Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P
Grid Ref: 229230, 674288

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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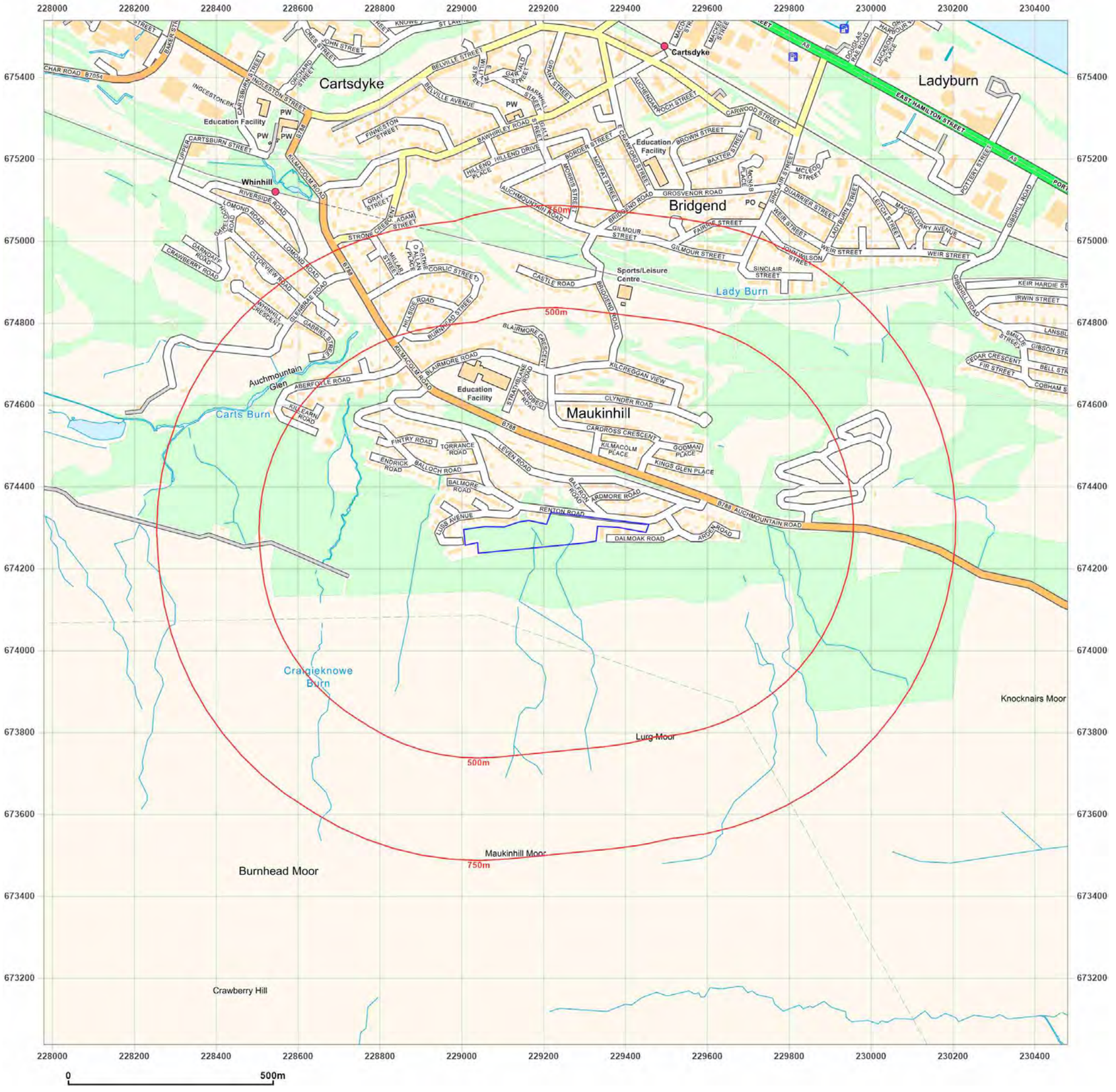
Production date: 20 November 2023

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



Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P
Grid Ref: 229230, 674288

Map Name: National Grid

Map date: **2023**

Scale: 1:10,000

Printed at: 1:10,000

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Production date: 20 November 2023

Map legend available at:
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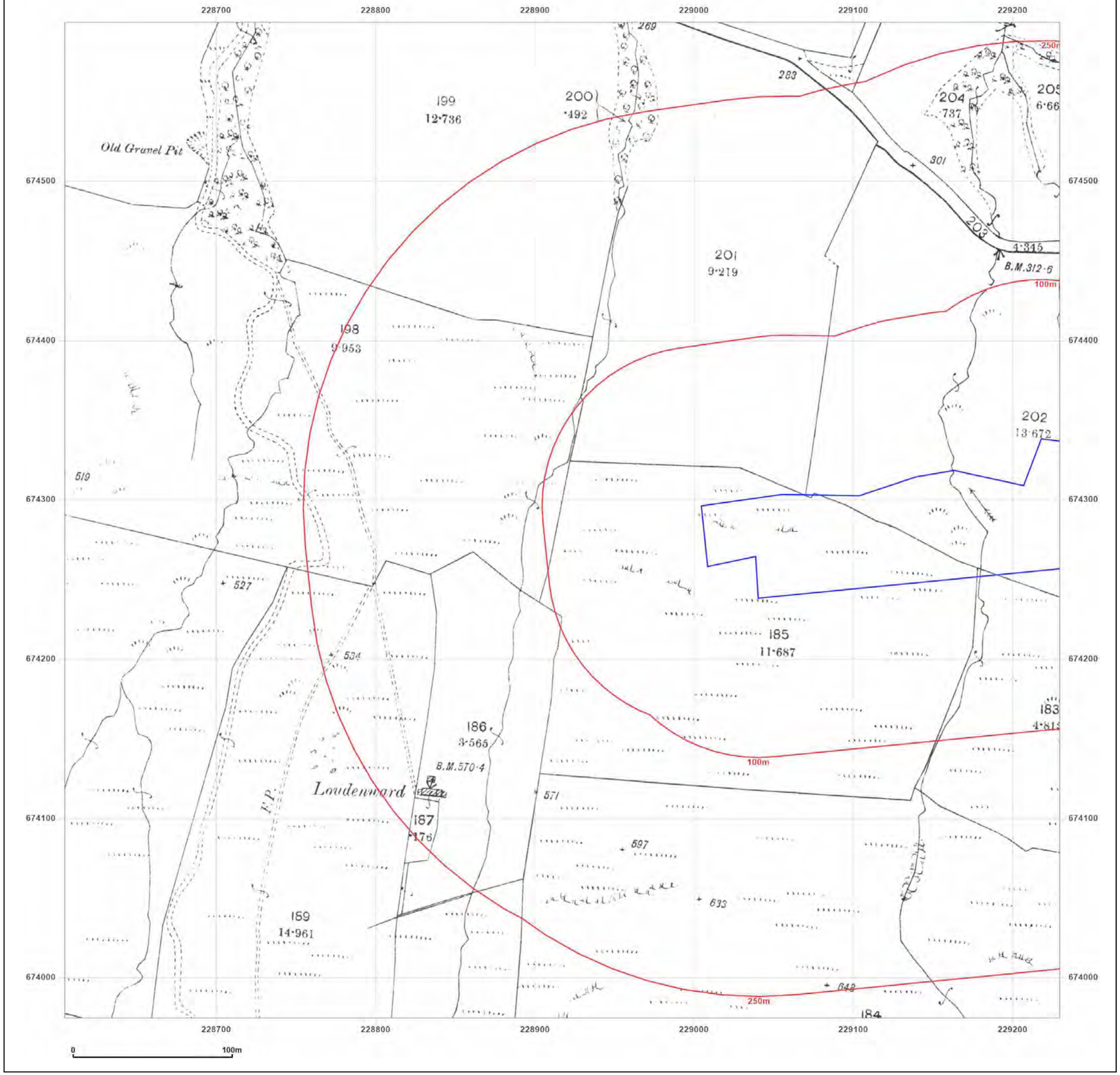

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_LS_1_1
Grid Ref: 228917, 674287

Map Name: County Series
Map date: **1897**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 20 November 2023

Map legend available at:
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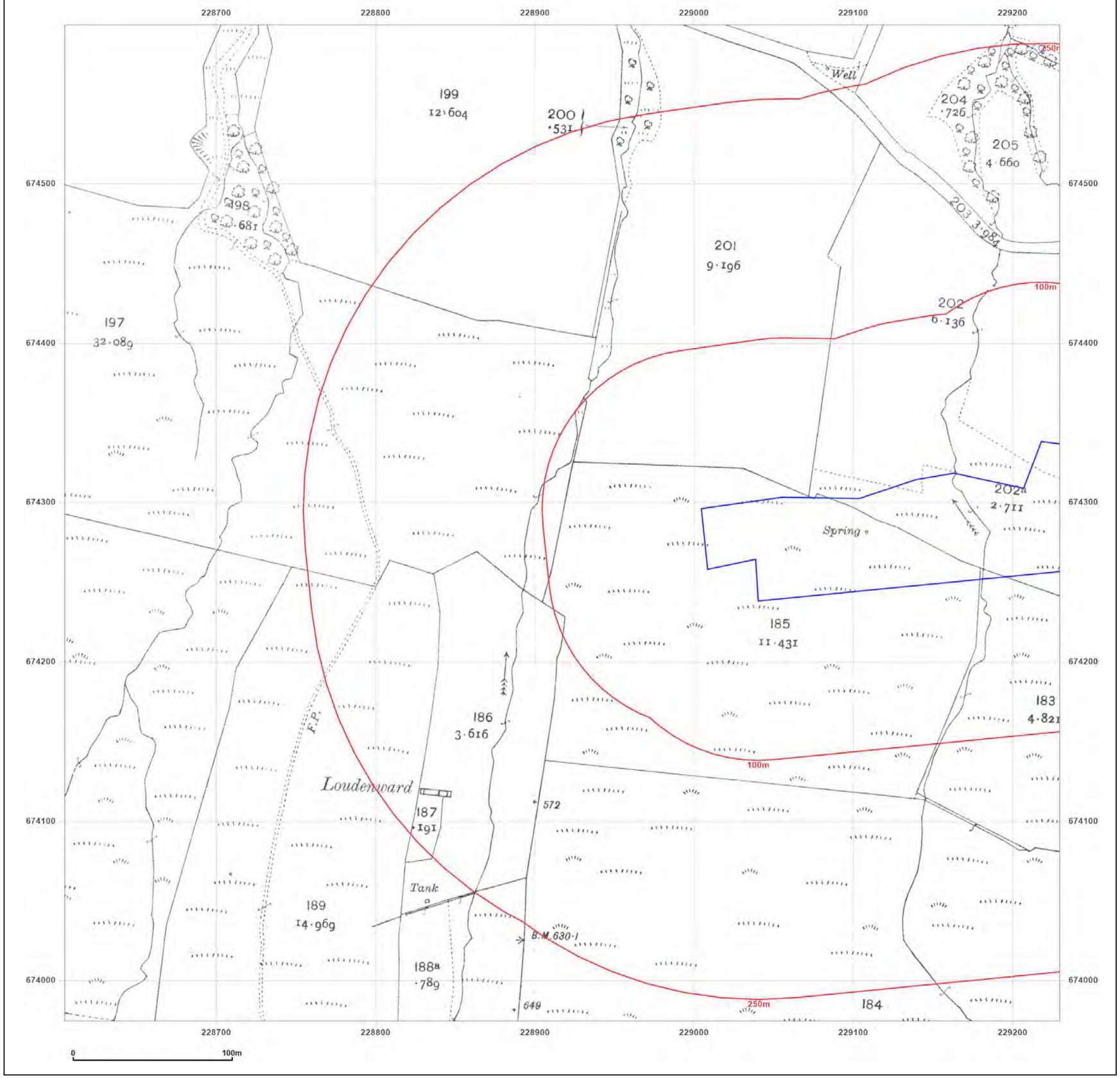

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_LS_1_1
Grid Ref: 228917, 674287

Map Name: County Series
Map date: **1914**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1914
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 20 November 2023

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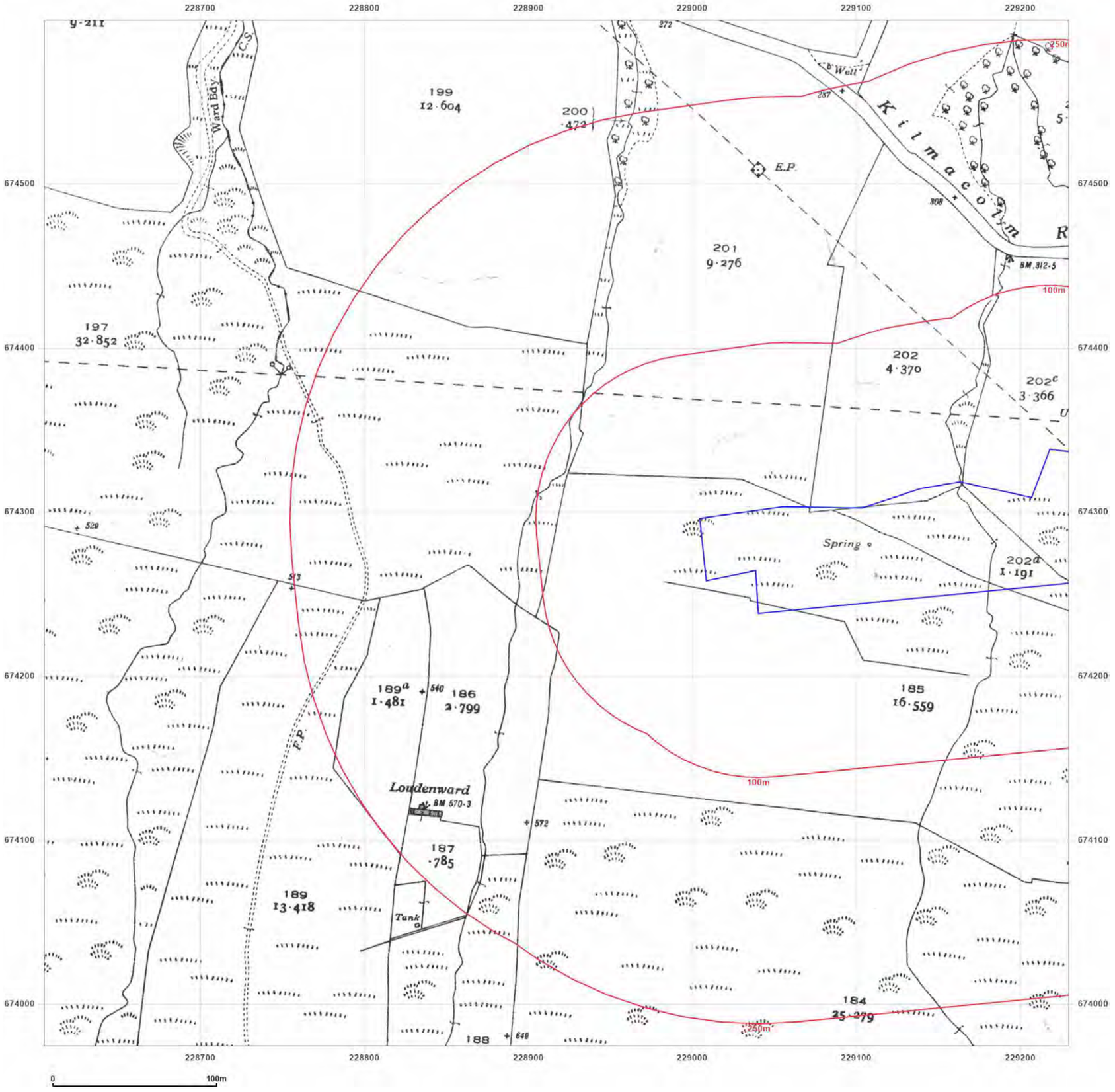

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_LS_1_1
Grid Ref: 228917, 674287

Map Name: County Series
Map date: **1938**
Scale: 1:2,500
Printed at: 1:2,500

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

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Production date: 20 November 2023

Map legend available at:
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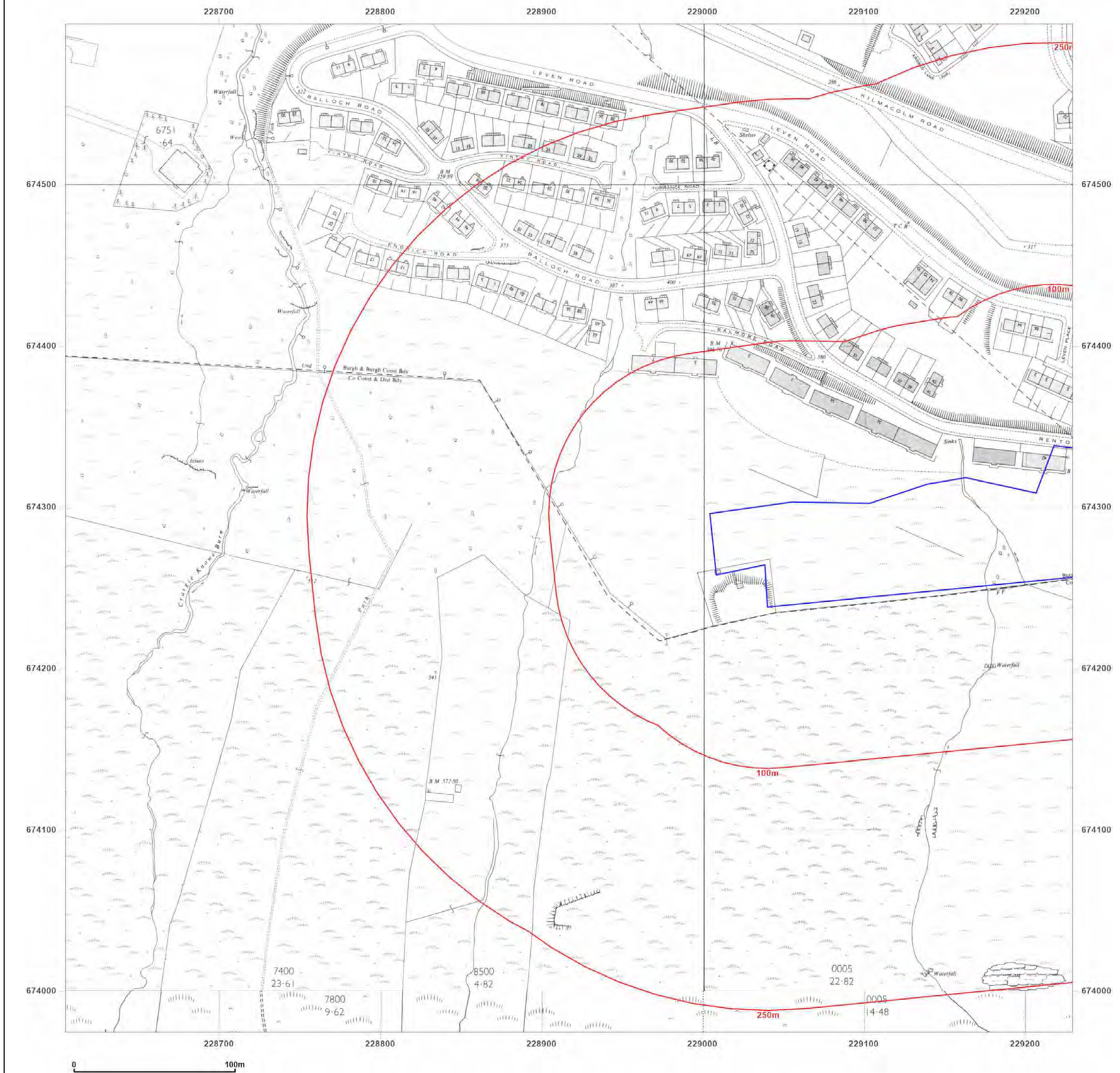

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_LS_1_1
Grid Ref: 228917, 674287

Map Name: National Grid

Map date: **1965-1966**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1965
Revised 1965
Edition N/A
Copyright 1966
Levelled 1959

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1948

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Production date: 20 November 2023

