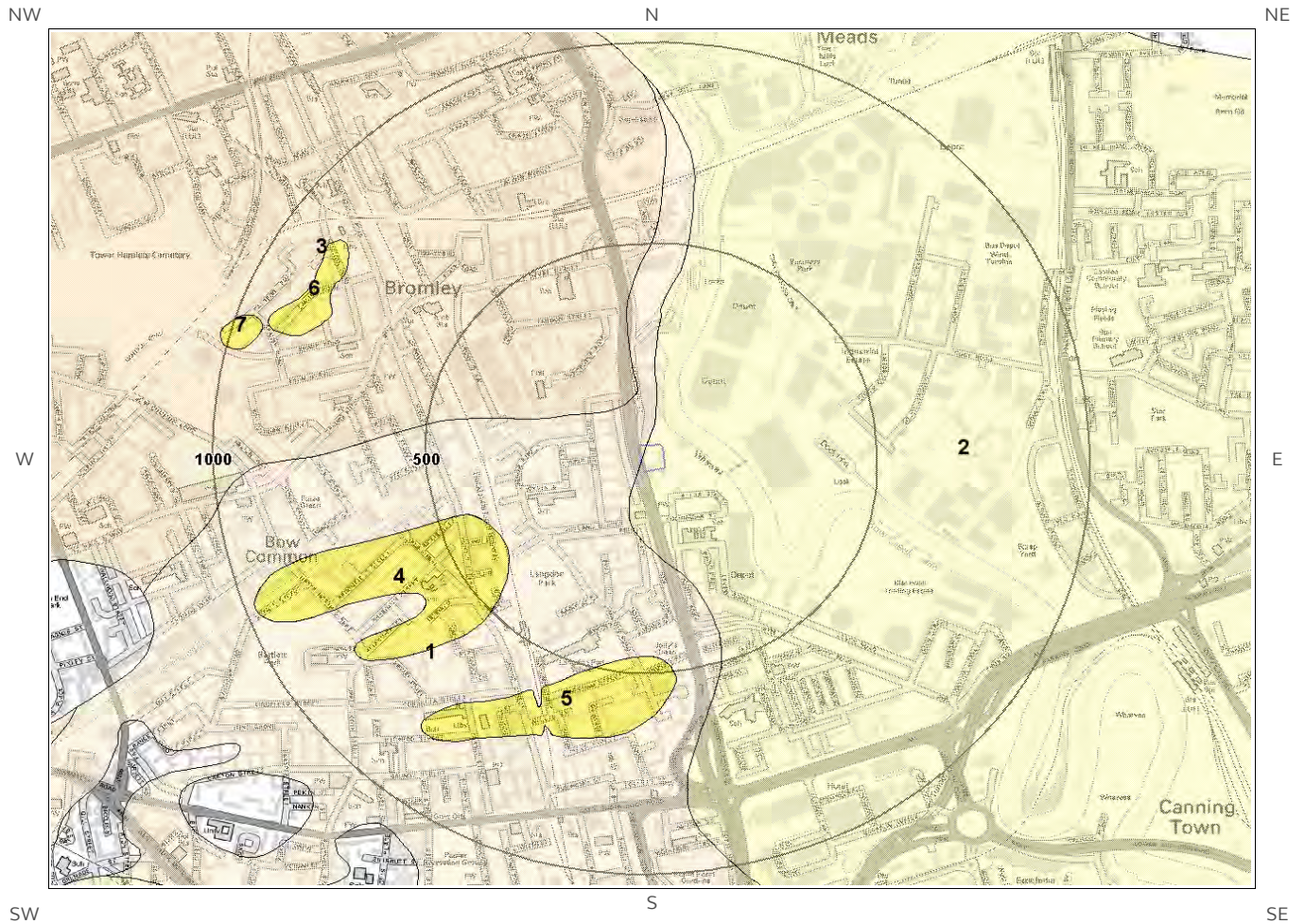
#### 2.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? No

Database searched and no data found.



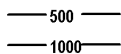
## 2.2 Superficial Deposits and Landslips map (1:50,000 scale)



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Site Outline



Search Buffers (m)

## 2.2 Superficial Deposits and Landslips

### 2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL
2	0.0	On Site	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT
3	108.0	NW	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL
4	372.0	SW	LASI-XCZ	LANGLEY SILT MEMBER	CLAY AND SILT
5	458.0	S	LASI-XCZ	LANGLEY SILT MEMBER	CLAY AND SILT

### 2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? Yes

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Intergranular	Moderate	Very Low
0.0	On Site	Intergranular	Very High	High

### 2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

#### 2.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site boundary?

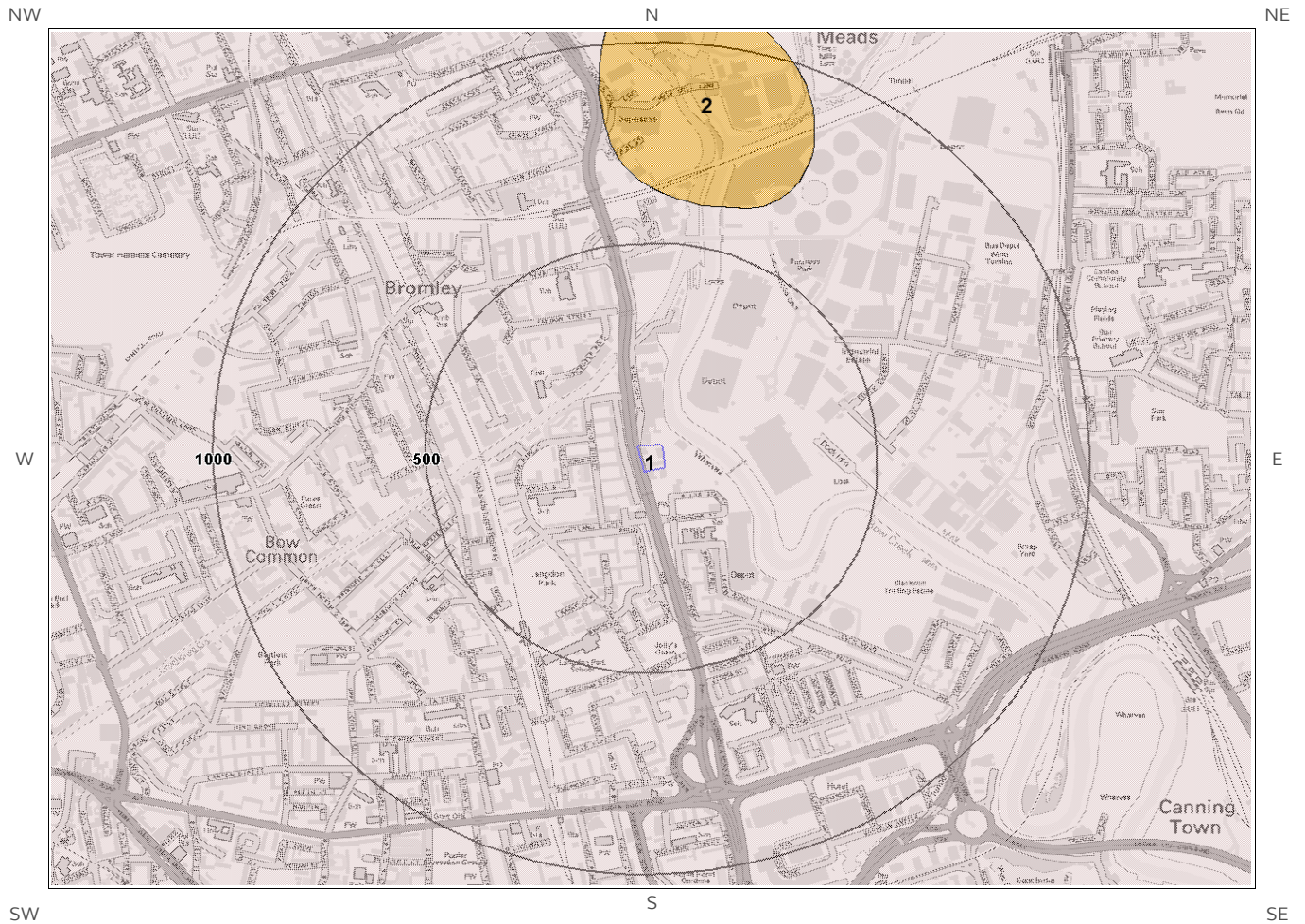
No

Database searched and no data found.

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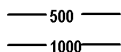
## 2.3 Bedrock and linear features map (1:50,000 scale)



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Site Outline



Search Buffers (m)

## 2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 256

### 2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

ID	Distance	Direction	LEX Code	Rock Description	Rock Age
1	0.0	On Site	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN

### 2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary? Yes

Distance	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Mixed	Moderate	Very Low

### 2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.



## 3 Radon Data

### 3.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?      The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

