

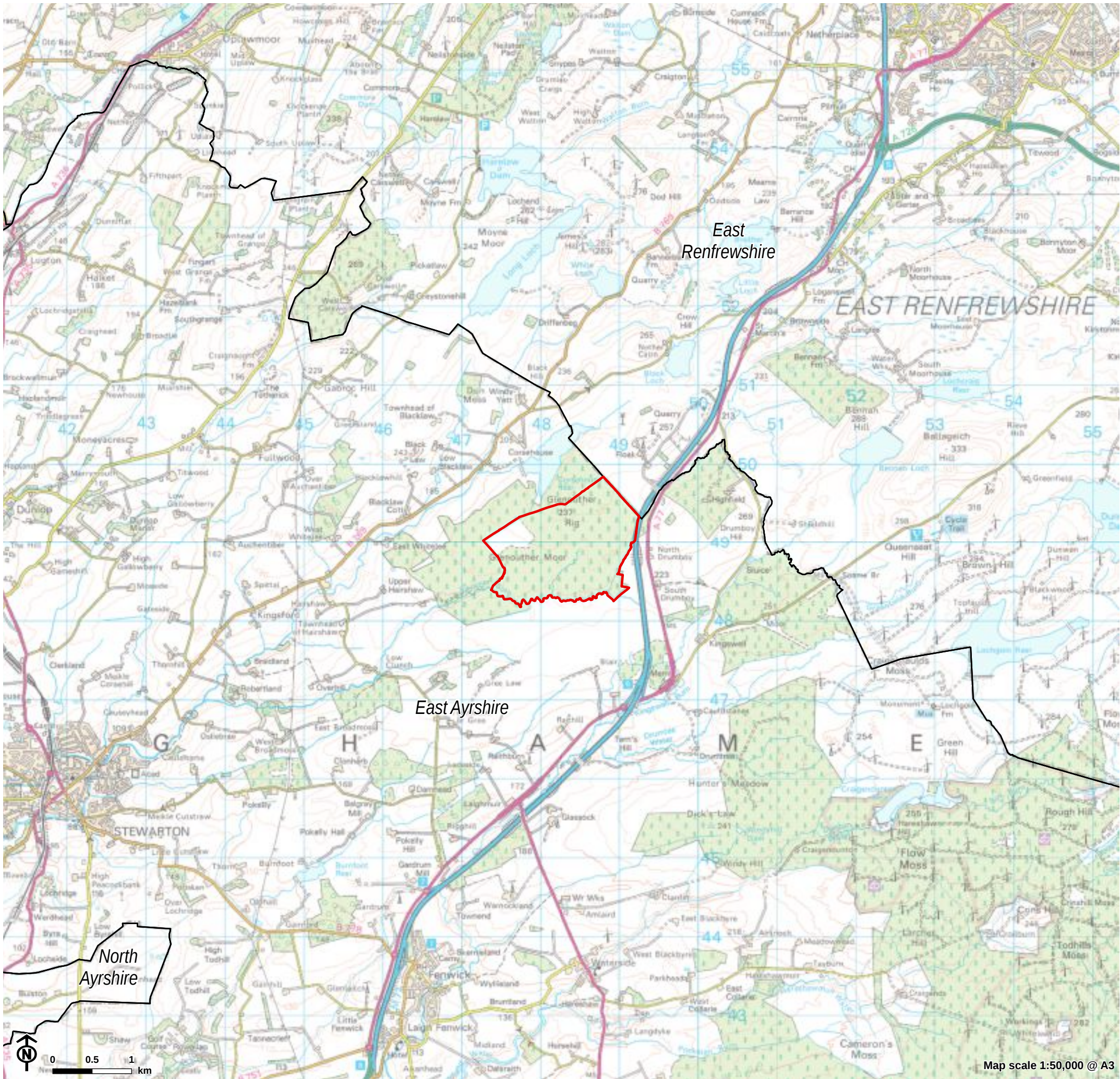


Figure 1.1: Site Location Plan

- Site boundary
- Local authority boundary



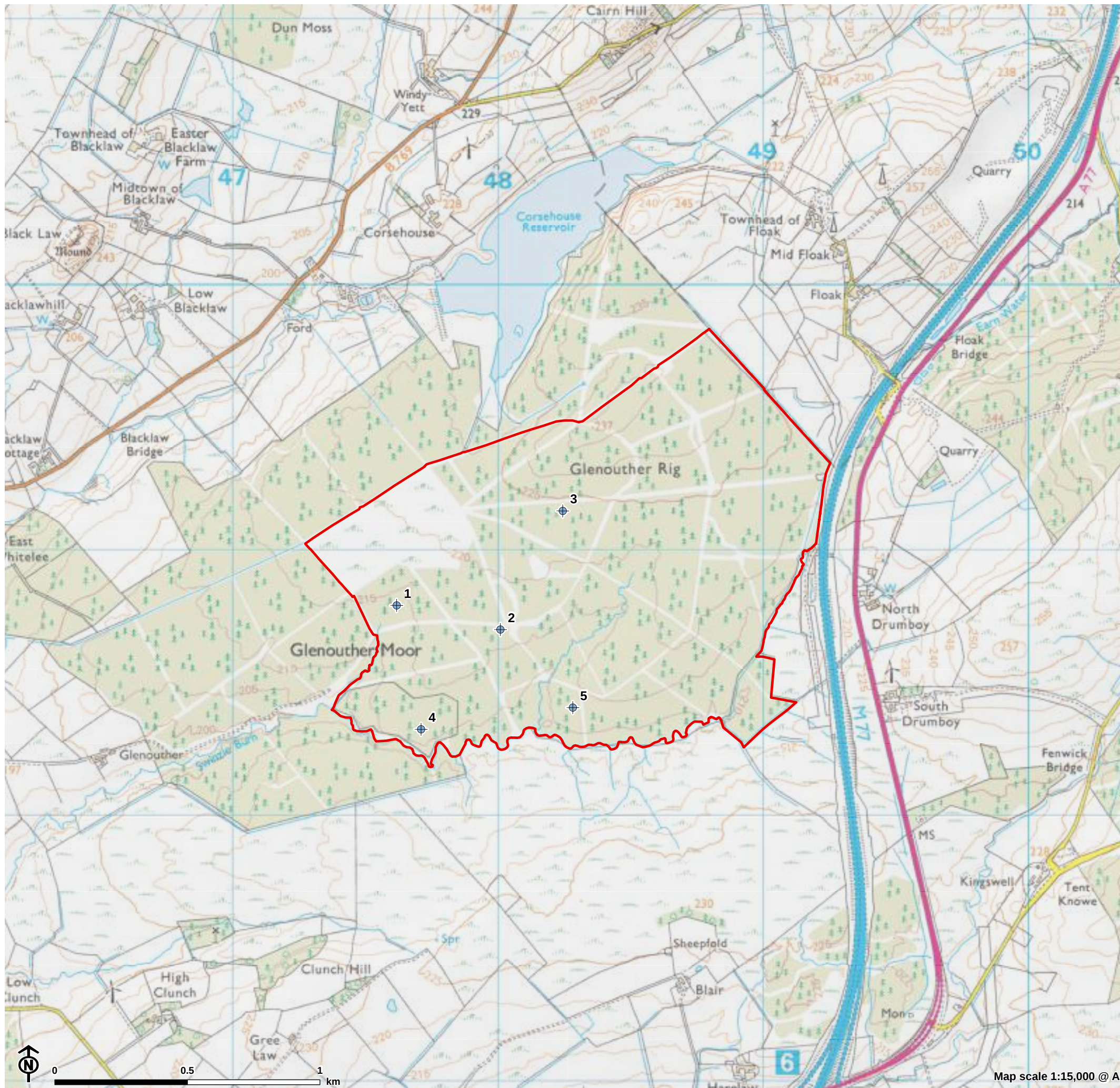
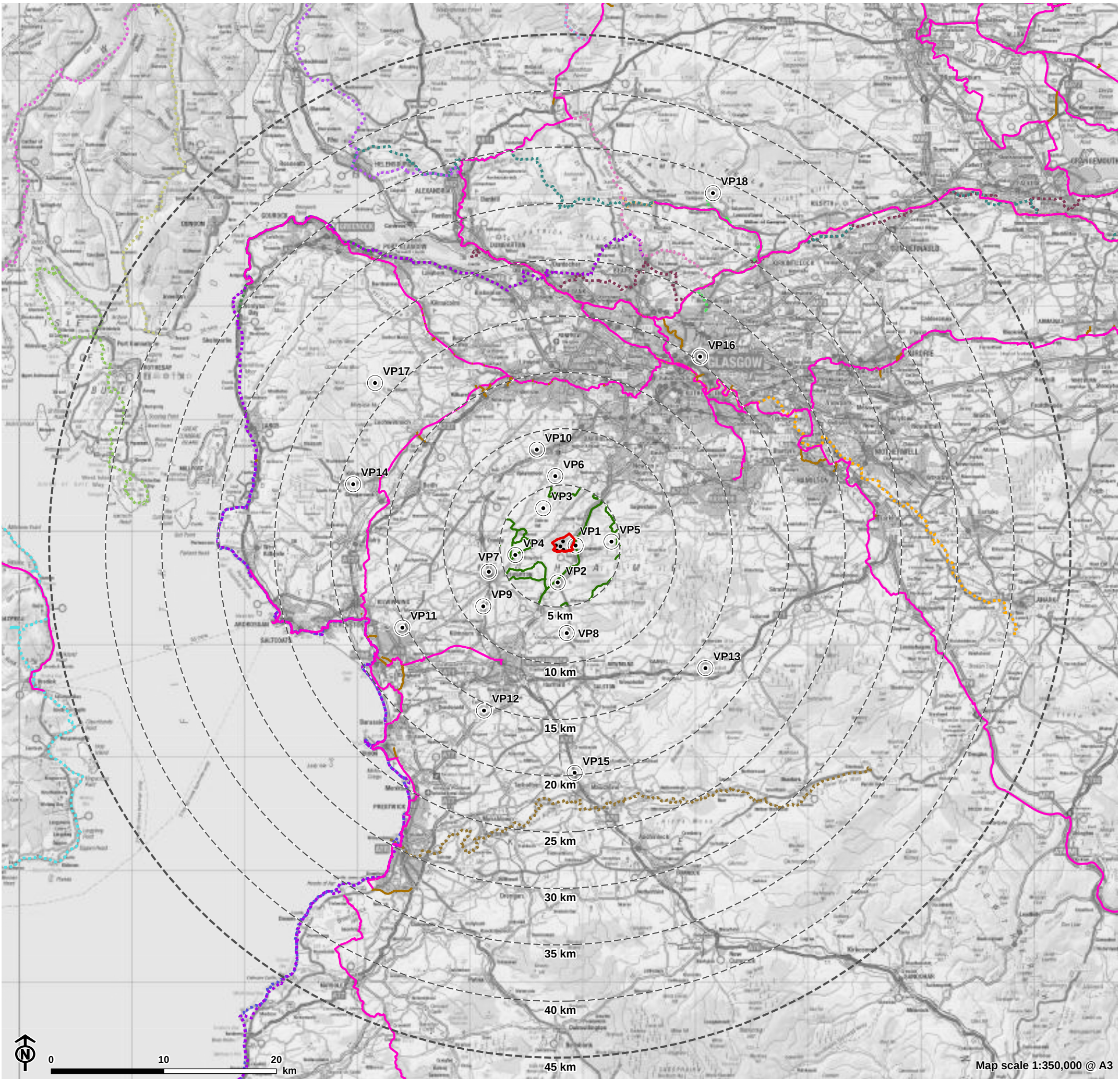