Map legend available at:
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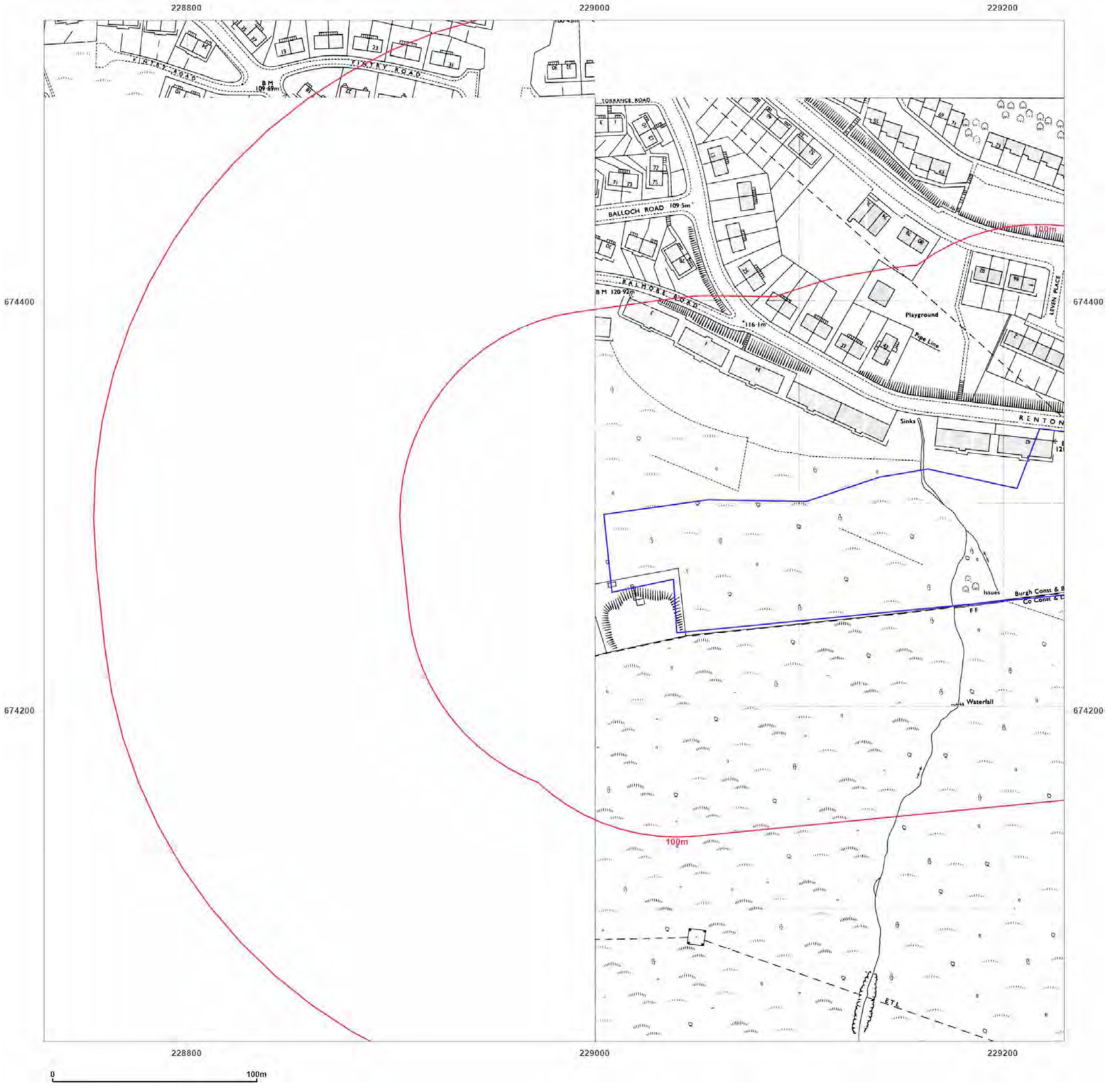

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_1_1
Grid Ref: 228980, 674288

Map Name: National Grid

Map date: **1975**

Scale: 1:1,250

Printed at: 1:2,000

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

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

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Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_1_1
Grid Ref: 228980, 674288

Map Name: National Grid
Map date: **1987**
Scale: 1:1,250
Printed at: 1:2,000

N
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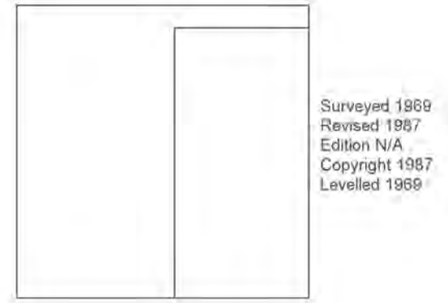

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Production date: 20 November 2023

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Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_1_1
Grid Ref: 228980, 674288

Map Name: National Grid
Map date: **1987-1990**
Scale: 1:1,250
Printed at: 1:2,000

N
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Surveyed 1969
Revised 1987
Edition N/A
Copyright 1987
Levelled 1969

Surveyed 1959
Revised 1989
Edition N/A
Copyright 1989
Levelled 1959

Surveyed 1969
Revised 1990
Edition N/A
Copyright 1990
Levelled 1969

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Production date: 20 November 2023

Map legend available at:
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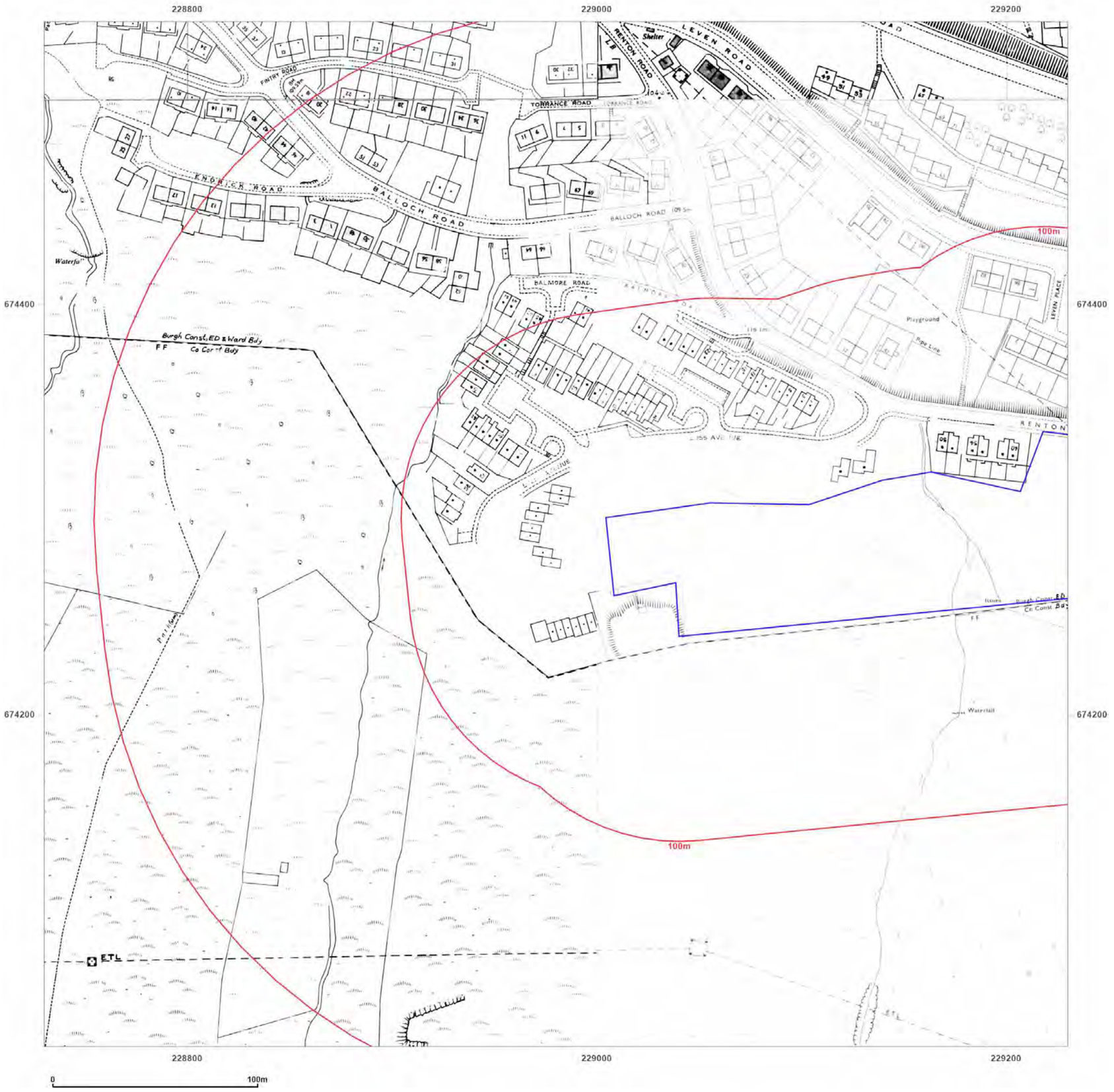

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_1_1
Grid Ref: 228980, 674288

Map Name: National Grid
Map date: **1990-1994**
Scale: 1:1,250
Printed at: 1:2,000

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

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

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

Surveyed 1969
Revised 1990
Edition N/A
Copyright 1990
Levelled 1969

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Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_1_1
Grid Ref: 228980, 674288

Map Name: National Grid
Map date: **1991-1994**
Scale: 1:1,250
Printed at: 1:2,000

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

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

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

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Production date: 20 November 2023

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Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_1_1
Grid Ref: 228980, 674288

Map Name: National Grid
Map date: **1994**
Scale: 1:1,250
Printed at: 1:2,000

N
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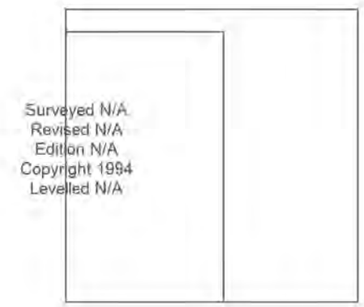

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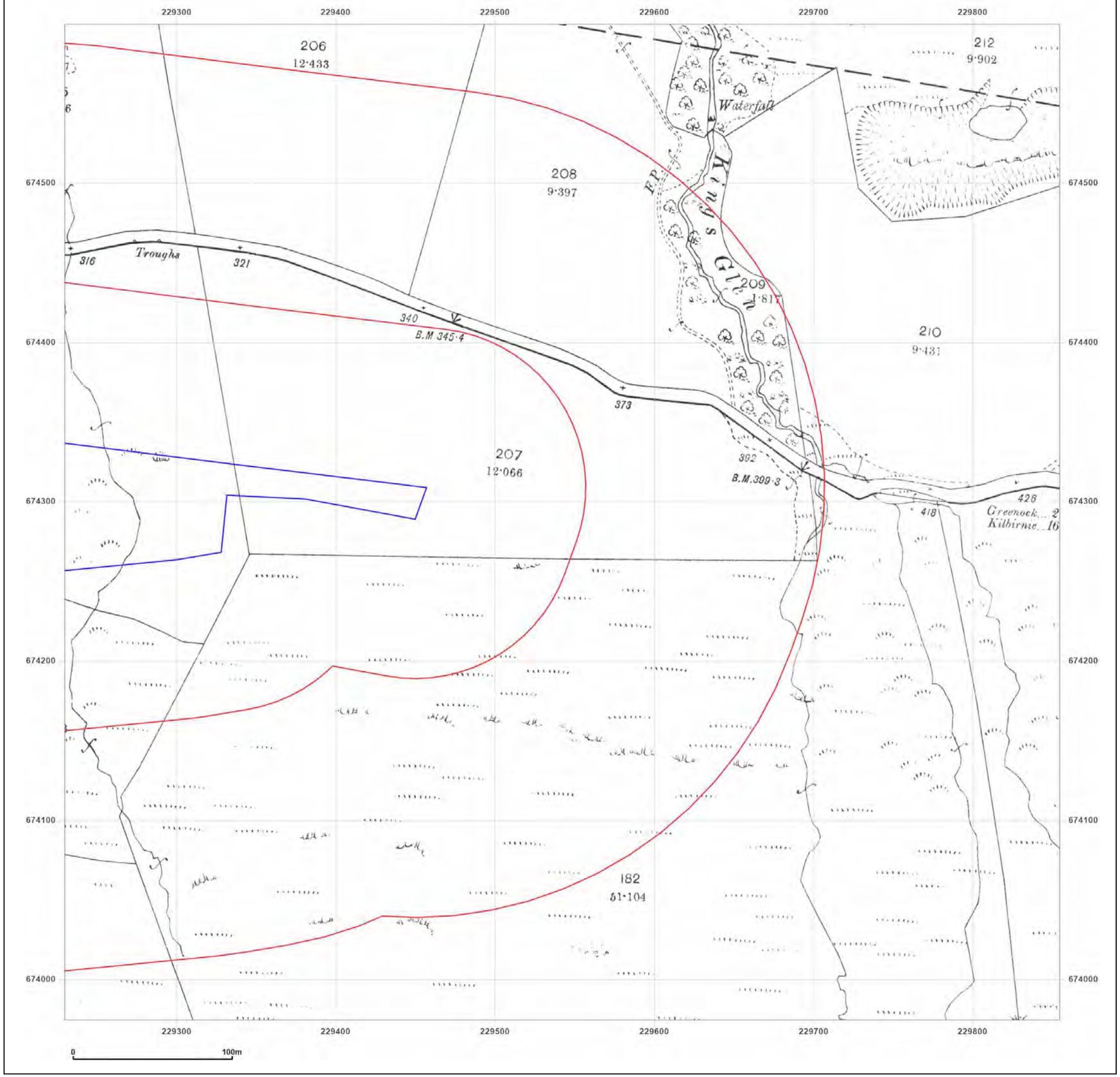

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_LS_2_1
Grid Ref: 229542, 674287

Map Name: County Series
Map date: **1897**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 20 November 2023

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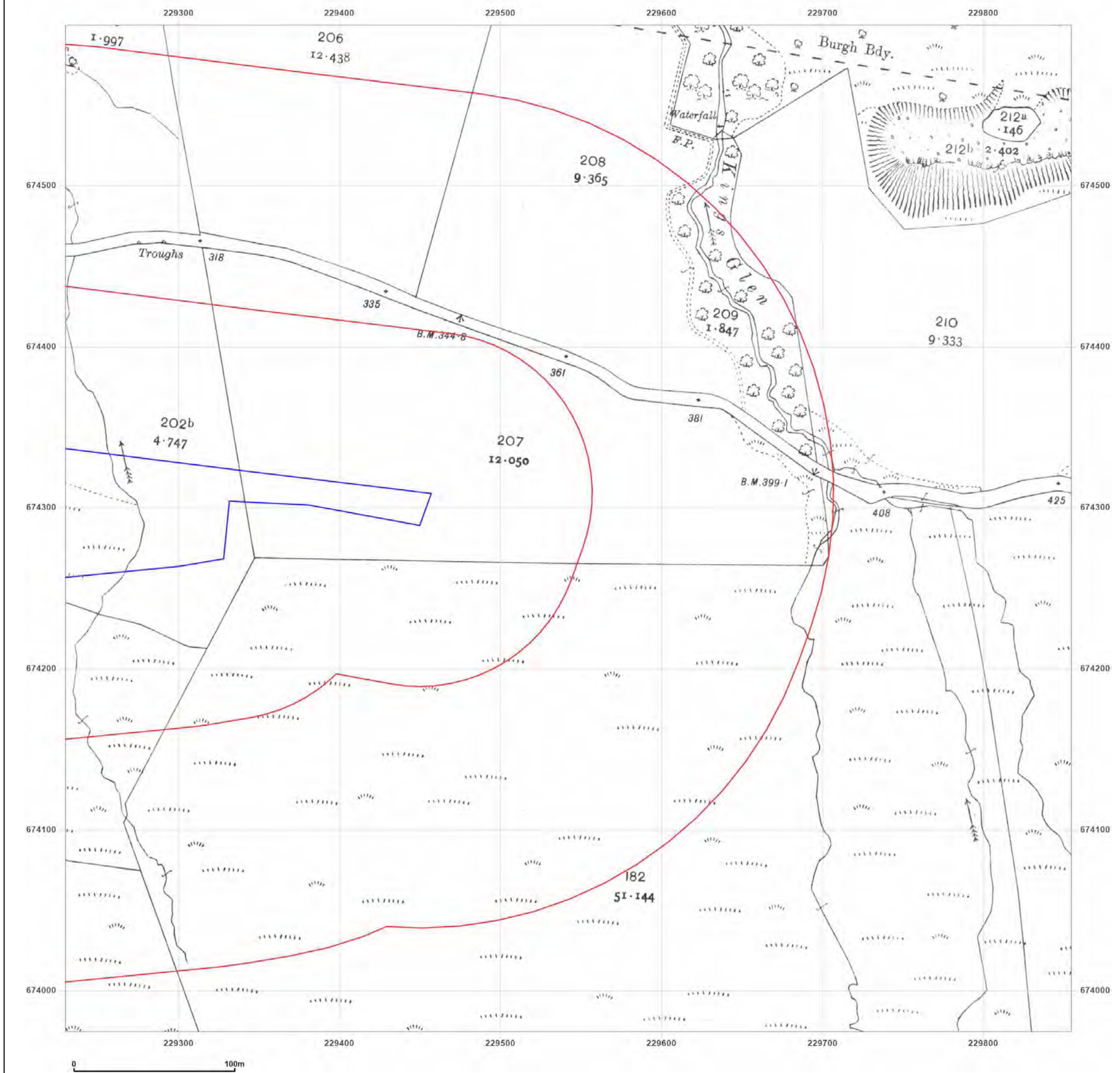

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_LS_2_1
Grid Ref: 229542, 674287

Map Name: County Series
Map date: **1914**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1914
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

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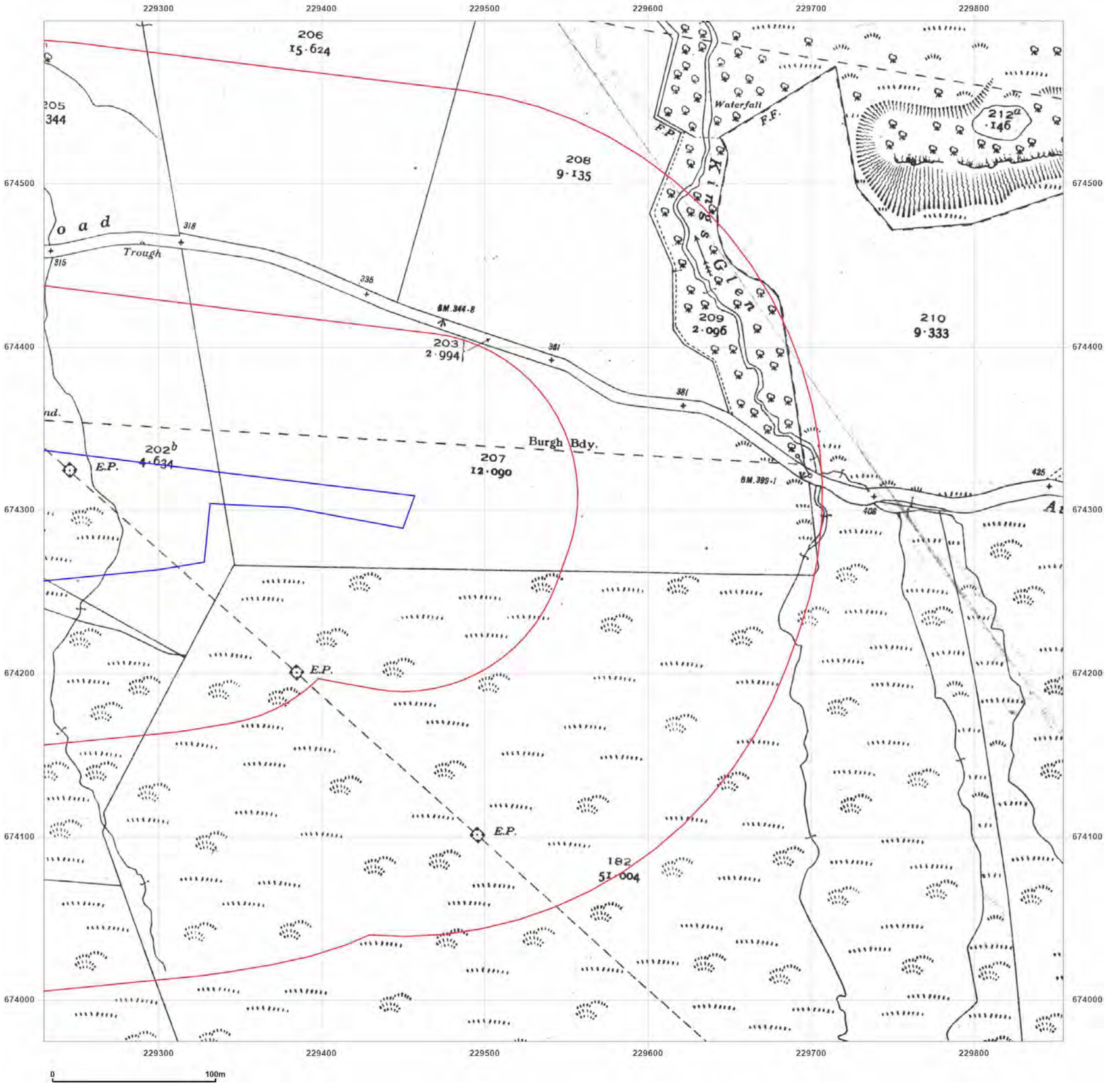

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_LS_2_1
Grid Ref: 229542, 674287

