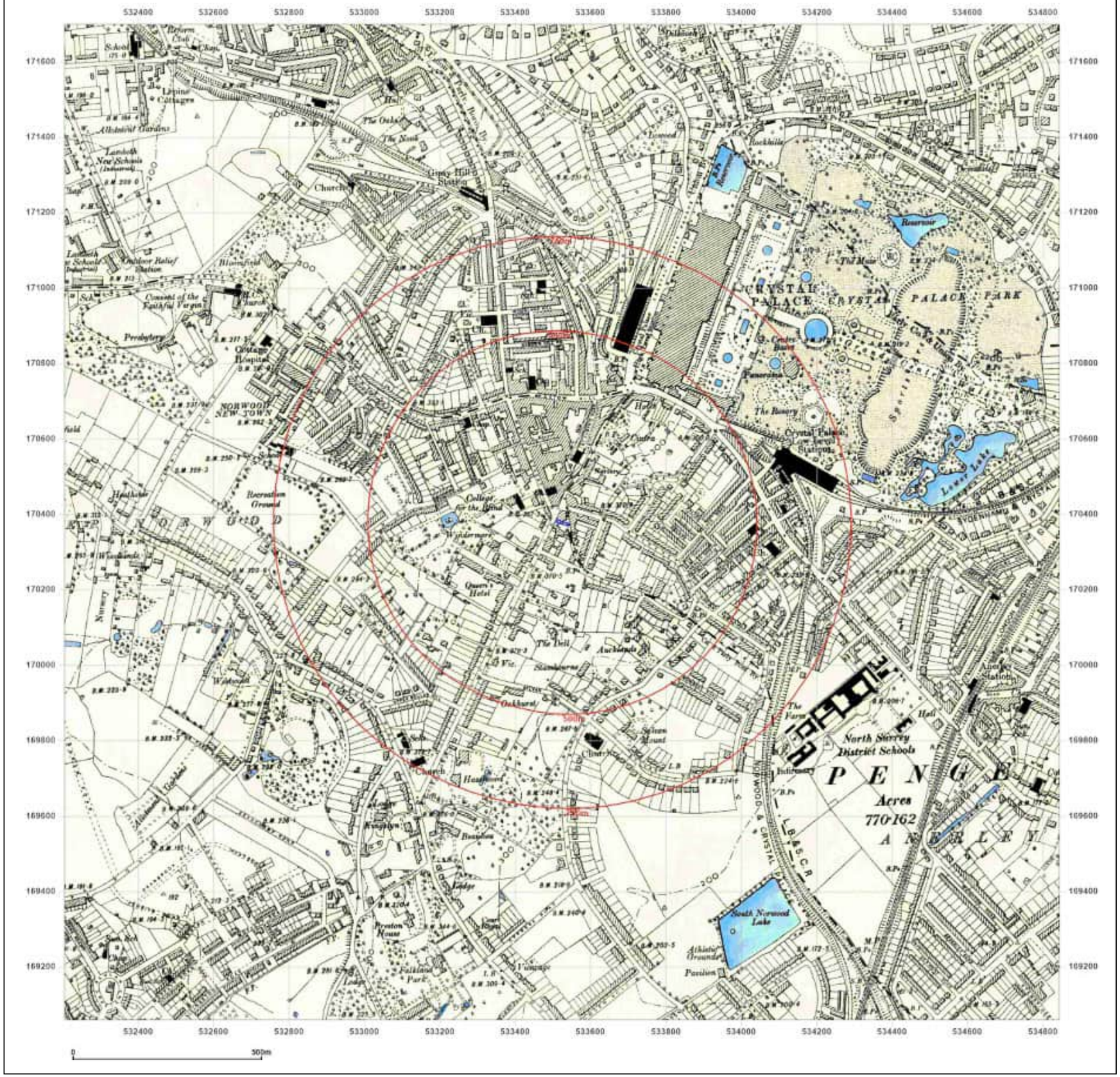

Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: County Series

Map date: **1898**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1895
Revised N/A
Edition 1898
Copyright N/A
Levelled N/A

Powered by OS

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Production date: 19 August 2022

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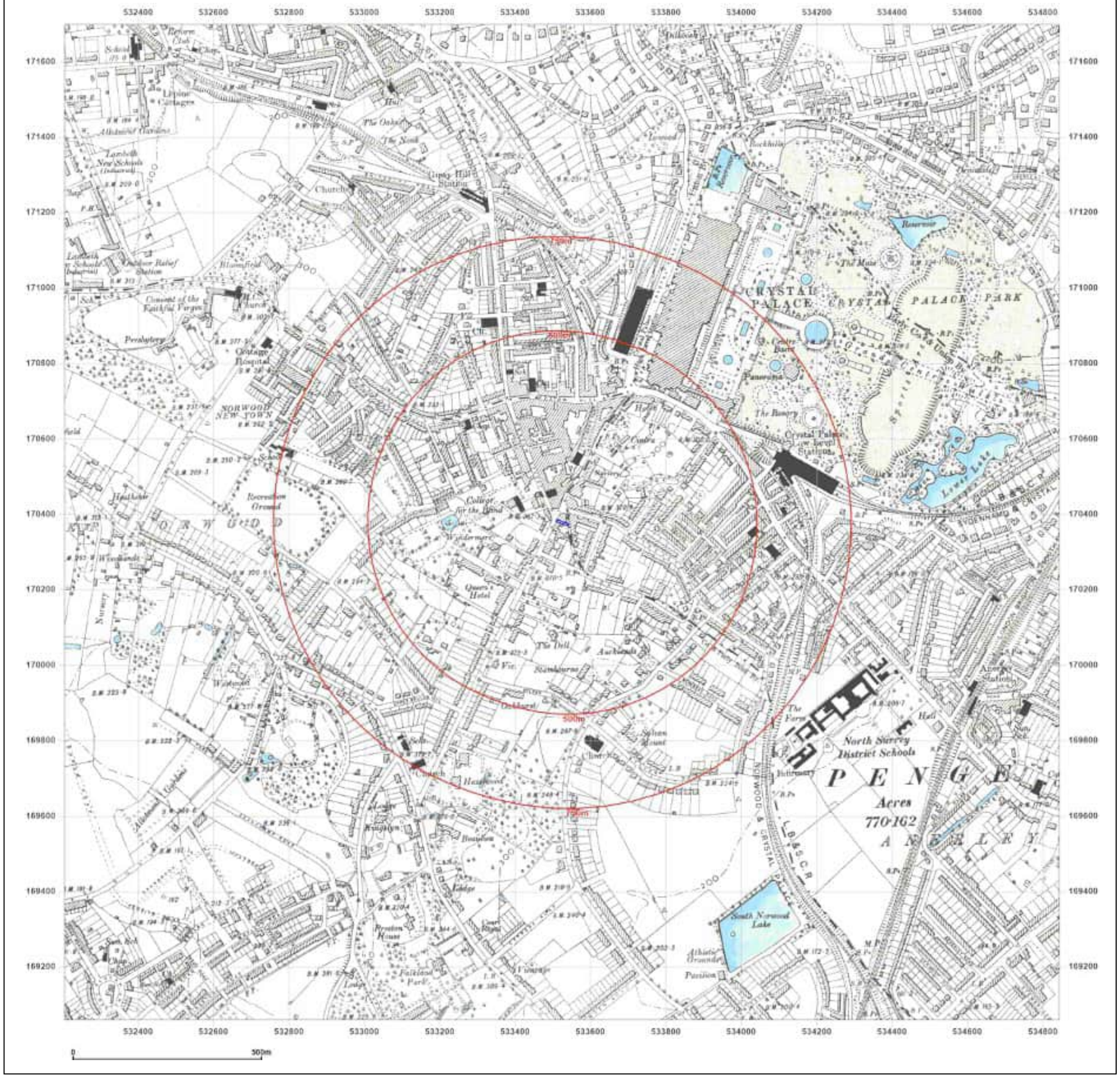

Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: County Series

Map date: **1898**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1862
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: County Series

Map date: **1915**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1862
Revised 1915
Edition N/A
Copyright N/A
Levelled N/A

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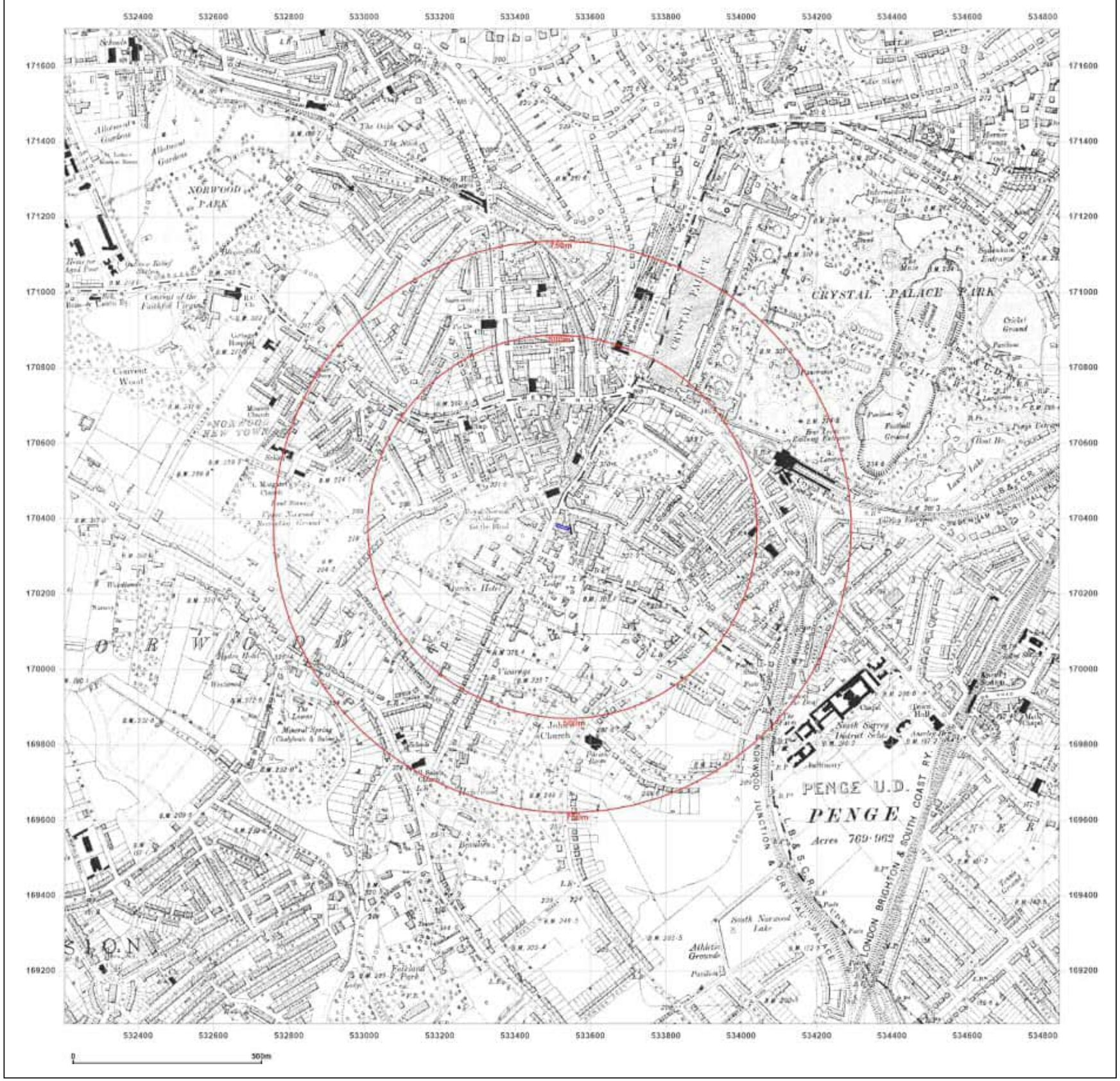

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Site Details:

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Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: County Series

Map date: **1919**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1869
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

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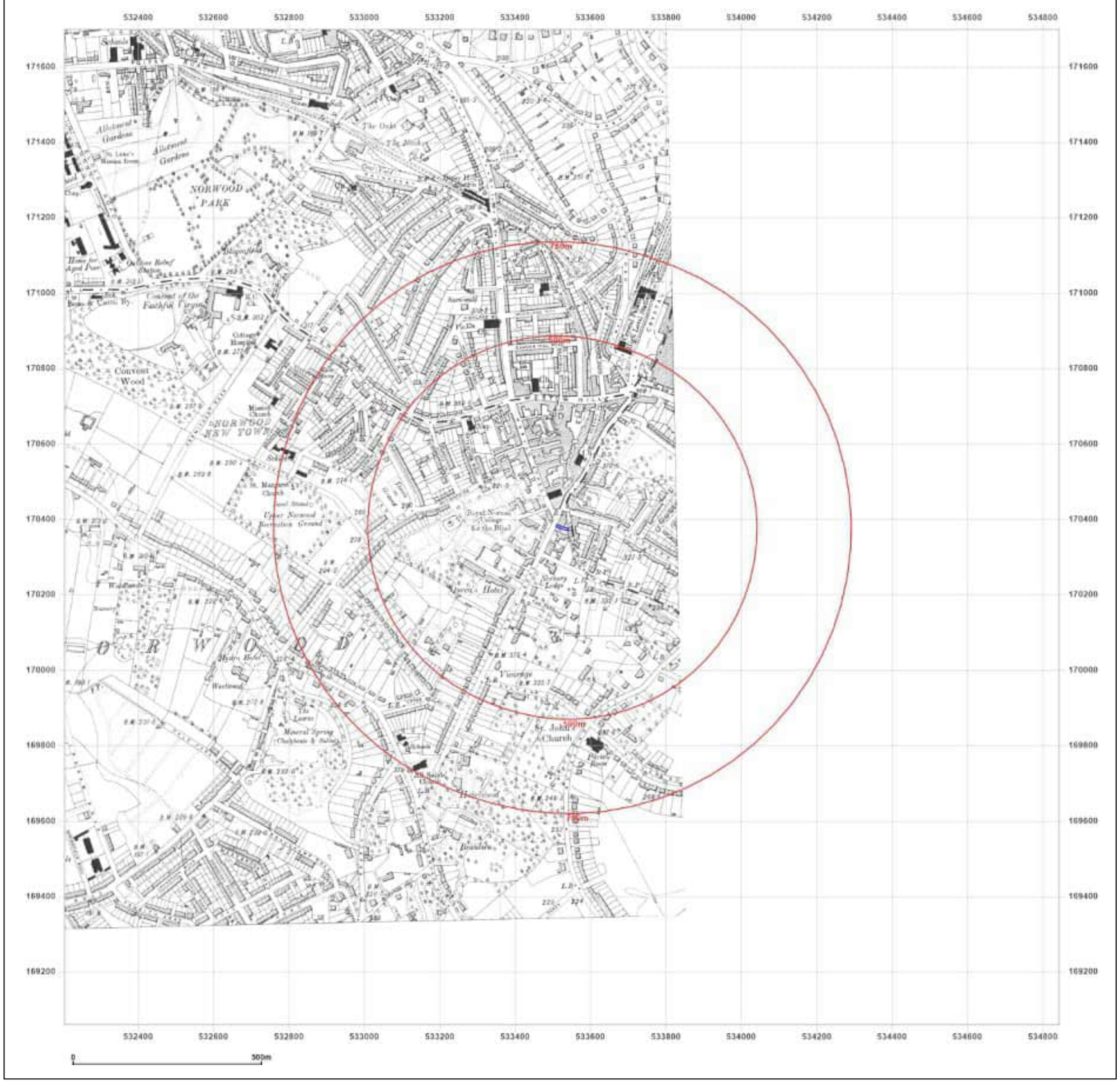

Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: County Series

Map date: **1920**

Scale: 1:10,560

Printed at: 1:10,560

N
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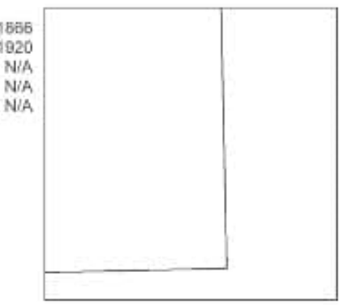
Surveyed 1866
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



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Groundsure INSIGHTS

Site Details:

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Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: County Series

Map date: **1930**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1862
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

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Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: County Series

Map date: **1932-1933**

Scale: 1:10,560

Printed at: 1:10,560

N
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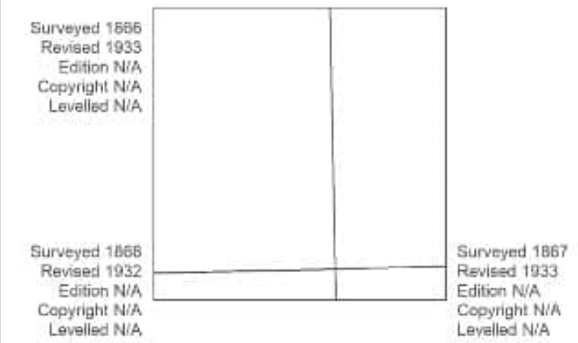

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Site Details:

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Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

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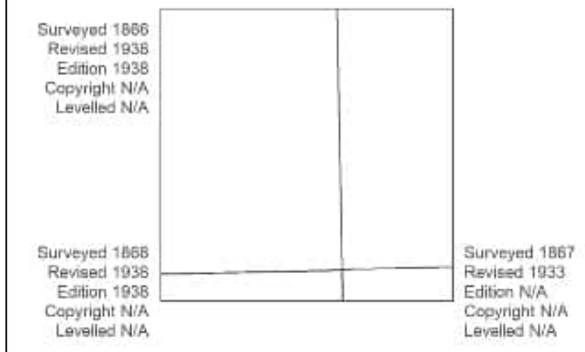

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Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1862
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