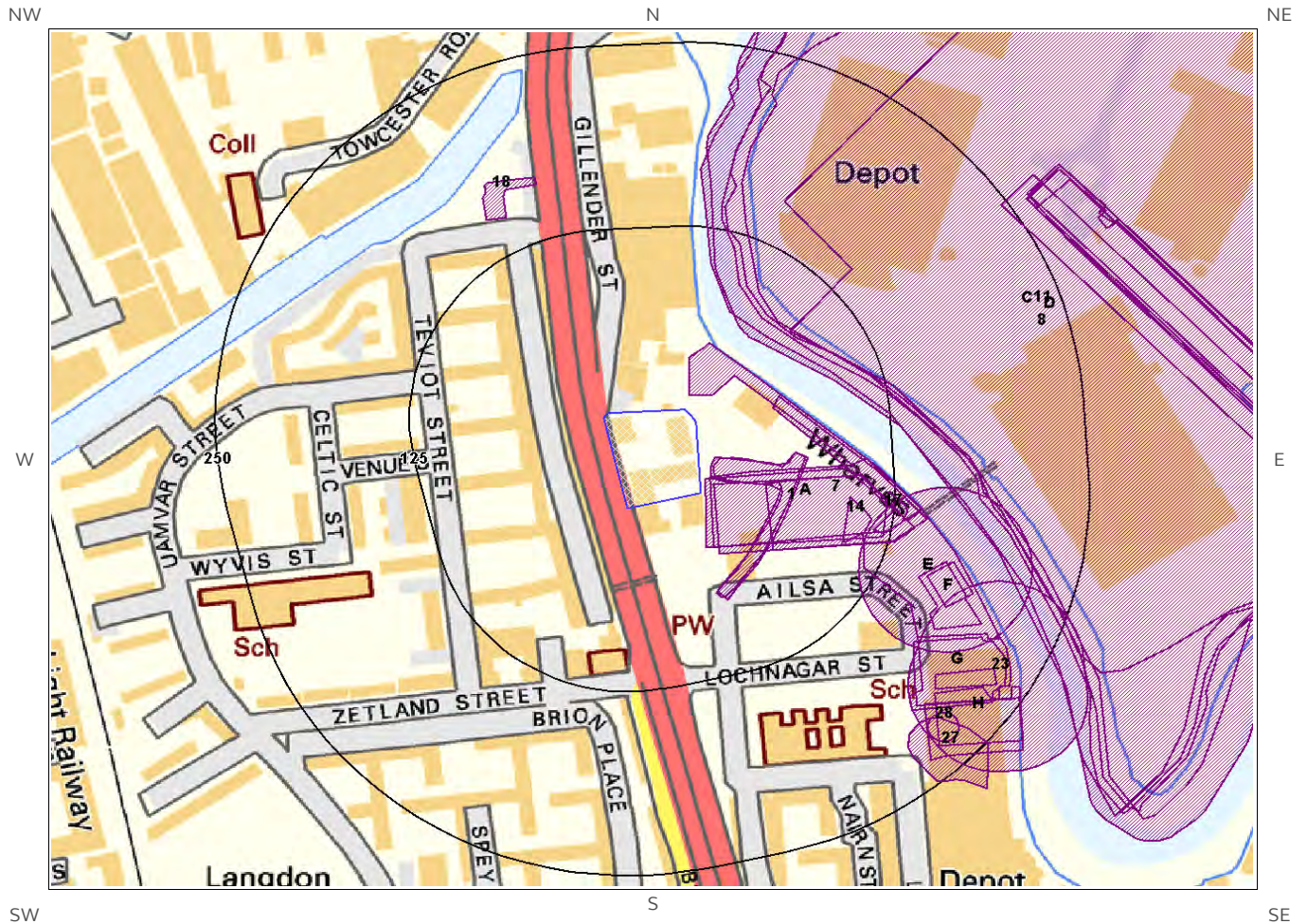
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### 3.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?      No radon protective measures are necessary.



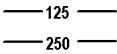


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# 4 Ground Workings map



Ground Workings Legend

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- |   |                    |   |                                  |
|---|--------------------|---|----------------------------------|
|  | Site Outline       |  | Historic Surface Ground Workings |
|  | Search Buffers (m) |  | Historic Underground Workings    |
|   |                    |  | Current Ground Workings          |

# 4 Ground Workings

## 4.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Use	Date
1	3.0	E	538285 181855	Unspecified Wharf	1894
2A	6.0	E	538297 181858	Unspecified Wharf	1896
3B	7.0	E	538268 181843	Ponds	1867
4A	9.0	E	538297 181854	Unspecified Wharf	1898
5B	9.0	E	538270 181842	Ponds	1867
6	11.0	N	538302 181906	Unspecified Wharf	1894
7	42.0	E	538331 181878	Unspecified Wharf	1894
8	65.0	NE	538572 182045	Dock	1949
9C	71.0	NE	584217 179649	Dock	1938
10C	80.0	NE	538567 182037	Dock	1894
11	84.0	NE	538660 181964	Dock	1894
12D	85.0	NE	538436 181951	Dock	1920
13D	86.0	NE	538582 182004	Unspecified Dock	1896
14	95.0	E	583990 179458	Unspecified Pit	1938
15E	108.0	E	538372 181809	Unspecified Wharf	1896
16E	110.0	E	538381 181812	Unspecified Wharves	1989
17	114.0	E	538352 181851	Unspecified Ground Workings	1949
18	148.0	NW	538090 182065	Ponds	1867
19F	151.0	E	538384 181795	Unspecified Wharf	1894
20F	156.0	E	538384 181802	Unspecified Wharf	1894
21G	170.0	SE	538389 181741	Unspecified Wharf	1894

ID	Distance (m)	Direction	NGR	Use	Date
22G	170.0	SE	538393 181744	Unspecified Wharf	1896
23	171.0	SE	538415 181740	Unspecified Wharf	1894
24G	195.0	SE	538394 181738	Unspecified Wharf	1894
25H	203.0	SE	538403 181712	Unspecified Wharf	1949
26H	203.0	SE	538400 181704	Unspecified Wharf	1920
27	210.0	SE	538383 181687	Pond	1898
28	213.0	SE	584045 179316	Unspecified Wharf	1938

## 4.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? Yes

The following Historical Underground Working Features are provided by Groundsure:

ID	Distance (m)	Direction	NGR	Use	Date
Not shown	946.0	SE	538900 181090	Tunnel	1994

## 4.3 Current Ground Workings

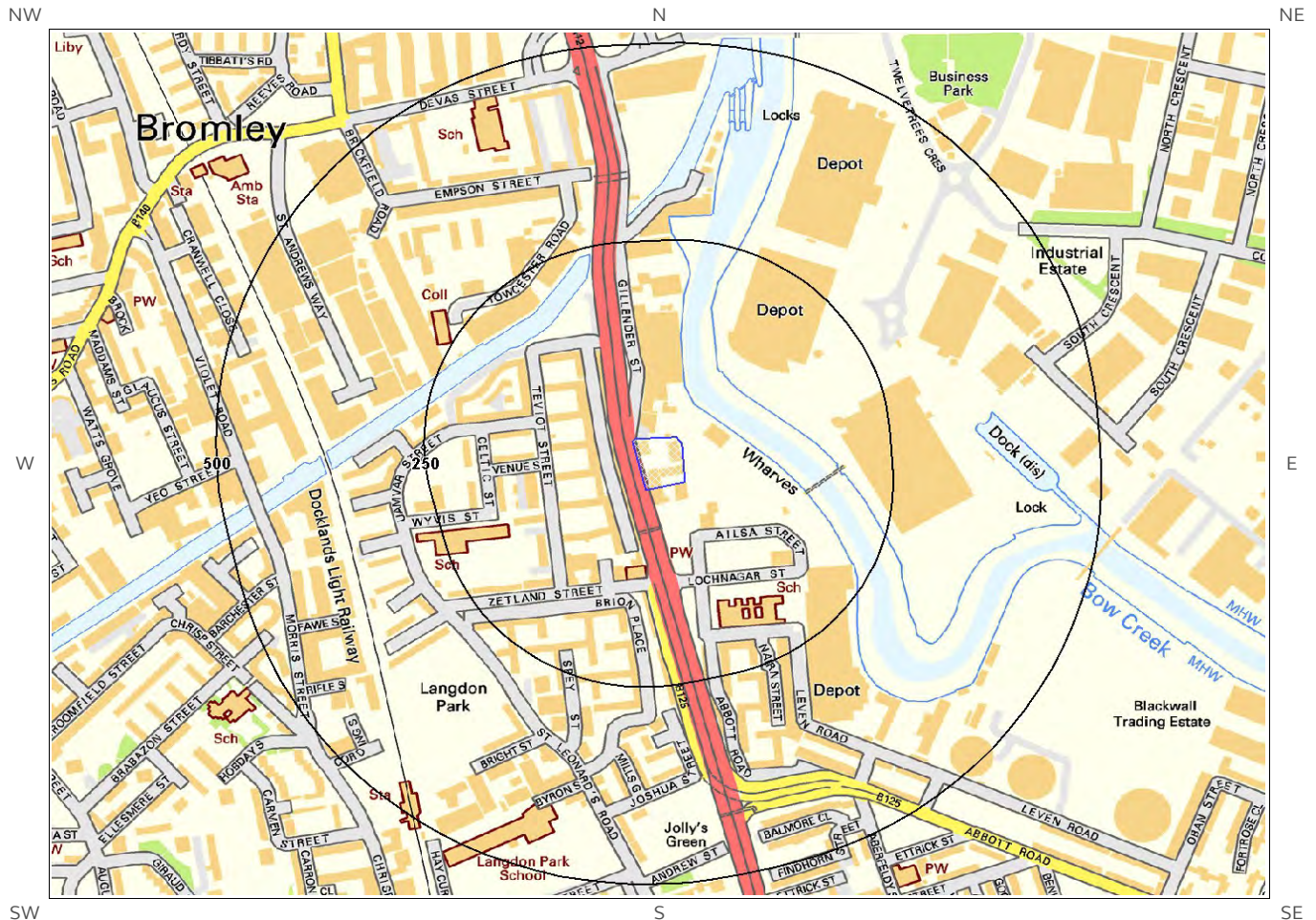
This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? No

Database searched and no data found.

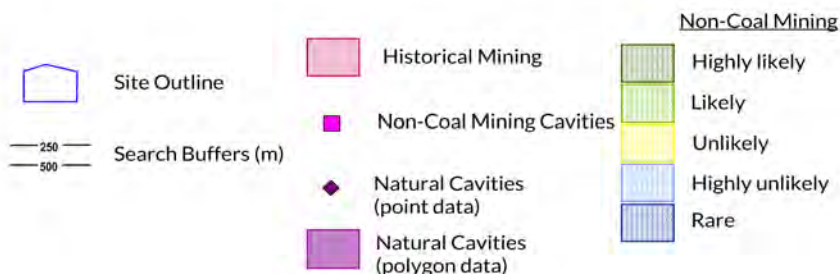


# 5 Mining, Extraction & Natural Cavities map



Mining, Extraction and Natural Cavities Legend

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# 5 Mining, Extraction & Natural Cavities

## 5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

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## 5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? Yes

The following information provided by JPB is not represented on mapping: Whilst outside of an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property. Further details and a quote for services can be obtained by emailing this report to [enquiries.gs@jpb.co.uk](mailto:enquiries.gs@jpb.co.uk).

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## 5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled “Review of mining instability in Great Britain, 1990” PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

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## 5.7 Brine Extraction

This data provides information from the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

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## 5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

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## 5.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level..

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.