Map Name: County Series
Map date: **1938**
Scale: 1:2,500
Printed at: 1:2,500

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

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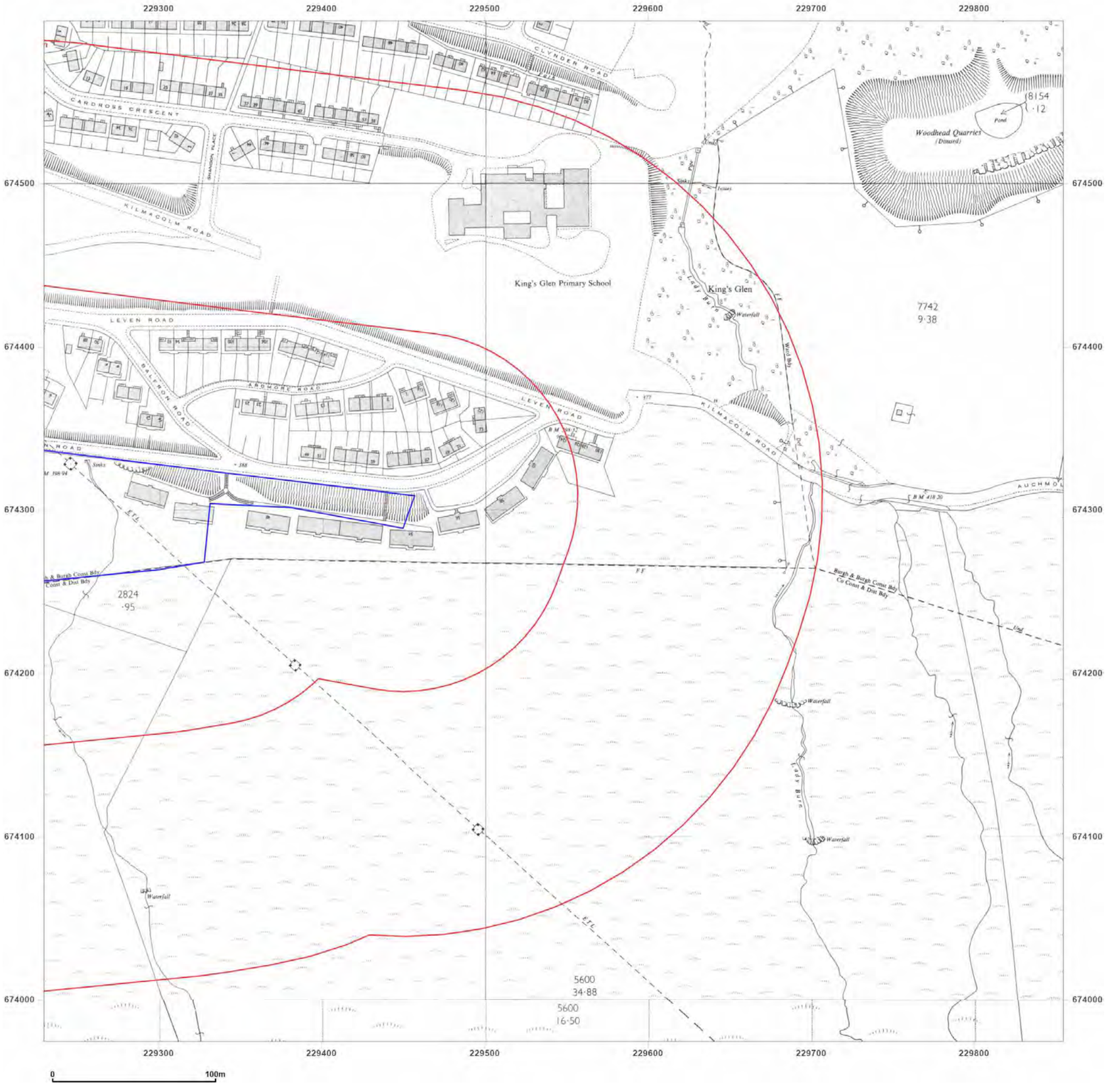

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_LS_2_1
Grid Ref: 229542, 674287

Map Name: National Grid
Map date: **1965-1966**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1965
Revised 1965
Edition N/A
Copyright 1966
Levelled 1959

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1948

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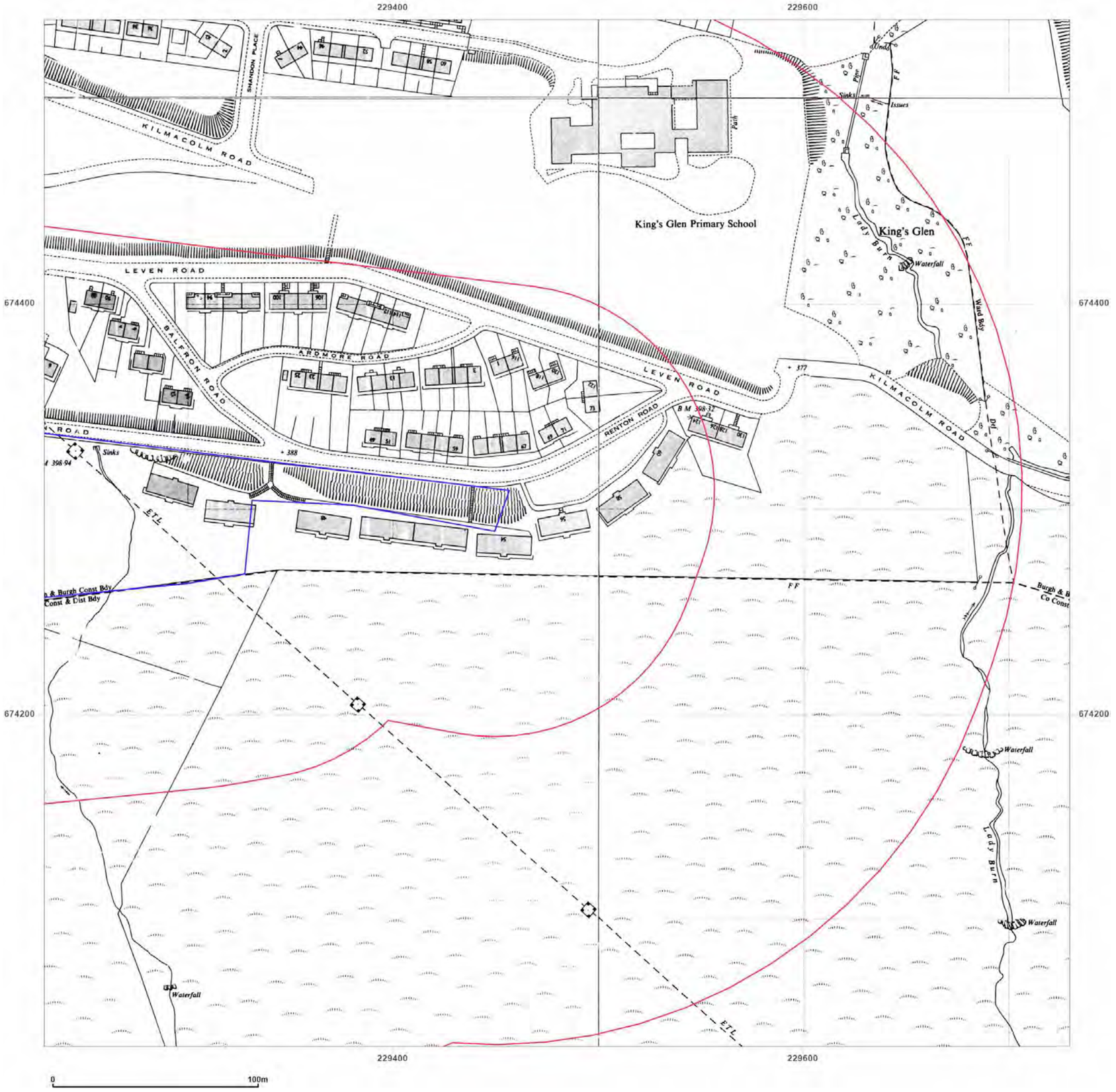

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_2_1
Grid Ref: 229480, 674288

Map Name: National Grid

Map date: **1965**

Scale: 1:1,250

Printed at: 1:2,000

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

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

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

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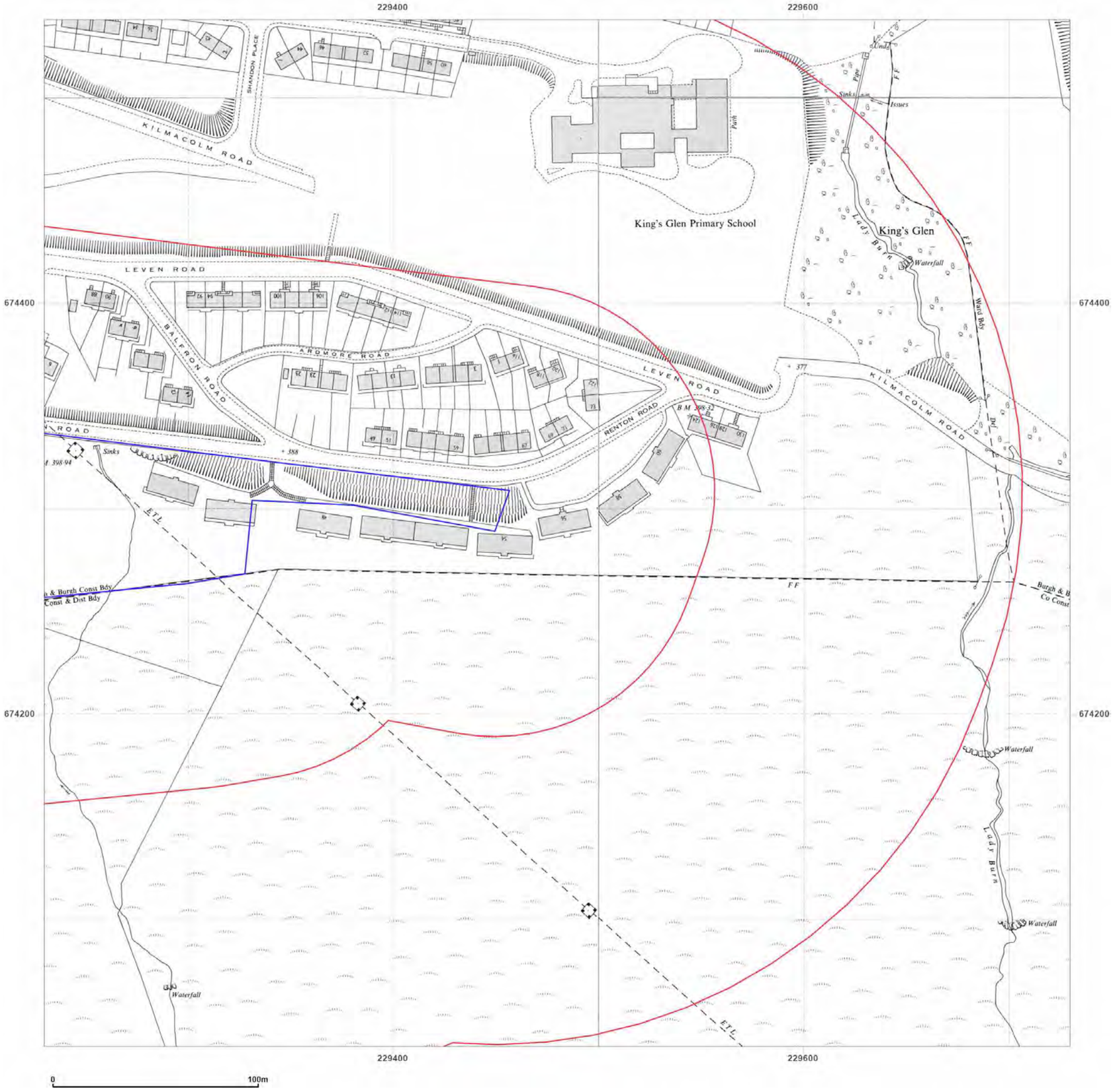

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_2_1
Grid Ref: 229480, 674288

Map Name: National Grid

Map date: **1966**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1965
Revised 1965
Edition N/A
Copyright 1966
Levelled 1959

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1966
Levelled 1959

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1966
Levelled 1959

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1966
Levelled 1959

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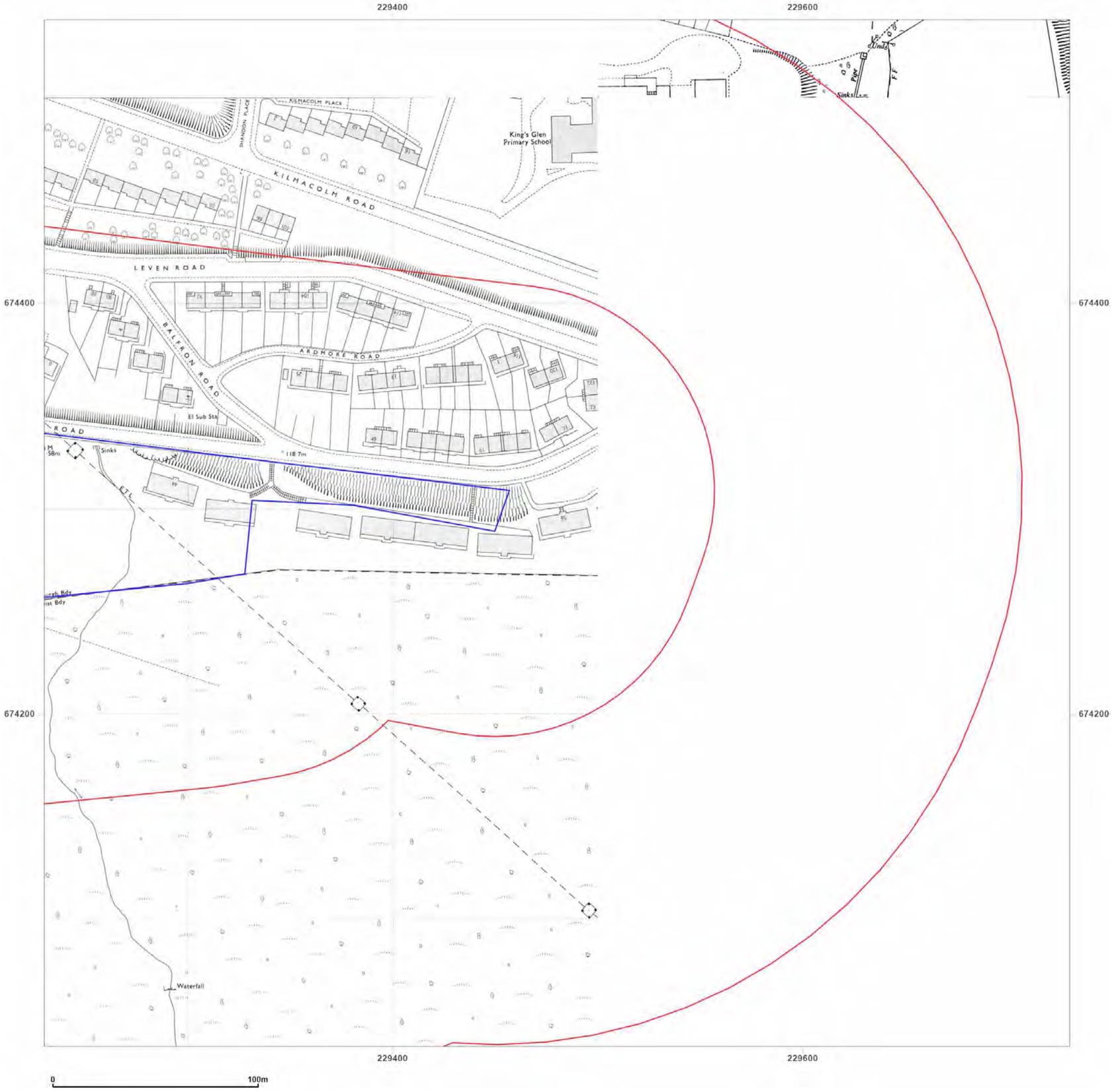
Production date: 20 November 2023

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



Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_2_1
Grid Ref: 229480, 674288

Map Name: National Grid
Map date: **1975-1978**
Scale: 1:1,250
Printed at: 1:2,000

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

Surveyed 1965
Revised 1974
Edition N/A
Copyright 1975
Levelled 1969

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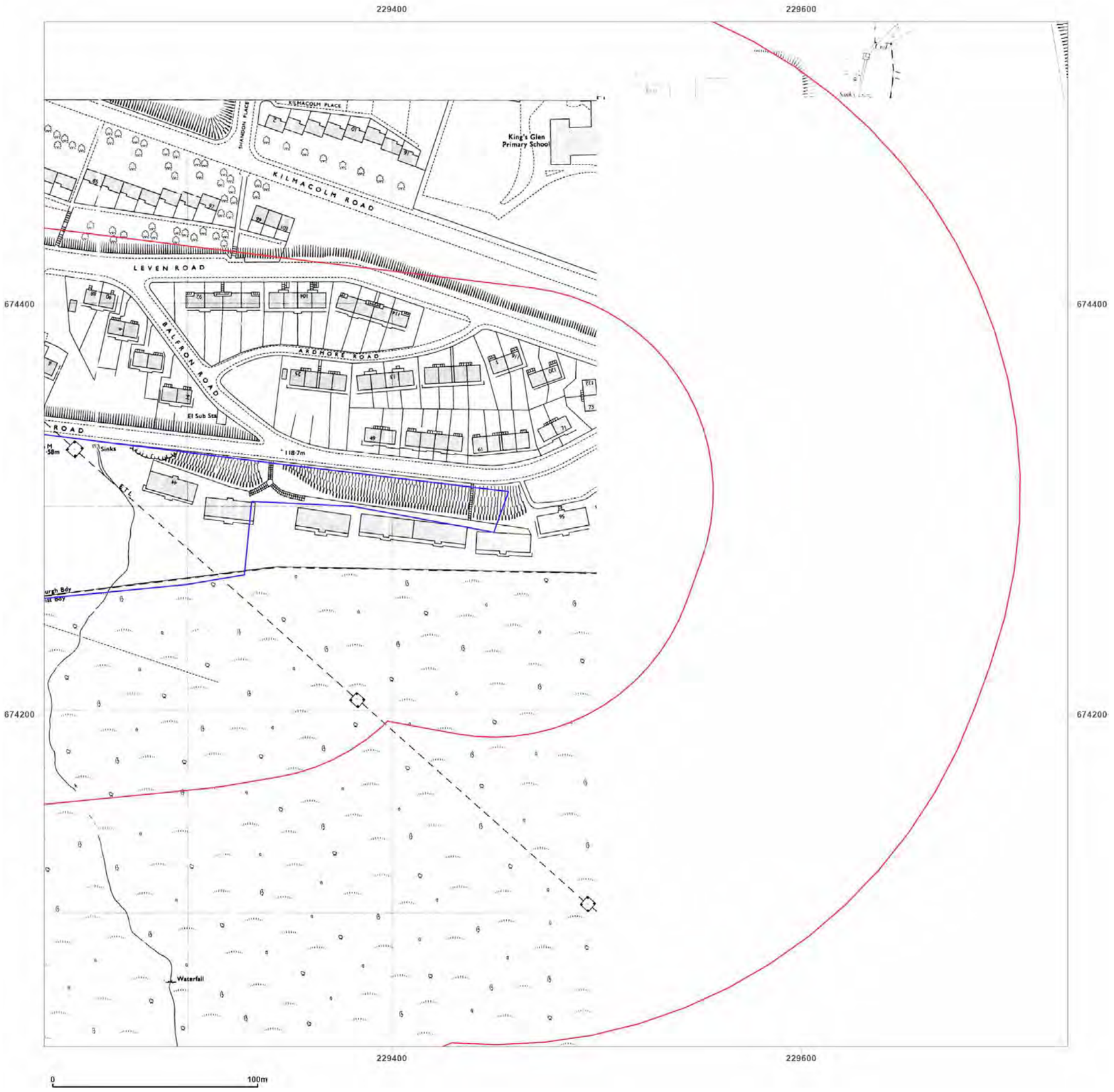

Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_2_1
Grid Ref: 229480, 674288

Map Name: National Grid
Map date: **1975-1979**
Scale: 1:1,250
Printed at: 1:2,000