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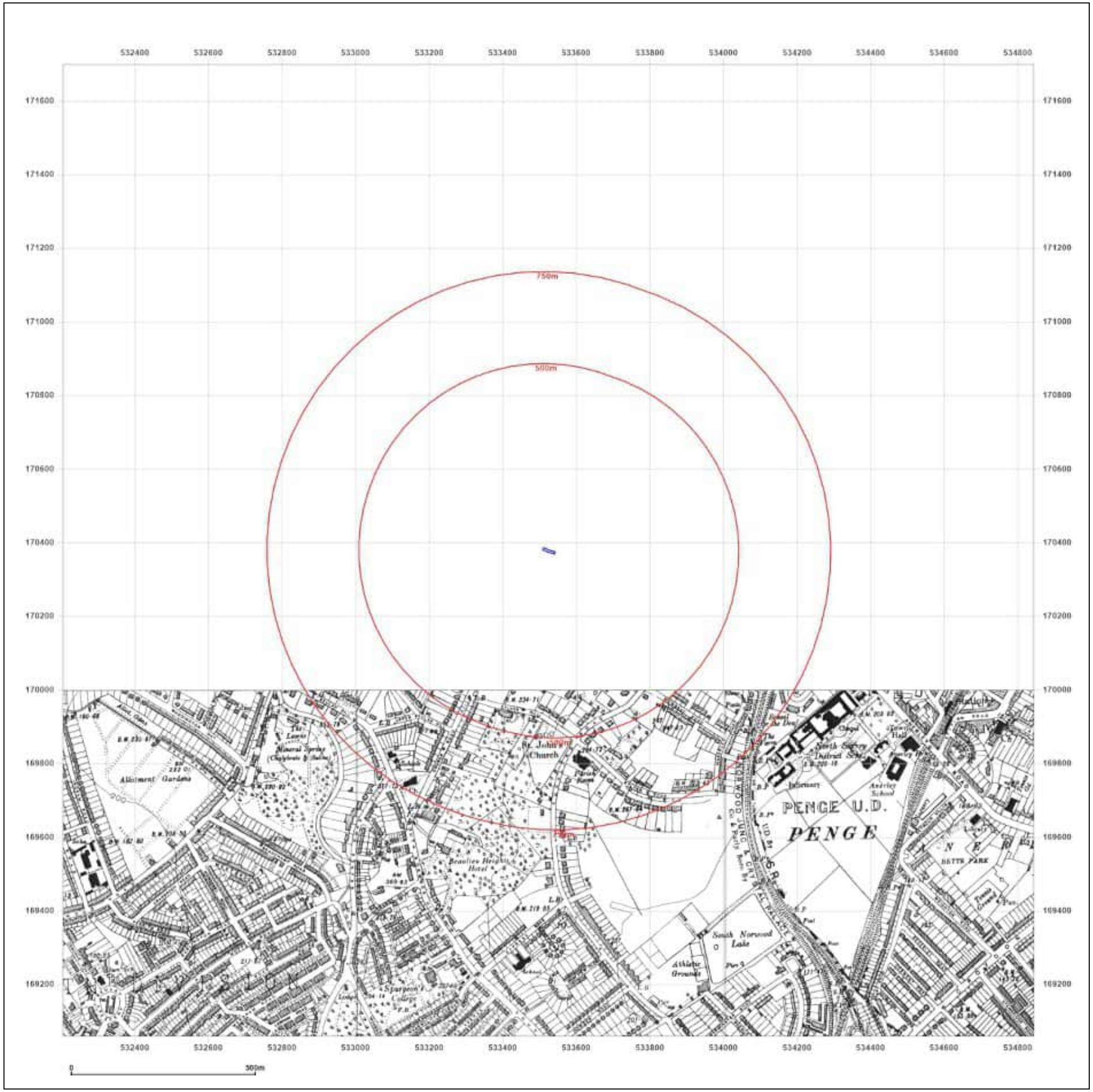

Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: Provisional
Map date: **1948**
Scale: 1:10,560
Printed at: 1:10,560

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

Powered by OS

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W: www.groundsure.com

Production date: 19 August 2022

Map legend available at:
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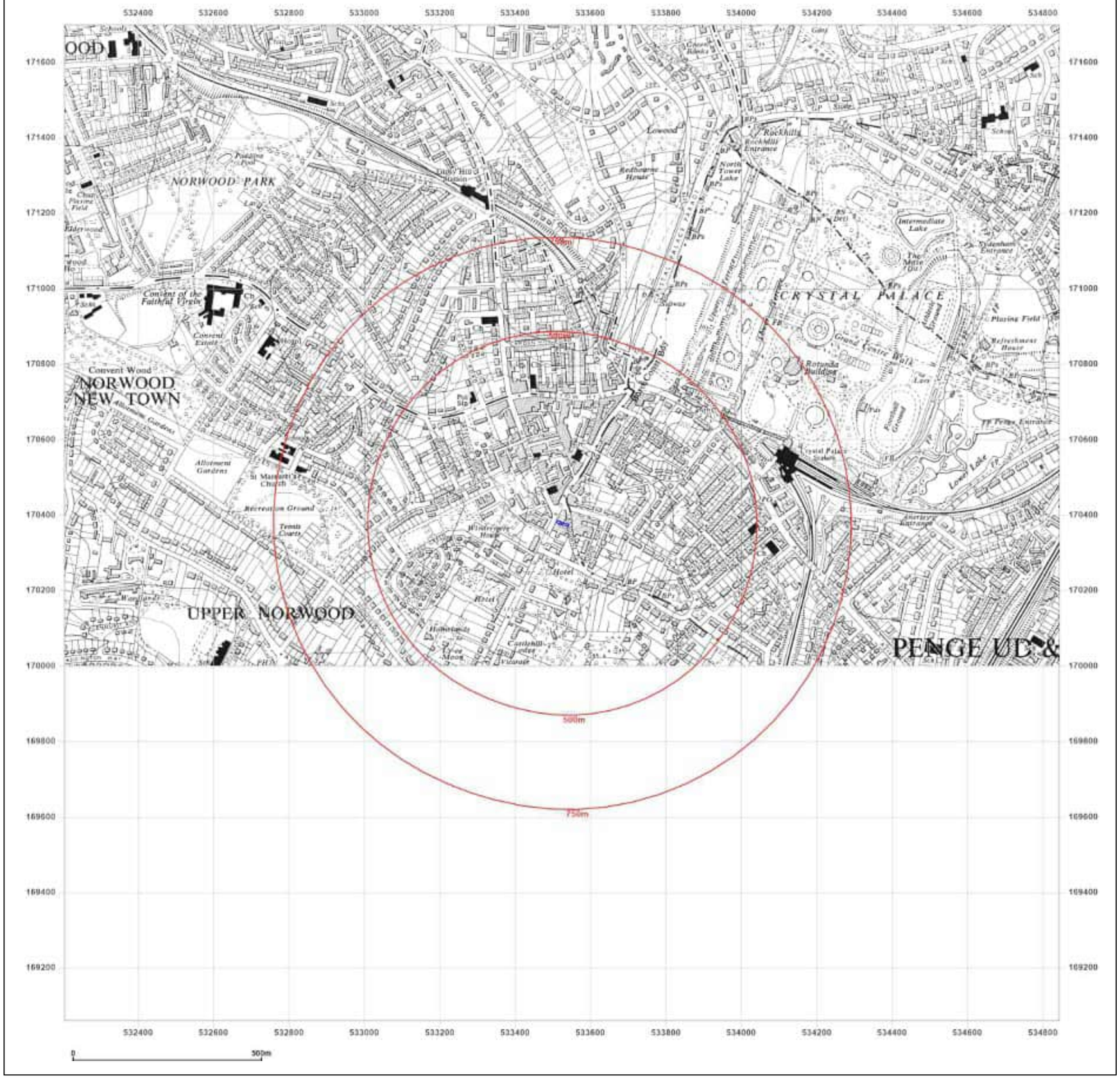

Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: Provisional

Map date: **1957**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

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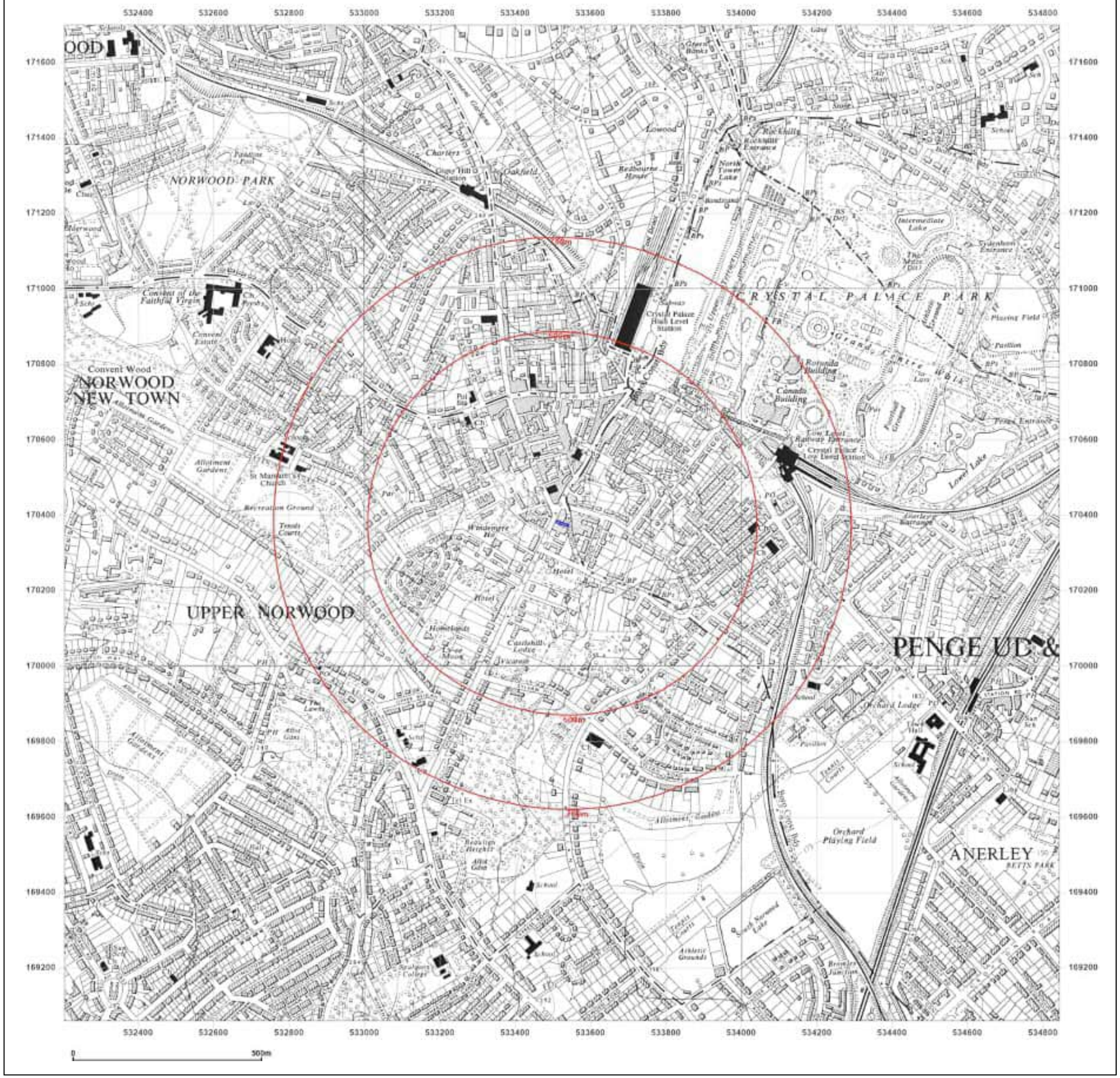

Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: Provisional

Map date: **1955-1958**

Scale: 1:10,560

Printed at: 1:10,560

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

Surveyed 1958
Revised 1958
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: Provisional

Map date: **1965-1968**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

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

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Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: National Grid

Map date: **1973-1974**

Scale: 1:10,000

Printed at: 1:10,000

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

Surveyed 1974
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

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Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: National Grid

Map date: **1981-1982**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

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

Surveyed 1979
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 19 August 2022

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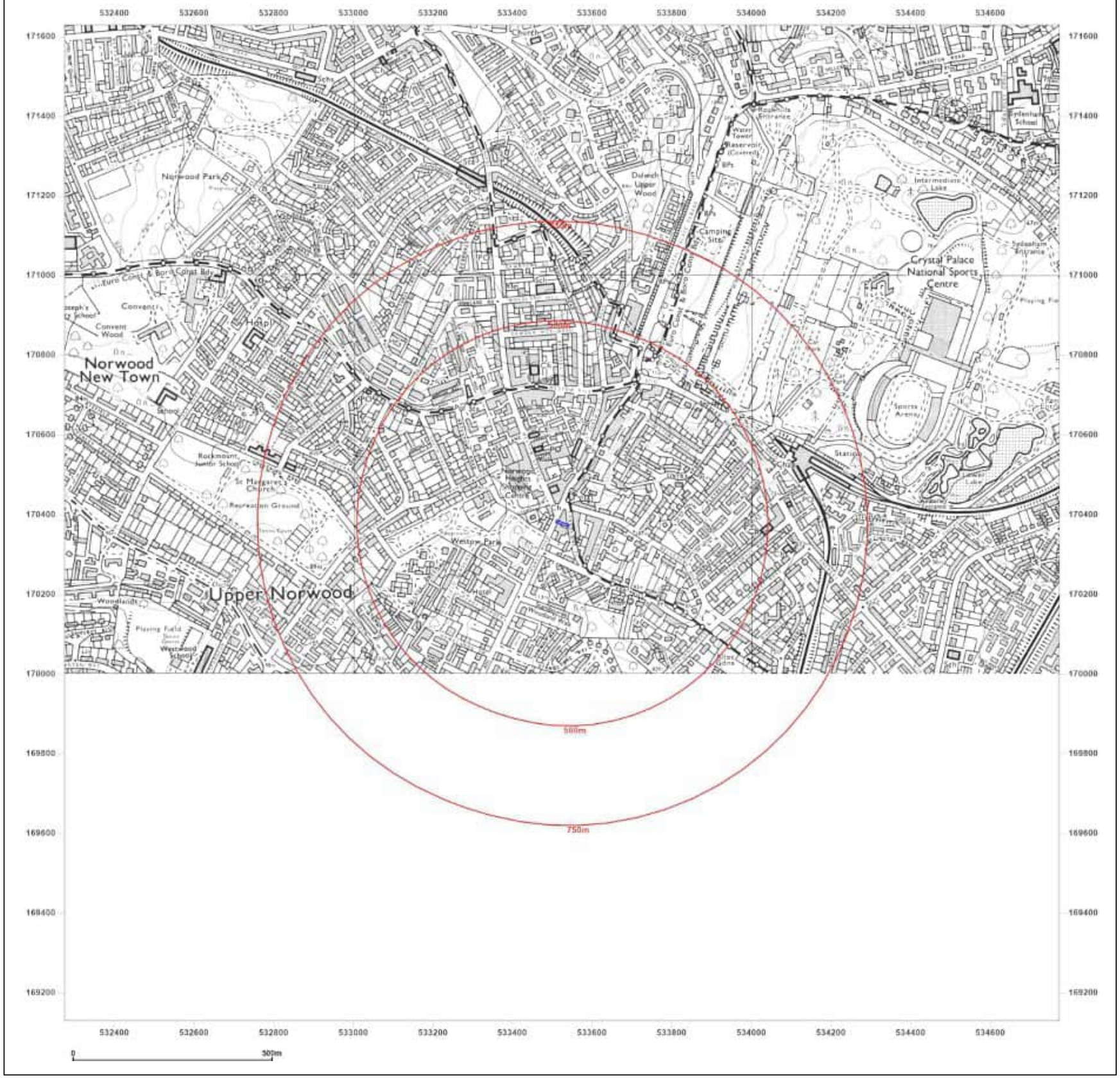

Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: National Grid

Map date: **1992**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1982
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 19 August 2022

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Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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2001

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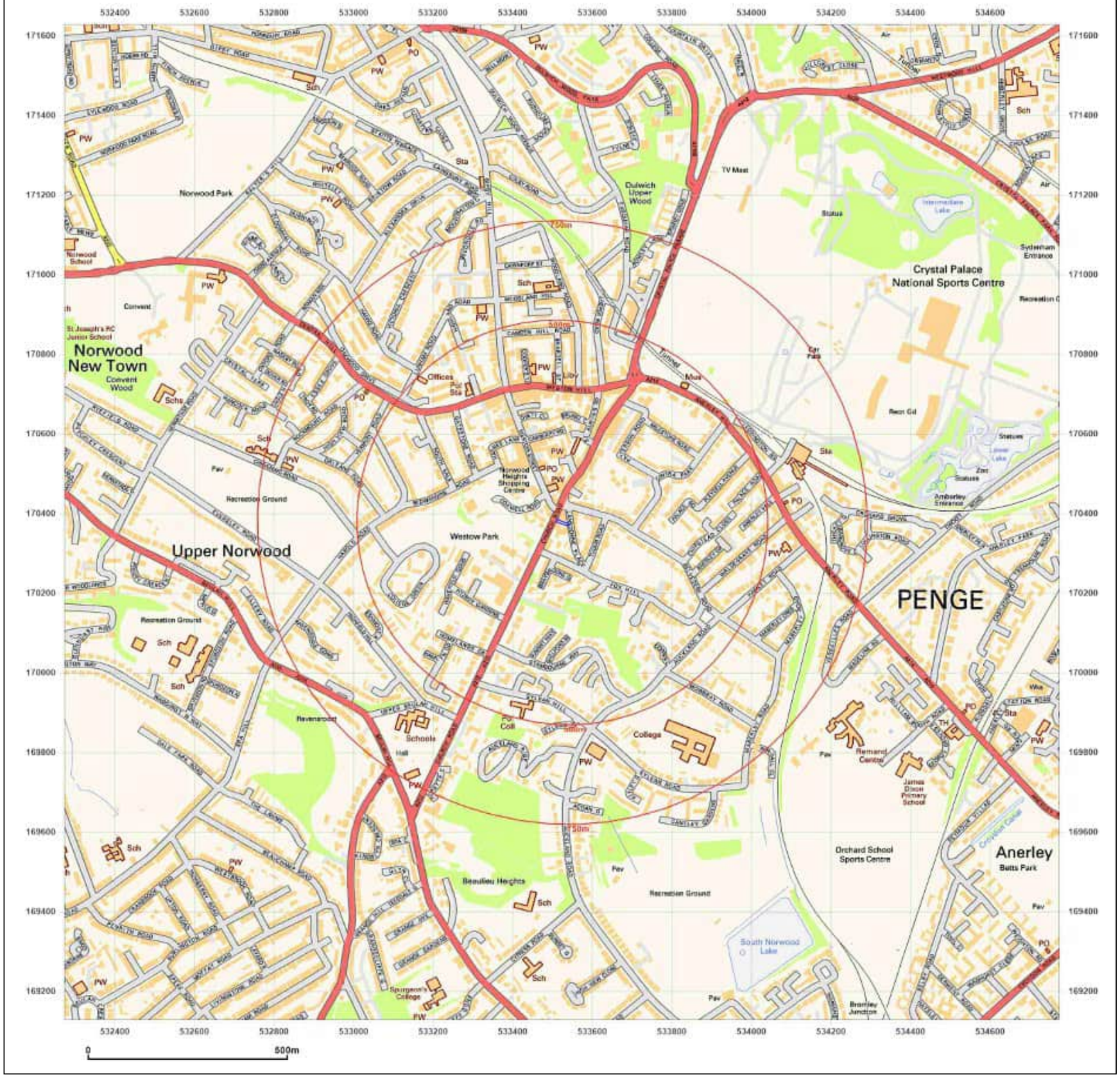

Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
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2010

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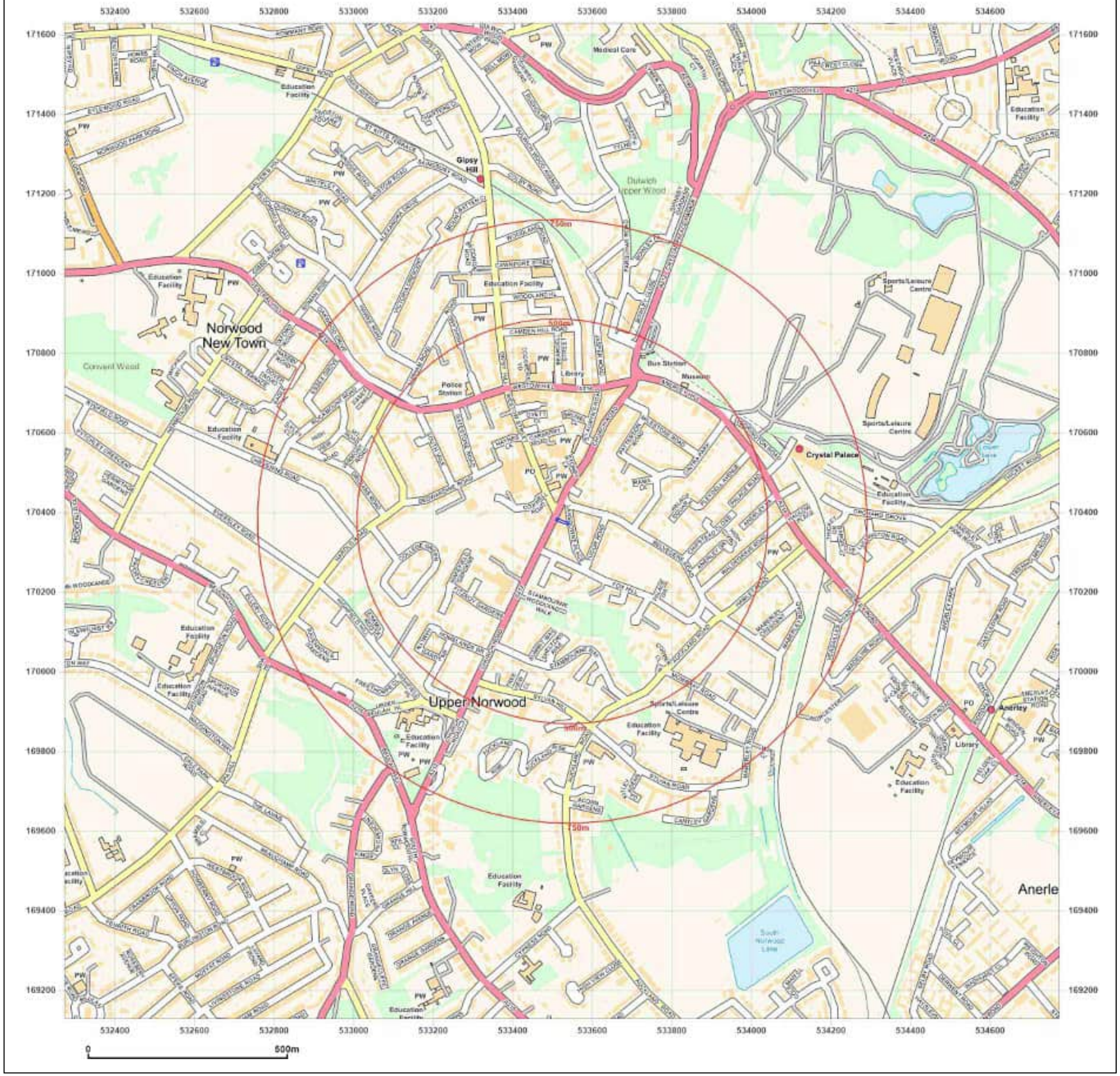

Groundsure INSIGHTS

Site Details:

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Client Ref: PH1-2022-000076
Report Ref: GS-8994761
Grid Ref: 533524, 170378

Map Name: National Grid

Map date: **2022**

Scale: 1:10,000

Printed at: 1:10,000

N
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2022

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Production date: 19 August 2022

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21 APPENDIX 4 – ENVIRONMENTAL SCREENING REPORT

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

109, CHURCH ROAD, UPPER NORWOOD, LONDON, SE19 2PR

Order Details

Date: 19/08/2022

Your ref: PH1-2022-000076

Our Ref: GS-8994762

Site Details

Location: 533525 170377

Area: 0.02 ha

Authority: London Borough of Croydon

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	0	0	13	33	-
16	1.2	Historical tanks	0	2	7	8	-
17	1.3	Historical energy features	0	0	6	48	-
20	1.4	Historical petrol stations	0	0	0	0	-
20	1.5	Historical garages	0	2	9	9	-
21	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
22	2.1	Historical industrial land uses	0	0	24	53	-
25	2.2	Historical tanks	0	2	13	17	-
27	2.3	Historical energy features	0	0	12	101	-
31	2.4	Historical petrol stations	0	0	0	0	-
31	2.5	Historical garages	0	2	15	17	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
34	3.1	Active or recent landfill	0	0	0	0	-
34	3.2	Historical landfill (BGS records)	0	0	0	0	-
35	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
35	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
35	3.5	Historical waste sites	0	0	0	0	-
35	3.6	Licensed waste sites	0	0	0	0	-
35	3.7	Waste exemptions	0	0	6	3	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
37	4.1	Recent industrial land uses	0	1	12	-	-
38	4.2	Current or recent petrol stations	0	0	0	0	-
39	4.3	Electricity cables	0	0	0	0	-
39	4.4	Gas pipelines	0	0	0	0	-
39	4.5	Sites determined as Contaminated Land	0	0	0	0	-

39	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
39	4.7	Regulated explosive sites	0	0	0	0	-
40	4.8	Hazardous substance storage/usage	0	0	0	0	-
40	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
40	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
40	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	1	0	1	-
41	4.12	Radioactive Substance Authorisations	0	0	0	0	-
41	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
41	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
41	4.15	Pollutant release to public sewer	0	0	0	0	-
41	4.16	List 1 Dangerous Substances	0	0	0	0	-
42	4.17	List 2 Dangerous Substances	0	0	0	0	-
42	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
42	4.19	Pollution inventory substances	0	0	0	0	-
42	4.20	Pollution inventory waste transfers	0	0	0	0	-
42	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
43	**5.1**	**Superficial aquifer**	Identified (within 500m)				
45	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
47	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
48	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
48	5.5	Groundwater vulnerability- local information	None (within 0m)				
49	5.6	Groundwater abstractions	0	0	0	0	0
49	5.7	Surface water abstractions	0	0	0	0	0
49	5.8	Potable abstractions	0	0	0	0	0
49	5.9	Source Protection Zones	0	0	0	0	-
50	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
51	6.1	Water Network (OS MasterMap)	0	0	0	-	-

51	6.2	Surface water features	0	0	0	-	-
52	**6.3**	**WFD Surface water body catchments**	1	-	-	-	-
52	6.4	WFD Surface water bodies	0	0	0	-	-
52	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
53	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
53	7.2	Historical Flood Events	0	0	0	-	-
53	7.3	Flood Defences	0	0	0	-	-
54	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
54	7.5	Flood Storage Areas	0	0	0	-	-
55	7.6	Flood Zone 2	None (within 50m)				
55	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
56	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
57	**9.1**	**Groundwater flooding**	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
58	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
59	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
59	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
59	10.4	Special Protection Areas (SPA)	0	0	0	0	0
59	10.5	National Nature Reserves (NNR)	0	0	0	0	0
60	**10.6**	**Local Nature Reserves (LNR)**	0	0	0	0	2
60	**10.7**	**Designated Ancient Woodland**	0	0	0	0	4
60	10.8	Biosphere Reserves	0	0	0	0	0
61	10.9	Forest Parks	0	0	0	0	0
61	10.10	Marine Conservation Zones	0	0	0	0	0
61	10.11	Green Belt	0	0	0	0	0
61	10.12	Proposed Ramsar sites	0	0	0	0	0

61	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
62	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
62	10.15	Nitrate Sensitive Areas	0	0	0	0	0
62	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
63	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
64	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
65	11.1	World Heritage Sites	0	0	0	-	-
66	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
66	11.3	National Parks	0	0	0	-	-
66	**11.4**	**Listed Buildings**	0	1	4	-	-
67	**11.5**	**Conservation Areas**	1	2	2	-	-
67	11.6	Scheduled Ancient Monuments	0	0	0	-	-
68	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
69	**12.1**	**Agricultural Land Classification**	Urban (within 250m)				
70	12.2	Open Access Land	0	0	0	-	-
70	12.3	Tree Felling Licences	0	0	0	-	-
70	12.4	Environmental Stewardship Schemes	0	0	0	-	-
70	**12.5**	**Countryside Stewardship Schemes**	0	0	1	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
71	**13.1**	**Priority Habitat Inventory**	0	2	8	-	-
72	13.2	Habitat Networks	0	0	0	-	-
72	13.3	Open Mosaic Habitat	0	0	0	-	-
72	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
73	**14.1**	**10k Availability**	Identified (within 500m)				
74	**14.2**	**Artificial and made ground (10k)**	0	0	0	3	-
75	**14.3**	**Superficial geology (10k)**	1	0	0	3	-

76	14.4	Landslip (10k)	0	0	0	0	-
77	**14.5**	**Bedrock geology (10k)**	1	0	1	2	-
78	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
79	**15.1**	**50k Availability**	Identified (within 500m)				
80	**15.2**	**Artificial and made ground (50k)**	0	0	0	3	-
81	15.3	Artificial ground permeability (50k)	0	0	-	-	-
82	**15.4**	**Superficial geology (50k)**	1	0	0	2	-
83	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
83	15.6	Landslip (50k)	0	0	0	0	-
83	15.7	Landslip permeability (50k)	None (within 50m)				
84	**15.8**	**Bedrock geology (50k)**	1	0	1	0	-
85	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
85	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
86	**16.1**	**BGS Boreholes**	0	0	6	-	-
Page	Section	Natural ground subsidence					
88	**17.1**	**Shrink swell clays**	Low (within 50m)				
89	**17.2**	**Running sands**	Very low (within 50m)				
90	**17.3**	**Compressible deposits**	Negligible (within 50m)				
91	**17.4**	**Collapsible deposits**	Very low (within 50m)				
92	**17.5**	**Landslides**	Very low (within 50m)				
93	**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
94	18.1	Natural cavities	0	0	0	0	-
95	18.2	BritPits	0	0	0	0	-
95	**18.3**	**Surface ground workings**	0	0	15	-	-
96	**18.4**	**Underground workings**	0	0	0	7	4
96	18.5	Historical Mineral Planning Areas	0	0	0	0	-

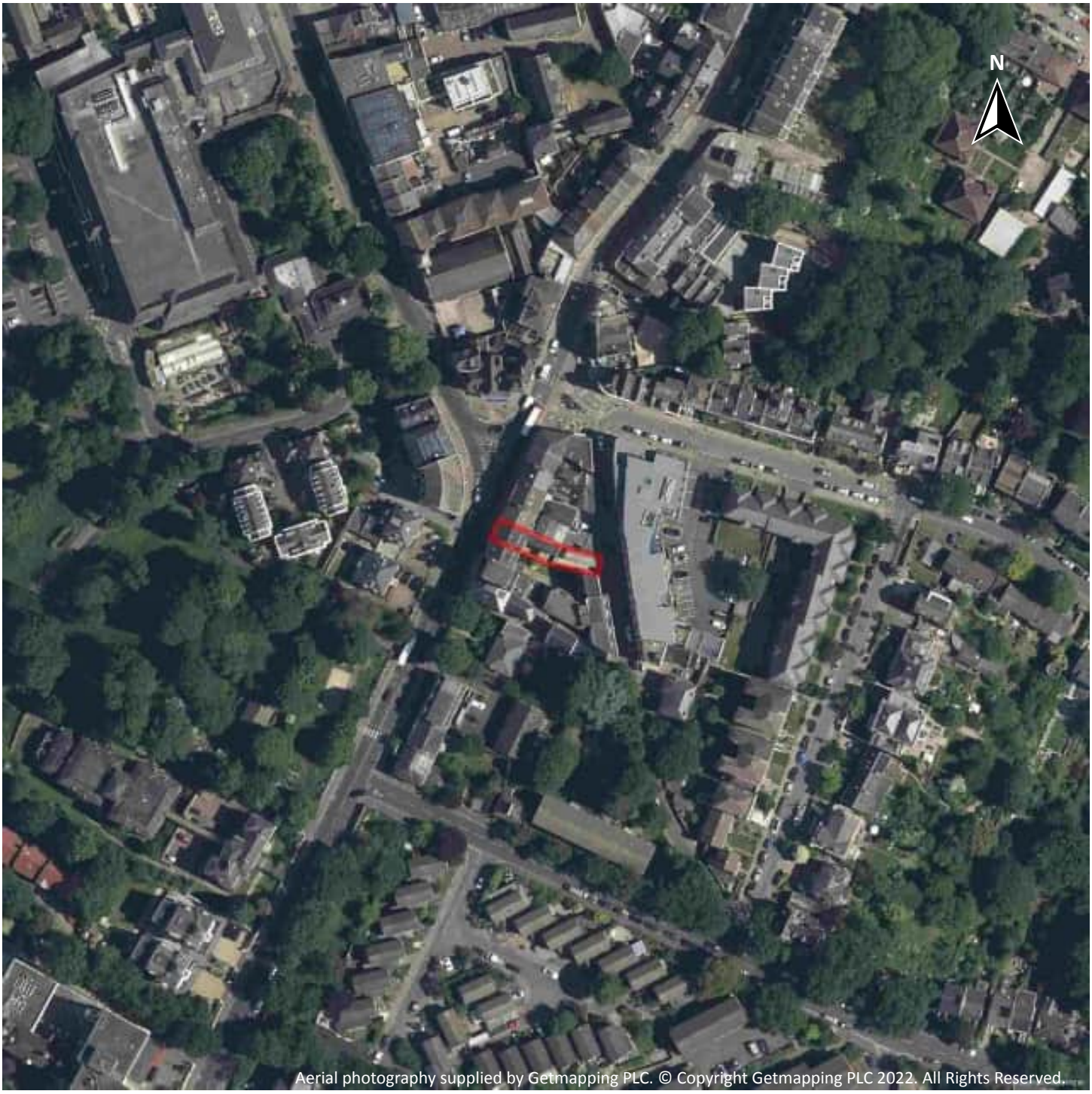
97	18.6	Non-coal mining	0	0	0	0	0
97	**18.7**	**Mining cavities**	0	0	0	0	1
97	18.8	JPB mining areas	None (within 0m)				
97	18.9	Coal mining	None (within 0m)				
98	18.10	Brine areas	None (within 0m)				
98	18.11	Gypsum areas	None (within 0m)				
98	18.12	Tin mining	None (within 0m)				
98	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
99	**19.1**	**Radon**	Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
100	**20.1**	**BGS Estimated Background Soil Chemistry**	1	1	-	-	-
100	**20.2**	**BGS Estimated Urban Soil Chemistry**	1	3	-	-	-
101	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
102	21.1	Underground railways (London)	0	0	0	-	-
102	21.2	Underground railways (Non-London)	0	0	0	-	-
102	21.3	Railway tunnels	0	0	0	-	-
102	21.4	Historical railway and tunnel features	0	0	0	-	-
102	21.5	Royal Mail tunnels	0	0	0	-	-
103	21.6	Historical railways	0	0	0	-	-
103	21.7	Railways	0	0	0	-	-
103	21.8	Crossrail 1	0	0	0	0	-
103	21.9	Crossrail 2	0	0	0	0	-
103	21.10	HS2	0	0	0	0	-