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# 6 Natural Ground Subsidence

## 6.1 Shrink-Swell Clay map



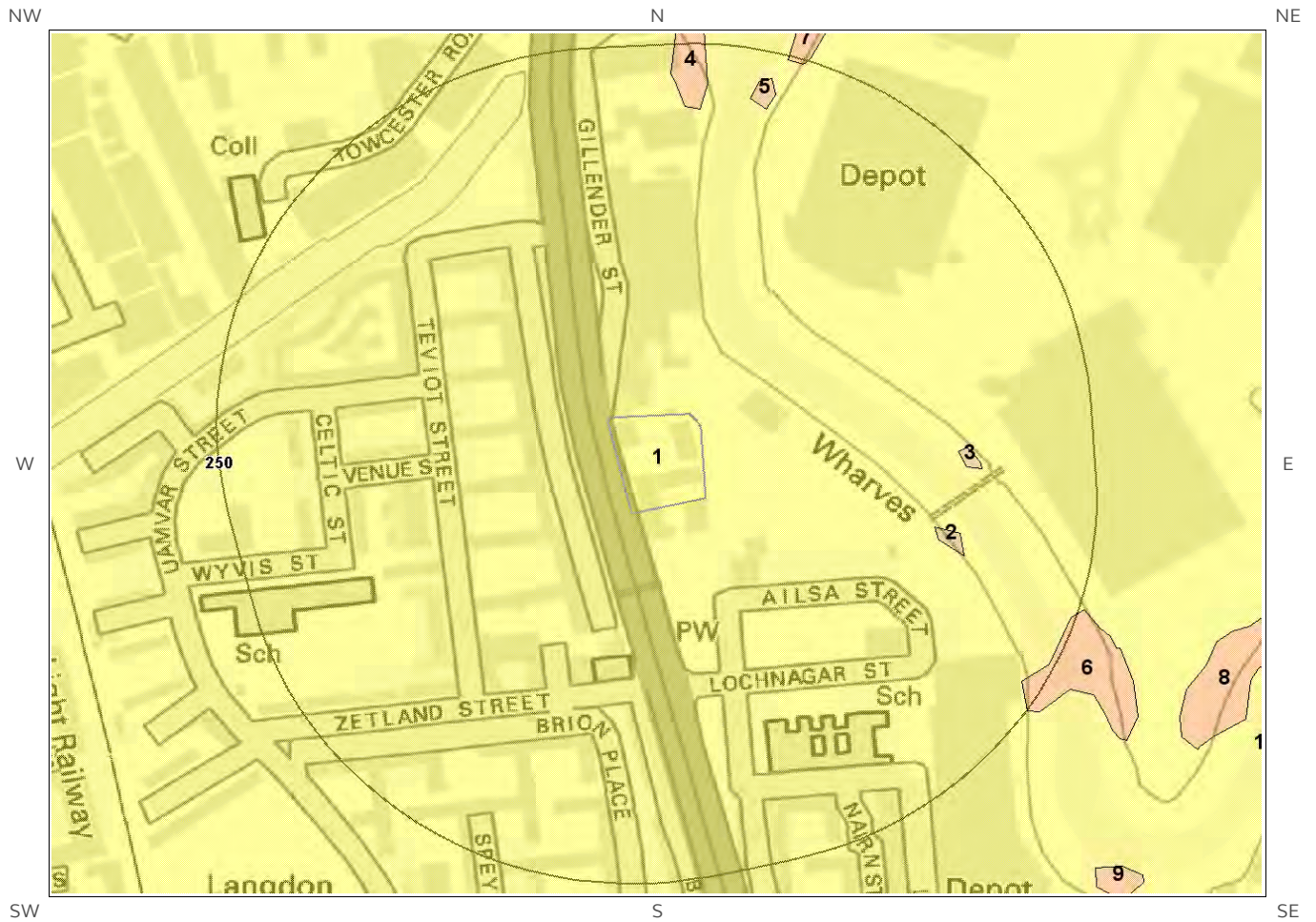
Shrink Swell Clay Legend

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## 6.2 Landslides map

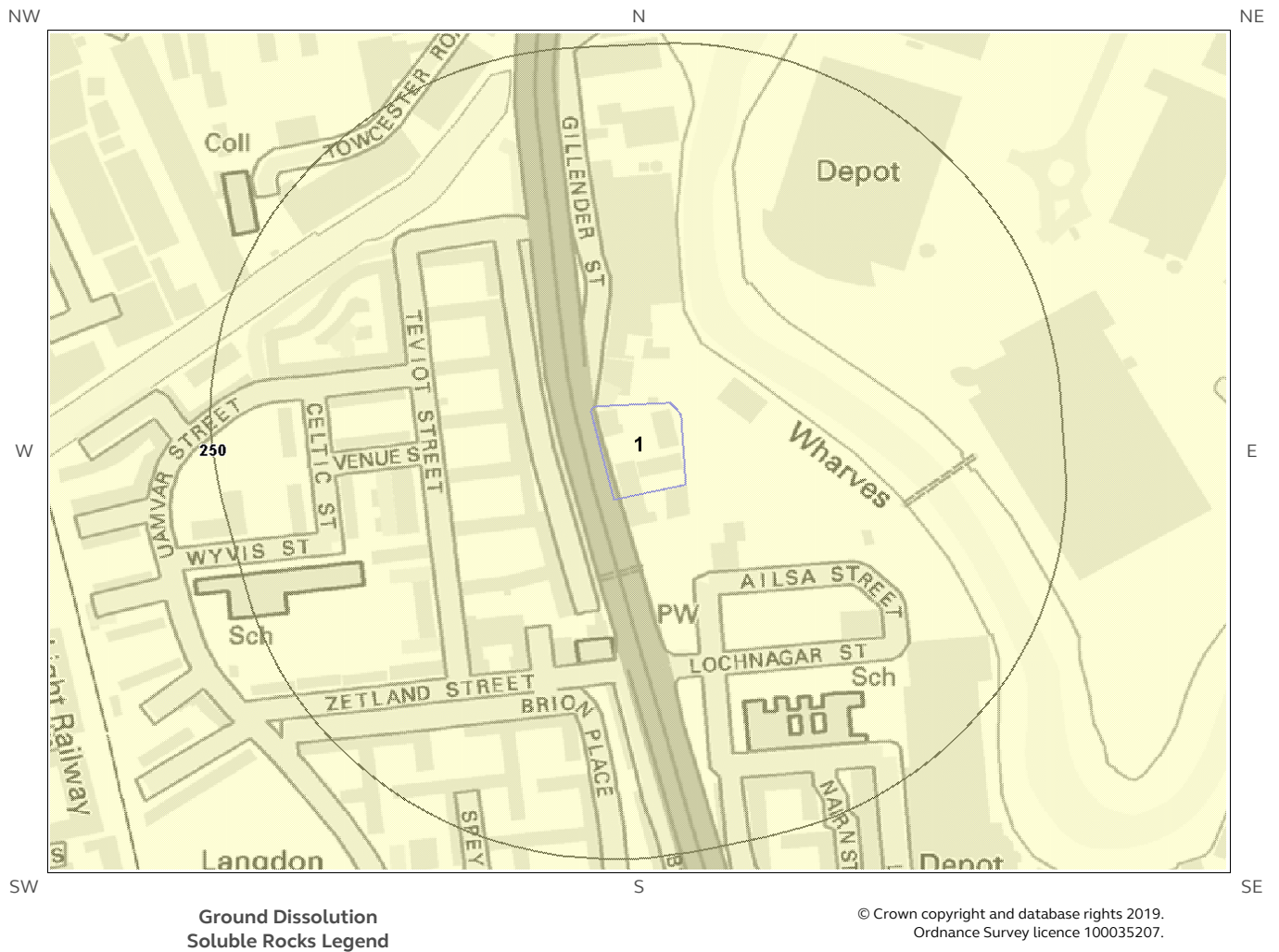


Landslides Legend

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## 6.3 Ground Dissolution of Soluble Rocks map





## 6.4 Compressible Deposits map



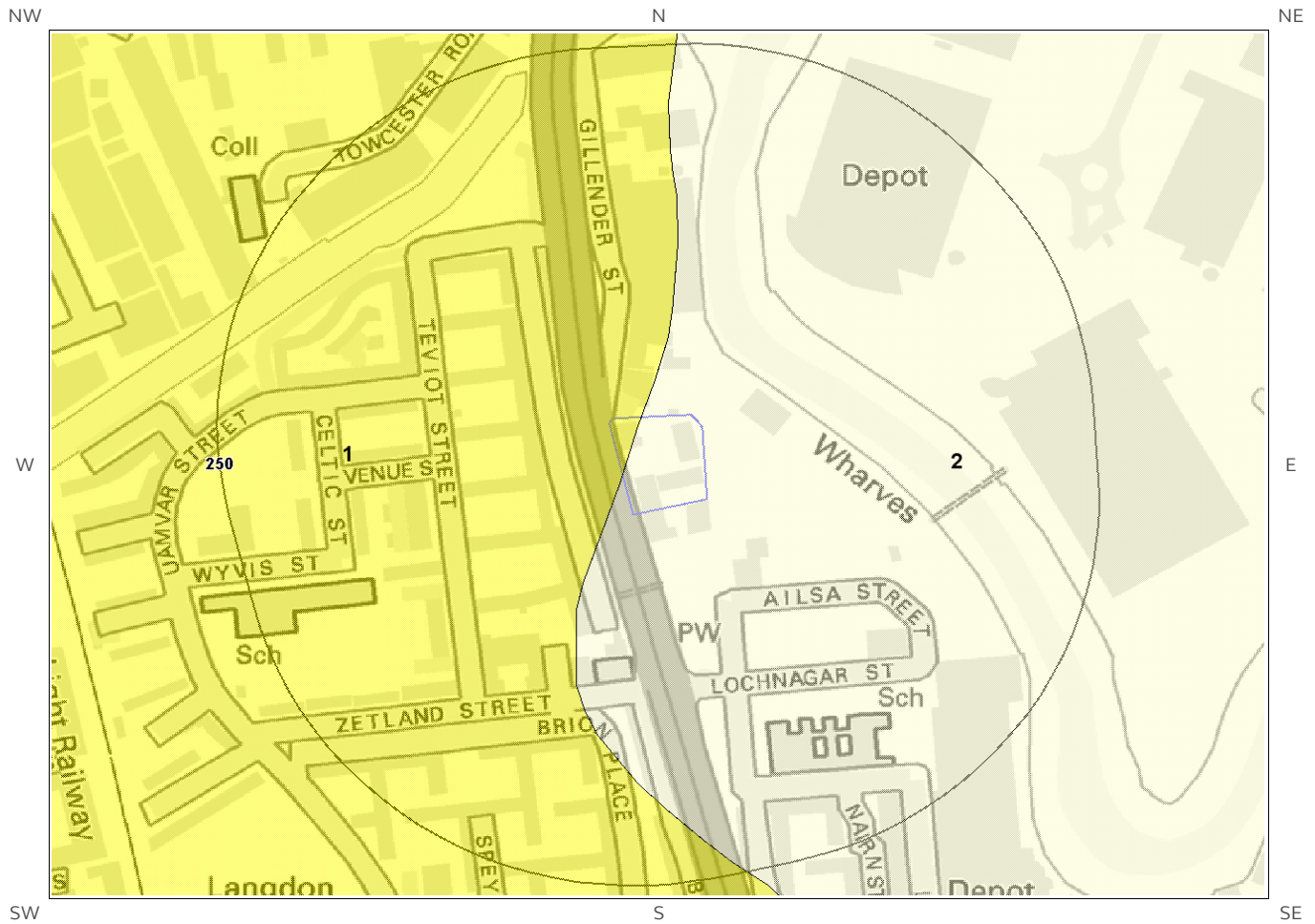
Compressible Deposits Legend

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## 6.5 Collapsible Deposits map