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

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

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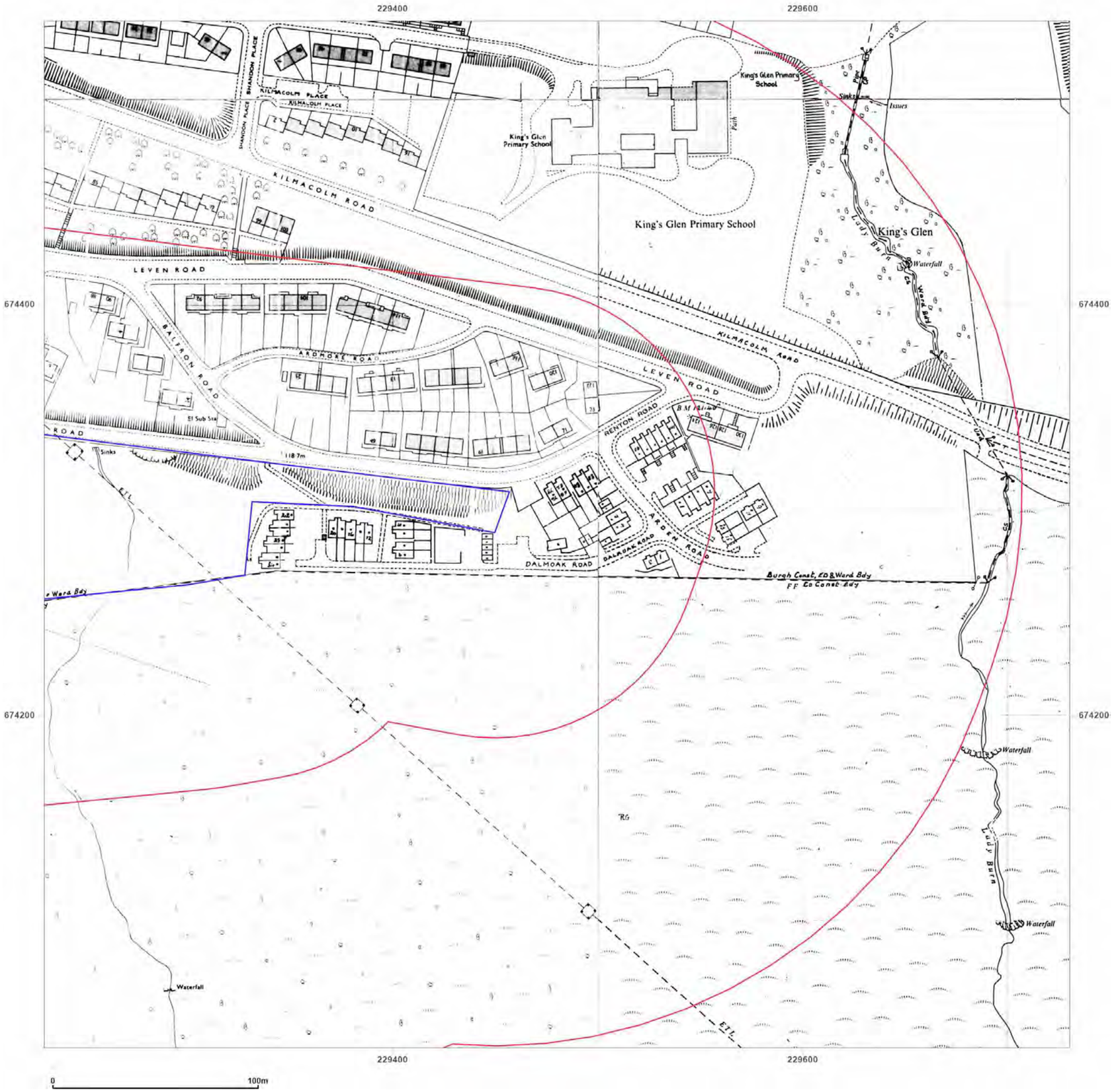
Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_2_1
Grid Ref: 229480, 674288

Map Name: National Grid

Map date: **1983-1987**

Scale: 1:1,250

Printed at: 1:2,000

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

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

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

Surveyed 1970
Revised 1983
Edition N/A
Copyright 1983
Levelled 1970

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Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_2_1
Grid Ref: 229480, 674288

Map Name: National Grid

Map date: **1987**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1969
Revised 1987
Edition N/A
Copyright 1987
Levelled 1969

Surveyed 1970
Revised 1987
Edition N/A
Copyright 1987
Levelled 1970

Surveyed 1969
Revised 1987
Edition N/A
Copyright 1987
Levelled 1969

Surveyed 1970
Revised 1987
Edition N/A
Copyright 1987
Levelled 1970

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Production date: 20 November 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_2_1
Grid Ref: 229480, 674288

Map Name: National Grid
Map date: **1990-1994**
Scale: 1:1,250
Printed at: 1:2,000

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Revised N/A
Edition N/A
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Edition N/A
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Revised 1990
Edition N/A
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Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_2_1
Grid Ref: 229480, 674288

Map Name: National Grid
Map date: **1990-1994**
Scale: 1:1,250
Printed at: 1:2,000

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Edition N/A
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Groundsure INSIGHTS

Site Details:

50, RENTON ROAD, GREENOCK,
PA15 3AF

Client Ref: AP2837
Report Ref: GS-7BQ-A8X-66A-15P_1250_2_1
Grid Ref: 229480, 674288

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

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Appendix G:

Groundsure Sitecheck Report

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

50, RENTON ROAD, GREENOCK, PA15 3AF

Order Details

Date: 20/11/2023

Your ref: AP2837

Our Ref: GS-6OB-4B2-MJF-623

Site Details

Location: 229187 674293

Area: 2.26 ha

Authority: Inverclyde Council ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	1	0	1	35	-
15	1.2	Historical tanks	0	0	0	0	-
15 >	1.3 >	Historical energy features >	0	1	0	2	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	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
17 >	2.1 >	Historical industrial land uses >	1	0	1	40	-
19	2.2	Historical tanks	0	0	0	0	-
19 >	2.3 >	Historical energy features >	0	4	0	2	-
20	2.4	Historical petrol stations	0	0	0	0	-
20	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
21	3.1	Active or recent landfill	0	0	0	0	-
21	3.2	Historical landfill (BGS records)	0	0	0	0	-
22 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	2	0	-
22	3.4	Licensed waste sites	0	0	0	0	-
22	3.5	Historical waste sites	0	0	0	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
23 >	4.1 >	Recent industrial land uses >	0	1	4	-	-
24	4.2	Current or recent petrol stations	0	0	0	0	-
24	4.3	Electricity cables	0	0	0	0	-
24	4.4	Gas pipelines	0	0	0	0	-
24	4.5	Sites determined as Contaminated Land	0	0	0	0	-
25	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
25	4.7	Regulated explosive sites	0	0	0	0	-

25	4.8	Hazardous substance storage/usage	0	0	0	0	-
25	4.9	Part A(1), IPPC and Historic IPC Authorisations	0	0	0	0	-
25	4.10	Part B Authorisations	0	0	0	0	-
26	4.11	Pollution inventory substances	0	0	0	0	-
26	4.12	Pollution inventory waste transfers	0	0	0	0	-
26	4.13	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
27	5.1	Superficial aquifer	None (within 500m)				
28 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
30 >	**6.1 >**	**Water Network (OS MasterMap) >**	7	1	15	-	-
32 >	**6.2 >**	**Surface water features >**	1	0	5	-	-
Page	Section	River flooding					
33	7.1	River flooding	Negligible (within 50m)				
Page	Section	Coastal flooding					
34	8.1	Coastal flooding	Negligible (within 50m)				
Page	Section	Surface water flooding					
35	9.1	Surface water flooding	Negligible (within 50m)				
Page	Section	**Groundwater flooding >**					
36 >	**10.1 >**	**Groundwater flooding >**	Low (within 50m)				
Page	Section	**Environmental designations >**	On site	0-50m	50-250m	250-500m	500-2000m
37 >	**11.1 >**	**Sites of Special Scientific Interest (SSSI) >**	0	0	0	0	1
38	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
38	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
38	11.4	Special Protection Areas (SPA)	0	0	0	0	0
38	11.5	National Nature Reserves (NNR)	0	0	0	0	0
39	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
39 >	**11.7 >**	**Designated Ancient Woodland >**	0	0	0	0	3
39	11.8	Biosphere Reserves	0	0	0	0	0

40	11.9	Forest Parks	0	0	0	0	0
40	11.10	Marine Conservation Zones	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
41	12.1	World Heritage Sites	0	0	0	-	-
41	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
41	12.3	National Parks	0	0	0	-	-
41	12.4	Listed Buildings	0	0	0	-	-
42	12.5	Conservation Areas	0	0	0	-	-
42	12.6	Scheduled Ancient Monuments	0	0	0	-	-
42	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
43 >	**13.1 >**	**Agricultural Land Classification >**	Grade 5.3 (within 250m)				
Page	Section	**Geology 1:10,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
44 >	**14.1 >**	**10k Availability >**	Identified (within 500m)				
45	14.2	Artificial and made ground (10k)	0	0	0	0	-
46	14.3	Superficial geology (10k)	0	0	0	0	-
46	14.4	Landslip (10k)	0	0	0	0	-
47	14.5	Bedrock geology (10k)	0	0	0	0	-
47	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
48 >	**15.1 >**	**50k Availability >**	Identified (within 500m)				
49 >	**15.2 >**	**Artificial and made ground (50k) >**	0	0	0	1	-
50	15.3	Artificial ground permeability (50k)	0	0	-	-	-
51 >	**15.4 >**	**Superficial geology (50k) >**	1	0	0	1	-
52 >	**15.5 >**	**Superficial permeability (50k) >**	Identified (within 50m)				
52	15.6	Landslip (50k)	0	0	0	0	-
52	15.7	Landslip permeability (50k)	None (within 50m)				
53 >	**15.8 >**	**Bedrock geology (50k) >**	1	1	17	23	-
55 >	**15.9 >**	**Bedrock permeability (50k) >**	Identified (within 50m)				

56 >	15.10 >	Bedrock faults and other linear features (50k) >	0	1	11	13	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
58 >	16.1 >	BGS Boreholes >	2	6	5	-	-
Page	Section	**Natural ground subsidence >**					
60 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
61 >	17.2 >	Running sands >	Very low (within 50m)				
63 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
64 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
65 >	17.5 >	Landslides >	Moderate (within 50m)				
67 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
69 >	18.1 >	BritPits >	0	0	0	3	-
70 >	18.2 >	Surface ground workings >	1	0	1	-	-
71 >	18.3 >	Underground workings >	0	0	0	0	37
72	18.4	Underground mining extents	0	0	0	0	-
72	18.5	Historical Mineral Planning Areas	0	0	0	0	-
73 >	18.6 >	Non-coal mining >	1	0	0	1	5
74	18.7	JPB mining areas	None (within 0m)				
74	18.8	The Coal Authority non-coal mining	0	0	0	0	-
74	18.9	Researched mining	0	0	0	0	-
74	18.10	Mining record office plans	0	0	0	0	-
75	18.11	BGS mine plans	0	0	0	0	-
75	18.12	Coal mining	None (within 0m)				
75	18.13	Brine areas	None (within 0m)				
75	18.14	Gypsum areas	None (within 0m)				
75	18.15	Tin mining	None (within 0m)				
76	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
77	19.1	Natural cavities	0	0	0	0	-

77	19.2	Mining cavities	0	0	0	0	0
77	19.3	Reported recent incidents	0	0	0	0	-
77	19.4	Historical incidents	0	0	0	0	-
78	19.5	National karst database	0	0	0	0	-

Page	Section	**Radon** >					
79 >	**20.1** >	**Radon** >	Less than 1% (within 0m)				
Page	Section	**Soil chemistry** >	On site	0-50m	50-250m	250-500m	500-2000m
81 >	**21.1** >	**BGS Estimated Background Soil Chemistry** >	2	5	-	-	-
81 >	**21.2** >	**BGS Estimated Urban Soil Chemistry** >	10	6	-	-	-
82 >	**21.3** >	**BGS Measured Urban Soil Chemistry** >	1	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
83	22.1	Underground railways (London)	0	0	0	-	-
83	22.2	Underground railways (Non-London)	0	0	0	-	-
83	22.3	Railway tunnels	0	0	0	-	-
83	22.4	Historical railway and tunnel features	0	0	0	-	-
83	22.5	Royal Mail tunnels	0	0	0	-	-
84	22.6	Historical railways	0	0	0	-	-
84	22.7	Railways	0	0	0	-	-
84	22.8	Crossrail 1	0	0	0	0	-
84	22.9	Crossrail 2	0	0	0	0	-
84	22.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 21/04/2021

Site Area: 2.26ha

Recent site history - 2018 aerial photograph

Capture Date: 25/05/2018

Site Area: 2.26ha

Recent site history - 2005 aerial photograph

Capture Date: 12/05/2005

Site Area: 2.26ha

Recent site history - 2004 aerial photograph

Capture Date: 08/09/2004

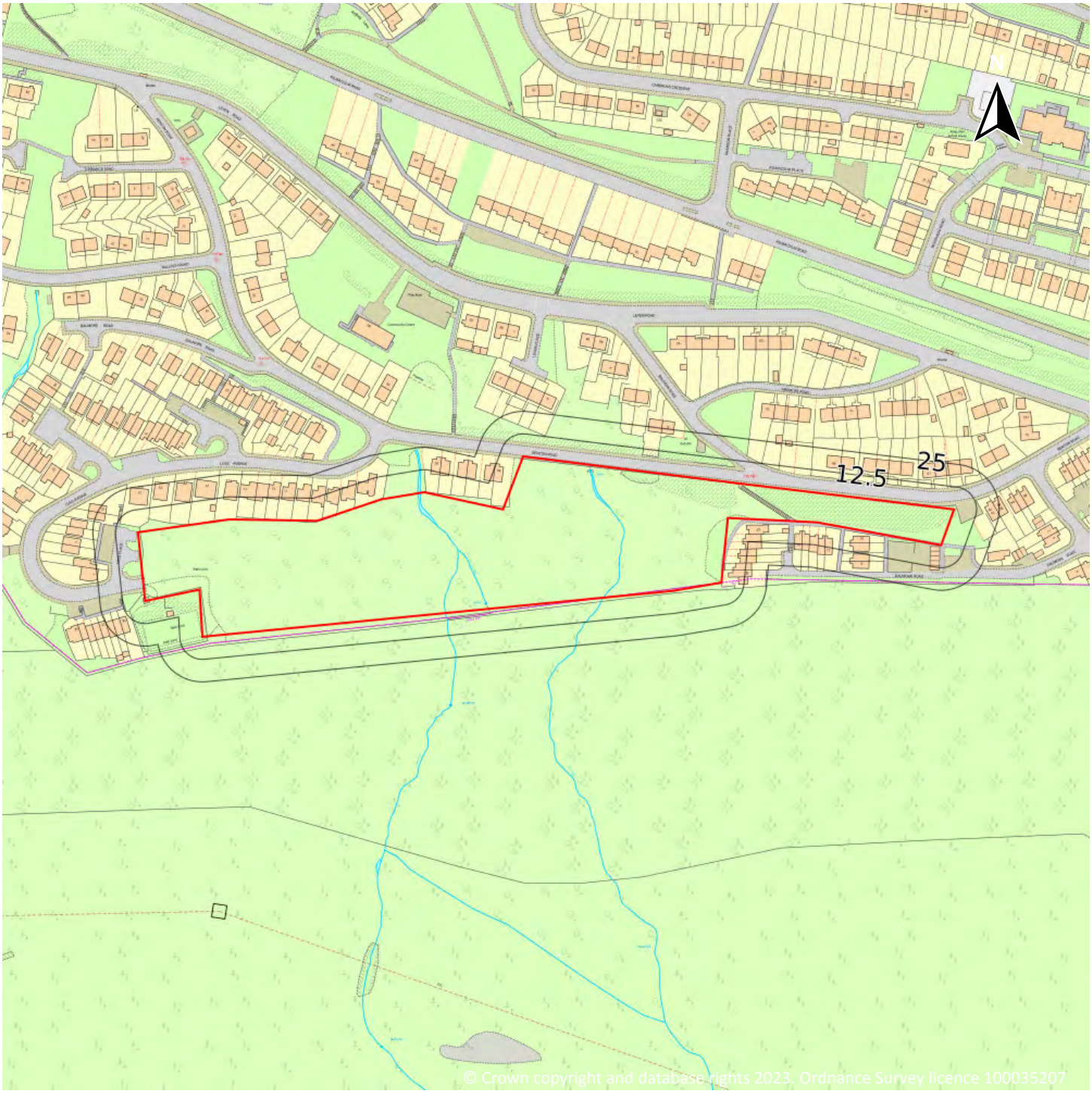
Site Area: 2.26ha

Recent site history - 2001 aerial photograph

Capture Date: 11/05/2001

Site Area: 2.26ha

OS MasterMap site plan



Site Area: 2.26ha

1 Past land use

Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical energy features

1.1 Historical industrial land uses

Records within 500m	37

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 13 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Unspecified Heap**	**1978**	**80190**

ID	Location	Land use	Dates present	Group ID
3	215m NE	Unspecified Ground Workings	1978	86023
4	252m NE	Refuse Heap	1978	105497
A	271m SW	Unspecified Tank	1938	131516
A	272m SW	Unspecified Tank	1915	158021
A	273m SW	Unspecified Tank	1954	182486
A	276m SW	Unspecified Tank	1923	102356
5	313m NW	Unspecified Pit	1978	114172
6	318m N	Unspecified Ground Workings	1978	86020
B	333m E	Unspecified Disused Quarries	1978	165675
B	333m E	Unspecified Disused Quarries	1923	174594
7	336m N	Unspecified Heap	1978	80189
B	338m E	Unspecified Disused Quarries	1896 - 1915	126799
B	338m E	Unspecified Disused Quarries	1954	144380
8	339m E	Unspecified Quarries	1857	112942
B	342m E	Unspecified Disused Quarries	1938	187074
9	348m SW	Butts	1978	107555
C	368m NE	Cuttings	1915 - 1923	146160
D	372m NW	Gravel Pit	1857	88945
D	375m NW	Old Gravel Pit	1896	116112
D	375m NW	Unspecified Pit	1923	162459
D	378m NW	Unspecified Pit	1915	152600
C	378m NE	Cuttings	1954	118851
C	378m NE	Cuttings	1938	176367
C	381m NE	Cuttings	1896	150126
C	383m NE	Cuttings	1978	185351
E	425m NE	Smithy	1857	116831
E	427m NE	Cuttings	1923 - 1938	138114
E	434m NE	Cuttings	1915	171688

ID	Location	Land use	Dates present	Group ID
E	436m NE	Cuttings	1954	126903
G	442m NE	Cuttings	1978	167536
E	444m NE	Cuttings	1896	163344
10	469m NW	Police Station	1978	108914
G	482m NE	Cuttings	1915 - 1923	156395
G	488m NE	Cuttings	1954	159919
H	491m NE	Cuttings	1896	169722
H	491m NE	Cuttings	1938	182363

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	0

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'.

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	3

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 13 >**

ID	Location	Land use	Dates present	Group ID
2	14m NE	Electricity Substation	1975 - 1990	10869
F	440m NW	Electricity Transformer	1975	6950
F	440m NW	Electricity Substation	1998	5052

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	0

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'.

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

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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical energy features

2.1 Historical industrial land uses

Records within 500m	42

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 17 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Unspecified Heap**	**1978**	**80190**
2	215m NE	Unspecified Ground Workings	1978	86023
3	252m NE	Refuse Heap	1978	105497

ID	Location	Land Use	Date	Group ID
B	271m SW	Unspecified Tank	1938	131516
B	272m SW	Unspecified Tank	1915	158021
B	273m SW	Unspecified Tank	1954	182486
B	276m SW	Unspecified Tank	1923	102356
4	313m NW	Unspecified Pit	1978	114172
5	318m N	Unspecified Ground Workings	1978	86020
C	333m E	Unspecified Disused Quarries	1978	165675
C	333m E	Unspecified Disused Quarries	1923	174594
6	336m N	Unspecified Heap	1978	80189
C	338m E	Unspecified Disused Quarries	1915	126799
C	338m E	Unspecified Disused Quarries	1954	144380
7	339m E	Unspecified Quarries	1857	112942
C	342m E	Unspecified Disused Quarries	1938	187074
C	342m E	Unspecified Disused Quarries	1896	126799
8	348m SW	Butts	1978	107555
D	368m NE	Cuttings	1923	146160
E	372m NW	Gravel Pit	1857	88945
E	375m NW	Old Gravel Pit	1896	116112
E	375m NW	Unspecified Pit	1923	162459
D	377m NE	Cuttings	1915	146160
E	378m NW	Unspecified Pit	1915	152600
E	378m NW	Unspecified Pit	1915	152600
D	378m NE	Cuttings	1954	118851
D	378m NE	Cuttings	1938	176367
D	381m NE	Cuttings	1896	150126
D	383m NE	Cuttings	1978	185351
F	425m NE	Smithy	1857	116831
F	427m NE	Cuttings	1923	138114

ID	Location	Land Use	Date	Group ID
F	434m NE	Cuttings	1915	171688
F	436m NE	Cuttings	1954	126903
H	442m NE	Cuttings	1978	167536
F	444m NE	Cuttings	1938	138114
F	444m NE	Cuttings	1896	163344
9	469m NW	Police Station	1978	108914
H	482m NE	Cuttings	1923	156395
H	488m NE	Cuttings	1954	159919
H	488m NE	Cuttings	1915	156395
I	491m NE	Cuttings	1938	182363
I	491m NE	Cuttings	1896	169722

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**0**

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'.