Figure 3.1: Scoping Layout

- Site boundary
- Turbine

Figure 5.1: Viewpoints and ZTV Tip 200 m



Site boundary

Turbine

5 km intervals from outermost turbines

45 km LVIA study area

Recreational routes

National Cycle Network (NCN)

NCN Link

Core path within 5 km

Antonine Trail

Arran Coastal Way

Ayrshire Coastal Path

Central Scottish Way

Clyde Coastal Path

Clyde Walkway

Cowal Way

Edinburgh to Glasgow

Canals Walk

Fife Coastal Path

Firth o Clyde Rotary Trail

Five Degree West

Challenge

John Muir Way

Mary Queen of Scots Way

River Ayr Way

Rob Roy Way

Scottish National Trail

Thomas Muir Heritage Trail

Three Lochs Way

West Island Way

Zone of Theoretical Visibility (turbine blade tip 200 m)

1- 2 turbine blade tips visible

3 turbine blade tips visible

4 turbine blade tips visible

5 turbine blade tips visible

Viewpoint

VP1: A77 near South
Drumboy Farm

VP2: Glasscock Bridge -
A77/A719

VP3: Harelaw Road

VP4: Kingsford B769

VP5: Queenseat B764

VP6: Neilston Pad

VP7: Dunlop Road (A735),
Stewarton

VP8: Berryhill Moscow A719

VP9: Builston A735

VP10: Foreside

VP11: Standing Stones,
north of Irvine

VP12: B7038 Ditton south
of Kilmarnock

VP13: Loudon Hill A71

VP14: Kilbirnie Connelston
A760

VP15: Mauchline A76

VP16: Glasgow Necropolis

VP17: Clyde Muirshiel
Regional Park Visitor
Centre

VP18: Wright's Well,
Campsie Fells

Note:

The ZTV is calculated to turbine tip height (200 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.4.0 software.

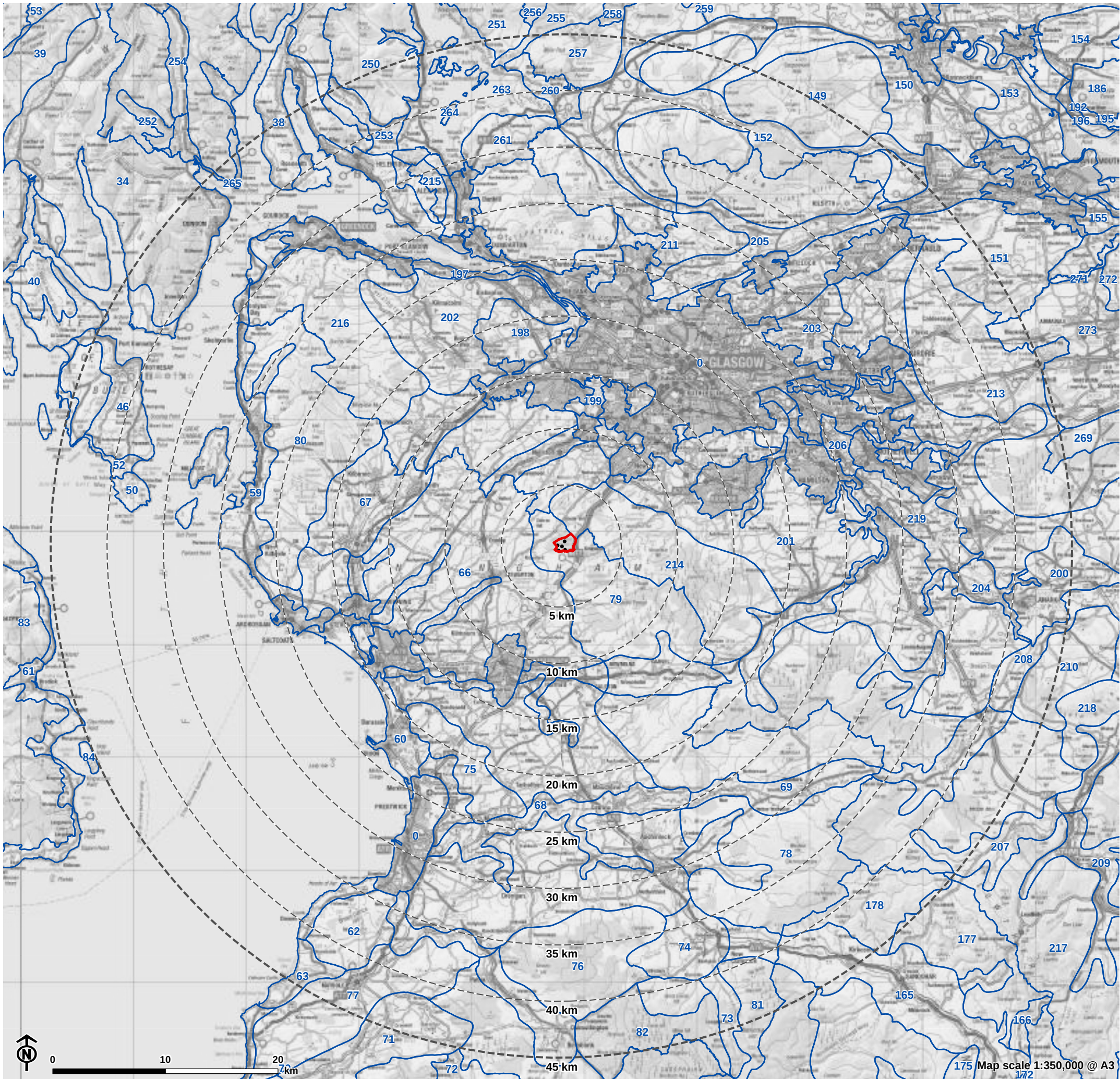


Figure 5.2a: Landscape Character and ZTV

- Site boundary
- Turbine
- 5 km intervals from outermost turbines
- 45 km LVIA study area
- Landscape Character Type (NatureScot 2019)
- Zone of Theoretical Visibility (turbine blade tip 200 m)**
 - 1- 2 turbine blade tips visible
 - 3 turbine blade tips visible
 - 4 turbine blade tips visible
 - 5 turbine blade tips visible

Note:
The ZTV is calculated to turbine tip height (200 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.4.0 software.