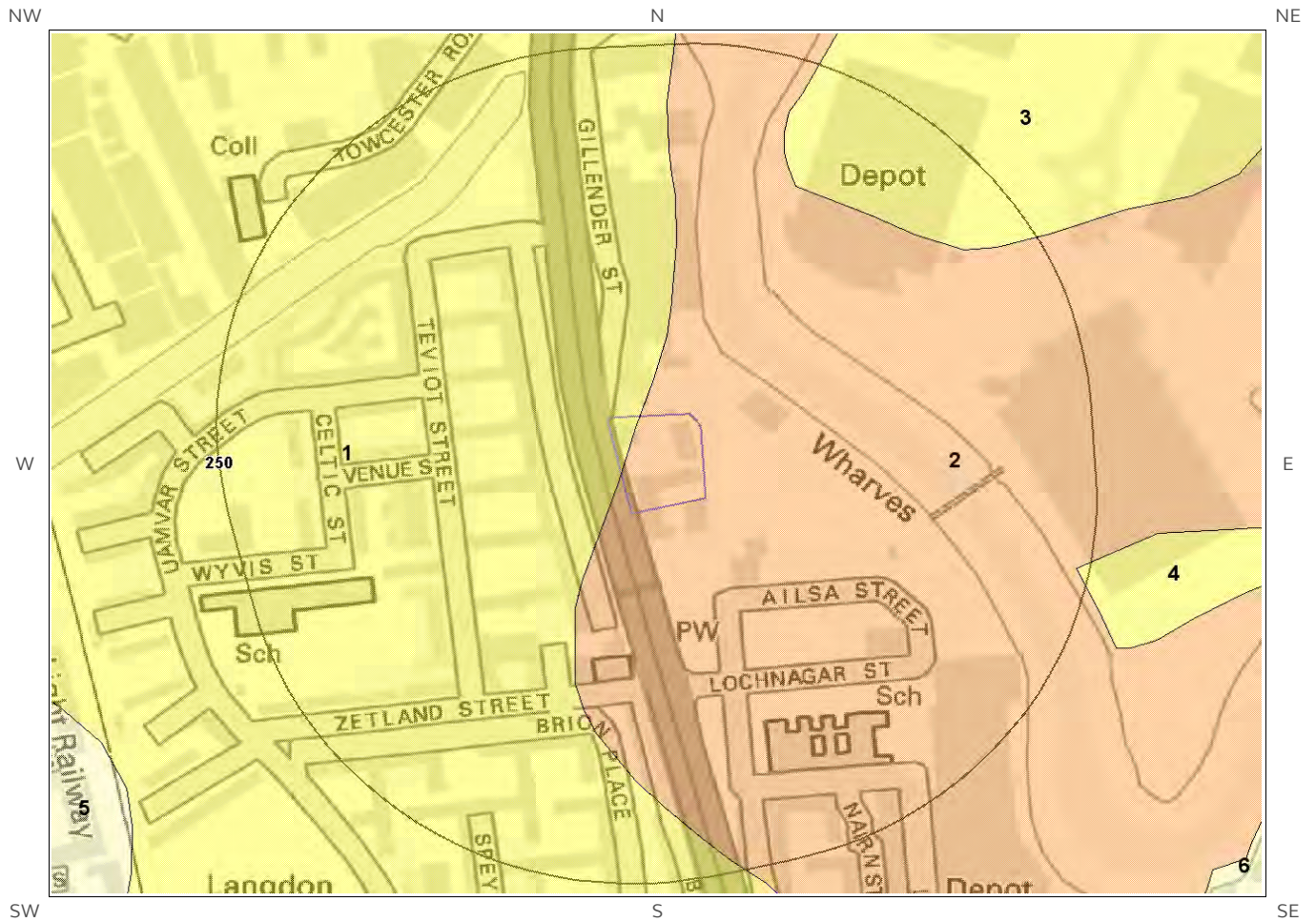
Collapsible Deposits Legend

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## 6.6 Running Sand map



Running Sand Legend

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## 6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site\* boundary? High

### 6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
2	0.0	On Site	Low	Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.

### 6.2 Landslides

The following Landslides information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

\* This includes an automatically generated 50m buffer zone around the site

## 6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

## 6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	High	Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property - probable increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly.
2	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

## 6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
2	0.0	On Site	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

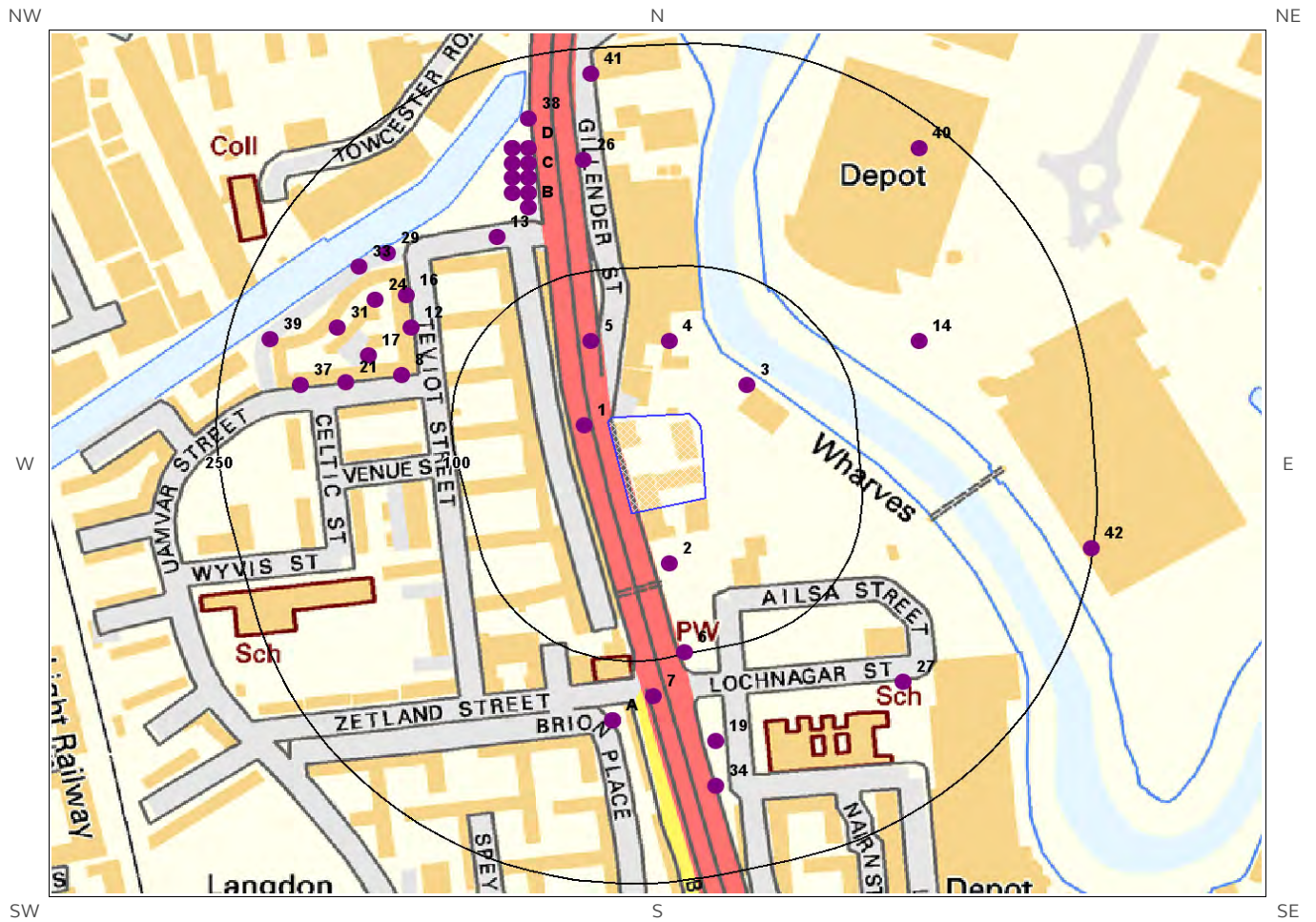


## 6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

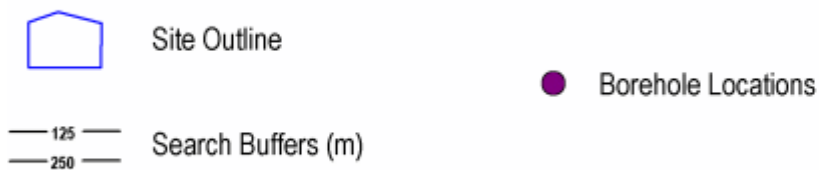
ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
2	0.0	On Site	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.

# 7 Borehole Records map



Borehole Records Legend

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# 7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary:

42

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1	15.0	W	538146 181913	TQ38SE123	18	BROMLEY HALL BRUNSWICK RD POPLAR L72
2	38.0	S	538200 181820	TQ38SE2855	25	POPLAR ABBEY MILLS 9
3	40.0	NE	538250 181940	TQ38SE742/A-C	24	ST LEONARDS WHARF BH1-3
4	50.0	N	538200 181970	TQ38SE386	7	FIRE BRIGADE STATION BROMLEY BY BOW
5	53.0	N	538150 181970	TQ38SE2857	25	POPLAR ABBEY MILLS 10
6	99.0	S	538210 181760	TQ38SE2856	25	POPLAR ABBEY MILLS 9A
7	125.0	S	538190 181730	TQ38SE124	19	ZETLAND ST & BRUNSWICK RD POPLAR L73
8	136.0	W	538029 181947	TQ38SE5301	25	TEVIOT ESTATE UAMVAR STREET LONDON 4
9A	141.0	S	538164 181714	TQ38SE1328	30	ISLE OF DOGS 104
10A	141.0	S	538164 181714	TQ38SE1327	5	ISLE OF DOGS 104PB
11A	141.0	S	538164 181714	TQ38SE1320	35	ISLE OF DOGS 104R
12	141.0	NW	538035 181979	TQ38SE5312	3	TEVIOT ESTATE UAMVAR STREET LONDON WS10
13	142.0	NW	538090 182040	TQ38SE363/A-D	7	ST LEONARDS ROAD TEVIOT ST POPLAR
14	151.0	E	538360 181970	TQ38SE2038	Not available	BROMLEY BY BOW 9
15B	151.0	N	538110 182060	TQ38SE342/K	9	ST.LEONARDS RD SITE,POPLAR,BH.
16	155.0	NW	538032 182001	TQ38SE5309	3	TEVIOT ESTATE UAMVAR STREET LONDON WS7
17	159.0	W	538008 181960	TQ38SE5311	3	TEVIOT ESTATE UAMVAR STREET LONDON WS9
18B	161.0	N	538110 182070	TQ38SE342/H	9	ST.LEONARDS RD SITE,POPLAR,BH.
19	162.0	S	538230 181700	TQ38SE2853	25	POPLAR ABBEY MILLS 8
20B	164.0	NW	538100 182070	TQ38SE342/D	15	ST.LEONARDS RD SITE,POPLAR,BH.
21	170.0	W	537993 181942	TQ38SE5310	3	TEVIOT ESTATE UAMVAR STREET LONDON WS8