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**6**

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 17 >**

ID	Location	Land Use	Date	Group ID
A	14m NE	Electricity Substation	1987	10869
A	14m NE	Electricity Substation	1990	10869

ID	Location	Land Use	Date	Group ID
A	14m NE	Electricity Substation	1990	10869
A	15m NE	Electricity Substation	1975	10869
G	440m NW	Electricity Transformer	1975	6950
G	440m NW	Electricity Substation	1998	5052

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	**0**

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'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill

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Site Outline

Search buffers in metres (m)

Historical landfill (LA/OS)

3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Scottish Environment Protection (SEPA) regulation.

This data is sourced from the Scottish Environment Protection Agency.

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	2

Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 21 >**

ID	Location	Site address	Source	Data type
A	245m NE	Refuse Tip	1965 mapping	Polygon
A	246m NE	Refuse Tip	1965 mapping	Polygon

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

3.4 Licensed waste sites

Records within 500m	0

Active or recently closed waste sites under Scottish Environment Protection Acency (SEPA) regulation.

This data is sourced from the Scottish Environment Protection Agency.

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.

4 Current industrial land use

Site Outline

Search buffers in metres (m)

Recent industrial land uses

4.1 Recent industrial land uses

Records within 250m	5

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 23 >**

ID	Location	Company	Address	Activity	Category
1	18m NE	Electricity Sub Station	Renfrewshire, PA15	Electrical Features	Infrastructure and Facilities
2	153m SW	Pylon	Renfrewshire, PA15	Electrical Features	Infrastructure and Facilities
3	200m N	Electricity Sub Station	Renfrewshire, PA15	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	222m NW	Electricity Sub Station	Renfrewshire, PA15	Electrical Features	Infrastructure and Facilities
5	231m NW	David's Washing & Dishwasher Repairs	11, Endrick Road, Greenock, Renfrewshire, PA15 3EL	Electrical Equipment Repair and Servicing	Repair and Servicing

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 Part A(1), IPPC and Historic IPC Authorisations

Records within 500m	0

Records of Part A installations regulated for the release of substances to the environment.

This data is sourced from the Scottish Environment Protection Agency.

4.10 Part B Authorisations

Records within 500m	0

Records of Part B installations regulated for the release of substances to the environment.

This data is sourced from the Scottish Environment Protection Agency.

4.11 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.

4.12 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.

4.13 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer

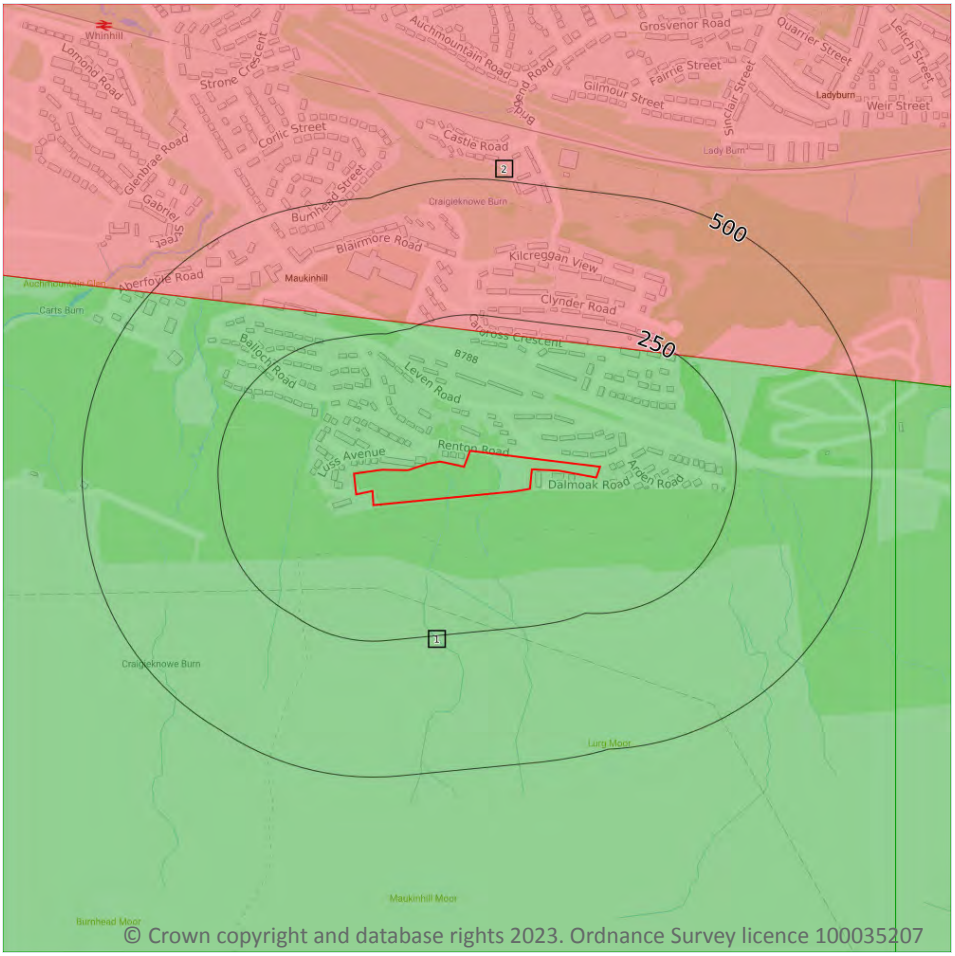
5.1 Superficial aquifer

Records within 500m	0

Records of groundwater classification within superficial geology.

This data is sourced from the British Geological Survey.

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m **2**

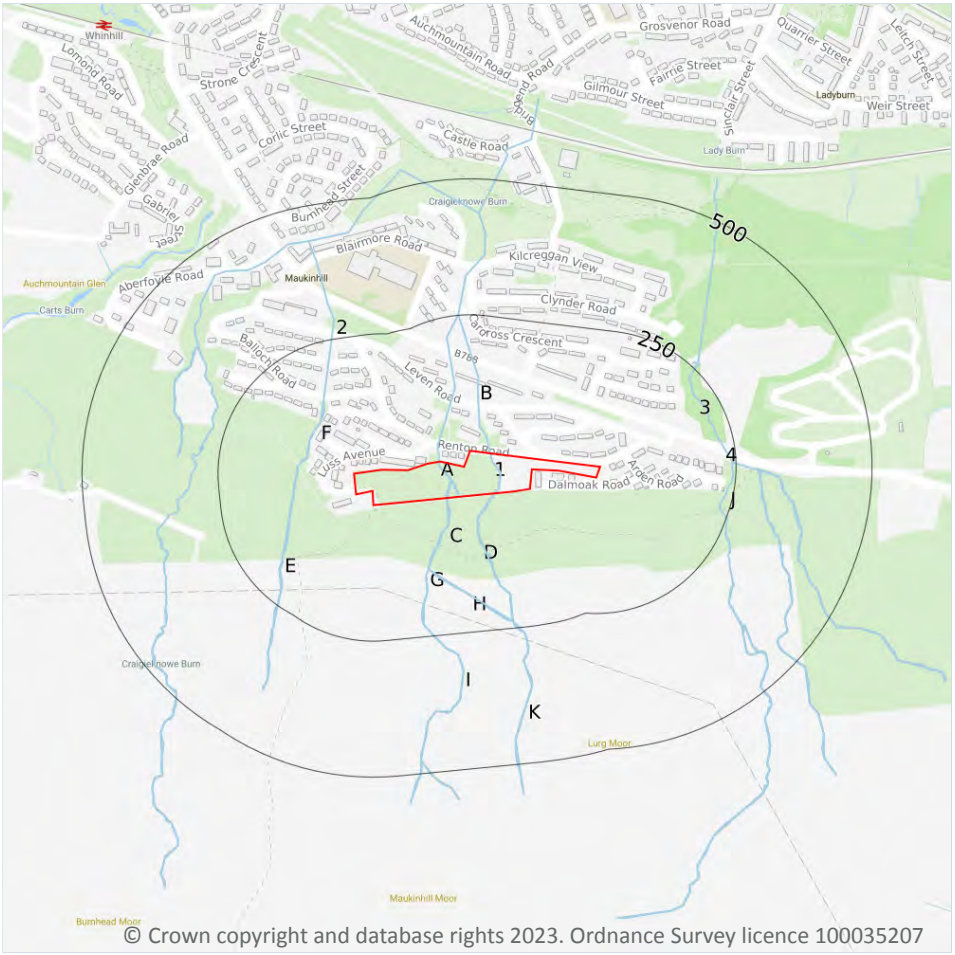
Records of groundwater classification within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 28 >**

ID	Location	Description	Flow	Summary	Rock description
1	**On site**	**Low productivity aquifer**	**Flow is virtually all through fractures and other discontinuities**	**Small amounts of groundwater in near surface weathered zone and secondary fractures. Up to 2 L/s from rare springs.**	**UNNAMED EXTRUSIVE ROCKS, DINANTIAN**
2	220m N	Moderately productive aquifer	Flow is virtually all through fractures and other discontinuities	Multi-layered aquifer with fracture flow yielding up to 10 L/s.	INVERCLYDE GROUP

This data is sourced from the British Geological Survey.

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)

6.1 Water Network (OS MasterMap)

Records within 250m	23

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

Features are displayed on the Hydrology map on **page 30 >**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
C	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	24m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	91m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	109m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	113m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	127m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	127m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	132m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
I	140m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
2	145m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
3	216m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lady Burn
4	219m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Lady Burn
J	231m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lady Burn
J	235m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lady Burn
K	237m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	242m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lady Burn
J	243m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**6**

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

Features are displayed on the Hydrology map on **page 30 >**

This data is sourced from the Ordnance Survey.

7 River flooding

7.1 River flooding

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

This is an assessment of flood risk for rivers in Scotland produced using modelled data, provided by Ambiental Risk Analytics. It also takes account of flood defence information provided by the Scottish Environment Protection Agency (SEPA). It shows the chance of flooding from rivers presented in the following categories:

- 1 in 30 year (3.33%)
- 1 in 100 year (1%)
- 1 in 250 year (0.4%)
- and 1 in 1,000 year (0.1%)

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.

8 Coastal flooding - Coastal flooding

8.1 Coastal flooding

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

This is an assessment of coastal flood risk in Scotland produced using modelled data, provided by Ambiental Risk Analytics. It also takes account of flood defence information provided by the Scottish Environment Protection Agency (SEPA). It shows the chance of coastal flooding presented in the following categories:

- 1 in 30 year (3.33%)
- 1 in 100 year (1%)
- 1 in 250 year (0.4%)
- and 1 in 1,000 year (0.1%)

The data shown on the map 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 Surface water flooding

9.1 Surface water flooding

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

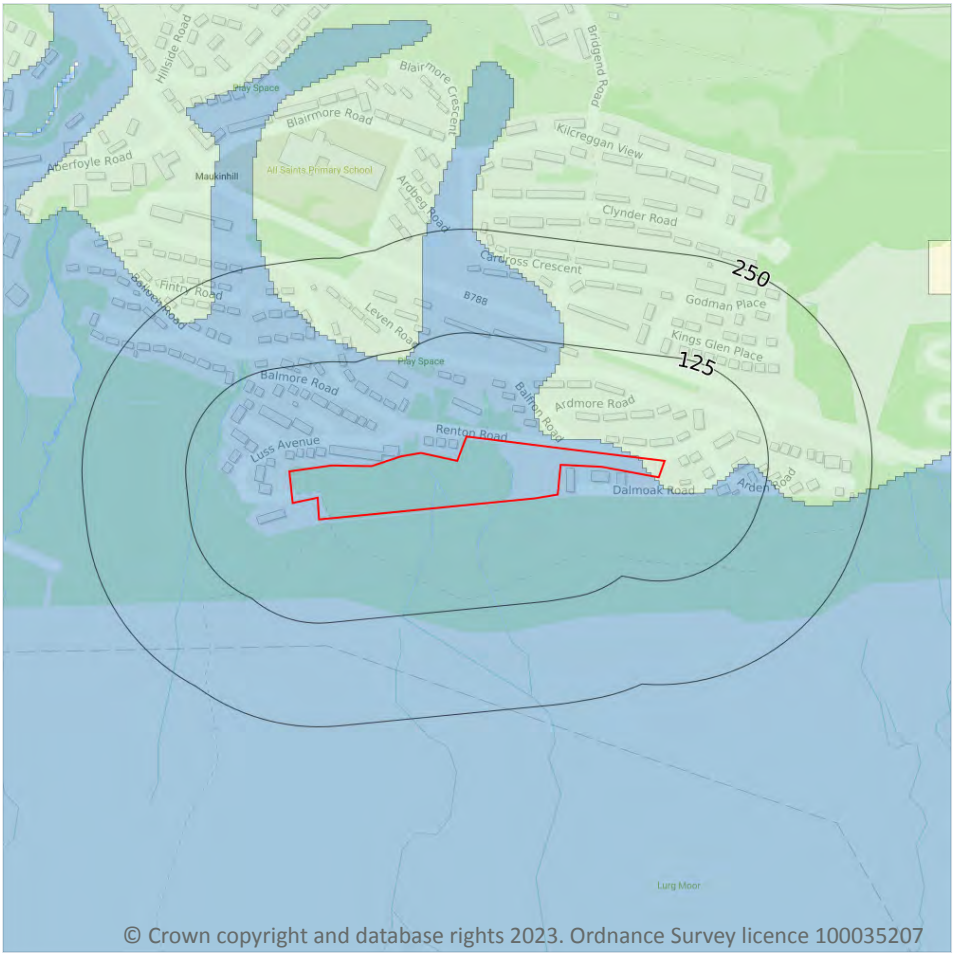
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year 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.

10 Groundwater flooding



10.1 Groundwater flooding

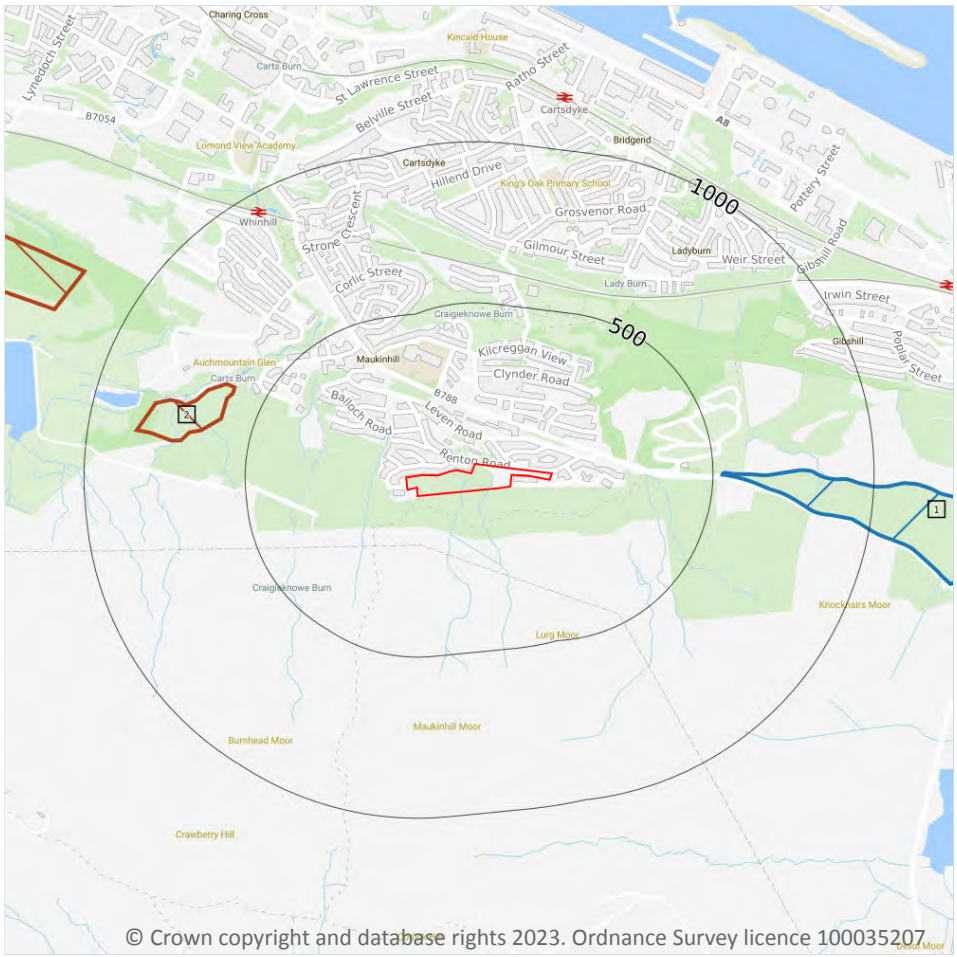
Highest risk on site	**Low**
Highest risk within 50m	**Low**

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

Features are displayed on the Groundwater flooding map on **page 36 >**

This data is sourced from Ambiental Risk Analytics.

11 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Designated Ancient Woodland

11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

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.

Features are displayed on the Environmental designations map on **page 37 >**

ID	Location	Name	Data source
1	530m E	Knocknairs Hill	Scottish Natural Heritage

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

11.2 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.

11.3 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.

11.4 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.

11.5 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.

11.6 Local Nature Reserves (LNR)

Records within 2000m	0

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.

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

11.7 Designated Ancient Woodland

Records within 2000m	3

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 37 >**

ID	Location	Name	Woodland Type
2	598m W	Auchmountain Glen	Ancient (of semi-natural origin)
3	1186m NW	Unknown	Other (on Roy map)
-	1425m E	Devol Glen	Ancient (of semi-natural origin)

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

11.8 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.

11.9 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.

11.10 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.

12 Visual and cultural designations

12.1 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.

12.2 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.

12.3 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.

12.4 Listed Buildings

Records within 250m	0

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

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

12.5 Conservation Areas

Records within 250m	0

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

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

12.6 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.

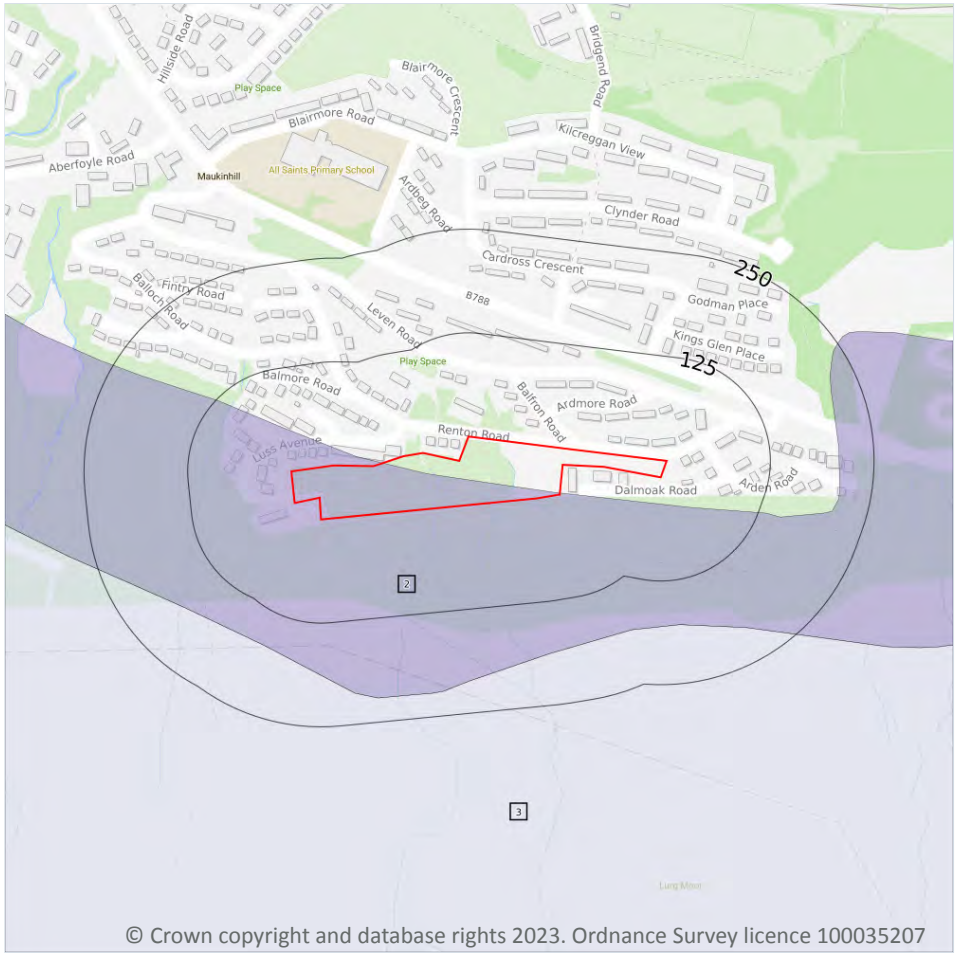
12.7 Registered Parks and Gardens

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.