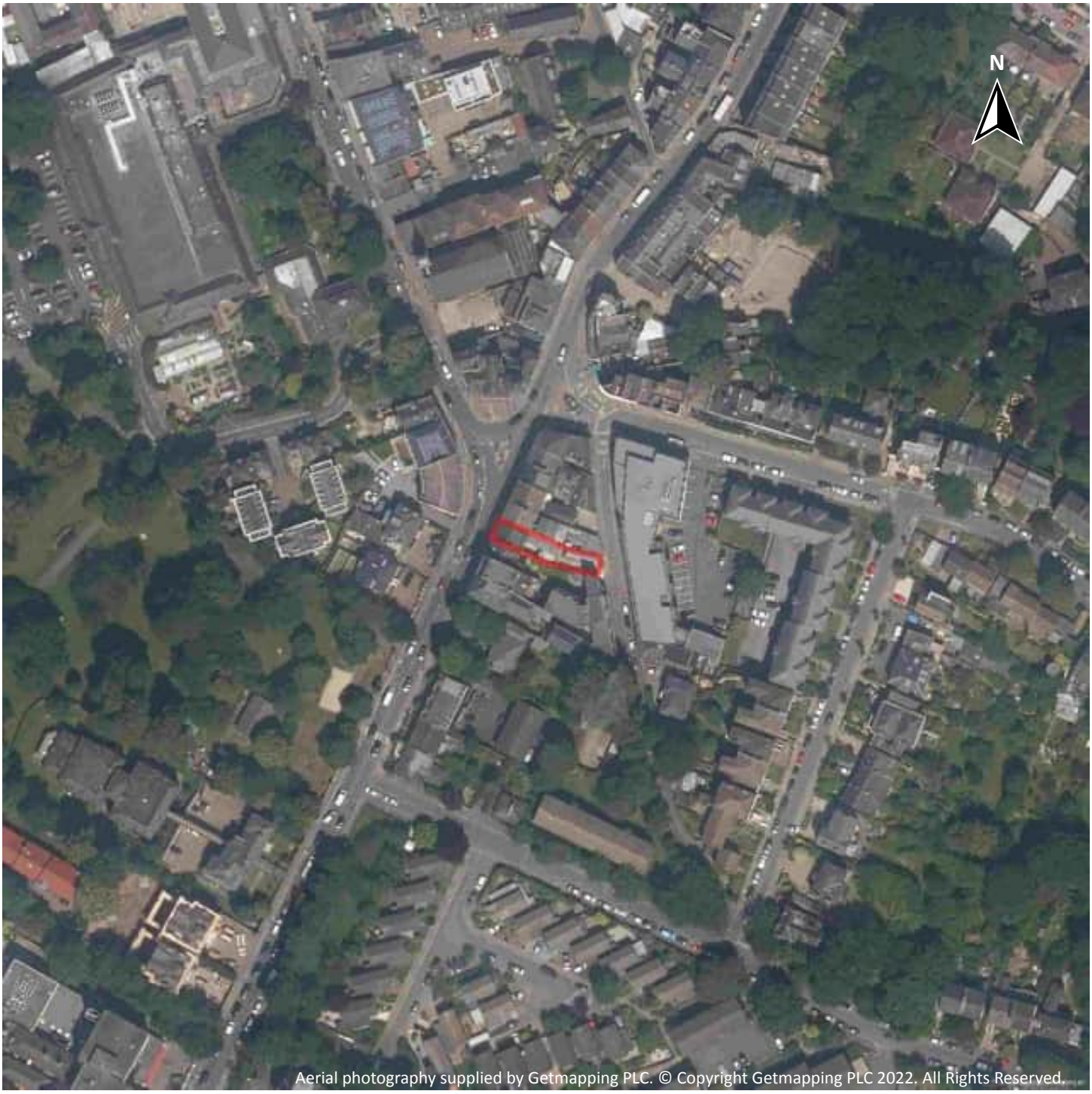
Recent aerial photograph



Capture Date: 14/06/2021

Site Area: 0.02ha

Recent site history - 2019 aerial photograph



Capture Date: 29/06/2019

Site Area: 0.02ha

Recent site history - 2014 aerial photograph

Capture Date: 16/04/2014

Site Area: 0.02ha

Recent site history - 2009 aerial photograph

Capture Date: 23/08/2009

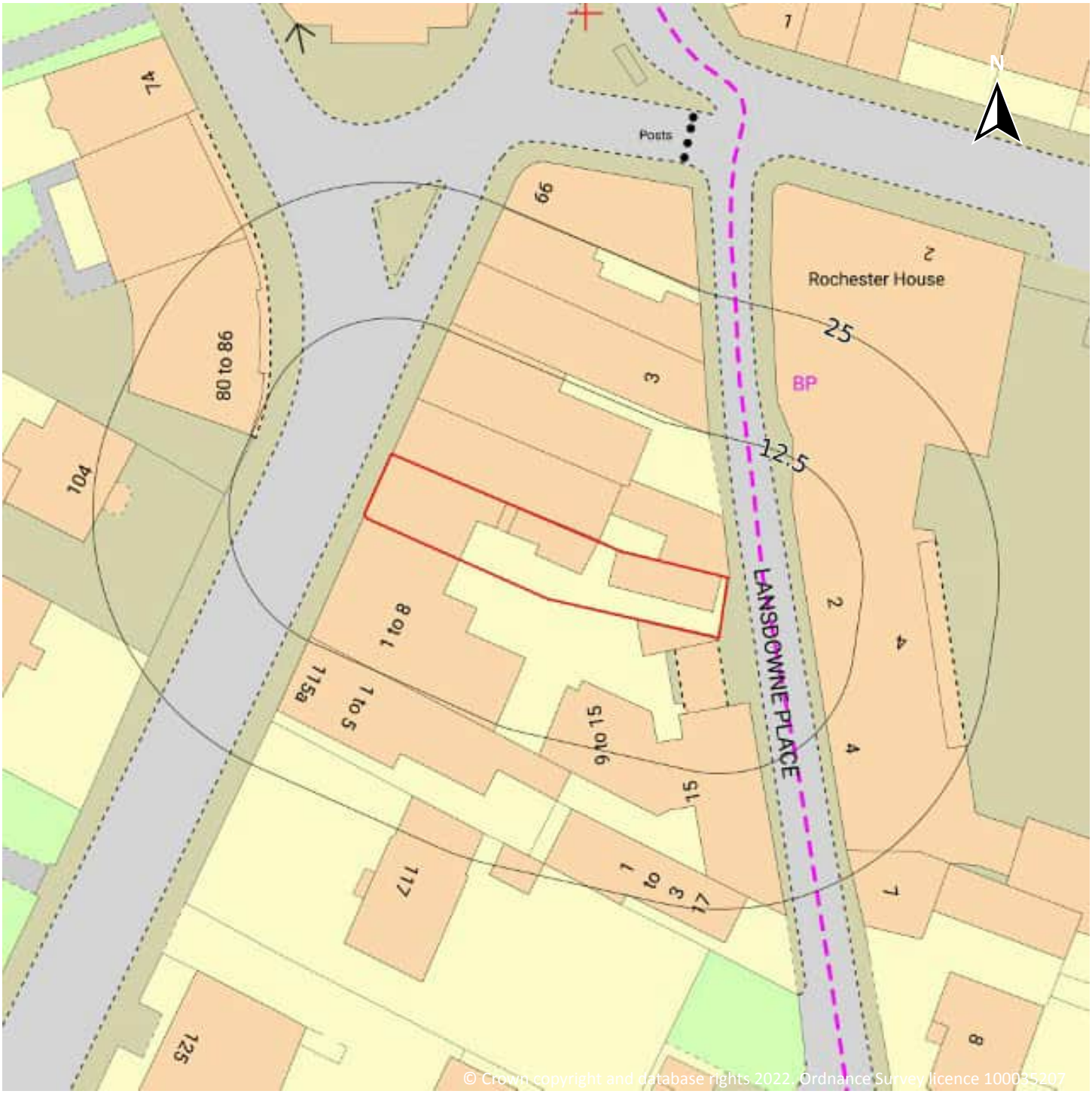
Site Area: 0.02ha

Recent site history - 1999 aerial photograph

Capture Date: 04/09/1999

Site Area: 0.02ha

OS MasterMap site plan



Site Area: 0.02ha

1 Past land use

Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	46

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
B	77m NW	Refuse Heap	1955 - 1957	2204344

ID	Location	Land use	Dates present	Group ID
B	77m NW	Unspecified Ground Workings	1968 - 1973	2188390
C	78m N	Nursery	1898	2261768
C	102m NE	Unspecified Heap	1919 - 1920	2235080
C	106m NE	Unspecified Ground Workings	1938	2239014
C	106m NE	Unspecified Ground Workings	1915	2283659
C	106m NE	Unspecified Ground Workings	1930	2292190
D	108m SE	Unspecified Heap	1957 - 1968	2181408
C	121m NE	Nursery	1888 - 1915	2286535
3	129m NE	Nursery	1920	2203060
C	137m NE	Nursery	1919	2176848
K	245m E	Unspecified Ground Workings	1992	2133859
K	247m E	Unspecified Pit	1955 - 1968	2185056
11	351m N	Police Station	1870	2162709
S	372m NW	Police Station	1982 - 1992	2219666
S	381m NW	Police Station	1955 - 1968	2275662
V	413m NE	Unspecified Commercial/Industrial	1898	2259531
V	413m NE	Unspecified Commercial/Industrial	1920	2268432
15	416m N	Unspecified Ground Workings	1870	2133862
Z	444m NW	Unspecified Ground Workings	1982 - 1992	2218995
18	446m N	Unspecified Ground Workings	1870	2133863
21	453m S	Unspecified Heap	1958 - 1965	2287616
Y	460m NE	Tunnel	1955 - 1992	2198081
AB	465m NE	Tunnel	1933	2188425
22	466m NW	Unspecified Ground Workings	1870	2133861
AC	466m NE	Unspecified Ground Workings	1894 - 1898	2220528
AC	469m NE	Unspecified Heap	1894	2251067
Z	470m NW	Unspecified Heap	1982	2136672
AB	472m N	Railway Station	1870 - 1898	2267895

ID	Location	Land use	Dates present	Group ID
AB	474m N	Cuttings	1894 - 1898	2194270
AB	477m N	Cuttings	1888	2261092
AC	479m NE	Unspecified Heap	1919	2221632
AB	480m N	Railway Station	1920	2194069
AB	480m N	Railway Sidings	1920	2206995
AB	480m N	Railway Sidings	1898	2208028
AB	480m N	Railway Station	1898	2215176
AB	480m N	Coal Depot	1920	2220535
AB	482m N	Railway Sidings	1870	2189768
AB	483m N	Railway Station	1919	2275591
AB	485m N	Railway Station	1930 - 1955	2200558
AB	485m N	Coal Depot	1955	2264936
AB	485m N	Railway Station	1898	2210518
AB	485m N	Railway Sidings	1894 - 1898	2212631
AB	485m N	Railway Sidings	1938 - 1955	2235978
AB	485m N	Railway Sidings	1930	2278823
24	494m SE	Unspecified Pit	1965	2125282

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**17**

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

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

ID	Location	Land use	Dates present	Group ID
A	42m E	Tanks	1974	375584

ID	Location	Land use	Dates present	Group ID
A	50m E	Tanks	1974	375581
D	127m SE	Unspecified Tank	1952	399785
D	129m SE	Unspecified Tank	1913	397520
F	141m E	Unspecified Tank	1913 - 1933	398250
E	168m N	Unspecified Tank	1952 - 1969	391383
E	171m N	Tanks	1952	375583
E	171m N	Unspecified Tank	1952 - 1969	405774
5	240m SE	Unspecified Tank	1868	361722
6	256m W	Unspecified Tank	1951 - 1952	409915
L	277m SW	Unspecified Tank	1897	361721
8	287m S	Unspecified Tank	1868	361716
10	338m S	Unspecified Tank	1868	361718
M	342m SE	Unspecified Tank	1868	361715
Y	439m NE	Unspecified Tank	1969 - 1993	410719
19	448m SE	Unspecified Tank	1952 - 1963	410864
V	493m NE	Unspecified Tank	1952	396006

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**54**

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
E	121m N	Electricity Substation	1952	248319
E	122m N	Electricity Substation	1952 - 1969	263527

ID	Location	Land use	Dates present	Group ID
4	138m SW	Electricity Substation	1991	289498
F	142m E	Electricity Substation	1974 - 1991	275093
H	192m NW	Electricity Substation	1987 - 1991	260747
H	196m NW	Electricity Substation	1991	242673
L	268m SW	Electricity Substation	1991	268021
L	268m SW	Electricity Transformer	1975	250660
7	272m NE	Electricity Substation	1974 - 1991	283632
N	295m NW	Electricity Substation	1979 - 1991	279789
N	302m NW	Electricity Substation	1979 - 1991	259153
9	308m NE	Electricity Substation	1952	292098
O	319m NE	Electricity Substation	1983 - 1993	279381
O	320m NE	Electricity Substation	1969	258031
P	326m SW	Electricity Transformer	1975	250676
P	326m SW	Electricity Substation	1991	290408
P	327m SW	Electricity Substation	1987 - 1991	270953
Q	330m SW	Electricity Transformer	1975	250663
Q	330m SW	Electricity Substation	1991	265533
M	334m SE	Electricity Substation	1985 - 1991	271110
M	335m SE	Electricity Transformer	1974	250661
P	338m S	Electricity Transformer	1975	250677
P	338m S	Electricity Substation	1987 - 1991	280565
12	359m E	Electricity Substation	1974 - 1991	266776
13	365m SE	Electricity Substation	1974 - 1985	274879
T	411m N	Electricity Substation	1982	285028
T	411m N	Electricity Substation	1987 - 1991	282053
U	414m N	Electricity Substation	1969 - 1991	260957
W	418m S	Electricity Substation	1991	248330
W	422m S	Electricity Substation	1979 - 1985	291194

ID	Location	Land use	Dates present	Group ID
X	434m SW	Electricity Transformer	1975	250671
17	434m NW	Electricity Substation	1982 - 1991	264264
X	434m SW	Electricity Substation	1987 - 1991	271950
Y	440m NE	Electricity Substation	1952	284599
Y	445m NE	Electricity Substation	1969 - 1983	287809
AA	456m E	Electricity Substation	1991	256543
AA	456m E	Electricity Substation	1991	256544
AA	456m E	Electricity Substation	1993	256545
AA	456m E	Electricity Substation	1992	256546
AA	456m E	Electricity Substation	1988	256578
AA	456m E	Electricity Substation	1988	256579
AA	456m E	Electricity Substation	1985	256580
AA	457m E	Electricity Substation	1991	255935
AA	457m E	Electricity Substation	1974	255113
AA	461m E	Electricity Substation	1974	256842
AA	461m E	Electricity Substation	1990	252676
AA	461m E	Electricity Substation	1988	252367
AA	461m E	Electricity Substation	1991	253154
AA	461m E	Electricity Substation	1981	255714
AA	461m E	Electricity Substation	1990	255715
AA	461m E	Electricity Substation	1991	255716
23	493m W	Electricity Substation	1951 - 1991	260802
25	495m S	Electricity Substation	1952 - 1991	261645
26	500m E	Electricity Substation	1974	248320

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	20

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
1	12m NW	Garages	1951	74204
2	40m SW	Garages	1952	74205
C	128m NE	Garage	1952	73743
C	156m NE	Garage	1952	73742
C	165m NE	Garages	1952	74197
G	174m N	Garage	1952 - 1965	80778
G	187m N	Garage	1952 - 1965	82655
I	218m SW	Garage	1962 - 1975	81310
I	224m SW	Garage	1987 - 1991	83274
I	229m SW	Garage	1991	78740
J	234m N	Garage	1952	85289
J	274m N	Garage	1952	84907
M	288m SE	Garages	1952	74196
R	337m NE	Garage	1993	76247

ID	Location	Land use	Dates present	Group ID
R	340m NE	Garage	1983 - 1991	85539
14	370m SE	Garage	1952	73745
R	384m NE	Garage	1952 - 1991	86169
U	412m N	Garage	1952	80523
16	431m E	Garage	1952	73744
20	450m N	Garages	1952	84981

This data is sourced from Ordnance Survey / Groundsure.