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
22C	170.0	N	538110 182080	TQ38SE342/A-K	Not available	ST LEONARDS ROAD SITE L.C.C.POPLAR
23C	170.0	N	538110 182080	TQ38SE342/G	9	ST.LEONARDS RD SITE,POPLAR,BH.
24	170.0	NW	538012 181998	TQ38SE5308	3	TEVIOT ESTATE UAMVAR STREET LONDON WS6
25C	174.0	N	538100 182080	TQ38SE342/C	9	ST.LEONARDS RD SITE,POPLAR,BH.
26	174.0	N	538145 182092	TQ38SE1329	25	ISLE OF DOGS 105
27	177.0	SE	538350 181740	TQ38SE3575	25	NORTHERN DRAINAGE PHASE 2A 9B
28C	180.0	N	538110 182090	TQ38SE342/F	15	ST.LEONARDS RD SITE,POPLAR,BH.
29	181.0	NW	538020 182029	TQ38SE5306	3	TEVIOT ESTATE UAMVAR STREET LONDON WS4
30C	183.0	N	538100 182090	TQ38SE342/B	9	ST.LEONARDS RD SITE,POPLAR,BH.
31	184.0	W	537988 181979	TQ38SE5307	3	TEVIOT ESTATE UAMVAR STREET LONDON WS5
32D	189.0	N	538110 182100	TQ38SE342/E	9	ST.LEONARDS RD SITE,POPLAR,BH.
33	190.0	NW	538002 182020	TQ38SE5299	15	TEVIOT ESTATE UAMVAR STREET LONDON 2
34	191.0	S	538230 181670	TQ38SE2854	25	POPLAR ABBEY MILLS 8A
35D	192.0	N	538100 182100	TQ38SE342	Not available	ST.LEONARDS RD SITE,POPLAR,BH.
36D	192.0	N	538100 182100	TQ38SE342/A	9	ST.LEONARDS RD SITE,POPLAR,BH.
37	199.0	W	537964 181940	TQ38SE5300	15	TEVIOT ESTATE UAMVAR STREET LONDON 3
38	209.0	N	538110 182120	TQ38SE122	19	FOUR MILLS BRIDGE L26
39	223.0	W	537945 181971	TQ38SE5305	3	TEVIOT ESTATE UAMVAR STREET LONDON WS3
40	231.0	NE	538360 182100	TQ38SE2034	Not available	BROMLEY BY BOW 5
41	232.0	N	538150 182150	TQ38SE885	31	BLACKWALL TUNNEL NORTHERN APPROACH SM1/2
42	249.0	E	538470 181830	TQ38SE3746	15	BRITISH GAS CODY ROAD 1



The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1032506](https://scans.bgs.ac.uk/sobi_scans/boreholes/1032506)  
#2: [scans.bgs.ac.uk/sobi\\_scans/boreholes/13576859](https://scans.bgs.ac.uk/sobi_scans/boreholes/13576859)  
#3: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1033696](https://scans.bgs.ac.uk/sobi_scans/boreholes/1033696)  
#4: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1033058](https://scans.bgs.ac.uk/sobi_scans/boreholes/1033058)  
#5: [scans.bgs.ac.uk/sobi\\_scans/boreholes/13576861](https://scans.bgs.ac.uk/sobi_scans/boreholes/13576861)  
#6: [scans.bgs.ac.uk/sobi\\_scans/boreholes/13576860](https://scans.bgs.ac.uk/sobi_scans/boreholes/13576860)  
#7: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1032507](https://scans.bgs.ac.uk/sobi_scans/boreholes/1032507)  
#8: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18779034](https://scans.bgs.ac.uk/sobi_scans/boreholes/18779034)  
#9A: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1034387](https://scans.bgs.ac.uk/sobi_scans/boreholes/1034387)  
#10A: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1034386](https://scans.bgs.ac.uk/sobi_scans/boreholes/1034386)  
#11A: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1034379](https://scans.bgs.ac.uk/sobi_scans/boreholes/1034379)  
#12: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18779046](https://scans.bgs.ac.uk/sobi_scans/boreholes/18779046)  
#13: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1033035](https://scans.bgs.ac.uk/sobi_scans/boreholes/1033035)  
#15B: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1032961](https://scans.bgs.ac.uk/sobi_scans/boreholes/1032961)  
#16: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18779042](https://scans.bgs.ac.uk/sobi_scans/boreholes/18779042)  
#17: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18779044](https://scans.bgs.ac.uk/sobi_scans/boreholes/18779044)  
#18B: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1032960](https://scans.bgs.ac.uk/sobi_scans/boreholes/1032960)  
#19: [scans.bgs.ac.uk/sobi\\_scans/boreholes/13576857](https://scans.bgs.ac.uk/sobi_scans/boreholes/13576857)  
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#21: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18779043](https://scans.bgs.ac.uk/sobi_scans/boreholes/18779043)  
#22C: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1032962](https://scans.bgs.ac.uk/sobi_scans/boreholes/1032962)  
#23C: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1032959](https://scans.bgs.ac.uk/sobi_scans/boreholes/1032959)  
#24: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18779041](https://scans.bgs.ac.uk/sobi_scans/boreholes/18779041)  
#25C: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1032955](https://scans.bgs.ac.uk/sobi_scans/boreholes/1032955)  
#26: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1034388](https://scans.bgs.ac.uk/sobi_scans/boreholes/1034388)  
#27: [scans.bgs.ac.uk/sobi\\_scans/boreholes/13602659](https://scans.bgs.ac.uk/sobi_scans/boreholes/13602659)  
#28C: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1032958](https://scans.bgs.ac.uk/sobi_scans/boreholes/1032958)  
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#32D: [scans.bgs.ac.uk/sobi\\_scans/boreholes/1032957](https://scans.bgs.ac.uk/sobi_scans/boreholes/1032957)  
#33: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18779032](https://scans.bgs.ac.uk/sobi_scans/boreholes/18779032)  
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#39: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18779038](https://scans.bgs.ac.uk/sobi_scans/boreholes/18779038)  
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#42: [scans.bgs.ac.uk/sobi\\_scans/boreholes/13695502](https://scans.bgs.ac.uk/sobi_scans/boreholes/13695502)

## 8 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary:

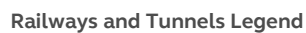
2

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	London	No data	No data	No data	No data	No data
0.0	On Site	London	No data	No data	No data	No data	No data

\*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

---



The legend defines the symbols used on the map:

- Site Outline:** Represented by a blue polygon outline.
- Search Buffers (m):** Represented by concentric circles with radii of 250m and 500m.
- Underground or Partially Underground Railway / Subway System:** Represented by a thick red line.
- Railway Tunnel (OS Mapping):** Represented by a thick blue line.
- Abandoned or Dismantled Railway (OpenStreetMap):** Represented by a thin grey line.
- Railway Track (OS Mapping):** Represented by a thin red line.
- Railway Track (OpenStreetMap):** Represented by a thin green line.
- High Speed 2:** Represented by a thick red line.
- High Speed 2 Revised Proposed Route:** Represented by a thick purple line.
- Crossrail 1:** Represented by a thick blue line.
- Railway and/or Tunnel Feature from Historical Mapping:** Represented by a pink shaded area.



# 9 Railways and Tunnels

## 9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels map.*

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels map.*

## 9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? No

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Details	Date
21F	10	E	538278 181876	Railway Sidings	1953
22	11	E	538302 181901	Railway Sidings	1916
23F	13	E	538282 181876	Railway Sidings	1962
24F	13	E	538279 181876	Railway Sidings	1953
25F	13	E	538280 181876	Railway Sidings	1953
26	56	SE	538303 181833	Railway Sidings	1916

ID	Distance (m)	Direction	NGR	Details	Date
27	95	NE	n/a	Railway	1930
28	128	E	538365 181814	Railway Sidings	1916
1	135	NE	584323 179923	Railway Sidings	1938
29	142	E	538391 181819	Railway Sidings	1896
2	145	NE	538536 182049	Railway Sidings	1949
3	151	NE	538423 182067	Railway Sidings	1894
4B	158	NE	538373 182022	Railway Sidings	1894
5	159	NE	538540 182034	Railway Sidings	1920
6A	164	NE	538404 182081	Railway Sidings	1894
7A	165	NE	538400 182079	Railway Sidings	1896
30A	165	NE	538400 182079	Railway Sidings	1896
8B	168	NE	538376 182022	Railway Sidings	1898
31	171	NE	538534 182052	Railway Sidings	1916
32A	171	NE	538405 182077	Tramway Sidings	1896
33	185	N	538733 182413	Railway Sidings	1948
34	203	NW	538016 182099	Railway Sidings	1916
35	205	NW	538009 182109	Railway Sidings	1896
36	217	NW	n/a	Railways	1897
37G	217	NW	n/a	Railways	1930
38G	217	NW	n/a	Railways	1916
9	218	NW	537796 181876	Railway Sidings	1894
10C	219	NE	538477 182254	Railway Sidings	1965
11C	219	NE	538477 182254	Railway Sidings	1955
12H	219	NW	537794 182073	Railway Sidings	1894
13D	219	NW	537824 182109	Railway Sidings	1898
14	220	NW	537798 182158	Railway Sidings	1949
15	222	NW	537744 182289	Railway Sidings	1894
16D	227	NW	537825 182085	Railway Sidings	1896
39D	227	NW	537825 182085	Railway Sidings	1896
40	227	NE	538379 182117	Railway Sidings	1952
41H	228	NW	537798 182077	Railway Sidings	1896

ID	Distance (m)	Direction	NGR	Details	Date
42	240	SE	538428 181690	Railway Sidings	1916
17	242	W	537712 182295	Railway Sidings	1920
18	242	NE	538630 182254	Railway Sidings	1973
19E	244	NW	537645 182309	Railway Sidings	1965
20E	244	NW	537645 182309	Railway Sidings	1955
43	247	NE	538725 182414	Railway Sidings	1962
44	248	NE	538355 182132	Railway Sidings	1963