Figure 5.2b: Landscape Character and ZTV - LCT Legend

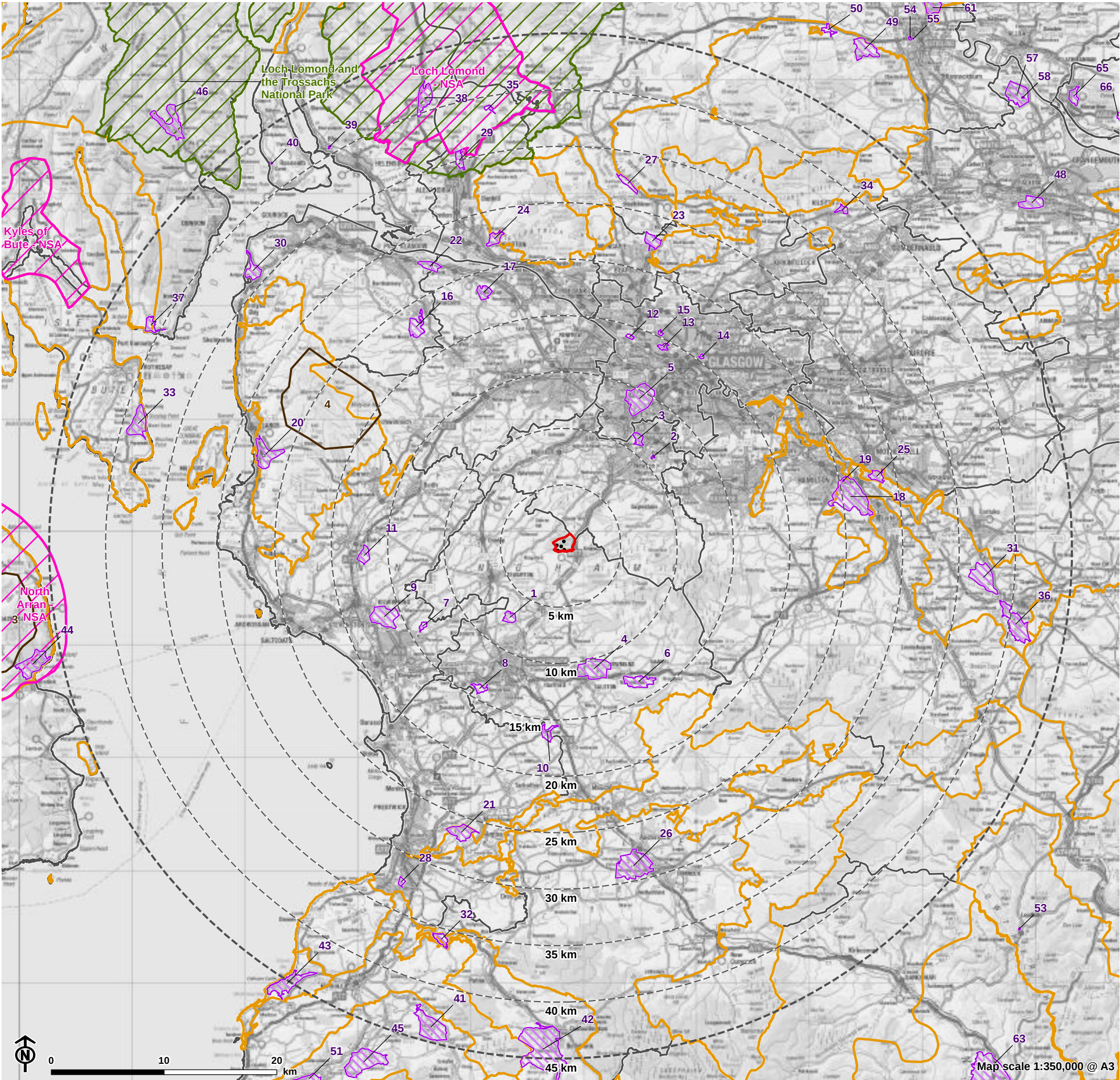
Landscape Character Types

0: Urban	82: Southern Uplands with Forest - Ayrshire	205: Broad Valley Lowland - Glasgow & Clyde Valley	259: Rolling Farmland and Estates - Loch Lomond & the Trossachs
38: Open Ridges	83: Rugged Upland - Ayrshire	206: Broad Urban Valley	260: River Valley Farmland and Estates
34: Steep Ridges and Mountains	84: Rocky Islands	207: Upland River Valley - Glasgow & Clyde Valley	261: Rolling Farmland - Loch Lomond & the Trossachs
39: Plateau Moor and Forest - Argyll	149: Lowland Hills - Central	208: Broad Valley Upland	263: Lowland Loch Basin - Loch Lomond & the Trossachs
40: Craggy Upland - Argyll	150: Lowland Hill Fringes - Central	209: Upland Glen - Glasgow & Clyde Valley	264: Lowland Loch Basin Islands
46: Rolling Farmland with Estates - Argyll	151: Lowland Plateaux - Central	210: Undulating Farmland and Hills	265: Settled Coastal Fringe
50: Stepped Rocky Coastlands	152: Lowland River Valleys - Central	211: Drumlin Foothills	269: Upland Fringes - Lothians
52: Coastal Plain - Argyll	153: Carselands	213: Plateau Moorlands - Glasgow & Clyde Valley	271: Lowland River Corridors - Lothians
53: Rocky Coastland - Argyll	154: Lowland Valley Fringes	214: Plateau Moorland with Windfarms - Glasgow & Clyde Valley	272: Lowland Hills and Ridges - Lothians
59: Raised Beach Coast and Cliffs	155: Coastal Farmland - Central	215: Open Ridgeland - Glasgow & Clyde Valley	273: Lowland Plateaux - Lothians
60: Low-Lying Coast	165: Upper Dale - Dumfries & Galloway	216: Rugged Moorland Hills	276: Lowland Hill Fringes - Lothians
61: Coastal Fringe with Agriculture	166: Upland Glens - Dumfries & Galloway	217: Southern Uplands - Glasgow & Clyde Valley	
62: Coastal Headlands	172: Upland Fringe - Dumfries & Galloway	218: Rounded Landmark Hills	
63: Coastal Valley with Policies	175: Foothills - Dumfries & Galloway	219: Broad River Valley	
66: Agricultural Lowlands - Ayrshire	177: Southern Uplands - Dumfries & Galloway	250: Steep Ridges and Hills	
67: Broad Valley Lowlands - Ayrshire	178: Southern Uplands with Forest - Dumfries & Galloway	251: Highland Summits	
68: Lowland River Valleys - Ayrshire	186: Lowland Hills and Valleys	252: Upland Glens - Loch Lomond & the Trossachs	
69: Upland River Valleys - Ayrshire	192: Coastal Hills - Fife	253: Straths and Glens	
70: Lower Dale - Ayrshire	195: Coastal Braes	254: Straths and Glens with Lochs	
71: Middle Dale - Ayrshire	196: Coastal Flats - Fife	255: Parallel Ridges - Loch Lomond & the Trossachs	
72: Pastoral Valleys - Ayrshire	197: Raised Beach - Glasgow & Clyde Valley	256: Rolling Forested Plateau	
73: Upland Glen - Ayrshire	198: Agricultural Plain - Glasgow & Clyde Valley	257: Plateau Moor and Forest - Loch Lomond & the Trossachs	
74: Upland Basin - Ayrshire	199: Urban Greenspace	258: Ridges and Knolls with Estates	
75: Lowland Hills - Ayrshire	200: Rolling Farmland - Glasgow & Clyde Valley		
76: Foothills - Ayrshire	201: Plateau Farmland - Glasgow & Clyde Valley		
77: Low Hills - Ayrshire	202: Rugged Upland Farmland		
78: Plateau Moorland - Ayrshire	203: Urban Fringe Farmland		
79: Plateau Moorland with Windfarms - Ayrshire	204: Incised River Valleys		
80: Rugged Moorland Hills and Valleys			
81: Southern Uplands - Ayrshire			





Figure 5.3a: Landscape Designations and ZTV



- Site boundary
- Turbine
- 5 km intervals from outermost turbines
- 45 km LVIA study area
- Local Authority boundary
- Loch Lomond and the Trossachs National Park
- National Scenic Area (NSA)
- Wild Land Area (WLA)
- 03. North Arran
- 04. Waterhead Moor - Muirshiel
- Local Landscape Designation (LLA)*
- Garden and Designed Landscape (GDL)
- Zone of Theoretical Visibility (turbine blade tip 200 m)**
- 1- 2 turbine blade tips visible
- 3 turbine blade tips visible
- 4 turbine blade tips visible
- 5 turbine blade tips visible

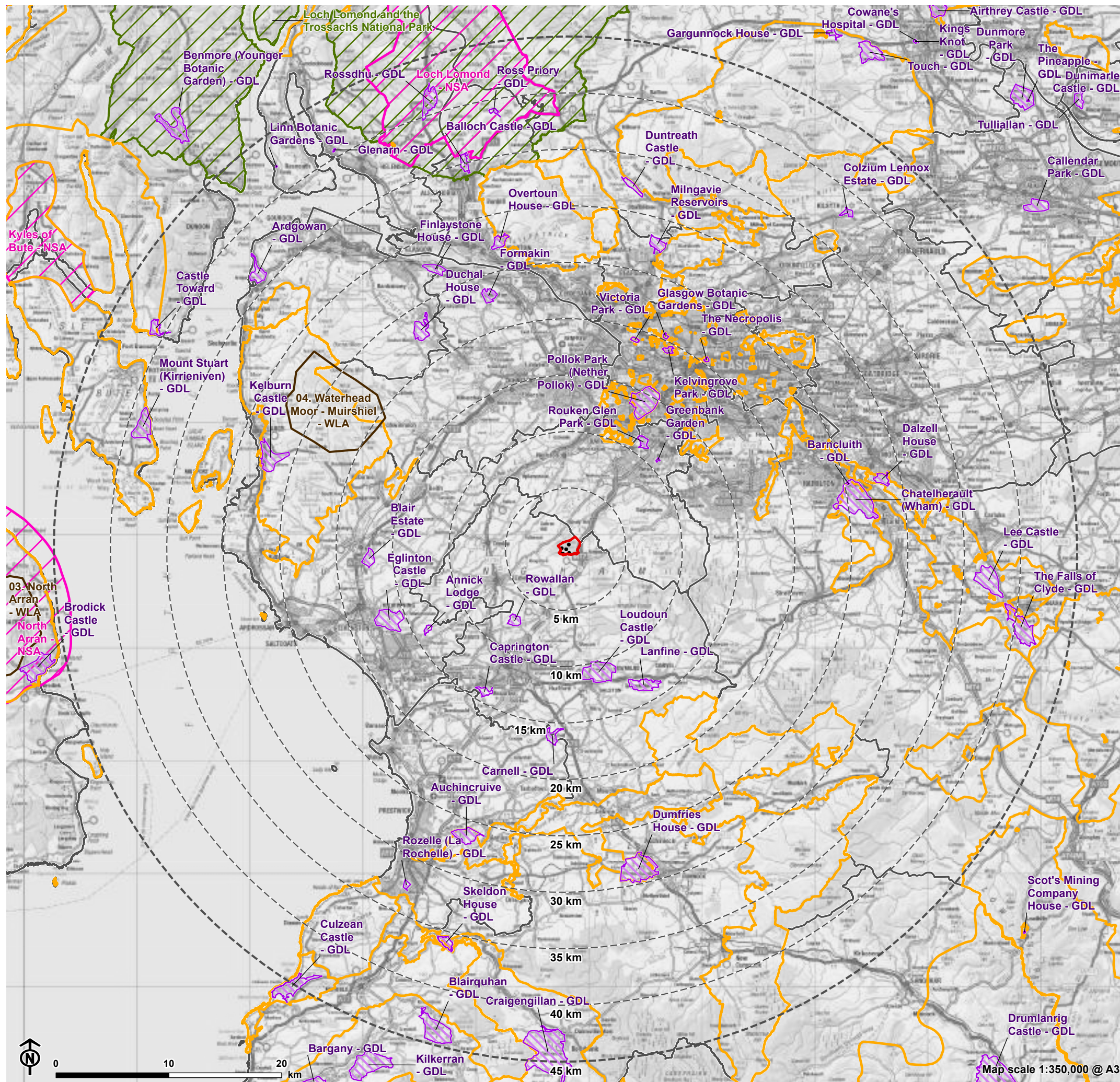
Garden and Designed Landscapes within 20 km of outermost turbines