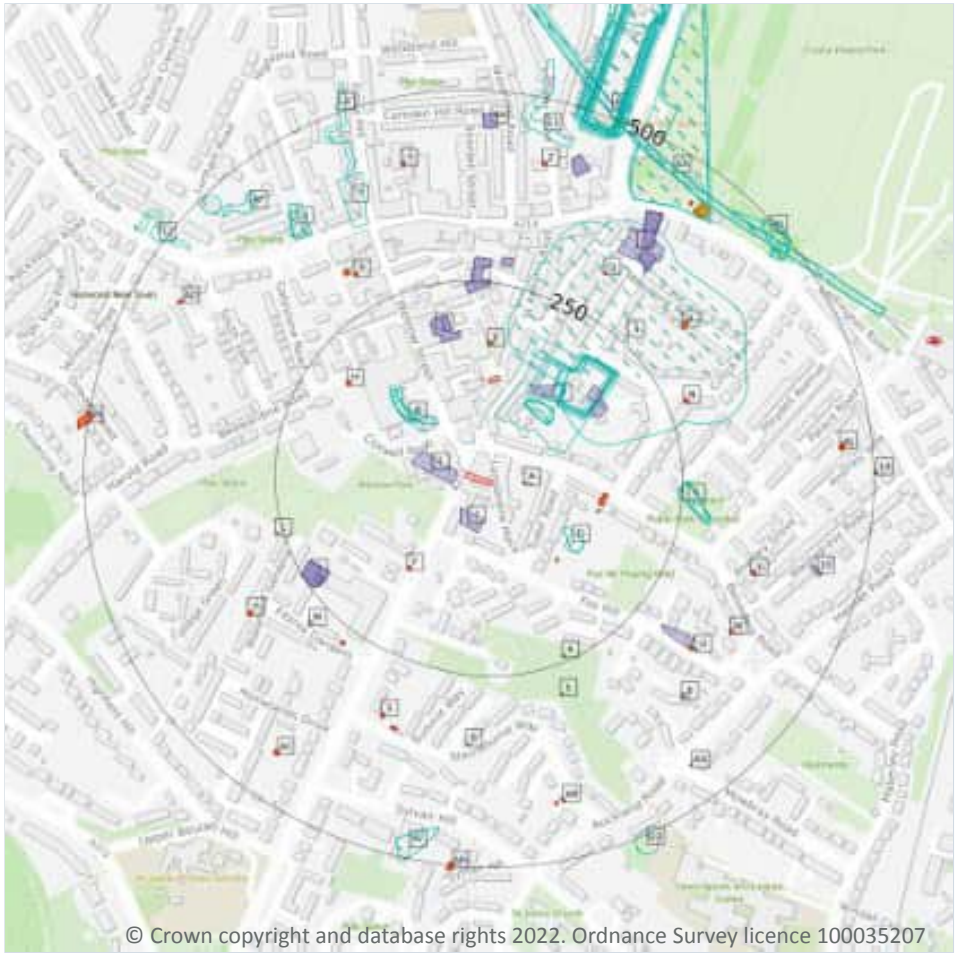
1.6 Historical military land

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	77

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 22**

ID	Location	Land Use	Date	Group ID
B	77m NW	Refuse Heap	1957	2204344
B	77m NW	Unspecified Ground Workings	1973	2188390
C	78m N	Nursery	1898	2261768

ID	Location	Land Use	Date	Group ID
B	78m NW	Refuse Heap	1955	2204344
B	99m NW	Unspecified Ground Workings	1968	2188390
C	102m NE	Unspecified Heap	1920	2235080
C	104m NE	Unspecified Heap	1919	2235080
C	106m NE	Unspecified Ground Workings	1938	2239014
C	106m NE	Unspecified Ground Workings	1930	2292190
C	106m NE	Unspecified Ground Workings	1915	2283659
D	108m SE	Unspecified Heap	1968	2181408
D	121m SE	Unspecified Heap	1957	2181408
C	121m NE	Nursery	1898	2286535
C	129m NE	Nursery	1915	2286535
3	129m NE	Nursery	1920	2203060
C	130m NE	Nursery	1894	2286535
C	132m NE	Nursery	1894	2286535
C	134m NE	Nursery	1898	2286535
C	135m NE	Nursery	1888	2286535
C	137m NE	Nursery	1919	2176848
K	245m E	Unspecified Ground Workings	1992	2133859
K	247m E	Unspecified Pit	1968	2185056
K	247m E	Unspecified Pit	1957	2185056
K	247m E	Unspecified Pit	1955	2185056
7	351m N	Police Station	1870	2162709
X	372m NW	Police Station	1992	2219666
X	372m NW	Police Station	1982	2219666
X	381m NW	Police Station	1968	2275662
X	381m NW	Police Station	1957	2275662
X	381m NW	Police Station	1955	2275662
AA	413m NE	Unspecified Commercial/Industrial	1898	2259531

ID	Location	Land Use	Date	Group ID
AA	413m NE	Unspecified Commercial/Industrial	1920	2268432
AA	415m NE	Unspecified Commercial/Industrial	1898	2259531
9	416m N	Unspecified Ground Workings	1870	2133862
AF	444m NW	Unspecified Ground Workings	1992	2218995
AF	444m NW	Unspecified Ground Workings	1982	2218995
11	446m N	Unspecified Ground Workings	1870	2133863
AI	453m S	Unspecified Heap	1958	2287616
AI	453m S	Unspecified Heap	1965	2287616
AE	460m NE	Tunnel	1992	2198081
AE	460m NE	Tunnel	1973	2198081
AE	460m NE	Tunnel	1968	2198081
AE	460m NE	Tunnel	1957	2198081
AE	460m NE	Tunnel	1955	2198081
AE	460m NE	Tunnel	1982	2198081
AK	465m NE	Tunnel	1933	2188425
12	466m NW	Unspecified Ground Workings	1870	2133861
AL	466m NE	Unspecified Ground Workings	1894	2220528
AL	469m NE	Unspecified Heap	1894	2251067
AF	470m NW	Unspecified Heap	1982	2136672
AK	472m N	Railway Station	1894	2267895
AK	474m N	Railway Station	1894	2267895
AK	474m N	Cuttings	1894	2194270
AL	476m NE	Unspecified Ground Workings	1898	2220528
AK	477m N	Railway Station	1888	2267895
AK	477m N	Cuttings	1888	2261092
AL	479m NE	Unspecified Heap	1919	2221632
AK	479m N	Railway Station	1898	2267895
AK	480m N	Railway Sidings	1898	2208028

ID	Location	Land Use	Date	Group ID
AK	480m N	Railway Station	1898	2215176
AK	480m N	Railway Sidings	1920	2206995
AK	480m N	Railway Station	1920	2194069
AK	480m N	Coal Depot	1920	2220535
AK	482m N	Railway Station	1870	2267895
AK	482m N	Railway Sidings	1870	2189768
AK	483m N	Railway Station	1919	2275591
AK	485m N	Railway Station	1955	2200558
AK	485m N	Coal Depot	1955	2264936
AK	485m N	Railway Sidings	1938	2235978
AK	485m N	Railway Station	1938	2200558
AK	485m N	Railway Station	1930	2200558
AK	485m N	Railway Station	1898	2210518
AK	485m N	Railway Sidings	1898	2212631
AK	485m N	Railway Sidings	1930	2278823
AK	485m N	Railway Sidings	1955	2235978
AK	488m N	Railway Station	1933	2200558
13	494m SE	Unspecified Pit	1965	2125282

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**32**

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 22**

ID	Location	Land Use	Date	Group ID
A	42m E	Tanks	1974	375584
A	50m E	Tanks	1974	375581

ID	Location	Land Use	Date	Group ID
D	127m SE	Unspecified Tank	1952	399785
D	129m SE	Unspecified Tank	1913	397520
D	141m E	Unspecified Tank	1933	398250
D	143m E	Unspecified Tank	1913	398250
E	168m N	Unspecified Tank	1969	391383
E	168m N	Unspecified Tank	1952	391383
E	168m N	Unspecified Tank	1952	391383
E	168m N	Unspecified Tank	1952	391383
E	171m N	Unspecified Tank	1969	405774
E	171m N	Tanks	1952	375583
E	171m N	Unspecified Tank	1952	405774
E	171m N	Unspecified Tank	1952	405774
4	240m SE	Unspecified Tank	1868	361722
L	256m W	Unspecified Tank	1952	409915
L	256m W	Unspecified Tank	1951	409915
M	277m SW	Unspecified Tank	1897	361721
5	287m S	Unspecified Tank	1868	361716
6	338m S	Unspecified Tank	1868	361718
O	342m SE	Unspecified Tank	1868	361715
AE	439m NE	Unspecified Tank	1993	410719
AE	439m NE	Unspecified Tank	1991	410719
AE	440m NE	Unspecified Tank	1969	410719
AE	440m NE	Unspecified Tank	1983	410719
AE	440m NE	Unspecified Tank	1989	410719
AE	440m NE	Unspecified Tank	1991	410719
AG	448m SE	Unspecified Tank	1952	410864
AG	448m SE	Unspecified Tank	1963	410864
AG	448m SE	Unspecified Tank	1952	410864

ID	Location	Land Use	Date	Group ID
AA	493m NE	Unspecified Tank	1952	396006
AA	493m NE	Unspecified Tank	1952	396006

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**113**

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 22**

ID	Location	Land Use	Date	Group ID
E	121m N	Electricity Substation	1952	248319
E	122m N	Electricity Substation	1969	263527
E	122m N	Electricity Substation	1952	263527
F	138m SW	Electricity Substation	1991	289498
F	138m SW	Electricity Substation	1991	289498
D	142m E	Electricity Substation	1991	275093
D	142m E	Electricity Substation	1974	275093
D	143m E	Electricity Substation	1991	275093
D	143m E	Electricity Substation	1985	275093
H	192m NW	Electricity Substation	1987	260747
H	192m NW	Electricity Substation	1991	260747
H	196m NW	Electricity Substation	1991	242673
M	268m SW	Electricity Substation	1991	268021
M	268m SW	Electricity Transformer	1975	250660
M	269m SW	Electricity Substation	1991	268021
N	272m NE	Electricity Substation	1991	283632
N	273m NE	Electricity Substation	1974	283632
N	273m NE	Electricity Substation	1985	283632

ID	Location	Land Use	Date	Group ID
N	273m NE	Electricity Substation	1988	283632
N	273m NE	Electricity Substation	1988	283632
N	273m NE	Electricity Substation	1991	283632
P	295m NW	Electricity Substation	1982	279789
P	296m NW	Electricity Substation	1979	279789
P	296m NW	Electricity Substation	1987	279789
P	296m NW	Electricity Substation	1991	279789
P	302m NW	Electricity Substation	1982	259153
P	302m NW	Electricity Substation	1991	259153
P	303m NW	Electricity Substation	1979	259153
P	303m NW	Electricity Substation	1987	259153
P	303m NW	Electricity Substation	1991	259153
Q	308m NE	Electricity Substation	1952	292098
Q	308m NE	Electricity Substation	1952	292098
R	319m NE	Electricity Substation	1993	279381
R	319m NE	Electricity Substation	1991	279381
R	320m NE	Electricity Substation	1969	258031
R	320m NE	Electricity Substation	1983	279381
R	320m NE	Electricity Substation	1989	279381
R	320m NE	Electricity Substation	1991	279381
S	326m SW	Electricity Transformer	1975	250676
S	326m SW	Electricity Substation	1991	290408
S	327m SW	Electricity Substation	1987	270953
S	327m SW	Electricity Substation	1991	270953
T	330m SW	Electricity Transformer	1975	250663
T	330m SW	Electricity Substation	1991	265533
T	331m SW	Electricity Substation	1991	265533
O	334m SE	Electricity Substation	1991	271110

ID	Location	Land Use	Date	Group ID
O	335m SE	Electricity Transformer	1974	250661
O	335m SE	Electricity Substation	1985	271110
O	335m SE	Electricity Substation	1988	271110
O	335m SE	Electricity Substation	1988	271110
O	335m SE	Electricity Substation	1991	271110
S	338m S	Electricity Transformer	1975	250677
S	338m S	Electricity Substation	1991	280565
S	339m S	Electricity Substation	1987	280565
S	339m S	Electricity Substation	1991	280565
V	359m E	Electricity Substation	1991	266776
V	359m E	Electricity Substation	1985	266776
V	359m E	Electricity Substation	1988	266776
V	359m E	Electricity Substation	1988	266776
V	359m E	Electricity Substation	1991	266776
V	360m E	Electricity Substation	1974	266776
W	365m SE	Electricity Substation	1974	274879
W	365m SE	Electricity Substation	1985	274879
Y	411m N	Electricity Substation	1982	285028
Y	411m N	Electricity Substation	1987	282053
Y	411m N	Electricity Substation	1991	282053
Z	414m N	Electricity Substation	1969	260957
Z	415m N	Electricity Substation	1983	260957
Z	415m N	Electricity Substation	1989	260957
Z	415m N	Electricity Substation	1991	260957
AB	418m S	Electricity Substation	1991	248330
AB	422m S	Electricity Substation	1979	291194
AB	422m S	Electricity Substation	1985	291194
AC	434m SW	Electricity Transformer	1975	250671

ID	Location	Land Use	Date	Group ID
AD	434m NW	Electricity Substation	1982	264264
AC	434m SW	Electricity Substation	1991	271950
AC	434m SW	Electricity Substation	1987	271950
AC	434m SW	Electricity Substation	1991	271950
AD	435m NW	Electricity Substation	1987	264264
AD	435m NW	Electricity Substation	1991	264264
AD	435m NW	Electricity Substation	1991	264264
AE	440m NE	Electricity Substation	1952	284599
AE	441m NE	Electricity Substation	1952	284599
AE	445m NE	Electricity Substation	1969	287809
AE	445m NE	Electricity Substation	1983	287809
AJ	456m E	Electricity Substation	1985	256580
AJ	456m E	Electricity Substation	1988	256579
AJ	456m E	Electricity Substation	1988	256578
AJ	456m E	Electricity Substation	1991	256543
AJ	457m E	Electricity Substation	1991	255935
AJ	457m E	Electricity Substation	1974	255113
AJ	461m E	Electricity Substation	1993	256545
AJ	461m E	Electricity Substation	1991	256544
AJ	461m E	Electricity Substation	1992	256546
AJ	461m E	Electricity Substation	1974	256842
AJ	461m E	Electricity Substation	1981	255714
AJ	461m E	Electricity Substation	1988	252367
AJ	461m E	Electricity Substation	1990	255715
AJ	461m E	Electricity Substation	1990	252676
AJ	461m E	Electricity Substation	1991	255716
AJ	461m E	Electricity Substation	1991	253154
AM	493m W	Electricity Substation	1952	260802

ID	Location	Land Use	Date	Group ID
AM	493m W	Electricity Substation	1991	260802
AM	494m W	Electricity Substation	1991	260802
AM	494m W	Electricity Substation	1975	260802
AM	494m W	Electricity Substation	1951	260802
AN	495m S	Electricity Substation	1952	261645
AN	495m S	Electricity Substation	1969	261645
AN	496m S	Electricity Substation	1985	261645
AN	496m S	Electricity Substation	1986	261645
AN	496m S	Electricity Substation	1952	261645
AN	496m S	Electricity Substation	1991	261645
14	500m E	Electricity Substation	1974	248320

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	**34**

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 22**

ID	Location	Land Use	Date	Group ID
1	12m NW	Garages	1951	74204
2	40m SW	Garages	1952	74205

ID	Location	Land Use	Date	Group ID
C	128m NE	Garage	1952	73743
C	156m NE	Garage	1952	73742
C	165m NE	Garages	1952	74197
G	174m N	Garage	1965	80778
G	174m N	Garage	1952	80778
G	187m N	Garage	1965	82655
G	187m N	Garage	1952	82655
I	218m SW	Garage	1975	81310
I	218m SW	Garage	1962	81310
I	218m SW	Garage	1967	81310
I	224m SW	Garage	1991	83274
I	224m SW	Garage	1987	83274
I	229m SW	Garage	1991	78740
J	234m N	Garage	1952	85289
J	234m N	Garage	1952	85289
J	274m N	Garage	1952	84907
J	274m N	Garage	1952	84907
O	288m SE	Garages	1952	74196
U	337m NE	Garage	1993	76247
U	340m NE	Garage	1989	85539
U	340m NE	Garage	1991	85539
U	340m NE	Garage	1983	85539
8	370m SE	Garage	1952	73745
U	384m NE	Garage	1991	86169
U	384m NE	Garage	1969	86169
U	384m NE	Garage	1952	86169
U	384m NE	Garage	1952	86169
Z	412m N	Garage	1952	80523

ID	Location	Land Use	Date	Group ID
Z	412m N	Garage	1952	80523
10	431m E	Garage	1952	73744
AH	450m N	Garages	1952	84981
AH	450m N	Garages	1952	84981

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill

Site Outline

Search buffers in metres (m)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	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	0

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.

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	9

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 34**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	176m E	44A, CINTRA PARK, LONDON, SE19 2LQ	WEX290650	Disposing of waste exemption	Not on a farm	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
A	226m E	38, cintra park, London, se19 2lq	WEX126860	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	226m E	40, Cintra Park, london, se19 2lq	WEX126865	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	226m E	44, Cintra Park, London, SE19 2LQ	WEX126866	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	226m E	42, Cintra Park, London, SE19 2LQ	WEX126925	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	226m E	42, Cintra Park, London, SE19 2LQ	WEX126937	Disposing of waste exemption	Not on a farm	Burning waste in the open
2	266m E	-	WEX269264	Disposing of waste exemption	Not on a farm	Burning waste in the open
3	454m N	-	WEX263418	Disposing of waste exemption	Not on a farm	Burning waste in the open
4	489m E	4D, Hamlet Road, london, SE19 2AW	WEX126998	Disposing of waste exemption	Not on a farm	Burning waste in the open

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

4 Current industrial land use

Site Outline

Search buffers in metres (m)

Recent industrial land uses

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

4.1 Recent industrial land uses

Records within 250m	**13**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 37**

ID	Location	Company	Address	Activity	Category
A	33m NW	Studio Interiors	76, Westow Street, Upper Norwood, London, Greater London, SE19 3AF	Curtains and Blinds	Consumer Products
1	96m N	Crystal Palace Jewellers	76, Church Road, Upper Norwood, London, Greater London, SE19 2EZ	Jewellery, Gems, Clocks and Watches	Consumer Products

ID	Location	Company	Address	Activity	Category
2	138m SW	Electricity Sub Station	Greater London, SE19	Electrical Features	Infrastructure and Facilities
3	155m E	Electricity Sub Station	Greater London, SE19	Electrical Features	Infrastructure and Facilities
B	166m N	Works	Greater London, SE19	Unspecified Works Or Factories	Industrial Features
C	191m NW	Antenna Studios	Antenna Studios Bowyers Yard, Haynes Lane, Upper Norwood, London, Greater London, SE19 3AN	Recording Studios and Record Companies	IT, Advertising, Marketing and Media Services
B	192m N	Works	Greater London, SE19	Unspecified Works Or Factories	Industrial Features
C	194m NW	Electricity Sub Station	Greater London, SE19	Electrical Features	Infrastructure and Facilities
B	195m N	Works	Greater London, SE19	Unspecified Works Or Factories	Industrial Features
B	198m N	Project Audio Ltd	2, Carberry Road, Upper Norwood, London, Greater London, SE19 3RU	Electronic Equipment	Industrial Products
C	221m NW	Works	Greater London, SE19	Unspecified Works Or Factories	Industrial Features
B	225m N	Ross Roof Group UK Ltd	25, Westow Street, Upper Norwood, London, Greater London, SE19 3RY	Bricks, Tiles, Clay and Ceramic Products	Industrial Products
4	232m S	Euro Alloys Ltd	193, Church Road, Upper Norwood, London, Greater London, SE19 2PS	Metals Manufacturers, Fabricators and Stockholders	Industrial Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**0**

Open, closed, under development and obsolete petrol stations.