*Any records that have been identified are represented on the Railways and Tunnels map.*

### 9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? No

Have any historical railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above

*Any records that have been identified are represented on the Railways and Tunnels map.*

### 9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? No

Have any active railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above

*Any records that have been identified are represented on the Railways and Tunnels map.*

### 9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project? No

Is the study site within 500m of the route of the Crossrail 1 rail project? No

*Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a Groundsure HS2 and Crossrail 1 Report.*



The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

# Contact Details

Groundsure Helpline  
Telephone: 08444 159 000  
info@groundsure.com



## British Geological Survey Enquiries

Kingsley Dunham Centre  
Keyworth, Nottingham NG12 5GG  
Tel: 0115 936 3143.  
Fax: 0115 936 3276.  
Email: [enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)  
Web: [www.bgs.ac.uk](http://www.bgs.ac.uk)



BGS Geological Hazards Reports and general geological enquiries

## British Gypsum

British Gypsum Ltd  
East Leake  
Loughborough  
Leicestershire  
LE12 6HX



## The Coal Authority

200 Lichfield Lane  
Mansfield  
Notts NG18 4RG  
Tel: 0345 7626 848  
DX 716176 Mansfield 5  
[www.coal.gov.uk](http://www.coal.gov.uk)



## Public Health England

Public information access office  
Public Health England, Wellington House  
133-155 Waterloo Road, London, SE1 8UG  
<https://www.gov.uk/government/organisations/public-health-england>  
Email: [enquiries@phe.gov.uk](mailto:enquiries@phe.gov.uk)  
Main switchboard: 020 7654 8000



## Johnson Poole & Bloomer Limited

Harris and Pearson Building, Brettell Lane  
Brierley Hill, West Midlands  
DY5 3LH  
Tel: +44 (0) 1384 262 000  
Email: [enquiries.gs@jpb.co.uk](mailto:enquiries.gs@jpb.co.uk)  
Website: [www.jpb.co.uk](http://www.jpb.co.uk)



## Ordnance Survey

Adanac Drive, Southampton  
SO16 0AS  
Tel: 08456 050505  
Website: <http://www.ordnancesurvey.co.uk/>



## Getmapping PLC

Virginia Villas, High Street, Hartley Witney,  
Hampshire RG27 8NW  
Tel: 01252 845444  
Website: <http://www1.getmapping.com/>



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**Peter Brett Associates**  
Caversham Bridge House  
Waterman Place  
Reading  
Berkshire RG1 8DN  
Tel: +44 (0)118 950 0761 E-mail: [reading@pba.co.uk](mailto:reading@pba.co.uk)  
Website: <http://www.peterbrett.com/home>



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**Client Ref:** P3331\_-\_PO6656  
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**Grid Ref:** 538192, 181888

**Map Name:** County Series

**Map date:** 1869

**Scale:** 1:2,500

**Printed at:** 1:2,500



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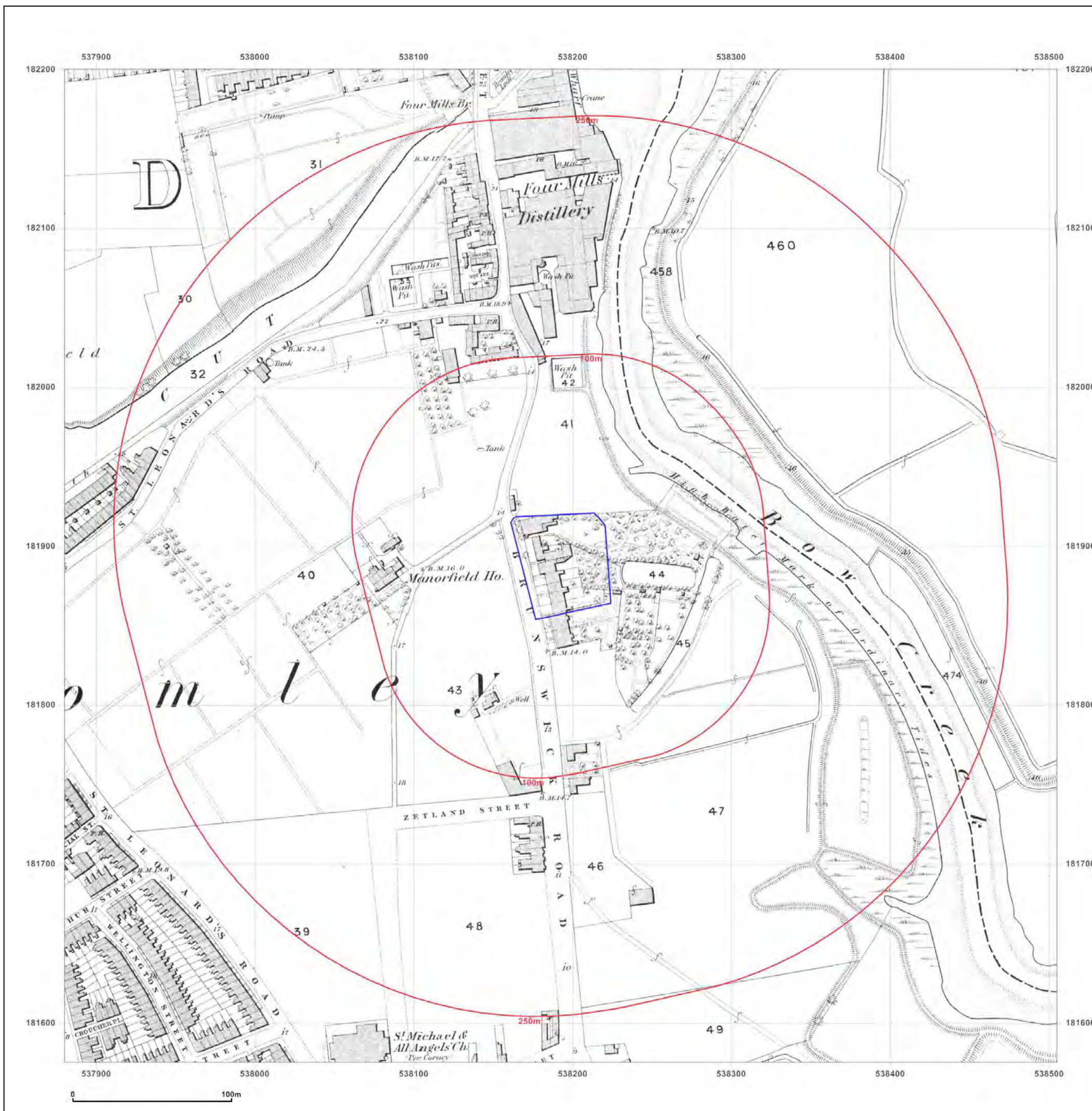


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T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
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**Client Ref:** P3331\_-\_PO6656  
**Report Ref:** GS-6041227  
**Grid Ref:** 538192, 181888

**Map Name:** 1056 Scale Town Plan

**Map date:** 1870

**Scale:** 1:1,056

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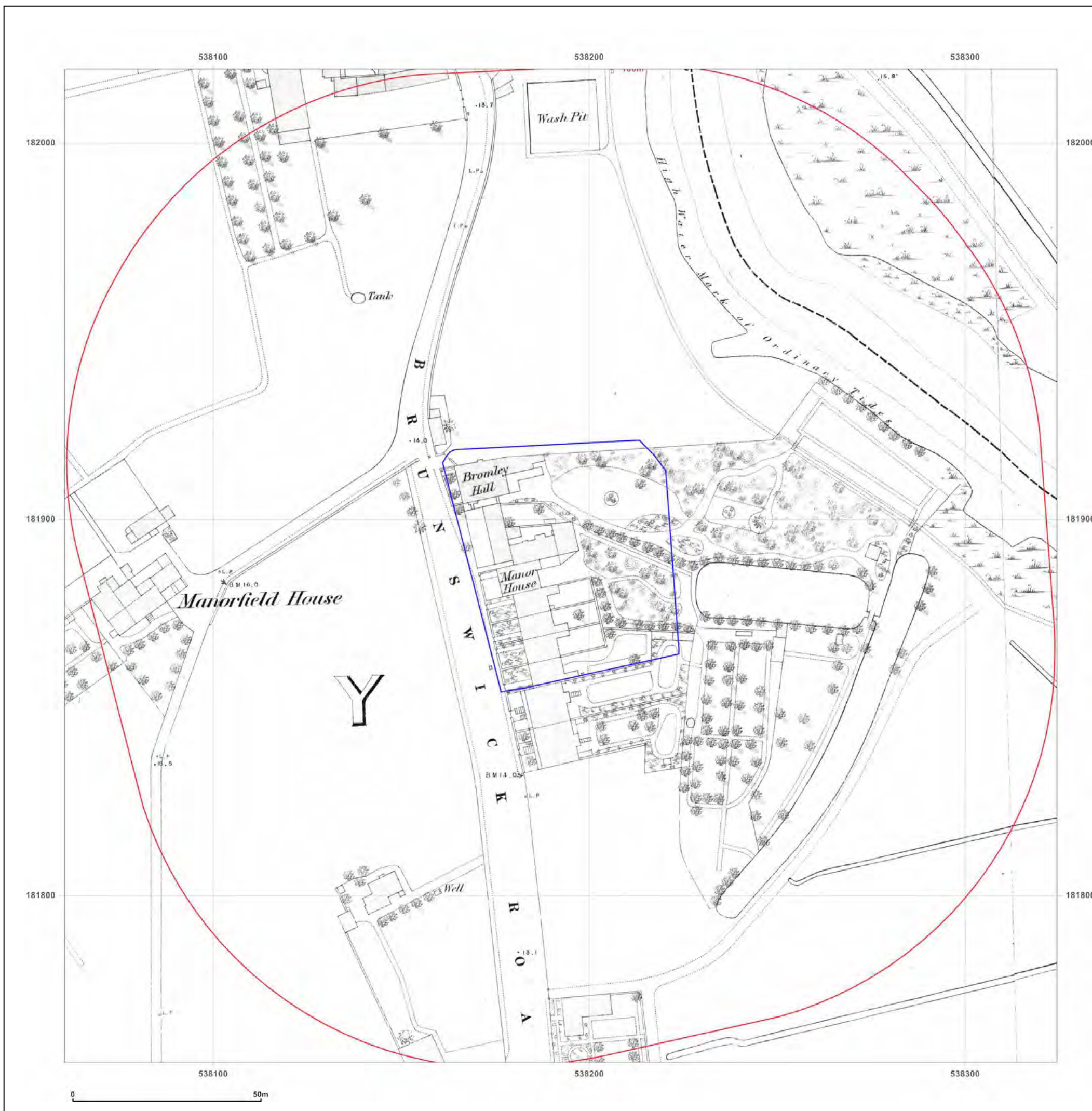