- 1: Rowallan
- 2: Greenbank Garden
- 3: Rouken Glen Park
- 4: Loudoun Castle
- 5: Pollok Park (Nether Pollok)
- 6: Lanfine
- 7: Annick Lodge
- 8: Caprington Castle
- 9: Eglinton Castle
- 10: Carnell
- 11: Blair Estate
- 12: Victoria Park
- 13: Kelvingrove Park

Note:
The ZTV is calculated to turbine tip height (200 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.4.0 software.

*Local landscape designations are named differently by local authorities. They are named "Area of Panoramic Quality (APQ)" in Argyll and Bute; "Regional Scenic Areas (RSA)" in Dumfries and Galloway; "Special Landscape Area (SLA)" in East Ayrshire, North Ayrshire, Falkirk, South Lanarkshire and West Lothian; "Local Landscape Area (LLA)" in East Dumbartonshire, Inverclyde, South Ayrshire, Stirling and West Dumbartonshire; and "Area of Great Landscape Value" in North Lanarkshire.





Glenouther Wind Farm EIA Scoping Report for Wind Power North 4 Ltd.



-  Site boundary
- Turbine
-  5 km intervals from outermost turbines
-  45 km LVIA study area
-  Local Authority boundary
-  Loch Lomond and the Trossachs National Park
-  National Scenic Area (NSA)
-  Wild Land Area (WLA)
-  Local Landscape Designation (LLA)*
-  Garden and Designed Landscape (GDL)

Zone of Theoretical Visibility (turbine blade tip 200 m)

- 1- 2 turbine blade tips visible
- 3 turbine blade tips visible
- 4 turbine blade tips visible
- 5 turbine blade tips visible

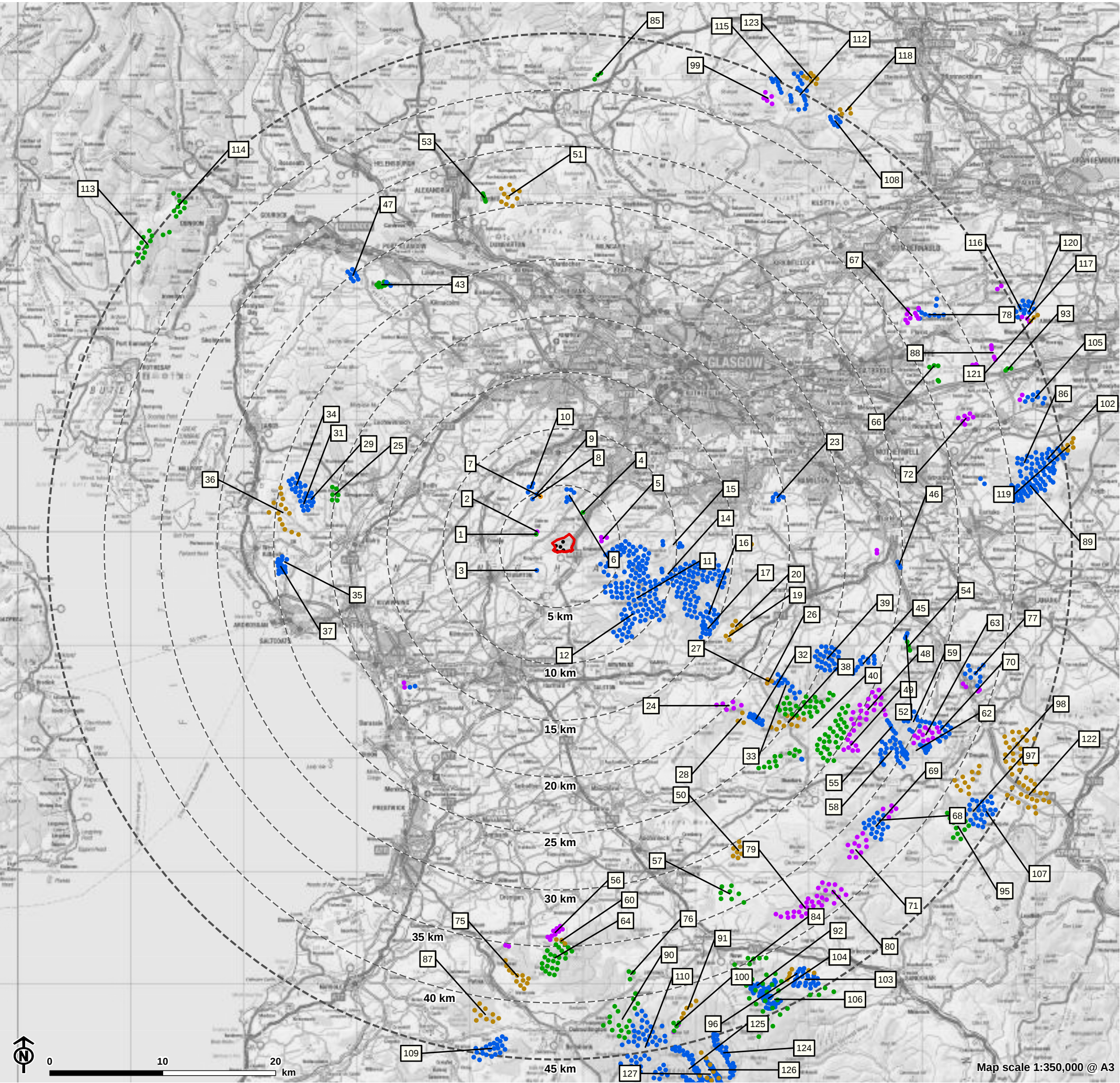
Note:
The ZTV is calculated to turbine tip height (200 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.4.0 software.

Local landscape designations are named differently by local authorities. They are named "Area of Panoramic Quality (APQ)" in Argyll and Bute; "Regional Scenic Areas (RSA)" in Dumfries and Galloway; "Special Landscape Area (SLA)" in East Ayrshire, North Ayrshire, Falkirk, South Lanarkshire and West Lothian; "Local Landscape Area (LLA)" in East Dumbartonshire, Inverclyde, South Ayrshire, Stirling and West Dumbartonshire; and "Area of Great Landscape Value" in North Lanarkshire.





Figure 5.4a: Cumulative Baseplan



- Site boundary
 - Turbine
 - 5 km intervals from outermost turbines
 - 45 km LVIA study area
- Wind farm layout (by status)**
- Operational
 - Consented
 - Application Submitted
 - Design/Scoping

Note:
Cumulative wind farms based on information available to LUC on 02/05/2025. Turbines of less than 50 m to blade tip height and single turbine schemes beyond 5km from the outermost turbines are not included.



Figure 5.4b: Cumulative Baseplan Legend

#	Wind farm name	#	Wind farm name	#	Wind farm name	#	Wind farm name
1	East Whitelee	38	Bankend Rig III	75	Knockkippen	112	Earlsburn
2	Blacklaw Hill	39	Kype Muir	76	Lanehead	113	Inverchaolain
3	Clonherb	40	Hagshaw Energy Cluster Western Expansion	77	Broken Cross	114	Giant's Burn
4	Little Loch Byre	41	Priestside Farm	78	Greengairs East	115	Kingsburn
5	Moorshield	42	Kittymuir	79	Lethans	116	Burnhead
6	Middleton	43	Gryffe Wind Farm	80	Lethans Extension	117	Drumduff Extension
7	Nether Carswell III	44	Linburn Farm	81	Broken Cross surface mine	118	Drummarnock
8	Dareduff Hill	45	Auchrobert	82	Greendykeside	119	Gladsmuir
9	Carswell Hill	46	Lochhead	83	Dewshill	120	Drumduff
10	Neilston Community	47	Inverclyde	84	Blackwood (East Ayrshire)	121	The Heights
11	Whitelee Extension Phase 1	48	Cumberhead West	85	Loarninghead	122	M74 West Renewable Energy Park
12	Whitelee Extension Phase 2	49	Hare Craig	86	Black Law Extension Phase 2	123	Earlsburn Extension
13	Myres Hill	50	Drum	87	Sciencetuch	124	Afton
14	Whitelee	51	Vale Of Leven	88	Forrestfield	125	Brockloch Rig (formerly Windy Standard - Phase 2)
15	Over Enoch and Ardoch	52	Ladehead Farm	89	Black Law	126	Windy Standard I Repowering (Brockloch Rig I Repowering)
16	West Browncastle	53	Pappert Hill	90	South Kyle 2	127	Brockloch Rig 1 (formerly Windy Standard - Phase 1)
17	Calder Water	54	Black Hill Lesmahagow	91	Pencloe Extension		
18	High Knoweglass Farm	55	Nutberry	92	Hare Hill Phase 1		
19	Low Drumclog	56	Polquhaim	93	Treesbank Farm		
20	Mossmulloch	57	Airds Hill	94	Brownhill Farm		
21	GlaxoSmithKline (Irvine)	58	Galawhistle (Section 38)	95	West Andershaw		
22	GlaxoSmithKline2	59	Dalquhandy	96	Sandy Knowe Extension		
23	Blantyre Muir	60	Rigmuir	97	Andershaw		
24	Mill Rig	61	Knockshinnoch	98	Bodinglee		
25	South Hourat	62	Hagshaw Hill Extension	99	Shelloch		
26	Hallsburn	63	Douglas West Extension	100	Monquhill		
27	Hallsburn Farm	64	Breezy Hill	101	Enoch Hill 2		
28	Bankend Rig Extension	65	Blackridge Farm, Newhouse	102	Black Law Extension Phase 1		
29	Millour Hill	66	Mountcow Farm	103	Sandy Knowe		
30	Millour Hill Extension	67	Greengairs	104	Hare Hill Phase 2		
31	Wardlaw Wood	68	Kennoxhead Extension	105	West Benhar		
32	Bankend Rig	69	Kennoxhead	106	Hare Hill Repowering		
33	Dungavel	70	Douglas West	107	Middle Muir		
34	Kelburn Estate	71	Kennoxhead Extension II	108	Craigengelt		
35	Ardrossan - Phase2	72	Hartwood	109	Dersalloch		
36	Crosbie	73	Birkhill	110	South Kyle		
37	Ardrossan - Phase1	74	Watsonhead Farm	111	Easter Drumclair Wood		