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	0

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

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

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

Records within 500m	2

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

Features are displayed on the Current industrial land use map on **page 37**

ID	Location	Address	Details	
A	21m NE	Palace Cleaners, 101 Church Road, Upper Norwood, London, SE19 2PR	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
5	367m N	Top Quality Cleaners, 9 Westow Hill, London, SE19 1TQ	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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	0

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

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	0

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

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

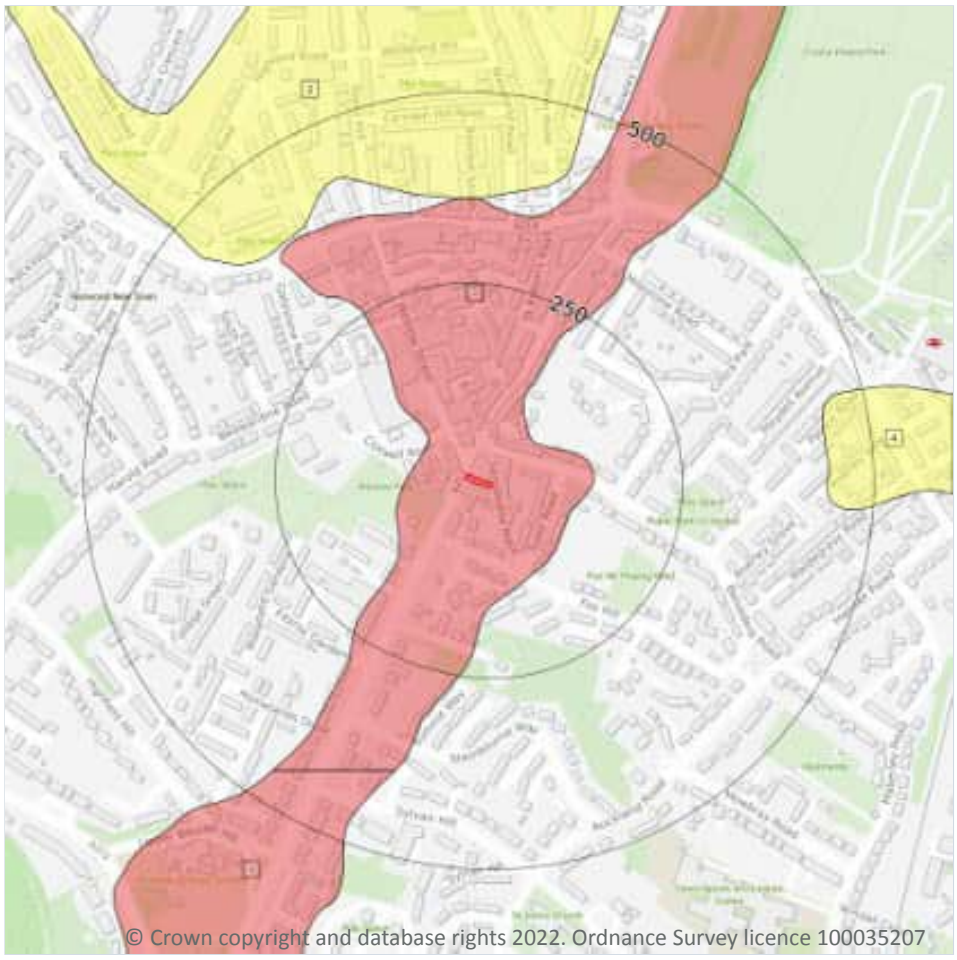
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	4

Aquifer status of groundwater held within superficial geology.

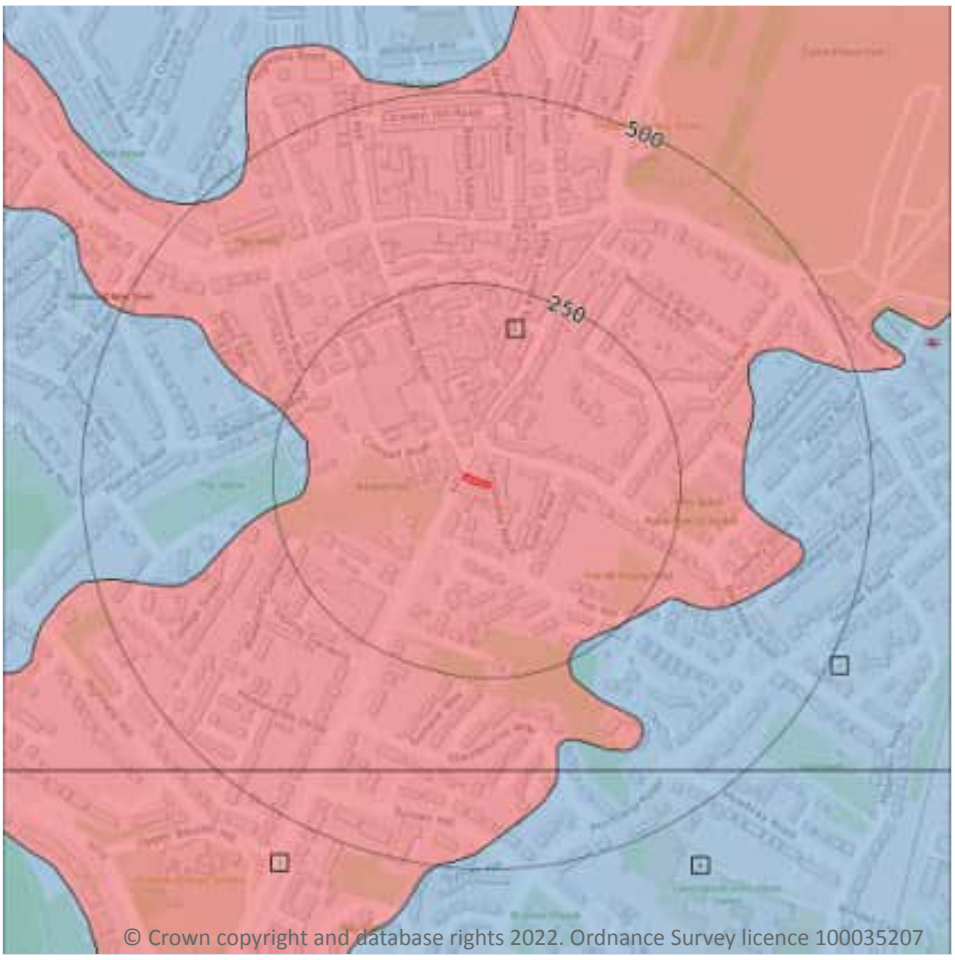
Features are displayed on the Hydrogeology map on **page 43**

ID	Location	Designation	Description
1	**On site**	**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**
2	361m N	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

ID	Location	Designation	Description
3	389m 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
4	439m E	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

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	4

Aquifer status of groundwater held within bedrock geology.

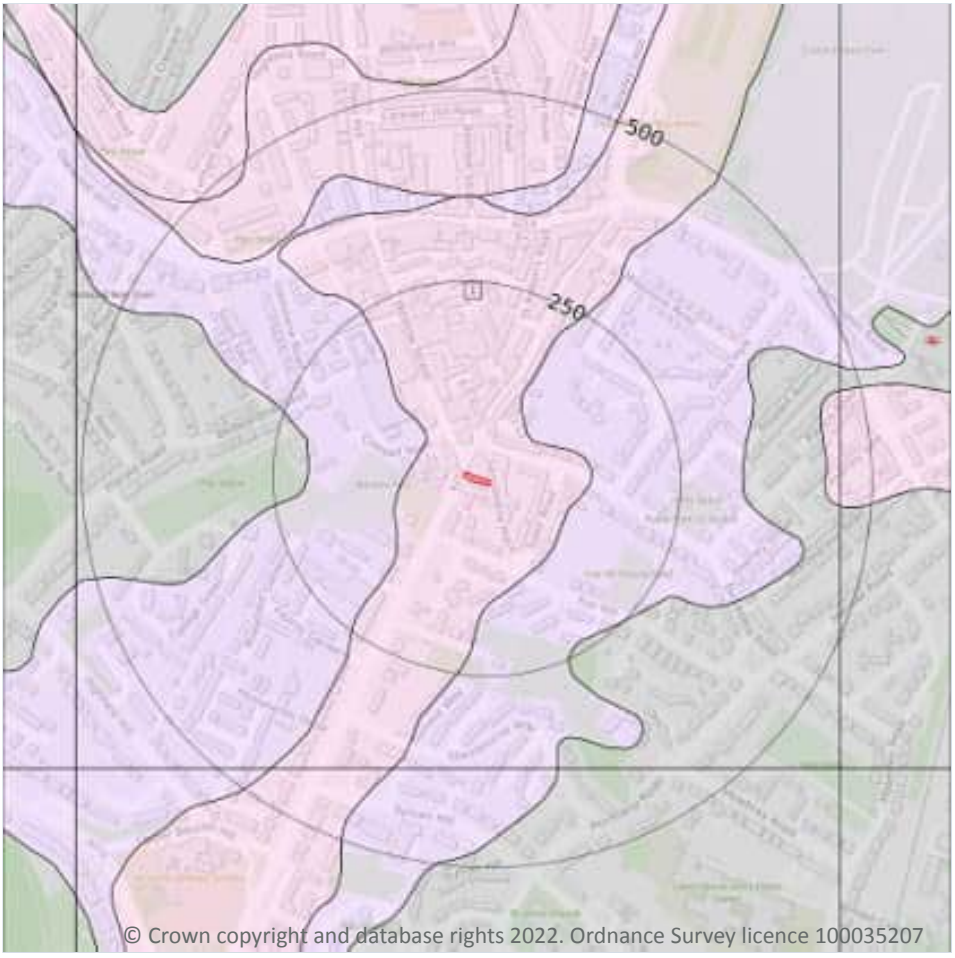
Features are displayed on the Bedrock aquifer map on **page 45**

ID	Location	Designation	Description
1	**On site**	**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**
2	204m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	370m 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
4	381m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

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 47**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High**	**Vulnerability: Medium 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	**0**

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

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

Abstractions and Source Protection Zones

5.6 Groundwater abstractions

Records within 2000m	0

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.

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	0

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.

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

Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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.

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 51**

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	0

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.

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 the sea

Records within 50m	0

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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.

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

7.7 Flood Zone 3

Records within 50m	0

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.

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

8 Surface water flooding

8.1 Surface water flooding

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

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.

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	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

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	**Moderate**
Highest risk within 50m	**Moderate**

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 57**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	2

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 58**

ID	Location	Name	Data source
1	669m N	Dulwich Upper Wood	Natural England
-	1282m N	Sydenham Hill Wood and Fern Bank	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	4

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

Features are displayed on the Environmental designations map on **page 58**

ID	Location	Name	Woodland Type
2	1056m W	Unknown	Ancient & Semi-Natural Woodland
-	1541m N	Unknown	Ancient & Semi-Natural Woodland
-	1743m W	Biggin Wood	Ancient & Semi-Natural Woodland
-	1828m N	Unknown	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	0

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

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	0

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.

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

SSSI Impact Zones and Units

Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 63**

ID	Location	Type of developments requiring consultation
1	On site	**Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 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.

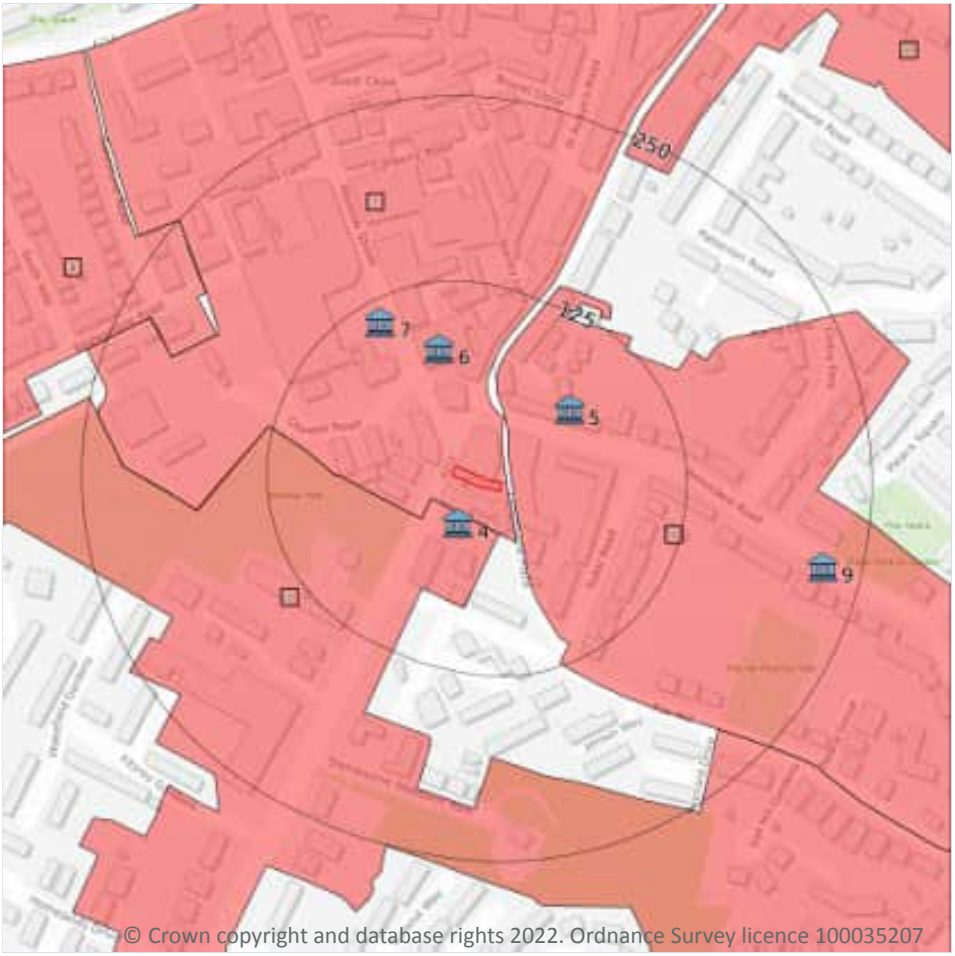
10.18 SSSI Units

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	5

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 65**

ID	Location	Name	Grade	Reference Number	Listed date
4	28m SW	Rosebank, Crystal Palace and Upper Norwood, Croydon, London, SE19	II	1253004	15/08/1995
5	68m NE	11-25, Belvedere Road Se 19, Crystal Palace, Bromley, London, SE19	II	1359371	29/06/1973
6	80m N	Church of St andrew, Crystal Palace and Upper Norwood, Croydon, London, SE19	II	1079279	11/07/1975

ID	Location	Name	Grade	Reference Number	Listed date
7	110m NW	War Memorial At Westow Street, Crystal Palace and Upper Norwood, Croydon, London, SE19	II	1442618	27/02/2017
9	223m E	Pillar Box Outside No 36, Crystal Palace, Bromley, London, SE19	II	1186821	28/04/1986

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

11.5 Conservation Areas

Records within 250m **5**

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 65**

ID	Location	Name	District	Date of designation
1	**On site**	**Upper Norwood Triangle**	**Croydon**	**04/1989**
2	7m E	Belvedere Road, Anerley	Bromley	1973
3	21m SW	Church Road, Upper Norwood	Croydon	01/1974
8	184m NW	Harold Road, Upper Norwood	Croydon	04/1973
10	237m NE	Crystal Palace Park	Bromley	1989

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.

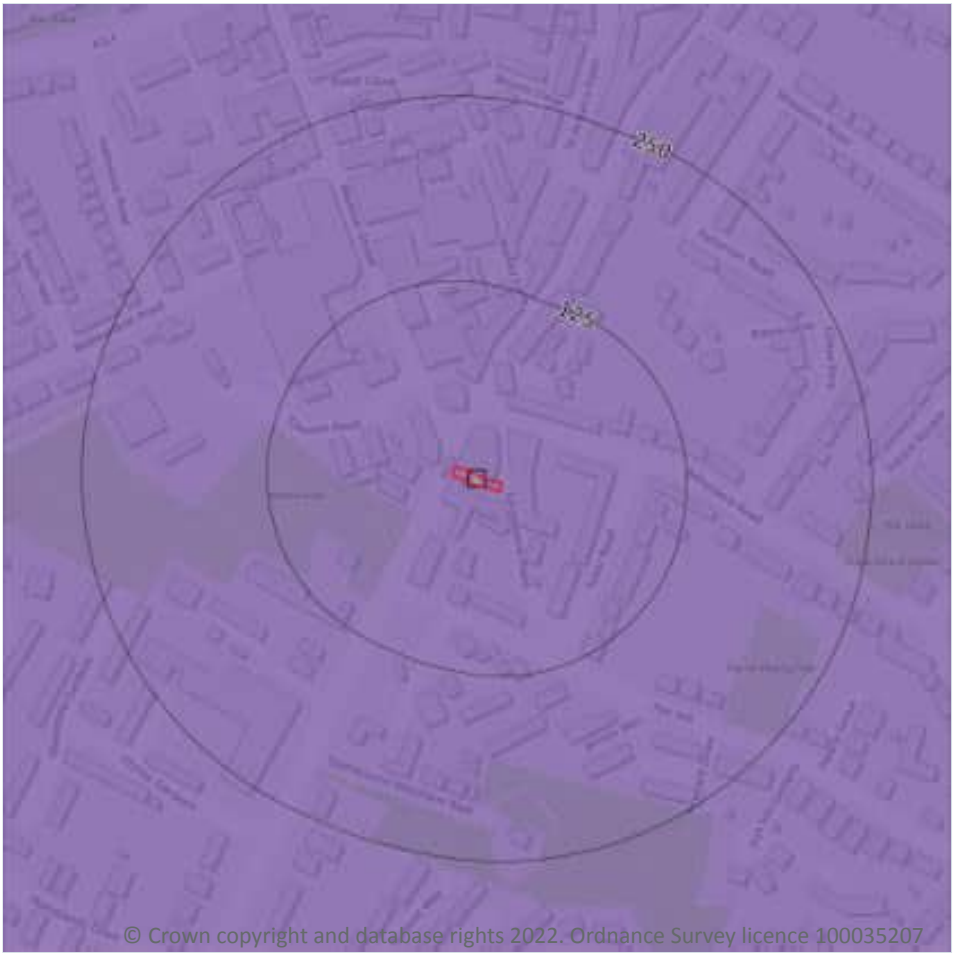
11.7 Registered Parks and Gardens

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 69**

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	1

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.