13 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 4 - good quality
- Grade 5 - moderate quality
- Grade 6 - poor quality
- Grade 7 - very poor quality

13.1 Agricultural Land Classification

Records within 250m	2

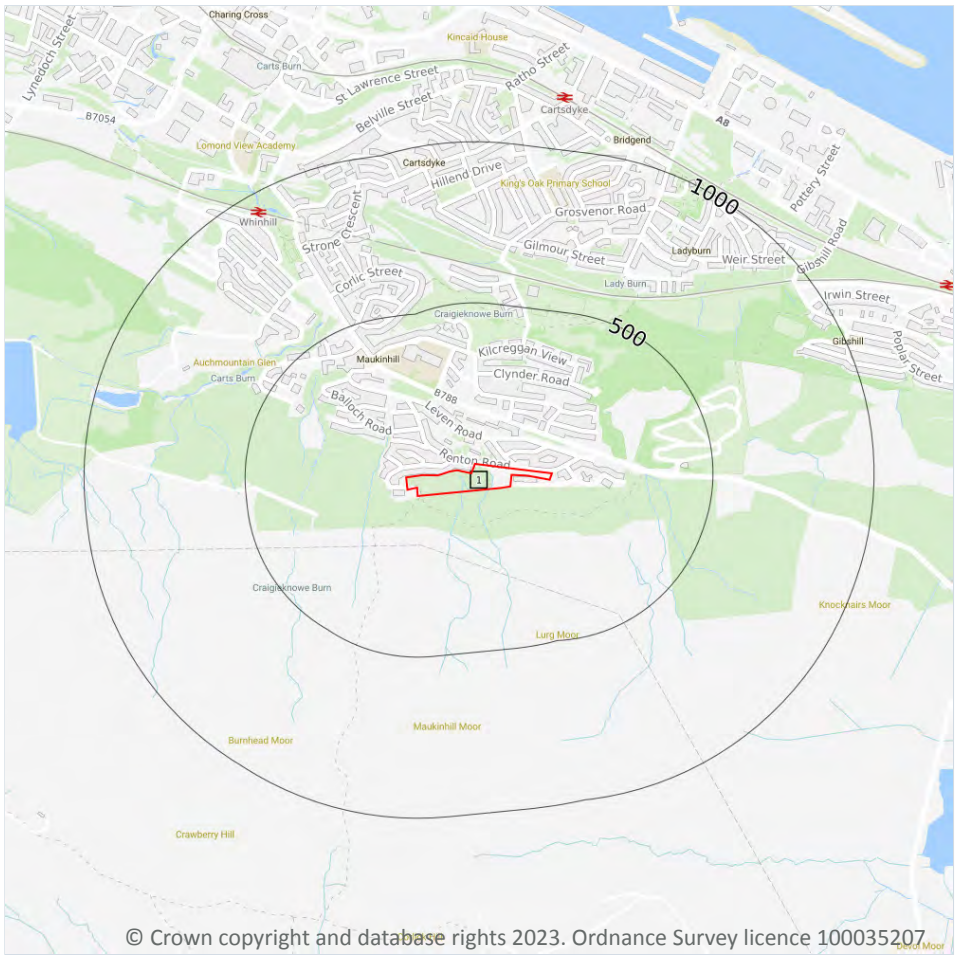
Classification of the quality of agricultural land taking into consideration multiple factors inclusing climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 43 >**

ID	Location	Classification	Description
2	**On site**	**Grade 6.1**	**Land Suited only to Improved Grassland and Rough Grazings**
3	167m SW	Grade 5.3	Land Suited only to Improved Grassland and Rough Grazings

This data is sourced from the James Hutton Institute.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 44 >**

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

This data is sourced from the British Geological Survey.

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

14.2 Artificial and made ground (10k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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.

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

14.5 Bedrock geology (10k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

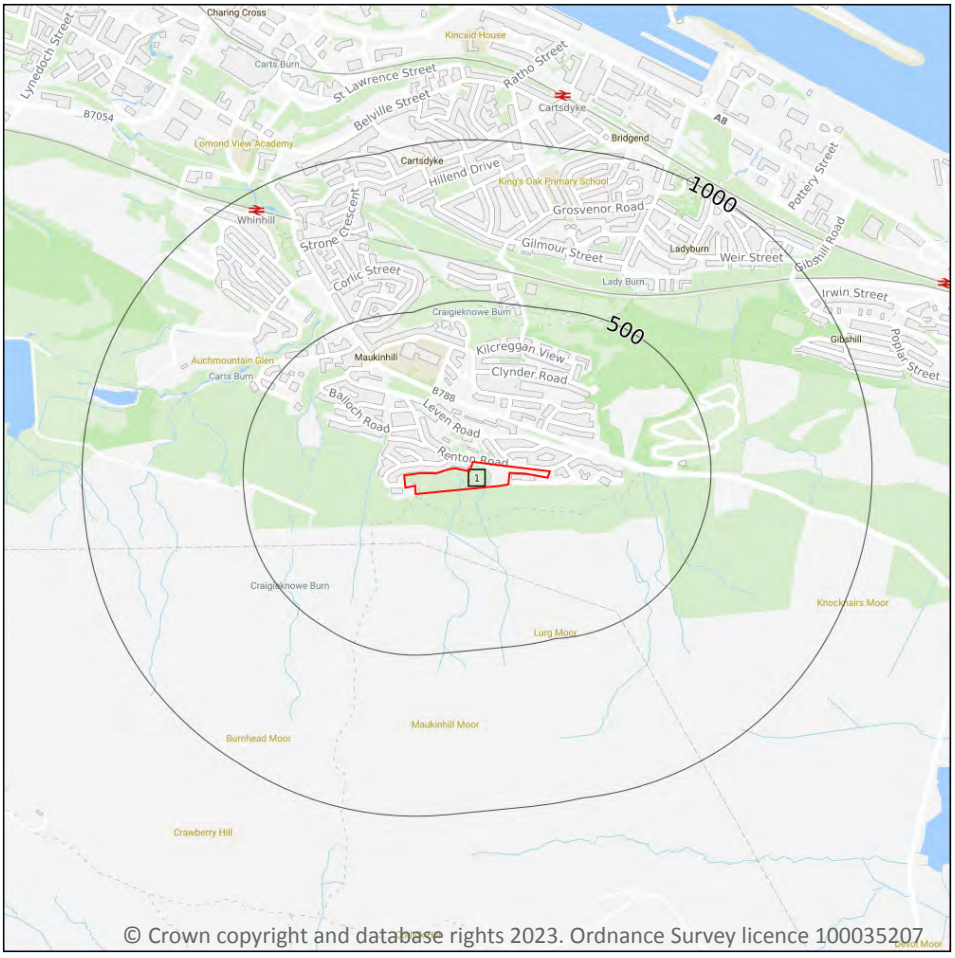
14.6 Bedrock faults and other linear features (10k)

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

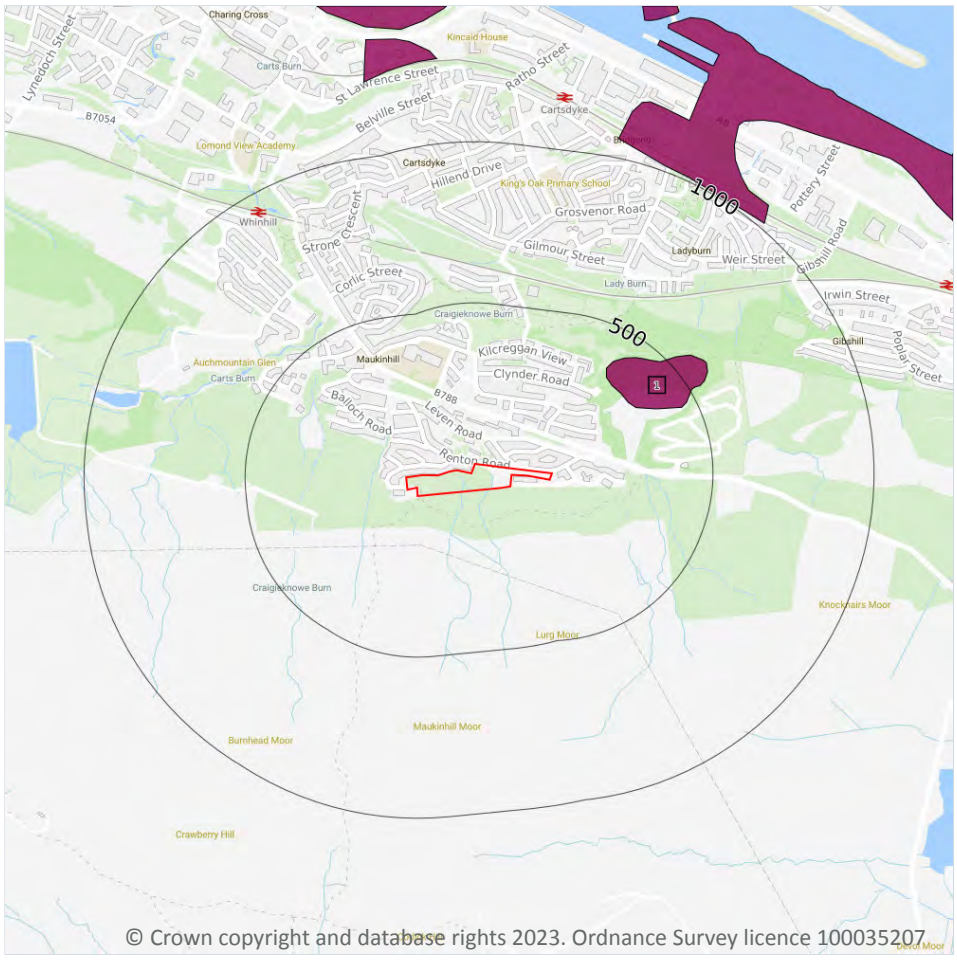
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 48 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**SC030w_Greenock_v4**

This data is sourced from the British Geological Survey.

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



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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	1

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 49 >**

ID	Location	LEX Code	Description	Rock description
1	324m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

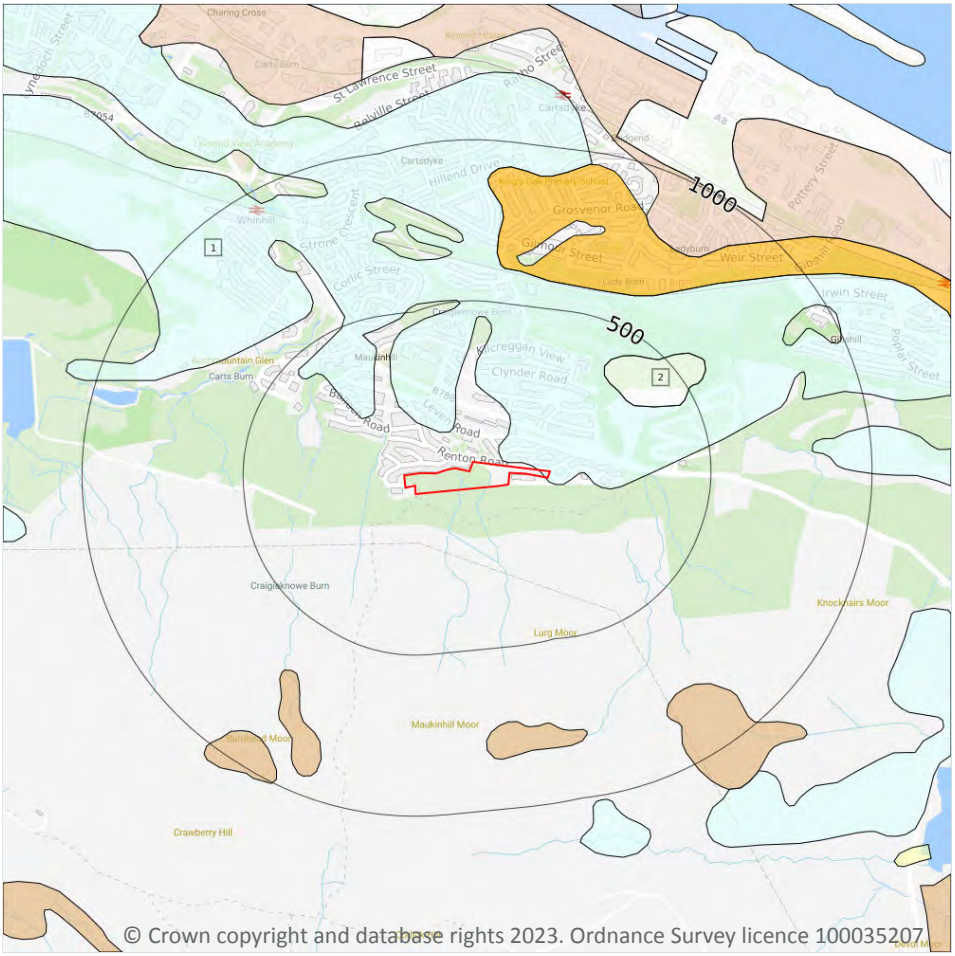
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m **2**

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 51 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
2	324m NE	SUPNM-UKNOWN	SUPERFICIAL THEME NOT MAPPED [FOR DIGITAL MAP USE ONLY]	UNKNOWN/UNCLASSIFIED ENTRY

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	**Mixed**	**High**	**Low**

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

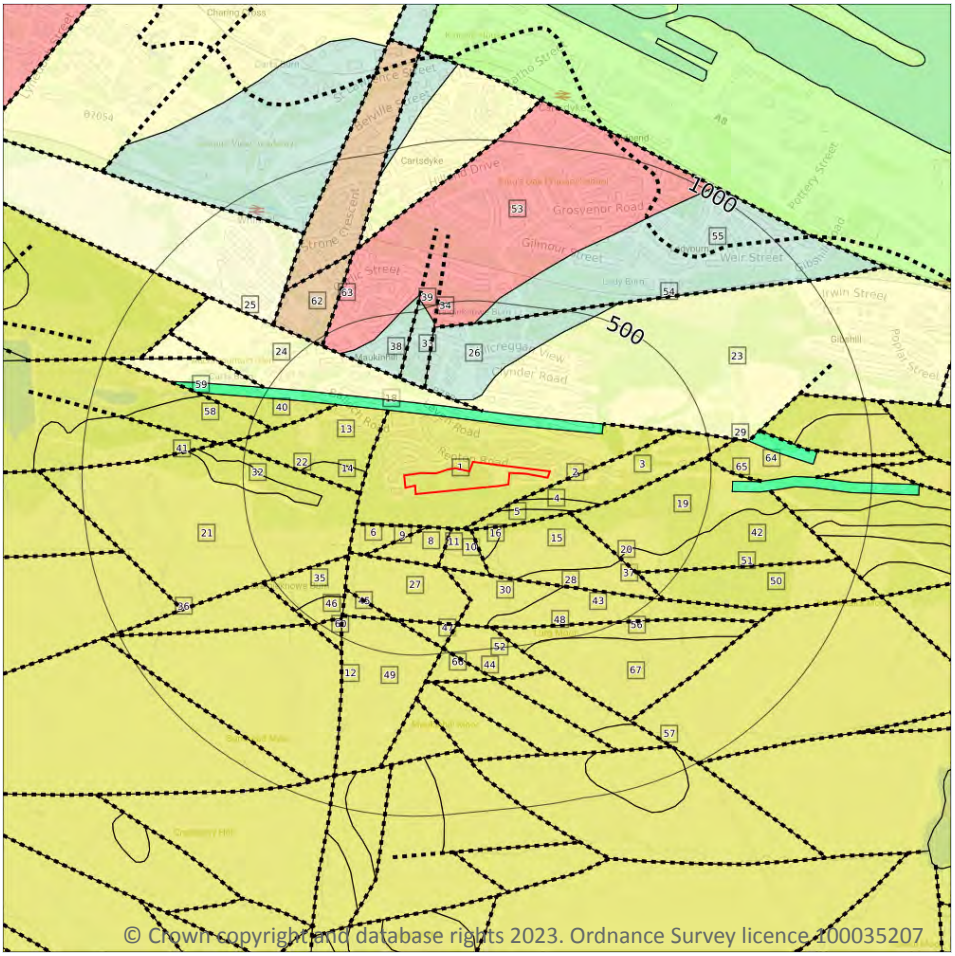
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	42

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 53 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**SGLA-MUG**	**STRATHGRYFE LAVA MEMBER - MUGEARITE**	**VISEAN**
3	29m E	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
4	57m SE	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN

ID	Location	LEX Code	Description	Rock age
5	77m SE	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
6	100m SW	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
8	106m SW	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
10	117m S	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
13	117m W	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
14	119m W	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
15	122m SE	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
16	126m SE	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
18	128m NE	CSTD-MCQGB	CENTRAL SCOTLAND LATE CARBONIFEROUS THOLEIITIC DYKE SWARM - QUARTZ-MICROGABBRO	-
19	129m E	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
21	141m W	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
23	160m NE	CYD-SDST	CLYDE SANDSTONE FORMATION - SANDSTONE	VISEAN
24	160m N	CYD-SDST	CLYDE SANDSTONE FORMATION - SANDSTONE	VISEAN
26	193m N	BGN-ADOS	BALLAGAN FORMATION - ARGILLACEOUS ROCK, DOLOSTONE AND SANDSTONE	TOURNAISIAN
27	212m SW	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
30	237m S	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
32	261m W	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
33	261m NW	BGN-ADOS	BALLAGAN FORMATION - ARGILLACEOUS ROCK, DOLOSTONE AND SANDSTONE	TOURNAISIAN
35	275m SW	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
37	284m SE	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
38	301m NW	BGN-ADOS	BALLAGAN FORMATION - ARGILLACEOUS ROCK, DOLOSTONE AND SANDSTONE	TOURNAISIAN
40	304m NW	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN

ID	Location	LEX Code	Description	Rock age
42	335m SE	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
43	341m SE	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
45	366m SW	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
46	388m SW	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
47	394m SW	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
49	395m SW	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
50	402m SE	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
52	416m S	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
53	419m NW	KNW-SDST	KINNESSWOOD FORMATION - SANDSTONE	FRASNIAN
55	430m N	BGN-ADOS	BALLAGAN FORMATION - ARGILLACEOUS ROCK, DOLOSTONE AND SANDSTONE	TOURNAISIAN
56	433m S	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
58	434m W	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
60	449m SW	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
62	476m NW	KBS-SDST	KELLY BURN SANDSTONE FORMATION - SANDSTONE	-
64	485m E	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN
66	485m S	SGLA-MUG	STRATHGRYFE LAVA MEMBER - MUGEARITE	VISEAN
67	496m SE	SGLA-BAMAP	STRATHGRYFE LAVA MEMBER - BASALT, MACROPHYRIC	VISEAN

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	**Fracture**	**Moderate**	**Low**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	**25**

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.

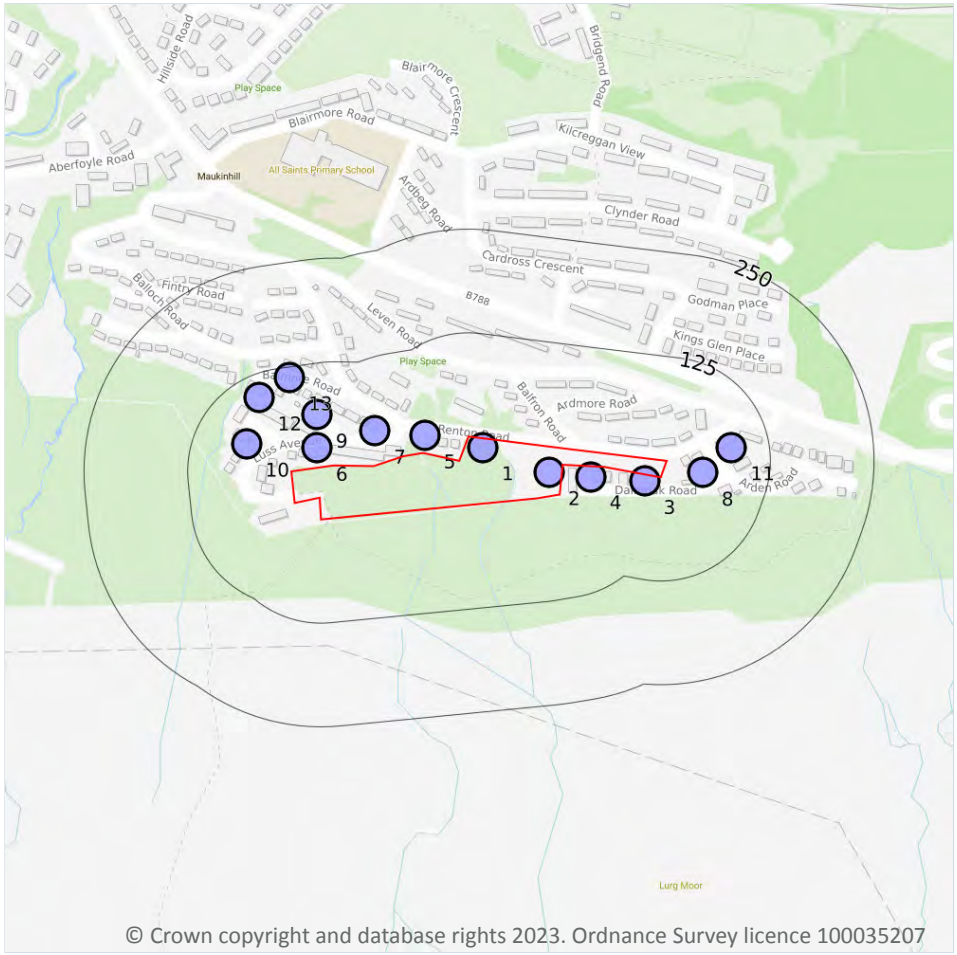
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 53 >**

ID	Location	Category	Description
2	28m E	FAULT	Fault, inferred, displacement unknown
7	100m SW	FAULT	Fault, inferred, displacement unknown
9	106m SW	FAULT	Fault, inferred, displacement unknown
11	117m S	FAULT	Fault, inferred, displacement unknown
12	117m W	FAULT	Fault, inferred, displacement unknown
17	127m S	FAULT	Fault, inferred, displacement unknown
20	129m E	FAULT	Fault, inferred, displacement unknown
22	143m W	FAULT	Fault, inferred, displacement unknown
25	160m N	FAULT	Fault, inferred, displacement unknown
28	212m SW	FAULT	Fault, inferred, displacement unknown
29	221m E	FAULT	Fault, inferred, displacement unknown
31	237m S	FAULT	Fault, inferred, displacement unknown
34	261m NW	FAULT	Fault, inferred, displacement unknown
36	277m SW	FAULT	Fault, inferred, displacement unknown
39	301m NW	FAULT	Fault, inferred, displacement unknown
41	304m NW	FAULT	Fault, inferred, displacement unknown
44	366m SW	FAULT	Fault, inferred, displacement unknown
48	394m SW	FAULT	Fault, inferred, displacement unknown
51	402m SE	FAULT	Fault, inferred, displacement unknown

ID	Location	Category	Description
54	427m N	FAULT	Fault, inferred, displacement unknown
57	433m S	FAULT	Fault, inferred, displacement unknown
59	434m W	FAULT	Fault, inferred, displacement unknown
61	449m SW	FAULT	Fault, inferred, displacement unknown
63	478m NW	FAULT	Fault, inferred, displacement unknown
65	485m E	FAULT	Fault, inferred, displacement unknown

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	13

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.