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**Map date:** 1870

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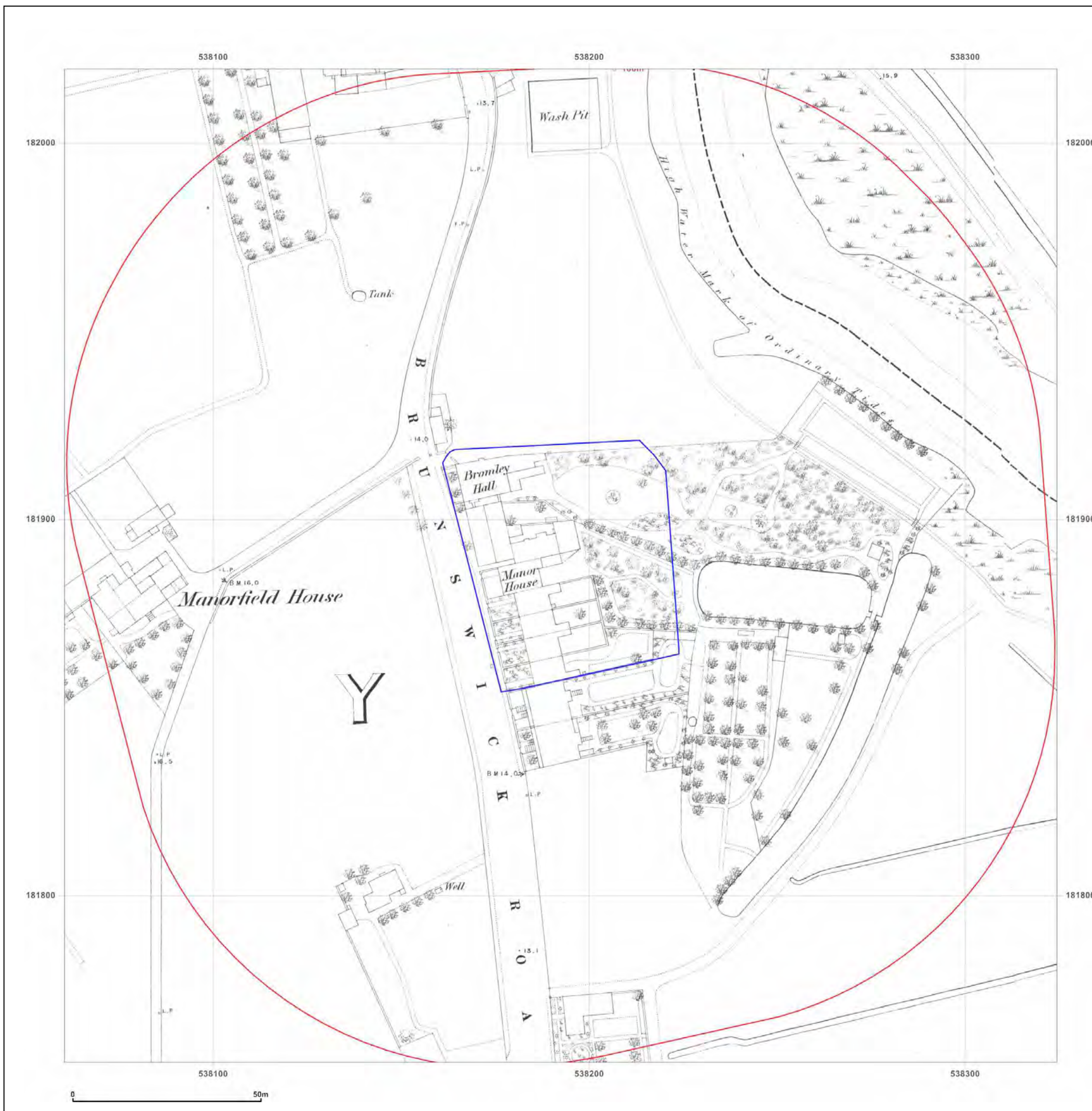


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**Client Ref:** P3331\_-\_PO6656  
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**Grid Ref:** 538192, 181888

**Map Name:** 1056 Scale Town Plan

**Map date:** 1896

**Scale:** 1:1,056

**Printed at:** 1:1,056



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Grid Ref: 538192, 181888

Map Name: County Series

Map date: 1896

Scale: 1:2,500

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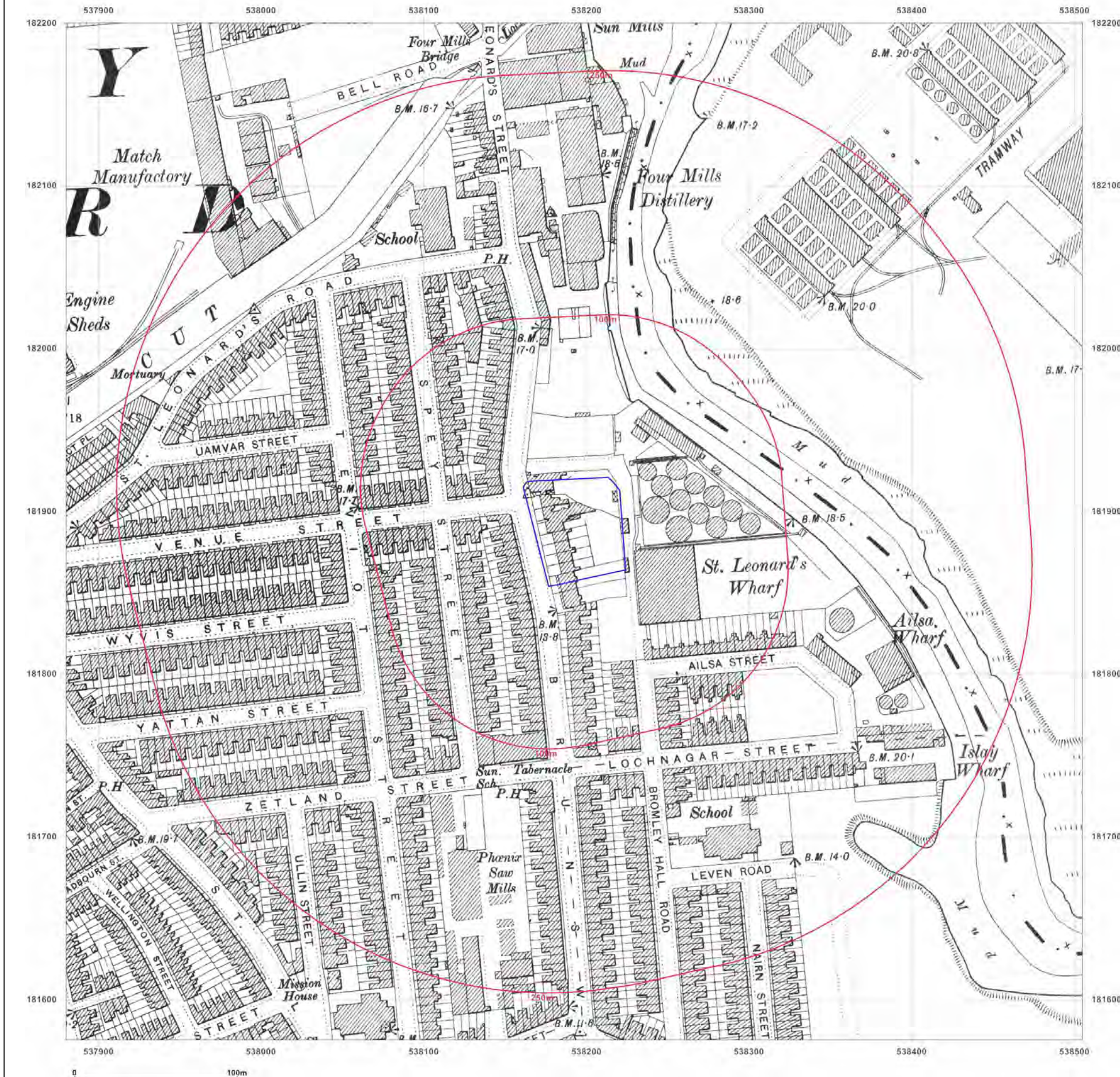


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**Client Ref:** P3331\_-\_PO6656  
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**Grid Ref:** 538192, 181888

**Map Name:** County Series

**Map date:** 1916

**Scale:** 1:2,500

**Printed at:** 1:2,500



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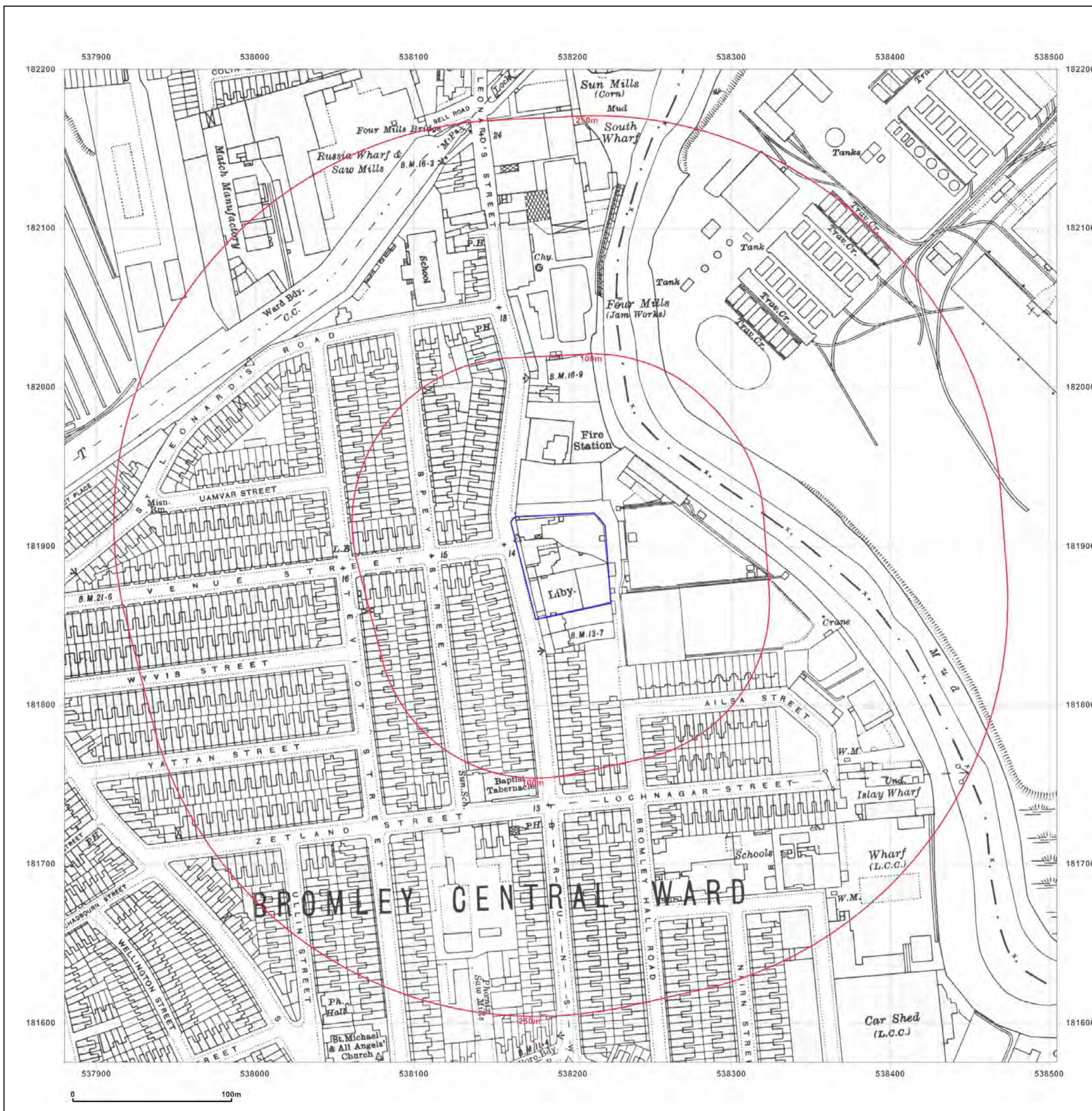