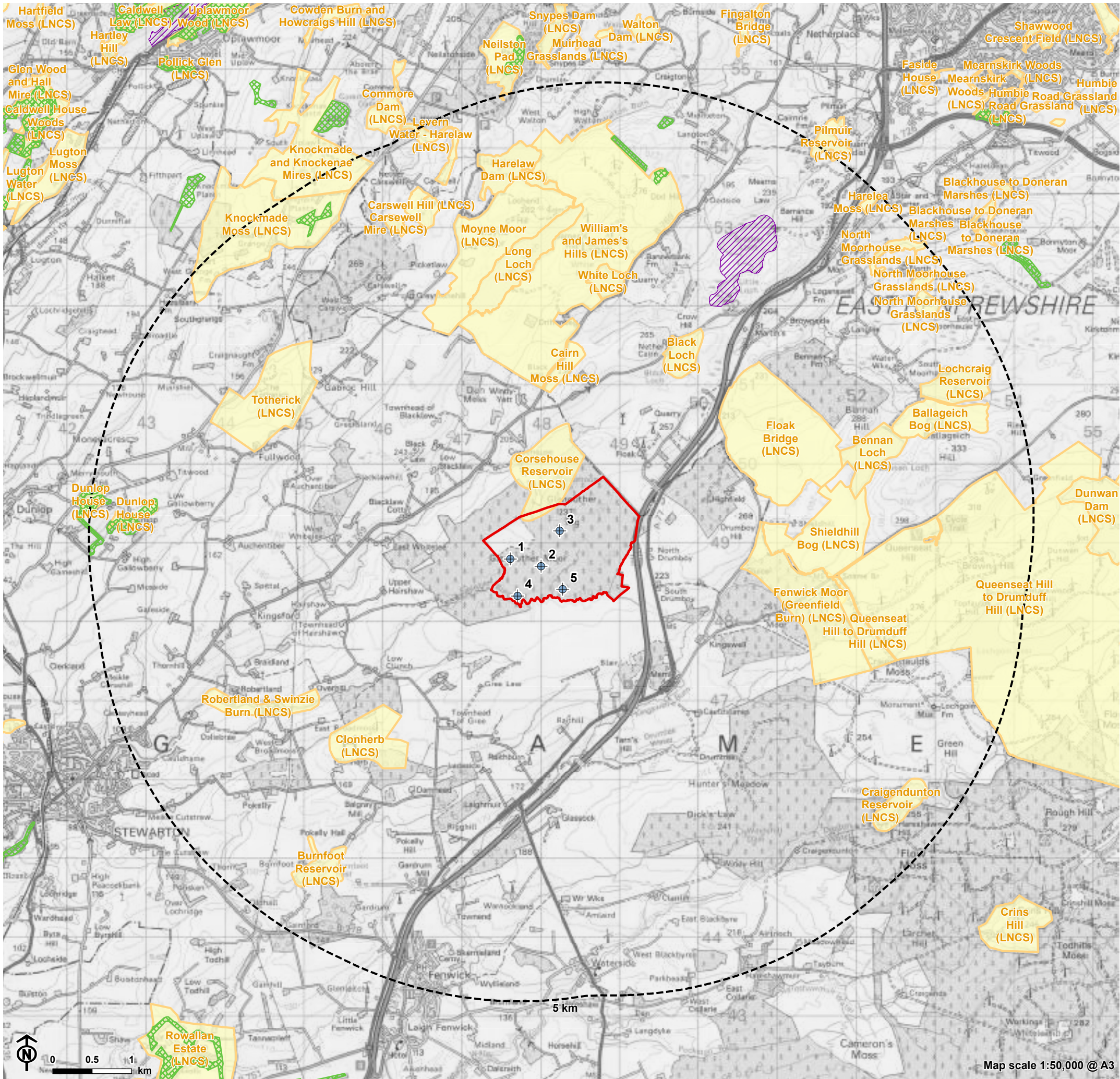


Figure 6.1: Ecological Designated Sites and Ancient Woodland within 5 km

- Site boundary
- Turbine
- 5 km from site boundary
- Ecological Designations within 5 km
 - Site of Special Scientific Interest (SSSI) - Brother and Little Lochs
 - Ancient Woodland Inventory (AWI)
 - Local Nature Conservation Site (LNCS)