Location	Reference	Scheme	Start Date	End Date
180m S	622700	Countryside Stewardship (Higher Tier)	01/01/2019	31/12/2023

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	10

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 71**

ID	Location	Main Habitat	Other habitats
1	38m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	46m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	73m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	106m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	109m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	180m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	186m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	201m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	213m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	217m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability

Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	2

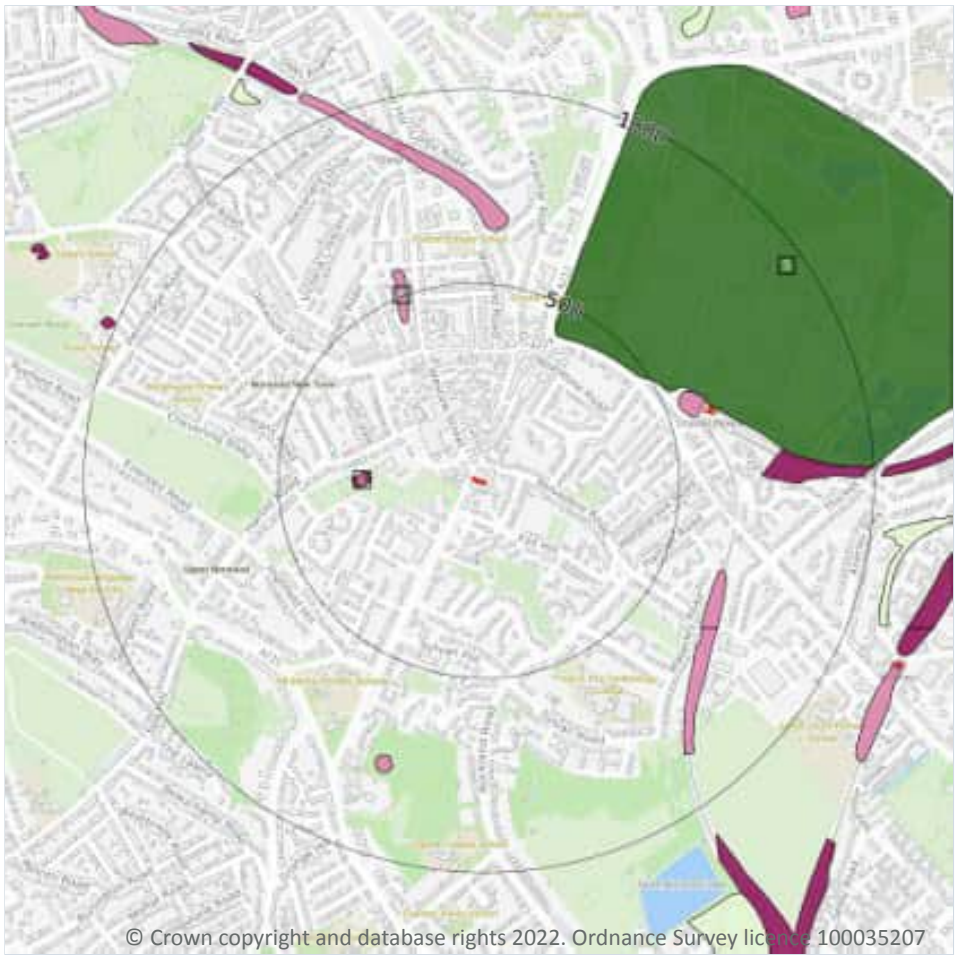
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 73**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**TQ37SW**
2	370m S	Full	Full	Full	No coverage	TQ36NW

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m **3**

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 74**

ID	Location	LEX Code	Description	Rock description
1	260m W	MGR-UKNOWN	Made Ground (Undivided)	Unknown/unclassified Entry
2	418m NE	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
3	435m NW	WGR-UKNOWN	Worked Ground (Undivided)	Unknown/unclassified Entry

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 **4**

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 75**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**SGU-XSV**	**Sand And Gravel Of Unknown Age - Sand And Gravel**	**Sand And Gravel**
2	361m N	HEAD-C	Head - Clay (unlithified Deposits Coding Scheme)	Clay
3	389m S	SGU-XSV	Sand And Gravel Of Unknown Age - Sand And Gravel	Sand And Gravel
4	439m E	HEAD-C	Head - Clay (unlithified Deposits Coding Scheme)	Clay

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 **4**

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 77**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CLGB-SANDU**	**Claygate Member - Sand**	**Eocene Epoch**
2	203m W	LC-CLAY	London Clay Formation - Clay	Eocene Epoch
3	370m S	CLGB-SANDU	Claygate Member - Sand	Eocene Epoch

ID	Location	LEX Code	Description	Rock age
4	381m S	LC-CLAY	London Clay Formation - Clay	Eocene Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**0**

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.

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	1

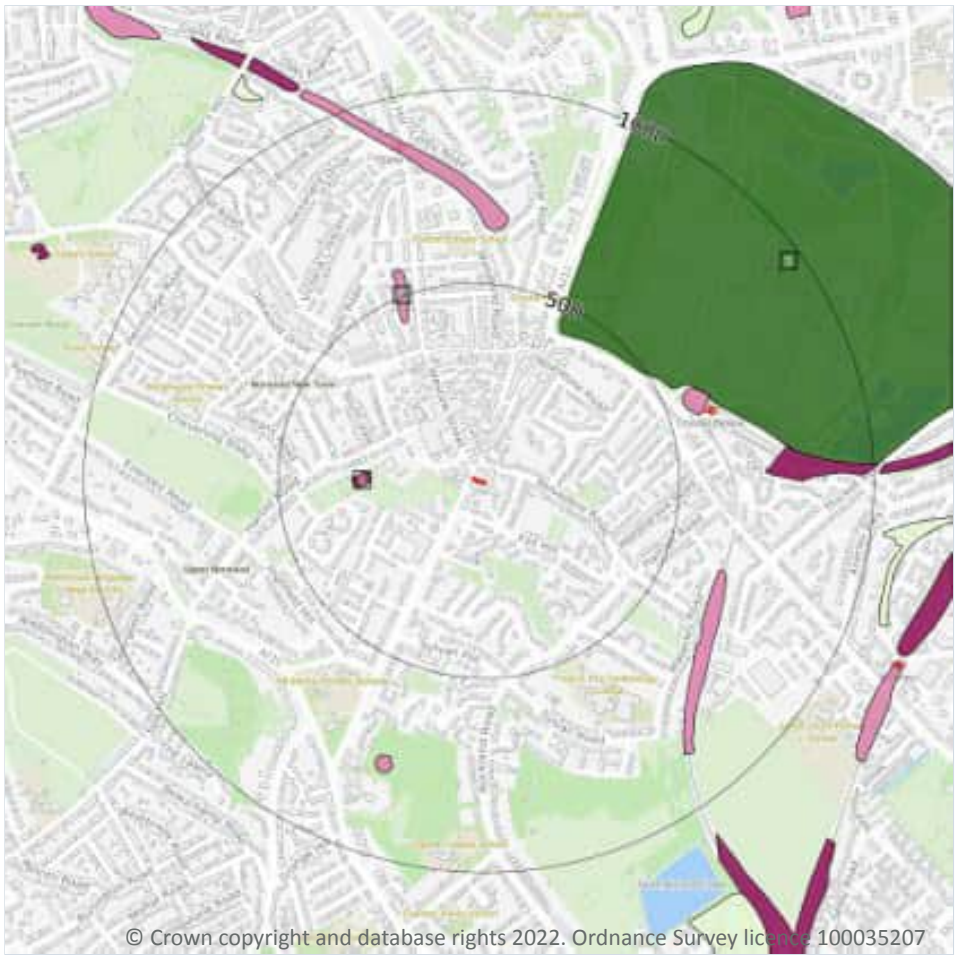
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 79**

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



Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	3

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 80**

ID	Location	LEX Code	Description	Rock description
1	261m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	430m NE	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
3	435m NW	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

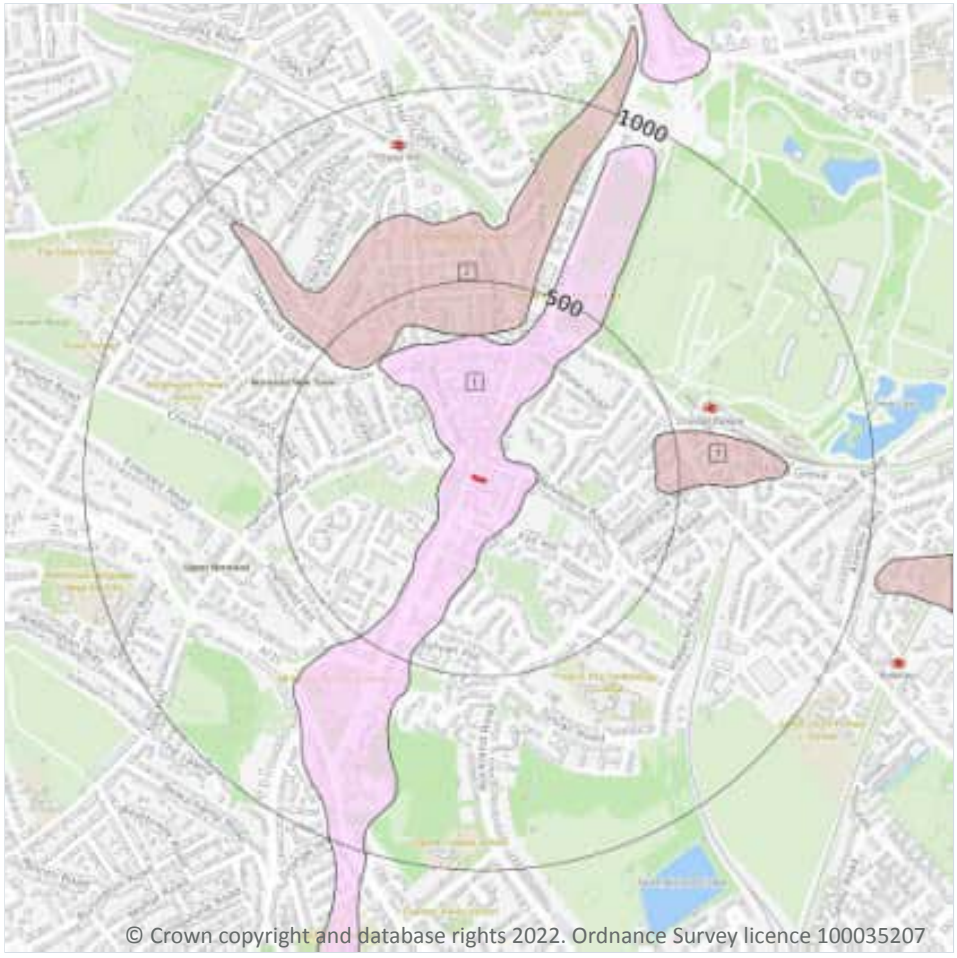
15.3 Artificial ground permeability (50k)

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 82**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**SUPD-XSV**	**SUPERFICIAL DEPOSITS**	**SAND AND GRAVEL**
2	361m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
3	439m E	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

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**	**Very High**	**High**

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.

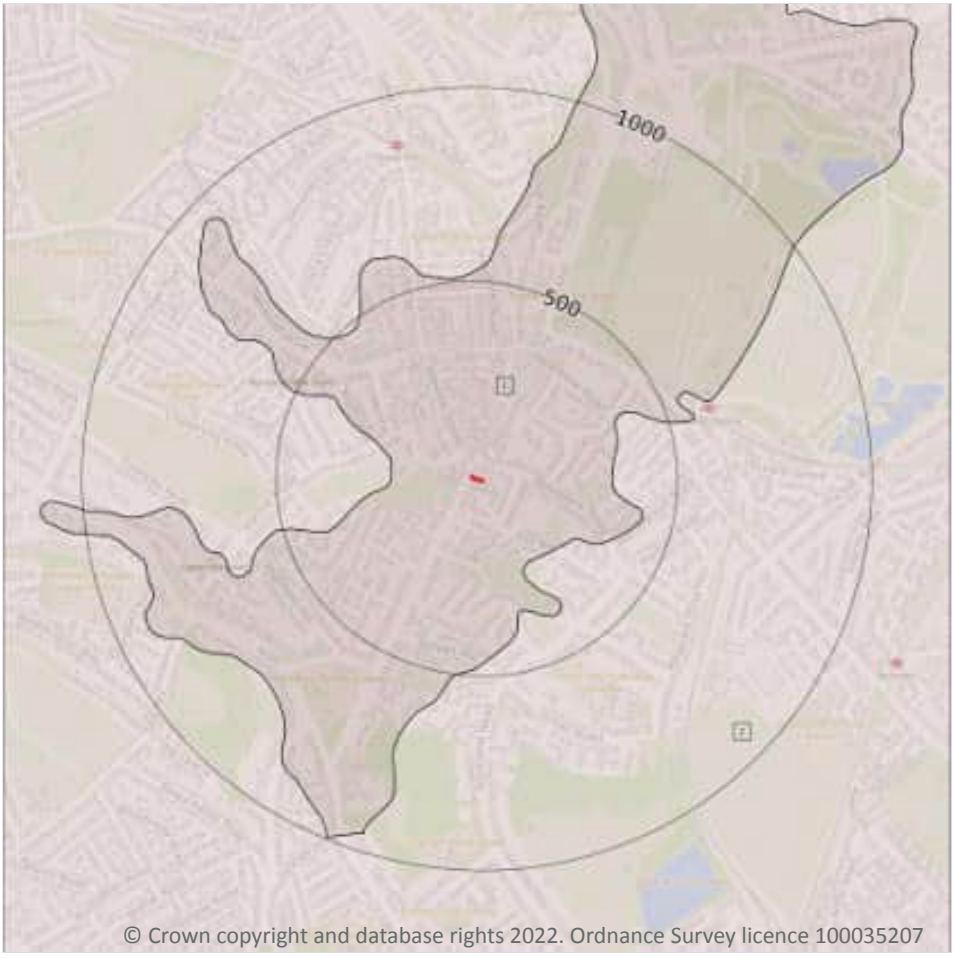
15.7 Landslip permeability (50k)

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 **2**

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 84**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CLGB-XSZC**	**CLAYGATE MEMBER - SAND, SILT AND CLAY**	**YPRESIAN**
2	204m W	LC-XCZ	LONDON CLAY FORMATION - CLAY AND SILT	YPRESIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock 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 bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**High**	**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	6

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.

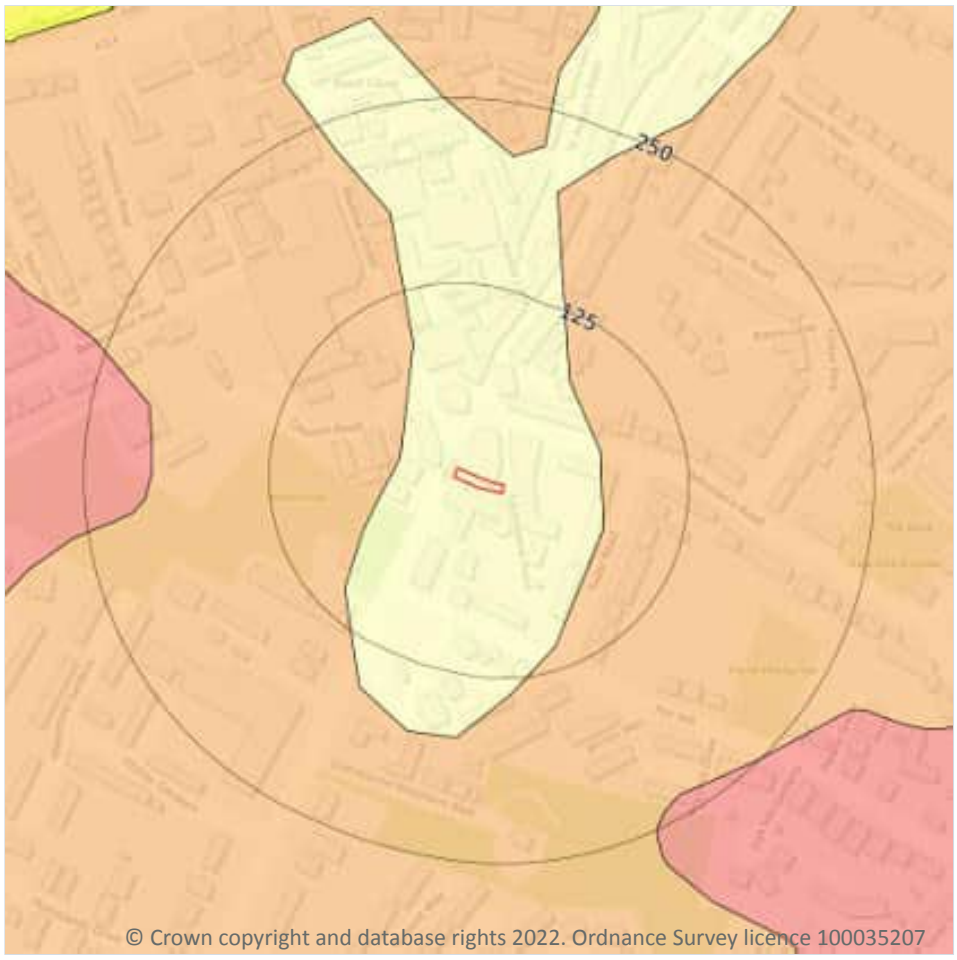
Features are displayed on the Boreholes map on **page 86**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	104m SW	533480 170280	FOXHILL DEVELOPMENT BH1	9.14	N	602534
2	133m S	533570 170240	FOXHILL DEVELOPMENT BH3	9.14	N	602536
3	158m S	533490 170220	FOXHILL DEVELOPMENT BH2	9.75	N	602535

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	202m S	533610 170180	FOXHILL DEVELOPMENT BH4	9.14	N	602537
A	245m NE	533640 170600	CHURCH ROAD LONDON SE19 1	-	Y	N/A
A	245m NE	533640 170600	CHURCH ROAD LONDON SE19 2	-	Y	N/A