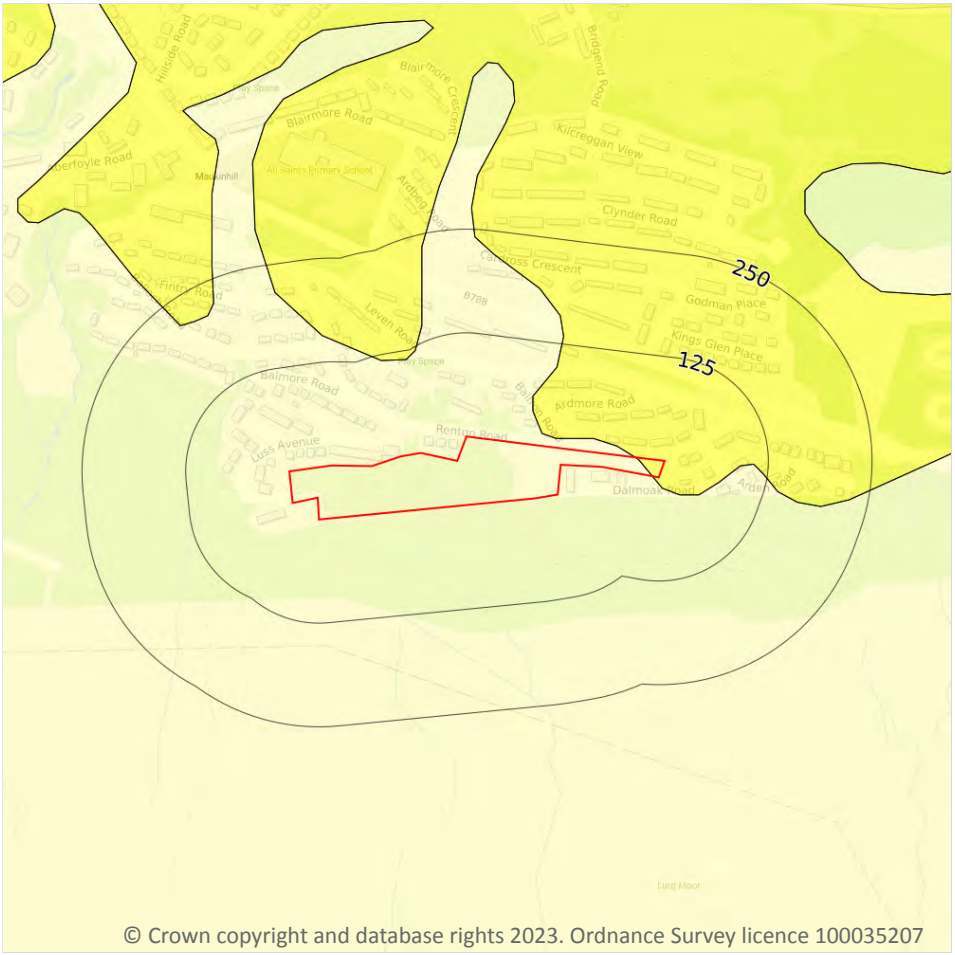
Features are displayed on the Boreholes map on **page 58 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	**On site**	**229235 674325**	**GREENOCK RENTON ROAD**	**0.0**	**N**	**653942** ↗
2	**On site**	**229315 674295**	**GREENOCK RENTON ROAD**	**1.0**	**N**	**653941** ↗
3	8m E	229430 674285	GREENOCK RENTON ROAD	0.0	N	653939 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	13m E	229365 674290	GREENOCK RENTON ROAD	0.0	N	653940 ↗
5	22m NW	229165 674340	GREENOCK RENTON ROAD	1.0	N	653943 ↗
6	24m W	229035 674325	GREENOCK RENTON ROAD	2.0	N	653949 ↗
7	40m NW	229105 674345	GREENOCK RENTON ROAD	2.0	N	653944 ↗
8	45m E	229500 674295	GREENOCK RENTON ROAD	2.0	N	653938 ↗
9	64m NW	229035 674365	GREENOCK RENTON ROAD	0.0	N	653945 ↗
10	64m W	228950 674330	GREENOCK RENTON ROAD	1.0	N	653948 ↗
11	80m E	229535 674325	GREENOCK RENTON ROAD	2.0	N	653937 ↗
12	97m NW	228965 674385	GREENOCK RENTON ROAD	1.0	N	653947 ↗
13	113m NW	229002 674410	GREENOCK RENTON ROAD	0.0	N	653946 ↗

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

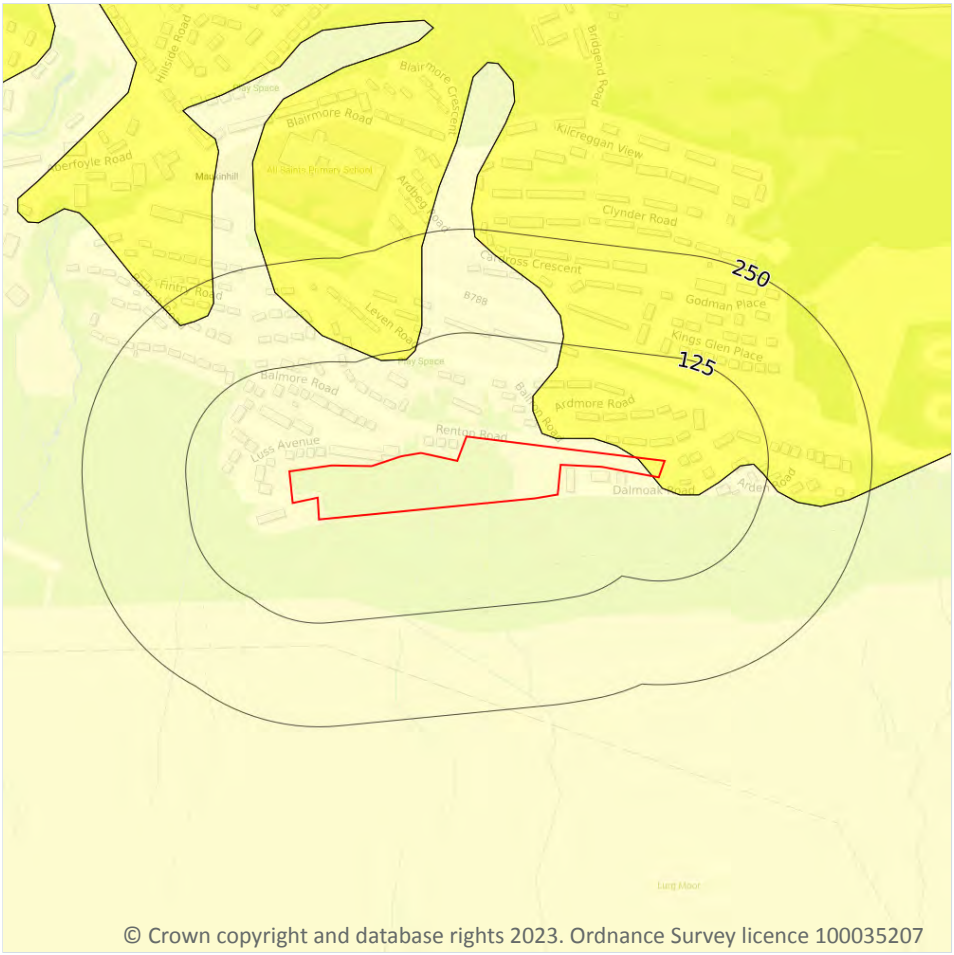
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 60 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Very low**	**Ground conditions predominantly low 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	2

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.

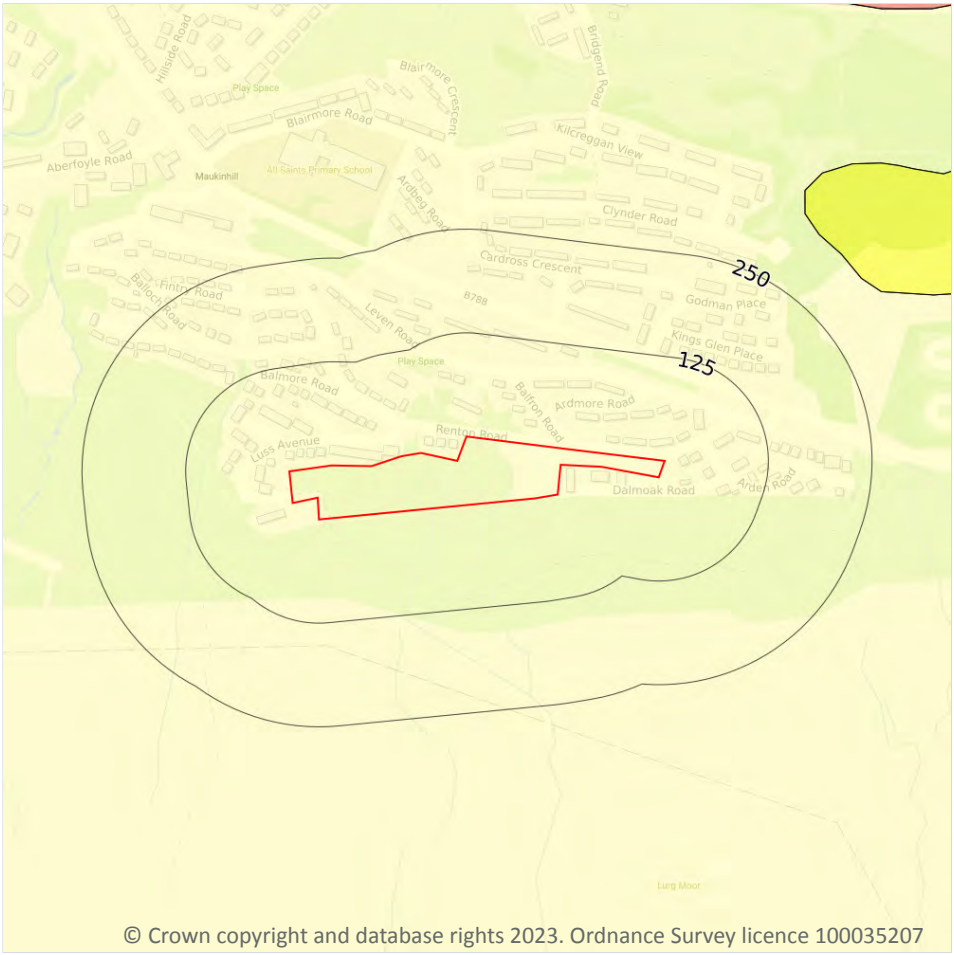
Features are displayed on the Natural ground subsidence - Running sands map on **page 61 >**

Location	Hazard rating	Details
On site	**Negligible**	**Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.**

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



17.3 Compressible deposits

Records within 50m	1

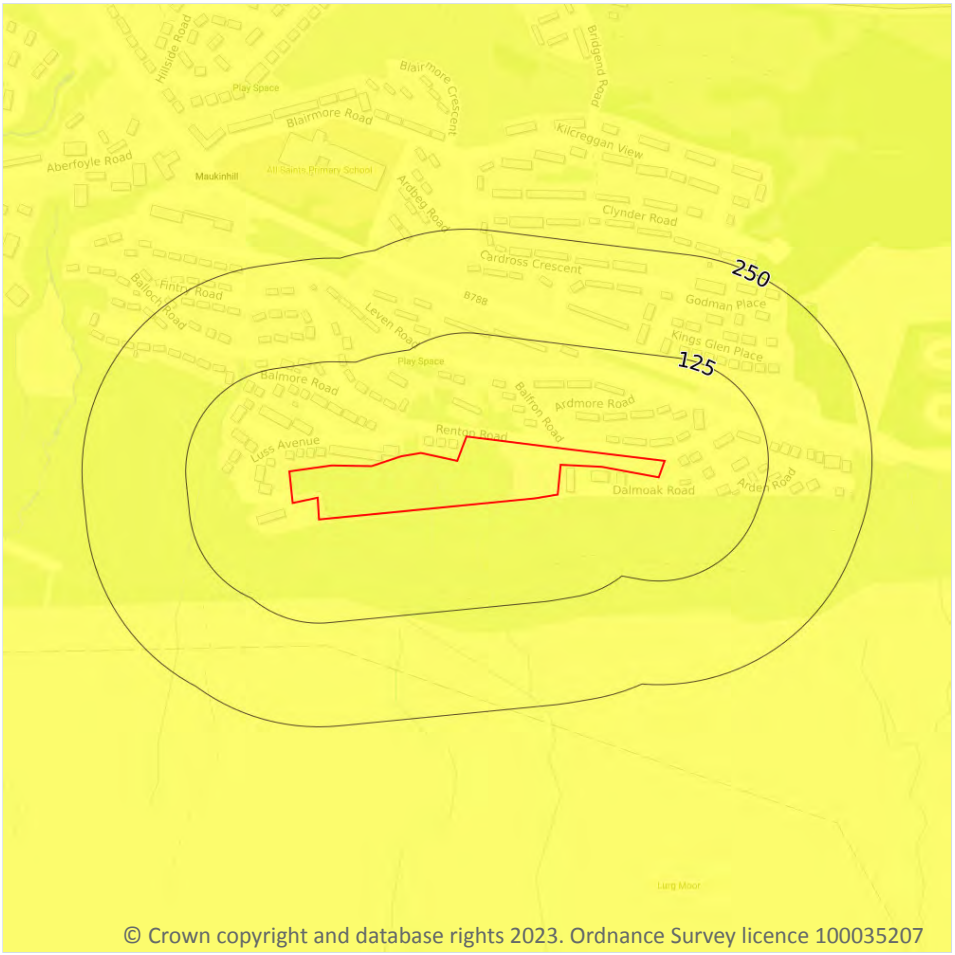
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 63 >**

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

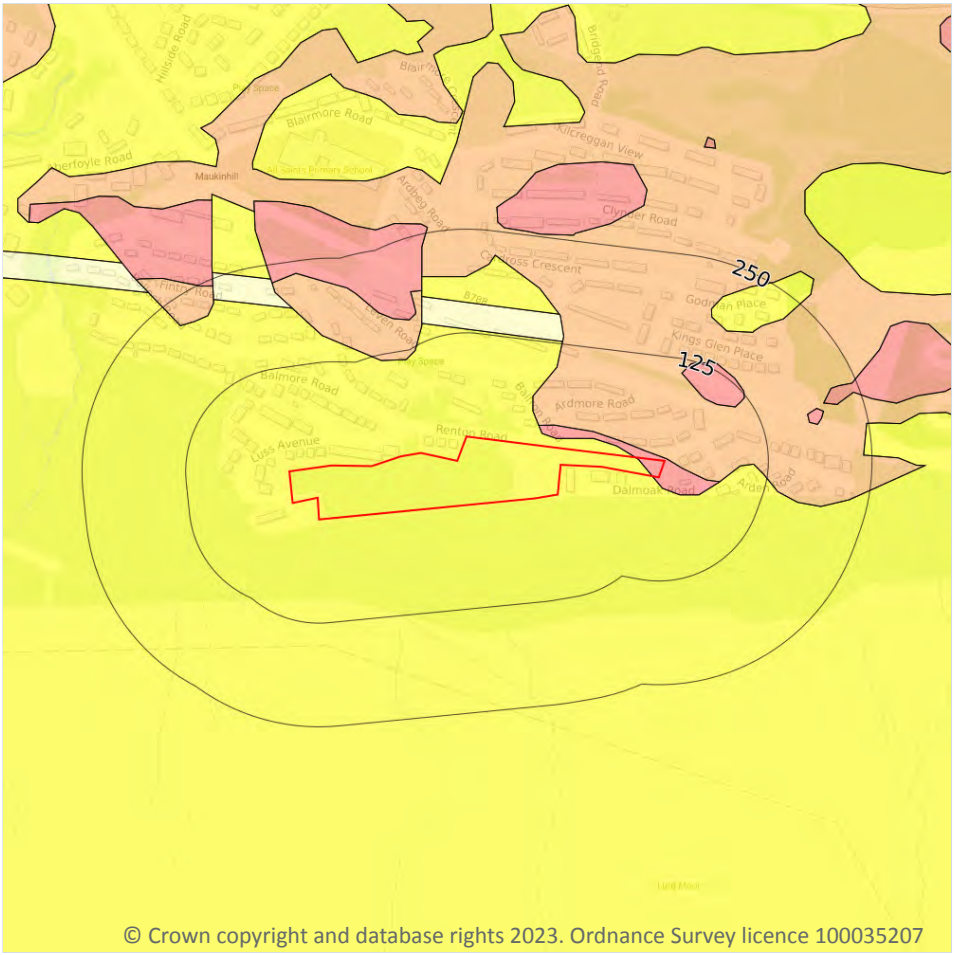
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 64 >**

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



17.5 Landslides

Records within 50m	3

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.