Figure 6.2: Carbon and Peatland Map 2016

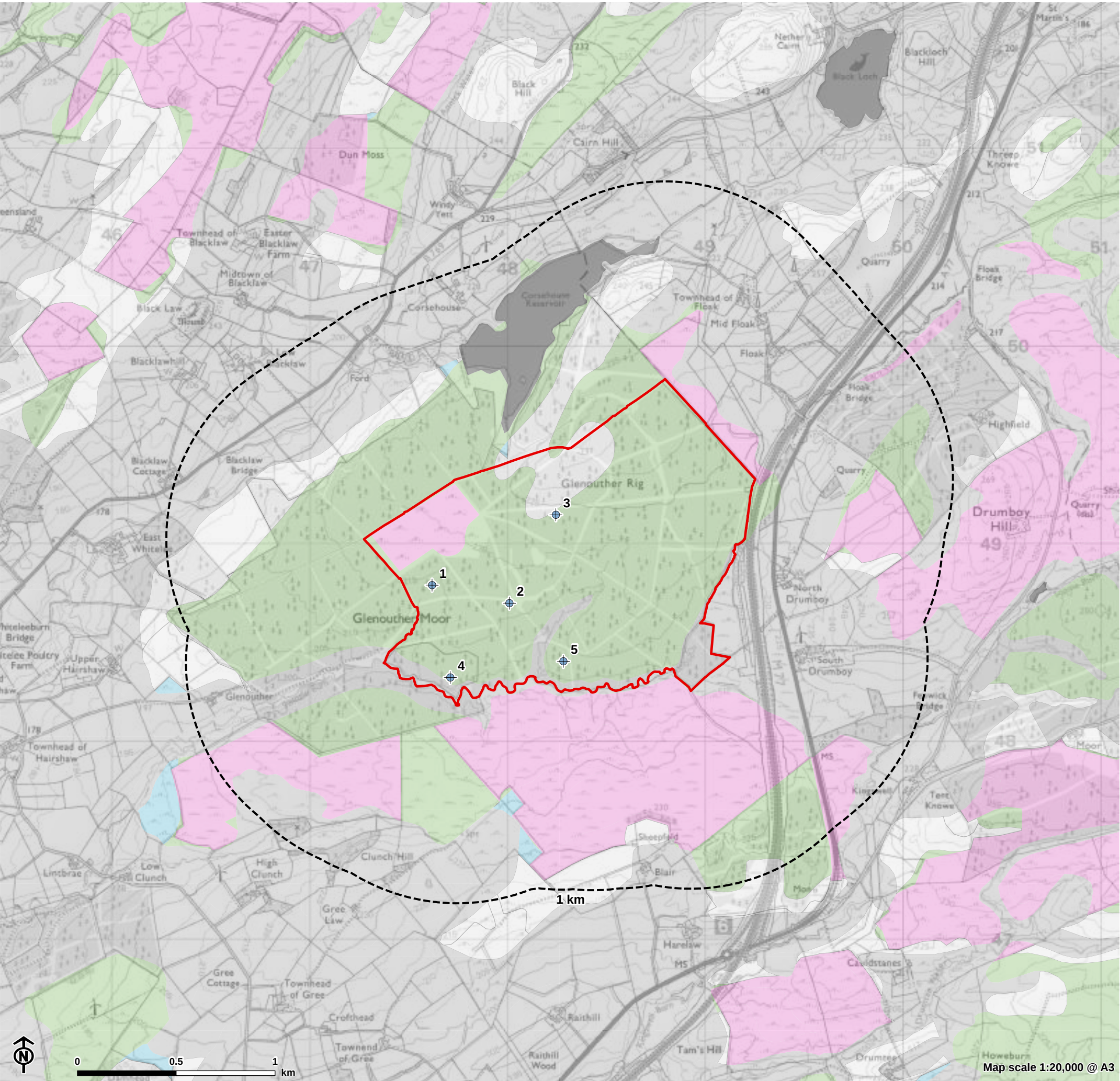
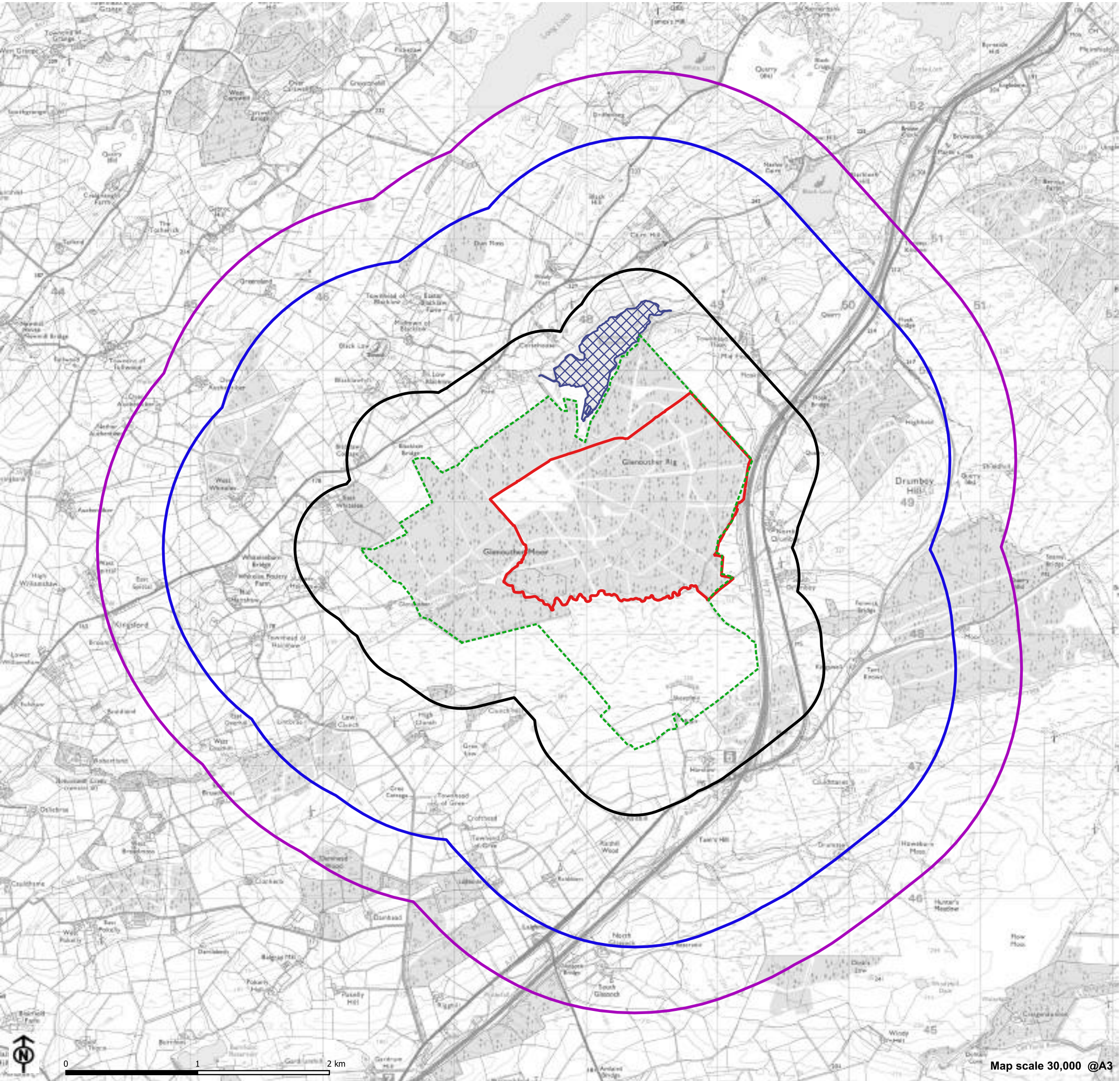




Figure 7.1: Study Area



- Site boundary
- Ornithology Study Area
- 500 m buffer
- 1.5 km buffer
- 2 km buffer
- Winter Wildfowl Count Area

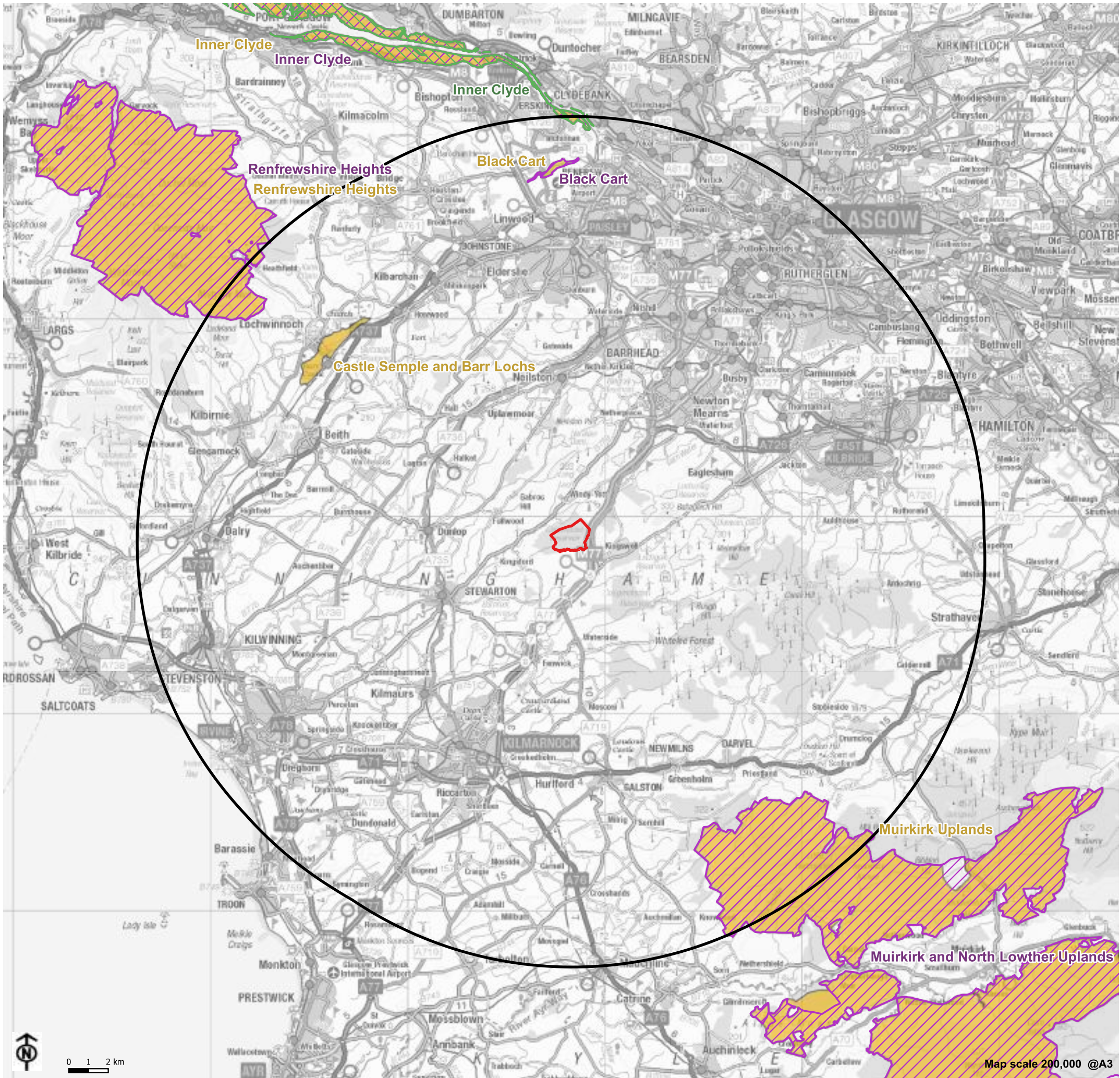
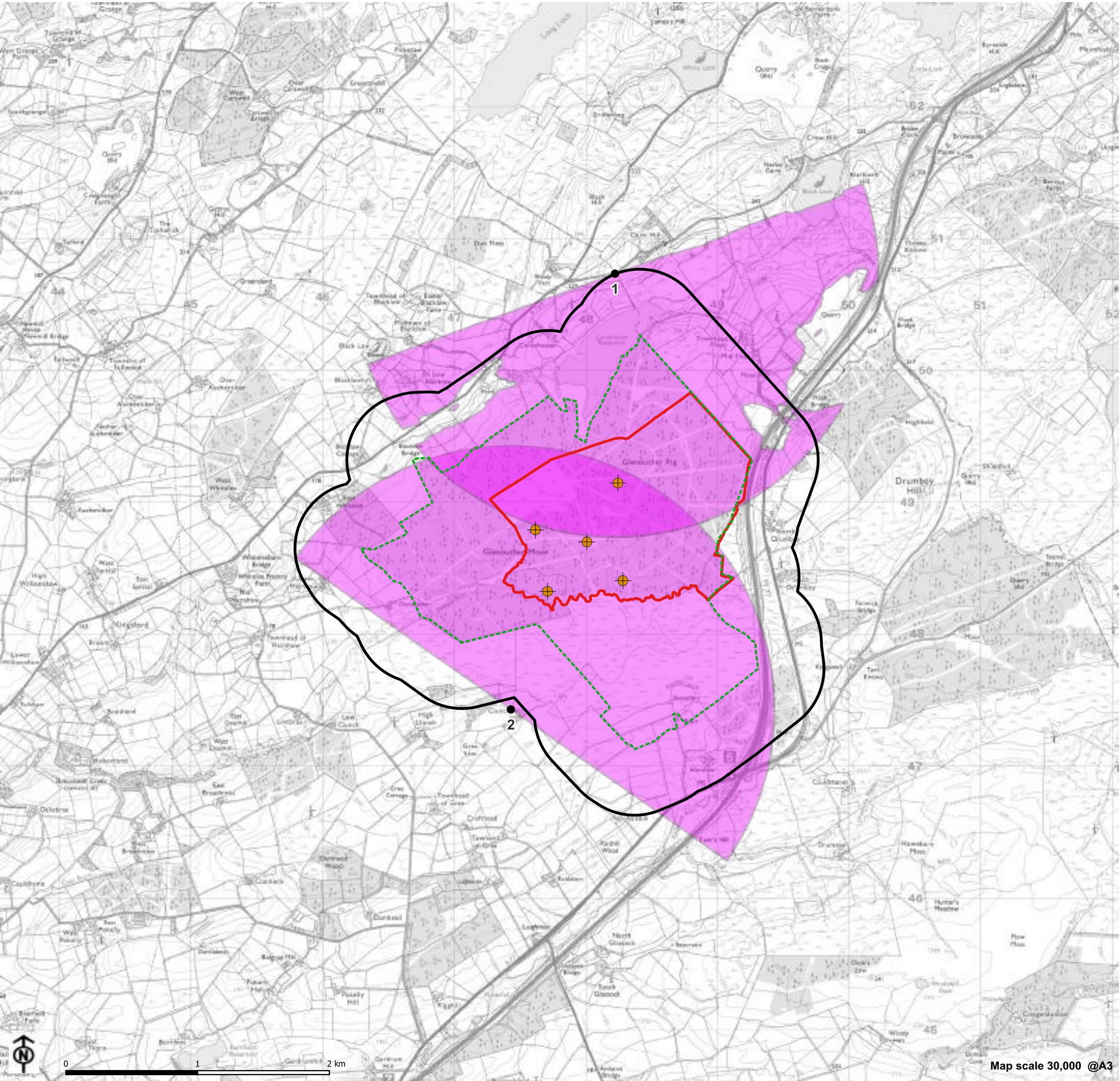