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Report Ref: GS-6041227  
Grid Ref: 538192, 181888

Map Name: National Grid

Map date: 1947-1948

Scale: 1:1,250

Printed at: 1:2,000



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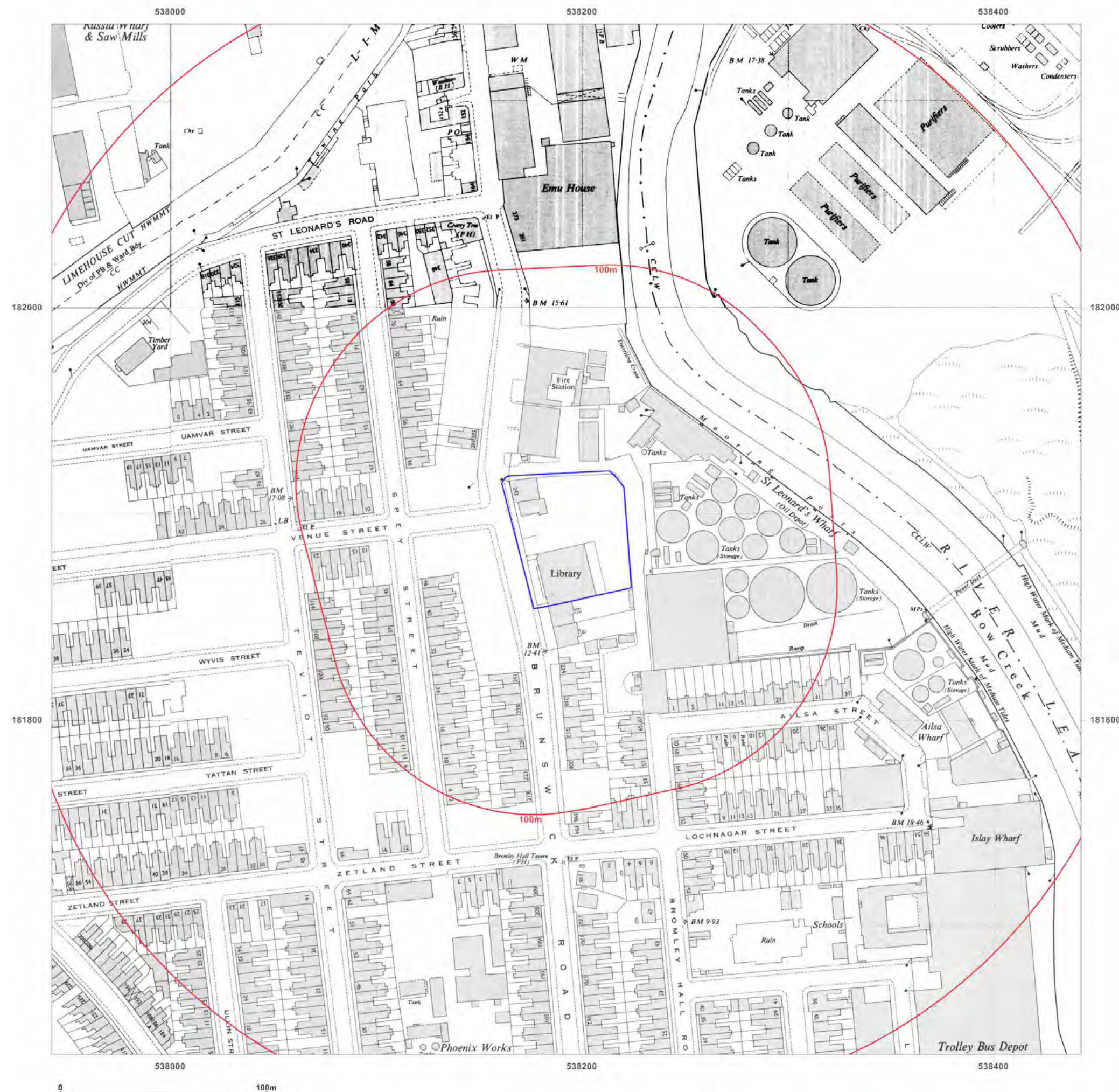


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43-44 GILLESPIE STREET,  
LONDON, E14 6RN

Client Ref: P3331\_-\_PO6656  
Report Ref: GS-6041227  
Grid Ref: 538192, 181888

Map Name: National Grid

Map date: 1947-1949

Scale: 1:2,500

Printed at: 1:2,500



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**Client Ref:** P3331\_-\_PO6656  
**Report Ref:** GS-6041227  
**Grid Ref:** 538192, 181888

**Map Name:** National Grid

**Map date:** 1952-1954

**Scale:** 1:1,250

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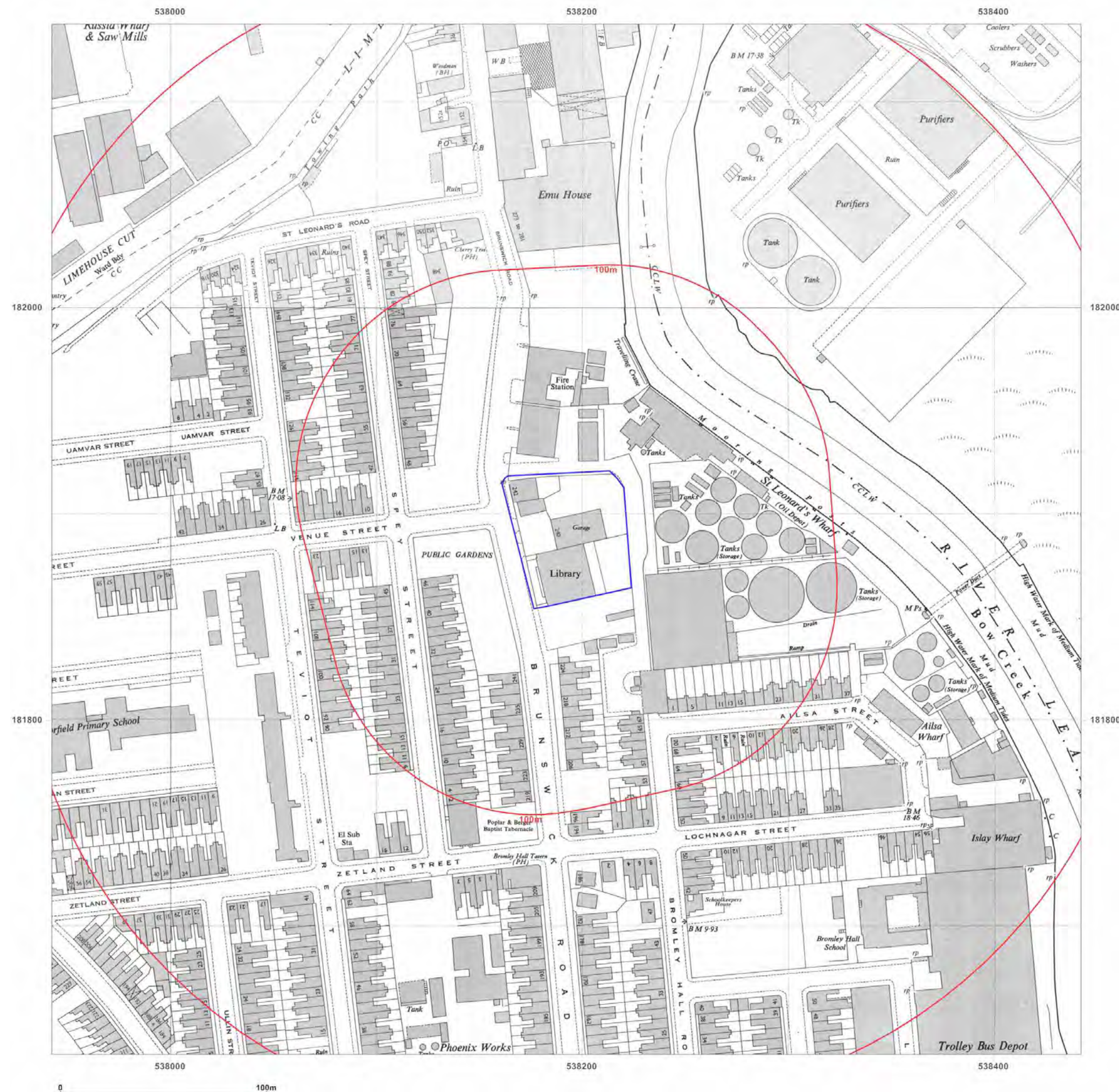


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**Client Ref:** P3331\_-\_PO6656  
**Report Ref:** GS-6041227  
**Grid Ref:** 538192, 181888

**Map Name:** National Grid

**Map date:** 1953-1954

**Scale:** 1:2,500

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Client Ref: P3331\_-\_PO6656  
Report Ref: GS-6041227  
Grid Ref: 538192, 181888

Map Name: National Grid

Map date: 1953-1955

Scale: 1:1,250

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