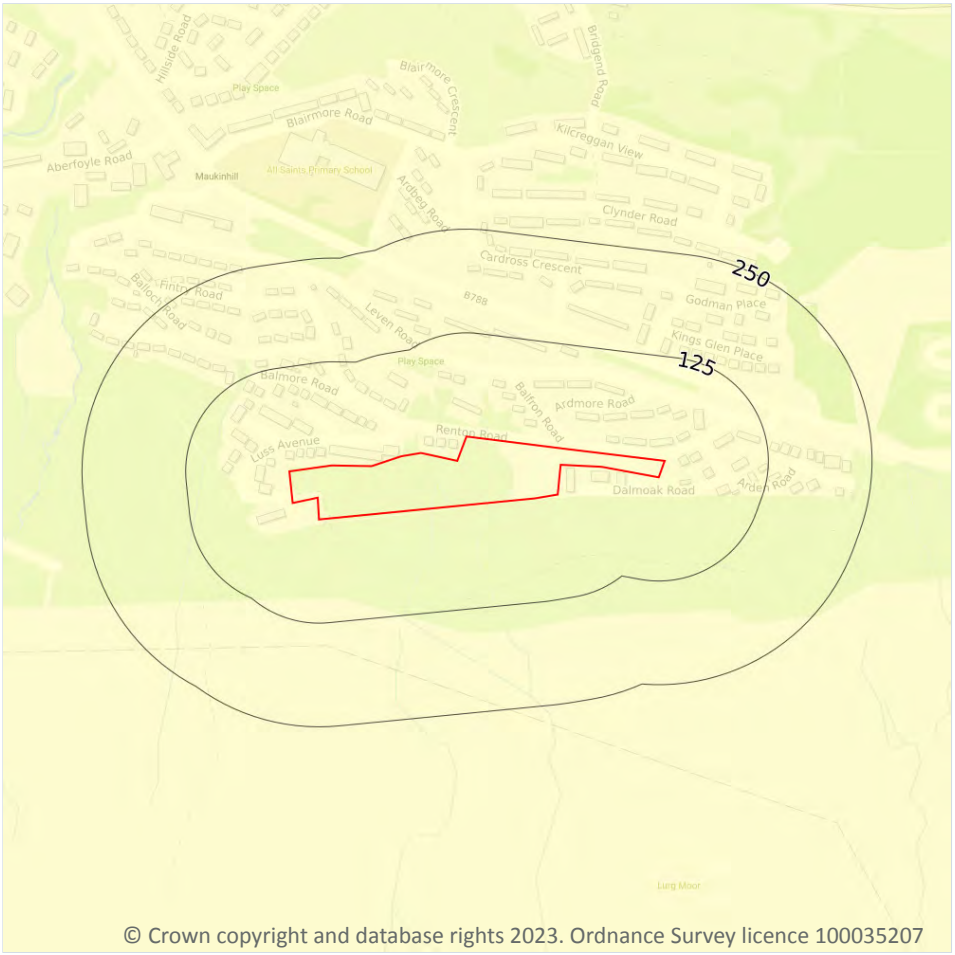
Features are displayed on the Natural ground subsidence - Landslides map on **page 65 >**

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

Location	Hazard rating	Details
On site	**Moderate**	**Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.**
3m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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 67 >**

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 and ground workings

Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

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 BritPits

Records within 500m	3

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

Features are displayed on the Mining and ground workings map on **page 69 >**

ID	Location	Details	Description
A	363m NE	Name: Woodhead Quarries Address: Strone, GREENOCK, Renfrewshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
D	377m NW	Name: Auchmountain Gravel Pit Address: Strone Farm, GREENOCK, Renfrewshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	406m NE	Name: Woodhead Quarries Address: Strone, GREENOCK, Renfrewshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	**2**

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 and ground workings map on **page 69 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Unspecified Heap**	**1978**	**1:10000**
3	215m NE	Unspecified Ground Workings	1978	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	37

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 and ground workings map on **page 69 >**

ID	Location	Land Use	Year of mapping	Mapping scale
I	514m W	Water Shaft	1938	1:10560
I	514m W	Water Shaft	1896	1:10560
I	517m W	Water Shaft	1978	1:10000
I	518m W	Water Shaft	1923	1:10560
I	520m W	Water Shaft	1954	1:10560
M	591m SW	Air Shaft	1978	1:10000
M	594m SW	Air Shaft	1938	1:10560
M	594m SW	Air Shaft	1896	1:10560
M	595m SW	Air Shaft	1954	1:10560
M	600m SW	Air Shaft	1923	1:10560
R	686m N	Tunnel	1923	1:10560
R	693m N	Tunnel	1938	1:10560
R	725m N	Tunnel	1938	1:10560
R	725m N	Tunnel	1896	1:10560
R	727m N	Tunnel	1923	1:10560
R	730m N	Tunnel	1899	1:10560
R	734m N	Tunnel	1992	1:10000
R	734m N	Tunnel	1981	1:10000
R	734m N	Tunnel	1970	1:10560
T	825m N	Tunnel	1938	1:10560
T	825m N	Tunnel	1896	1:10560
T	827m N	Tunnel	1938	1:10560
T	827m N	Tunnel	1896	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
T	828m N	Tunnel	1923	1:10560
T	832m N	Tunnel	1923	1:10560
T	837m N	Tunnels	1899	1:10560
T	838m N	Tunnels	1899	1:10560
T	838m N	Tunnel	1992	1:10000
T	838m N	Tunnel	1981	1:10000
T	841m N	Tunnel	1992	1:10000
T	841m N	Tunnel	1981	1:10000
T	841m N	Tunnel	1970	1:10560
-	967m SW	Air Shaft	1938	1:10560
-	967m SW	Air Shaft	1896	1:10560
-	967m SW	Air Shaft	1978	1:10000
-	973m SW	Air Shaft	1954	1:10560
-	982m SW	Air Shaft	1923	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from 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	7

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).

Features are displayed on the Mining and ground workings map on **page 69 >**

ID	Location	Name	Commodity	Class	Likelihood
2	**On site**	**Not available**	**Vein Mineral**	**B**	**Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.**
8	419m NW	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
10	543m E	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
12	662m N	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
14	699m NE	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
16	718m NW	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
18	879m NE	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 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.

18.8 The Coal Authority non-coal mining

Records within 500m	0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 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.

18.13 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.

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 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 Ground cavities and sinkholes

19.1 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.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.

20 Radon

20.1 Radon

Records on site	1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 79 >**

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

This data is sourced from the British Geological Survey and UK Health Security Agency.

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m **7**

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	**15 mg/kg**	**-**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**-**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 - 30 mg/kg**
4m W	15 mg/kg	-	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
4m W	15 mg/kg	-	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
29m E	15 mg/kg	-	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
32m E	15 mg/kg	-	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
43m E	15 mg/kg	-	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m **16**

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	**5**	**0.9**	**48**	**33**	**0.3**	**48**	**23**	**23**	**5**
On site	**5**	**0.9**	**48**	**33**	**0.3**	**48**	**23**	**22**	**4**
On site	**6**	**1**	**37**	**25**	**0.3**	**60**	**20**	**29**	**3**
On site	**6**	**1**	**28**	**19**	**0.3**	**51**	**20**	**25**	**2**
On site	**6**	**1**	**21**	**14**	**0.3**	**51**	**21**	**24**	**1**
On site	**6**	**1**	**28**	**19**	**0.3**	**50**	**19**	**24**	**2**
On site	**6**	**1**	**27**	**19**	**0.3**	**50**	**20**	**24**	**2**
On site	**7**	**1.2**	**19**	**13**	**0.3**	**72**	**21**	**36**	**0**
On site	**7**	**1.2**	**20**	**14**	**0.3**	**76**	**21**	**38**	**0**
On site	**7**	**1.2**	**38**	**26**	**0.3**	**61**	**20**	**30**	**3**
4m W	7	1.2	51	35	0.3	86	34	44	4
6m W	7	1.2	41	28	0.3	94	25	48	3
38m SW	7	1.2	19	13	0.3	70	21	35	0
43m E	7	1.2	47	32	0.3	54	25	28	4
44m SW	6	1	38	26	0.3	59	20	29	3
44m E	6	1	46	32	0.3	53	26	28	4

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	**1**

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.

Location	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Lead (mg/kg)	Tin (mg/kg)	Sample Type
On site	**5.3**	**0.4**	**47.3**	**37.0**	**22.3**	**80.4**	**10.3**	**Topsoil**

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

22.1 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.

22.2 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.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 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.

22.5 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.

22.6 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.

22.7 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.

22.8 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.

22.9 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.

22.10 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.

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Groundsure
LOCATION INTELLIGENCE

Radon Check

50, RENTON ROAD, GREENOCK, PA15 3AF

Professional opinion

PASS

Site plan

Search results

Not in a radon affected area

Local levels of radon are considered normal.

However, if an underground room makes up part of the accommodation, the property should be tested regardless of radon Affected Area status.

Useful contacts

UK Health Security Agency (UKHSA) / UKRadon
Radon Survey
Chemical, Radiation and Environmental Hazards
Chilton, Didcot
Oxon
OX11 0RQ
https://www.ukradon.org/ ↗

UK Radon Association
http://www.radonassociation.co.uk/ ↗

Overview of findings and recommendations

Radon

No further action is recommended based on the identified local levels of radon.

However, all basement and cellar areas are considered at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of radon Affected Area status.

It should be noted that although this report uses the best available data this assessment is an estimation and is not based upon measurements. It is possible to find high radon levels in properties anywhere in the country, even in lower risk areas, as radon is everywhere in varying concentrations.

Conveyancing Information Executive and our terms & conditions

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- normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- liaise, at your request, with anyone acting formally on your behalf

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Operations Director, Groundsure Ltd, Nile House, Nile Street, Brighton, BN1 1HW. Tel: 01273 257 755. Email: info@groundsure.com ↗ If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs): Tel: 01722 333306, E-mail: admin@tpos.co.uk ↗ We will co-operate fully with the Ombudsman during an investigation and comply with their final decision.

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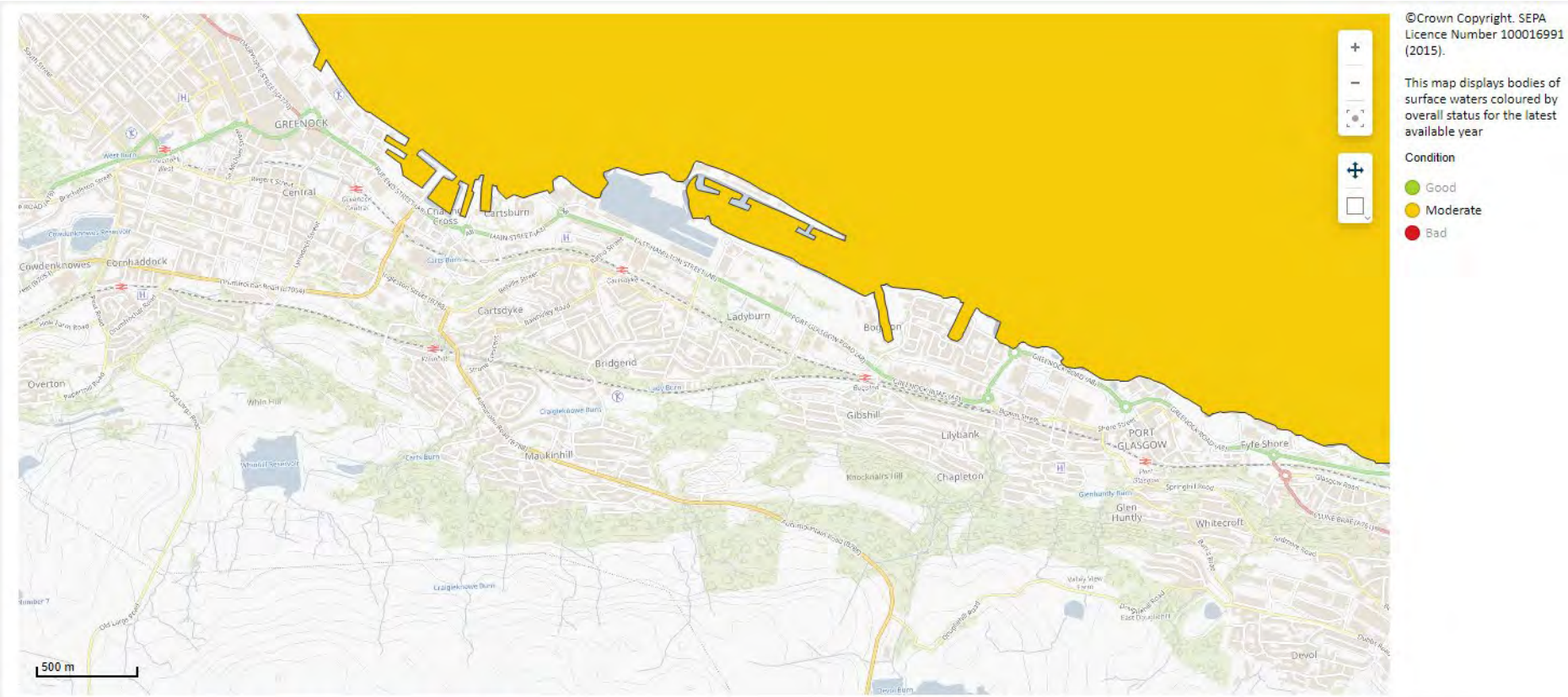
Groundsure works with respected data providers to bring you the most relevant and accurate information in your Radon Check report. To find out who they are and their areas of expertise see www.groundsure.com/sources-reference ↗.

Appendix H:

SEPA Surface Water Classification

SEPA Surface Water Quality Classification

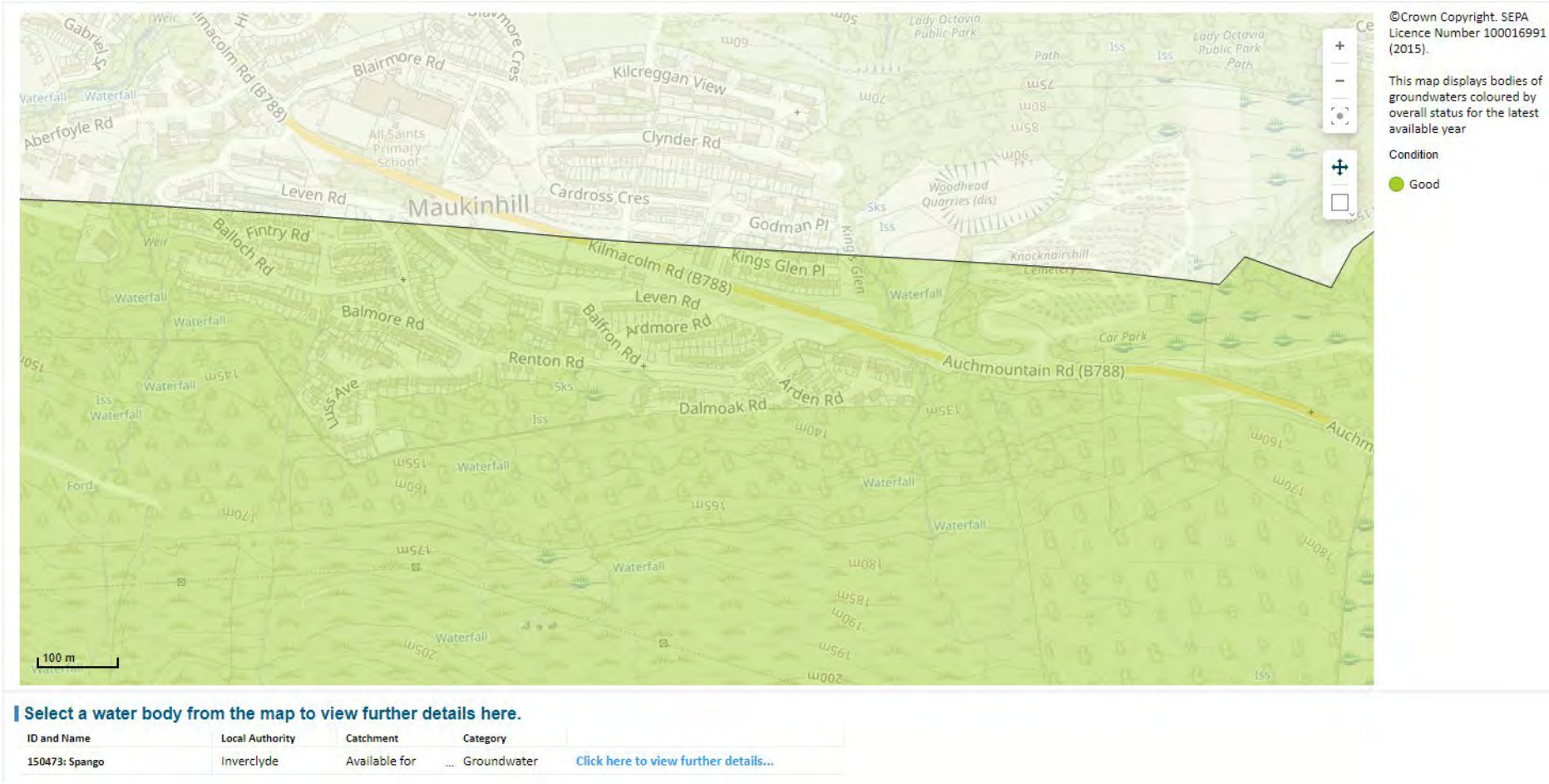


Source: https://www.sepa.org.uk/data-visualisation/water-classification-hub/

Appendix I:

SEPA Groundwater Classification

SEPA Groundwater Quality Classification



Source: https://www.sepa.org.uk/data-visualisation/water-classification-hub/

Appendix J:

CIRIA C552 Guidelines for Risk Assessment

Table 6.3 *Classification of consequence*

Classification	Definition	Examples
Severe	Short-term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definitions of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied.
Medium	Chronic damage to Human Health ("significant harm" as defined in DETR, 2000). Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution). A significant change in a particular ecosystem, or organism forming part of such ecosystem. (note: the definitions of ecological systems within Draft Circular on Contaminated Land, DETR , 2000).	Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer. Death of a species within a designated nature reserve.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ("significant harm" as defined in the *Draft Circular on Contaminated Land*, DETR, 2000). Damage to sensitive buildings/structures/services or the environment.	Pollution of non-classified groundwater. Damage to building rendering it unsafe to occupy (eg foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discoloration of concrete.

Table 6.4 *Classification of probability*

Classification	Definition
High likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term

These classifications are then compared to indicate the risk presented by each pollutant linkage. It is important that this classification is only applied where there is a possibility (which can range from high likelihood to unlikely) of a pollutant linkage existing.

This method can be applied with or without site investigation data and can be used to assess the results of either qualitative or quantitative assessment. **It is recommended that the amount of data and basis of classifications are made clear when reporting such an assessment**. It is often possible to undertake this risk evaluation following the Phase 1 stage of the risk assessment. If site investigation and further risk estimation are then undertaken the evaluation can be revised.

Once the consequence and probability have been classified, these can then be compared (see Table 6.5) to produce a risk category, ranging from "very high risk" to "very low risk". The actions corresponding with this classification is given in Table 6.6. A worked example is presented in Box 6.10.

Table 6.3 shows the classification of consequence. To classify the consequence it is important to bear in mind that the classification does not take into account the probability of the consequence being realised (this is considered in Table 6.4). Therefore, for a particular pollutant linkage it may be necessary to classify more than one consequence. For example, the risk from methane build-up in a building presents a risk of harm both to the building and to human health. Both would be classified as *severe*, but the probability, addressed in the next stage of this methodology, may vary (for example, the building may be unoccupied for most of the time, with only occasional visits – eg a pumping station).

The classification of *severe* relates to short-term (acute) risks only. The *medium* classification relates to chronic harm, which can be classed as "significant harm" (if the assessment is carried out for Part IIA purposes. The *mild* classification also relates to significant chronic harm but applies to less-sensitive receptors. The *minor* classification relates to harm which, while not considered "significant", may have a financial implication (eg phytotoxic effects of contaminants on development landscaping).

It is worth noting that, in theory, both a *severe* and *medium* classification can result in death. The differentiation between the two categories is that *severe* relates to a short-term risk whilst *medium* relates to a long-term risk. Therefore the classification of *severe* should indicate that urgent action is required (urgent action may also be required under the *medium* classification, but usually longer-term actions are sufficient).

The classification gives a guide as to the severity and consequence of identified risks when compared with other risk presented on the site. It is not possible to classify an identified risk as presenting "no-risk", rather "very low risk". This is important, as the acceptability of risk may depend on the viewpoint of the stakeholder concerned. It may be necessary to take action to deal with a risk even if classified as "very low", although these actions may not necessarily be required urgently.

Table 6.5 *Comparison of consequence against probability*

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High likelihood	**Very high risk**	**High risk**	**Moderate risk**	Moderate/ low risk
	Likely	**High risk**	**Moderate risk**	Moderate/ low risk	Low risk
	Low likelihood	**Moderate risk**	Moderate/ low risk	Low risk	Very low risk
	Unlikely	Moderate/ low risk	Low risk	Very low risk	Very low risk

Table 6.6 *Description of the classified risks and likely action required*

Very high risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High risk	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term
Moderate risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, if is either relatively unlikely that any 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
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very low risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Box 6.10 *Example of risk evaluation*

A site is used for car parking. The surface is mainly hardstanding, but the quality is not sufficient to prevent infiltration of rainwater. Site investigation has shown that, underlying the hardstanding, the made ground and groundwater (minor aquifer) beneath the made ground contain raised concentrations of toxic metals. The site investigation also encountered several areas of fly-tipped wastes with very high cyanide content (enough to present short-term risks to human health). One such area, bordered by housing, is used for informal recreation, mainly by children.

Therefore the contaminant-pathway-receptor relationship can be summarised as below.

Contaminant	Pathway	Receptor	Consequence of risk being realised	Probability of risk being realised	Risk classification	Risk management action taken
Fly-tipped material with high cyanide content	Direct contact	Humans, mainly children playing on site	Severe	High likelihood	Very high	Immediate removal of fly-tipped material to suitable landfill facility
Toxic metals, for example arsenic and cadmium	Leaching to groundwater (minor aquifer)	Minor aquifer, no local abstractions	Medium	High likelihood	High	Further groundwater monitoring, including perimeter and removal of hotspots of contamination.
Toxic metals, for example arsenic and cadmium	Direct contact	Site workers and visitors during remediation	Medium	Likely	Moderate	Site health and safety plan made allowance for contamination. Site workers were supplied with personal protective equipment and damping down of the site during dry periods was undertaken during remediation.
Toxic metals, for example arsenic and cadmium	Dust	Site workers Residential properties next door to site Site workers and visitors during remediation	Medium	Likely	Moderate	It was considered that damping down of site was sufficient to break this pollutant linkage. Dust monitoring was undertaken on site and at site boundaries to prove this.

Note

The pollutant linkage for residential properties was not assessed in detail, as the measures to address the risk to site workers from contaminated dust were considered sufficient to protect nearby residents.

ardmore point

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