Figure 7.2: Designated sites within 20 km of the Proposed Development

- Site boundary
- 20 km buffer
- Sites of Special Scientific Interest (SSSI)
- Special Protection Areas (SPA)
- Ramsar

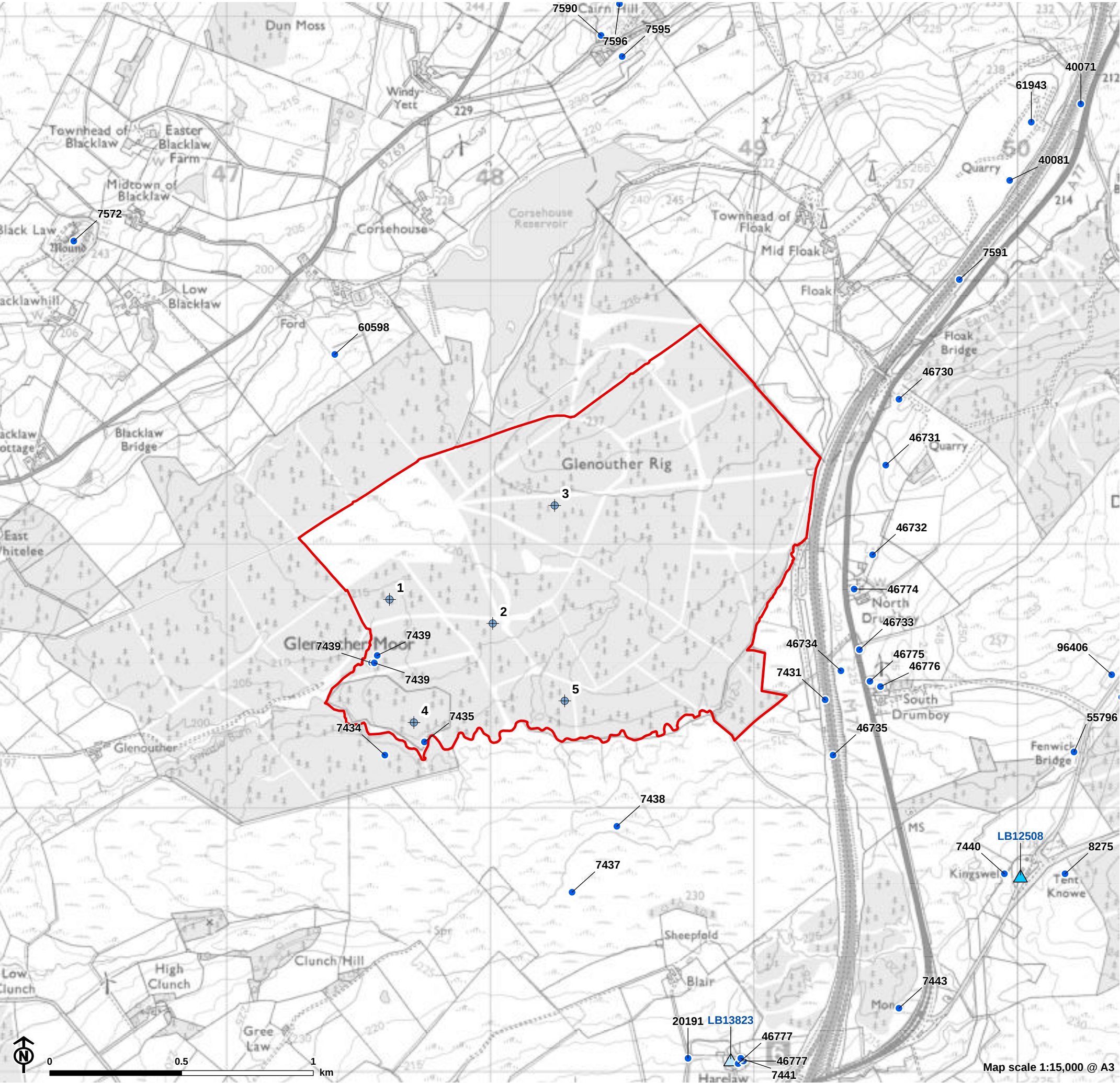
Figure 7.3: Vantage Points and Viewsheds



- Turbine locations
- Site boundary
- Ornithology Study Area
- 500 m buffer
- Vantage Points
- Viewsheds



Figure 8.1: Heritage Assets within the Site



- Site boundary
- West of Scotland Archaeological Service HER data
 - Point
- Designated Heritage Assets
 - Listed Building: Category B
 - Listed Building: Category C