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	2

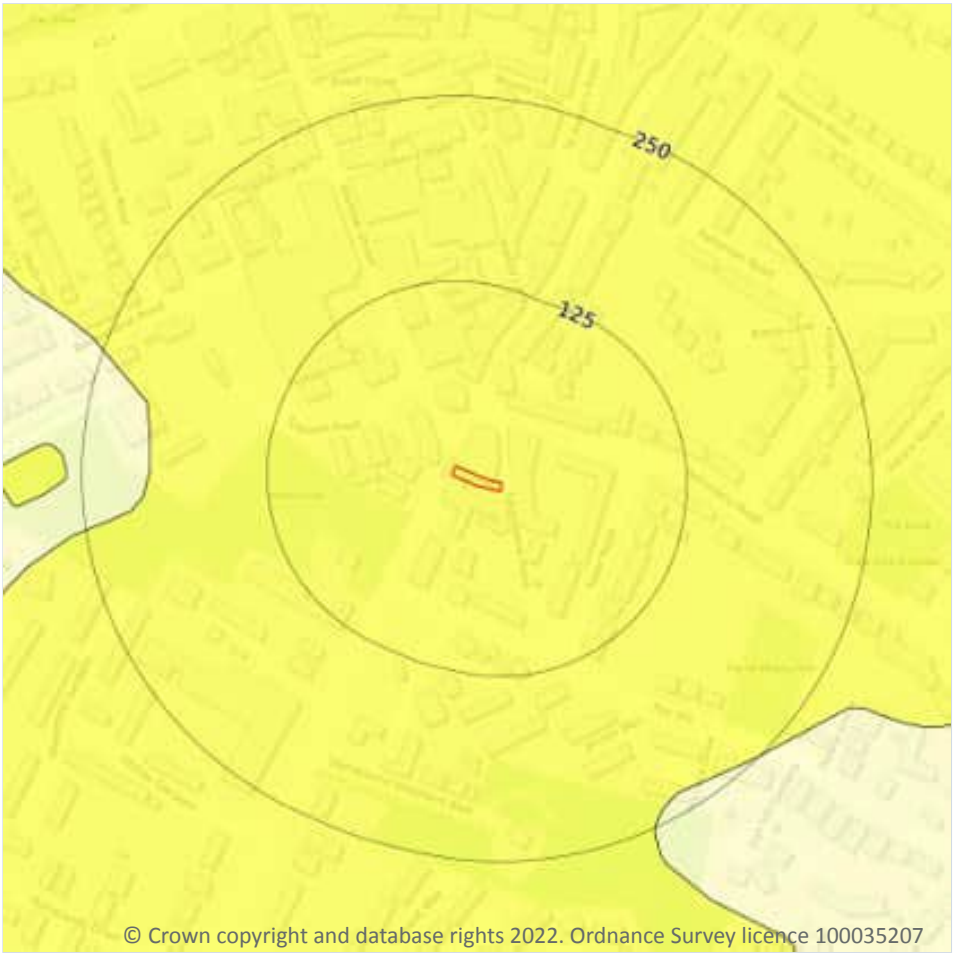
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 88**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
39m W	Low	Ground conditions predominantly medium plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

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 89**

Location	Hazard rating	Details
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits

Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

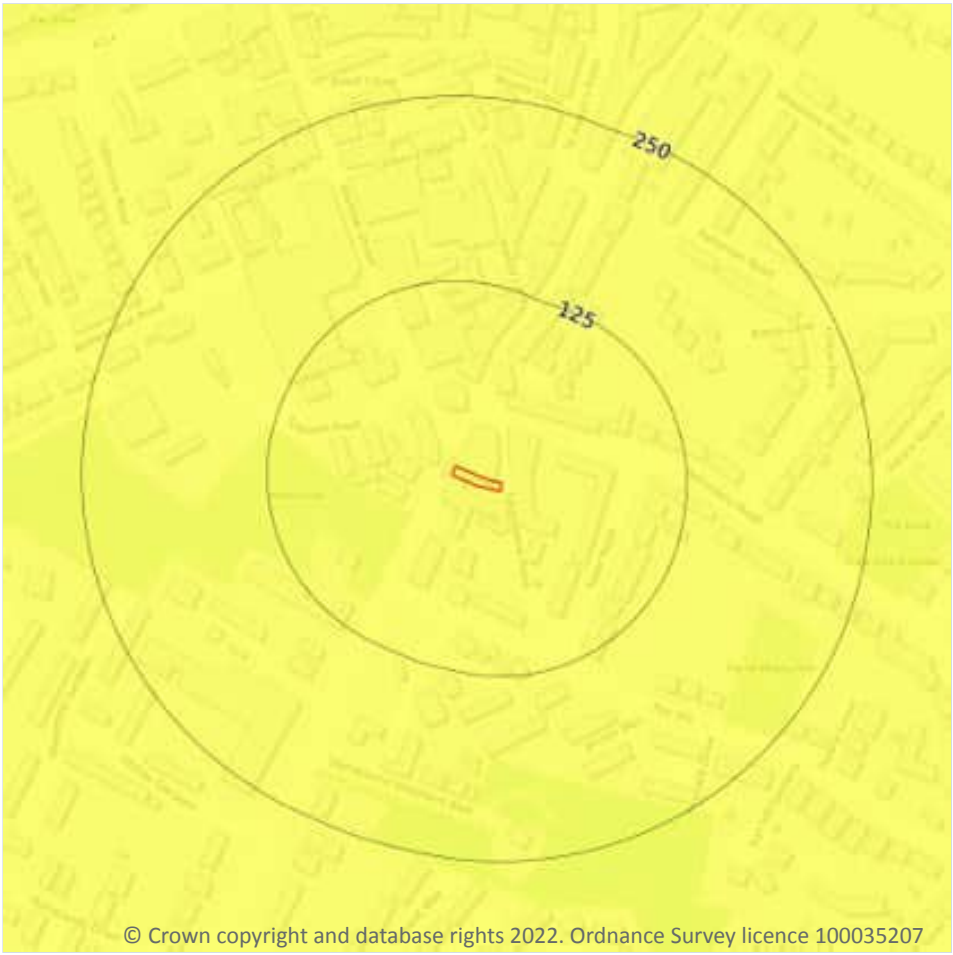
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 90**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	**1**

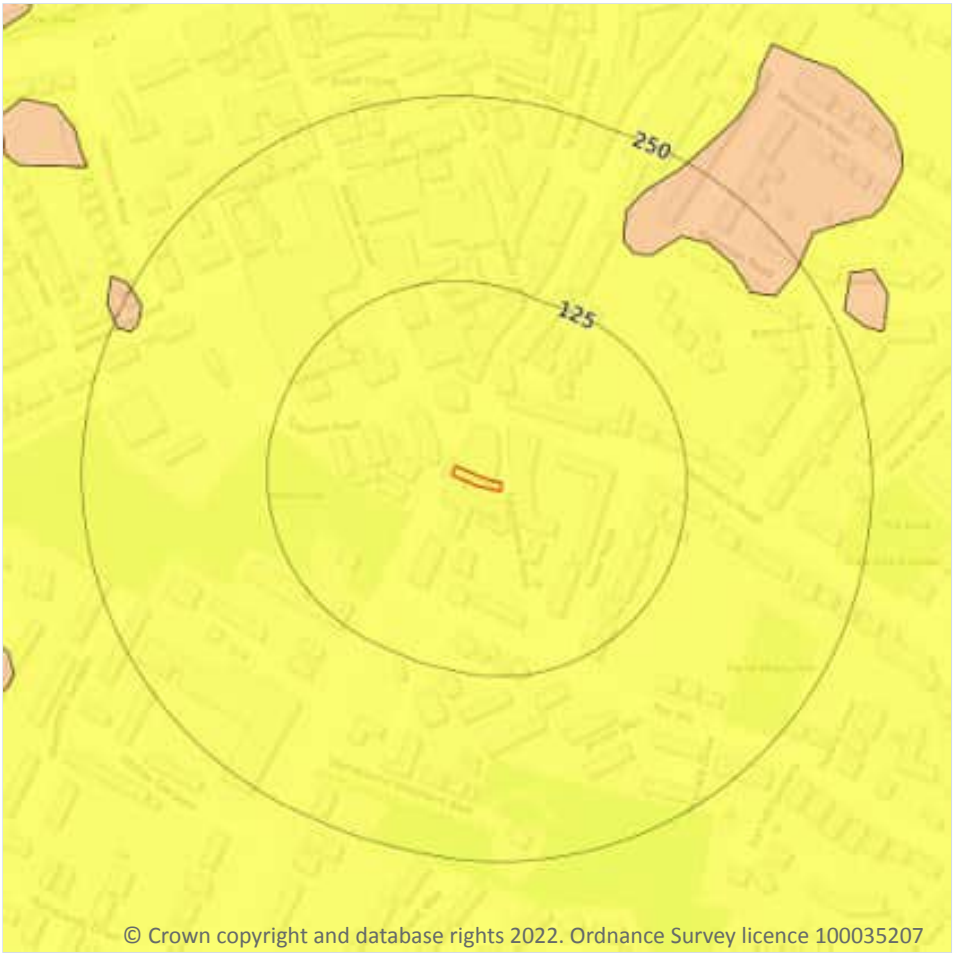
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 91**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely 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	1

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 92**

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.**

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 93**

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	0

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.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	15

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 94**

ID	Location	Land Use	Year of mapping	Mapping scale
A	77m NW	Refuse Heap	1957	1:10560
A	77m NW	Unspecified Ground Workings	1973	1:10000
A	78m NW	Refuse Heap	1955	1:10560
A	99m NW	Unspecified Ground Workings	1968	1:10560
B	102m NE	Unspecified Heap	1920	1:10560
B	104m NE	Unspecified Heap	1919	1:10560
B	106m NE	Unspecified Ground Workings	1938	1:10560
B	106m NE	Unspecified Ground Workings	1930	1:10560
B	106m NE	Unspecified Ground Workings	1915	1:10560
C	108m SE	Unspecified Heap	1968	1:10560
C	121m SE	Unspecified Heap	1957	1:10560
D	245m E	Unspecified Ground Workings	1992	1:10000
D	247m E	Unspecified Pit	1968	1:10560
D	247m E	Unspecified Pit	1957	1:10560
D	247m E	Unspecified Pit	1955	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	11

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 94**

ID	Location	Land Use	Year of mapping	Mapping scale
H	460m NE	Tunnel	1992	1:10000
H	460m NE	Tunnel	1973	1:10000
H	460m NE	Tunnel	1968	1:10560
H	460m NE	Tunnel	1957	1:10560
H	460m NE	Tunnel	1955	1:10560
H	460m NE	Tunnel	1982	1:10000
I	465m NE	Tunnel	1933	1:10560
-	885m N	Tunnel	1919	1:10560
-	888m N	Tunnel	1968	1:10560
-	888m N	Tunnel	1957	1:10560
-	888m N	Tunnel	1955	1:10560

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	1

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 94**

ID	Location	Mine Address	Mineral	Data source	Publisher
6	582m NW	Greater London	Man made i.e. secret tunnels, air raid shelters	-	Chelsea Speleological Society

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 Groundsure.

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	1

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 99**

Location	Estimated properties affected	Radon Protection Measures required
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	2

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**
8m SW	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	4

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	**12**	**2.1**	**173**	**119**	**0.7**	**73**	**29**	**18**	**10**
8m W	14	2.5	175	120	0.8	78	31	21	9
13m N	12	2.1	187	128	0.8	72	32	18	11
17m NW	14	2.5	174	120	0.8	76	32	21	9

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

21.1 Underground railways (London)

Records within 250m	0

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

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	0

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.

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	0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0

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.

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.

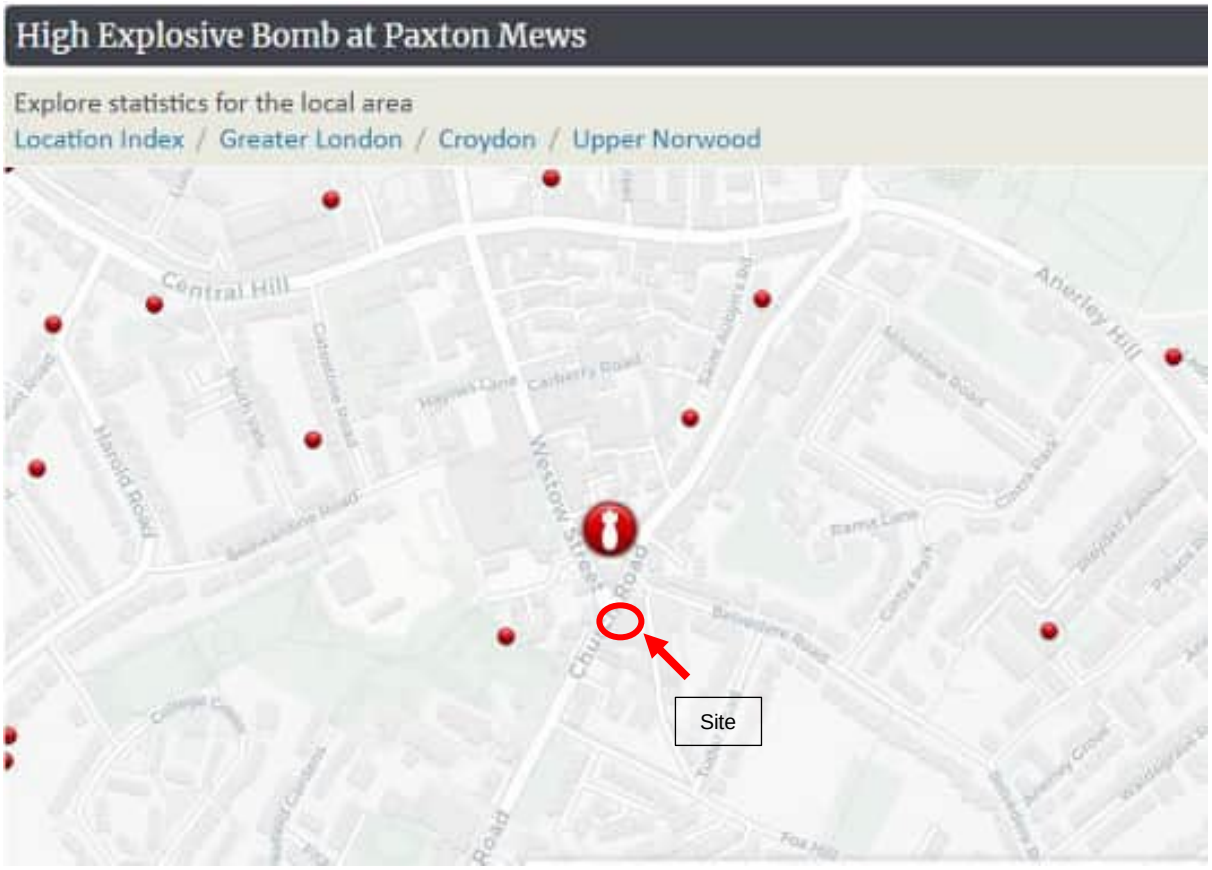
Data providers

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/.

22 APPENDIX 5 – UNEXPLODED ORDNANCE MAP



23 APPENDIX 6 – SITE PHOTOGRAPHY


Untitled Map
Legend
Google Earth


Untitled Map
Legend
JUST EAT
Google Earth

24 APPENDIX 7 - RISK ASSESSMENT METHODOLOGY

- Severity considers the potential impact of the linkage on the receptors, if the linkage was active. Categories range from slight/superficial to fatal.
- Likelihood considers the chances of the linkage occurring and is classified into categories from improbable to frequent.

By assigning scores with each of the above categories, the risk assessment can be undertaken using the formula:

RISK = LIKELIHOOD × SEVERITY

The matrix given in Table 10 provides a means of calculating the overall risk; while Table 11 provides the qualitative assessment based on the risk score.

Table 10: Contamination Risk Matrix

		Potential Severity				
		Fatal 5	Major 4	Moderate 3	Minor 2	Slight 1
Probable Likelihood	Frequent 5	Very High	High	Moderate	Low - Moderate	Low
	Probable 4	High	High	Moderate	Low - Moderate	Low
	Possible 3	Moderate	Moderate	Low - Moderate	Low - Moderate	Very Low
	Remote 2	Low - Moderate	Low - Moderate	Low - Moderate	Low	Very Low
	Improbable 1	Low	Low	Very Low	Very Low	Very Low

Table 11: Assessment description for risk scores

Risk Score	Risk Assessment
1-3	**Very Low**
4-5	**Low**
6-10	**Low to Moderate**
11-15	**Moderate**
16-20	**High**
21-25	**Very High**

Table 12: Risk Classification System

Risk Term	Description
Very Low	The presence of an identified hazard does not give rise to the potential to cause significant harm to groundwater, surface water, ecological and/or property receptors. In the event of such harm being realized, it is not likely to be Severe.
Low	The presence of an identified hazard does not give rise to the potential to cause significant harm to human health receptors. In the event of such harm being realized, it is not likely to be Severe.
Low to Moderate	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realized, would at worst normally be mild.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
High	Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remedial action. Investigation is required and remedial works may be necessary in the short term and are likely over the longer term.
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or, there is an evidence that severe harm to a designated receptor is currently happening. Urgent investigation and remediation are likely to be required.

25 ABBREVIATIONS

Abbreviation	Description
AONB	Areas of Outstanding Natural Beauty
c.	circa
CLRA	Contaminated Land Risk Assessment
COMAH	Control of Major Accident Hazards
CSM	Conceptual Site Risk Model
EA	Environment Agency
IPC	Integrated Pollution Control
IPPC	Integrated Pollution Prevention Control
LAPC	Local Authority Pollution Control
LNR	Local Nature Reserves
NIHHS	Notification of Installations Handling Hazardous Substances
NNR	National Nature Reserves
NP	National Parks
NPPF	National Planning Policy Framework
OS	Ordnance Survey
PAHs	Polycyclic Aromatic Hydrocarbons
Part IIA	Part IIA of the Environmental Protection. Act 1990
PCBs	Polychlorinated Biphenyls
PCLU	Potentially Contaminative Land Use
PPL	Potential Pollutant Linkage
PSPPL	Potentially Significant Potential Pollutant Linkage
SAC	Special Areas of Conservation
SI	Site Investigation
SPA	Special Protection Area
SPOSH	Significant Possibility of Significant Harm
SSSIs	Sites of Special Scientific Interest
TPHs	Total Petroleum Hydrocarbons
UXO	Unexploded Ordnance