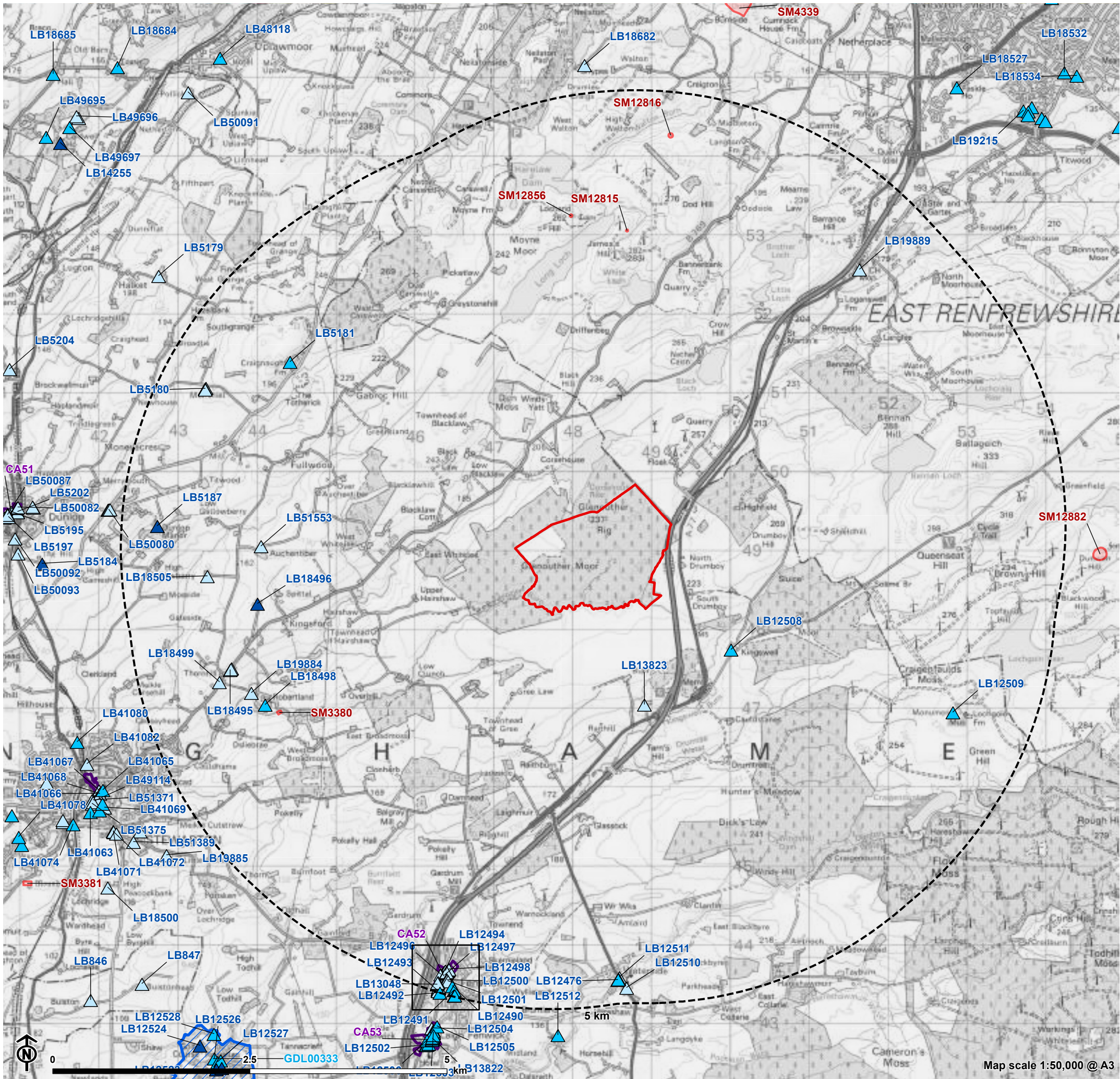


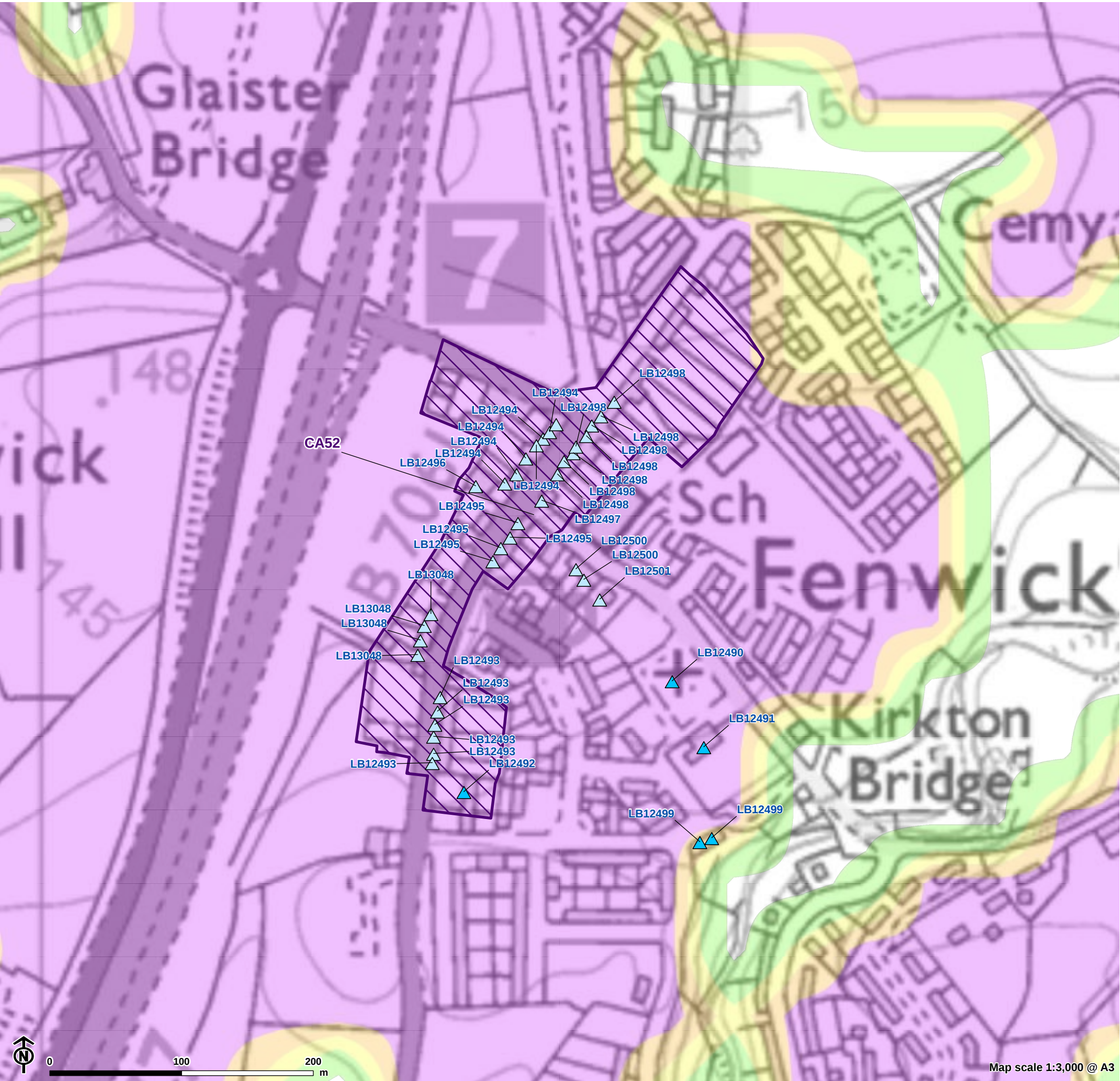
Figure 8.2a: Designated Heritage Assets within the 5 km Inner Study Area

- Site boundary
- 5 km interval from site boundary
- Designated Heritage Assets**
 - Listed Building: Category A
 - Listed Building: Category B
 - Listed Building: Category C
 - Conservation Area (CA)
 - Garden and Designed Landscape (GDL)
 - Scheduled Monument (SM)
- Zone of Theoretical Visibility (turbine blade tip 200 m)**
 - 1- 2 turbine blade tips visible
 - 3 turbine blade tips visible
 - 4 turbine blade tips visible
 - 5 turbine blade tips visible
- Figure 8.2b extent: High Fenwick Conservation Area (CA52)

Note:
The ZTV is calculated to turbine tip height (200 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.4.0 software.



Figure 8.2b: Designated Heritage Assets within the 5 km Inner Study Area - High Fenwick Conservation Area (CA52)



Designated Heritage Assets

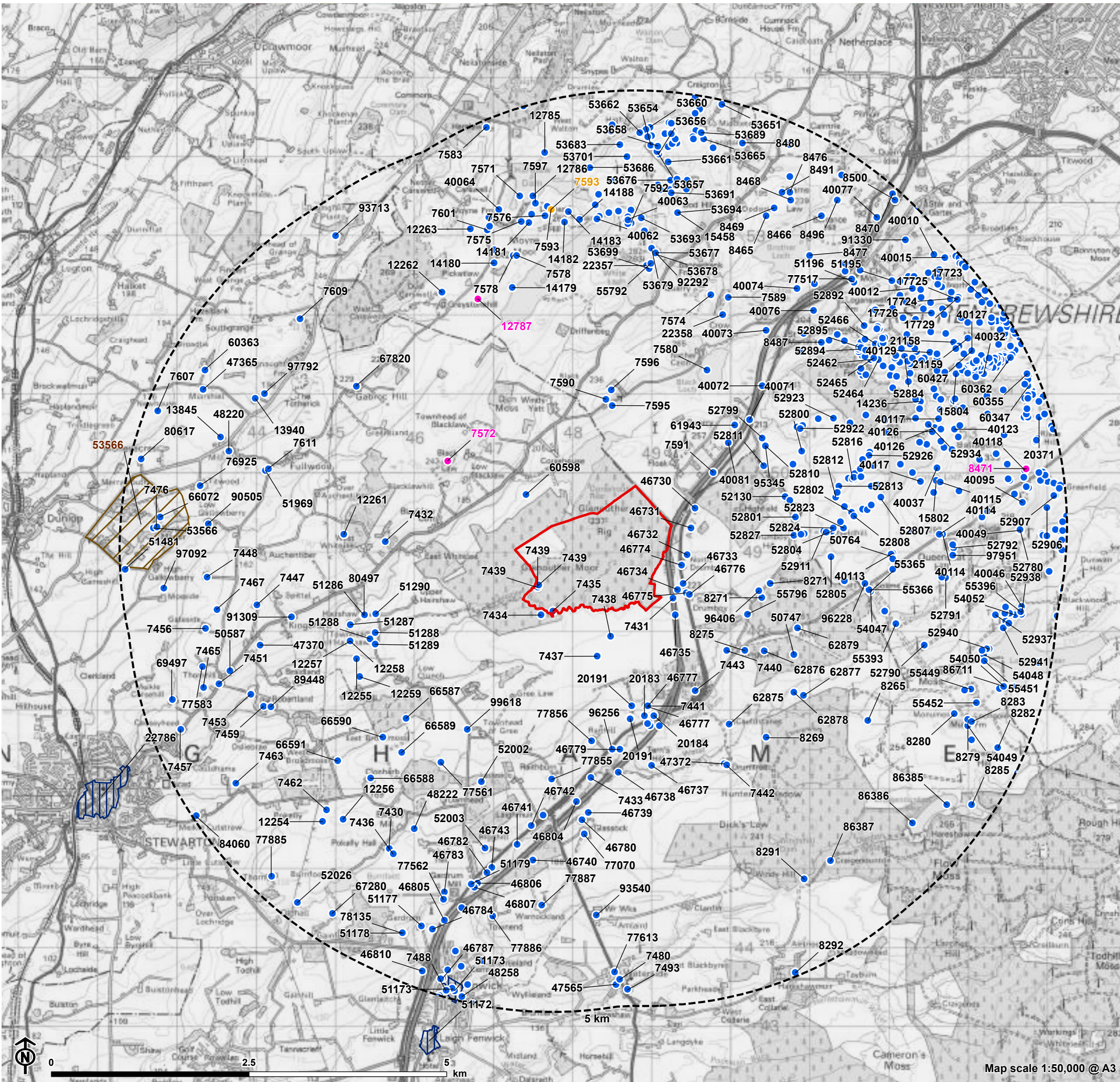
- ▲ Listed Building: Category B
- △ Listed Building: Category C
- ▨ Conservation Area (CA)

Zone of Theoretical Visibility (turbine blade tip 200 m)

- 1- 2 turbine blade tips visible
- 3 turbine blade tips visible
- 4 turbine blade tips visible
- 5 turbine blade tips visible

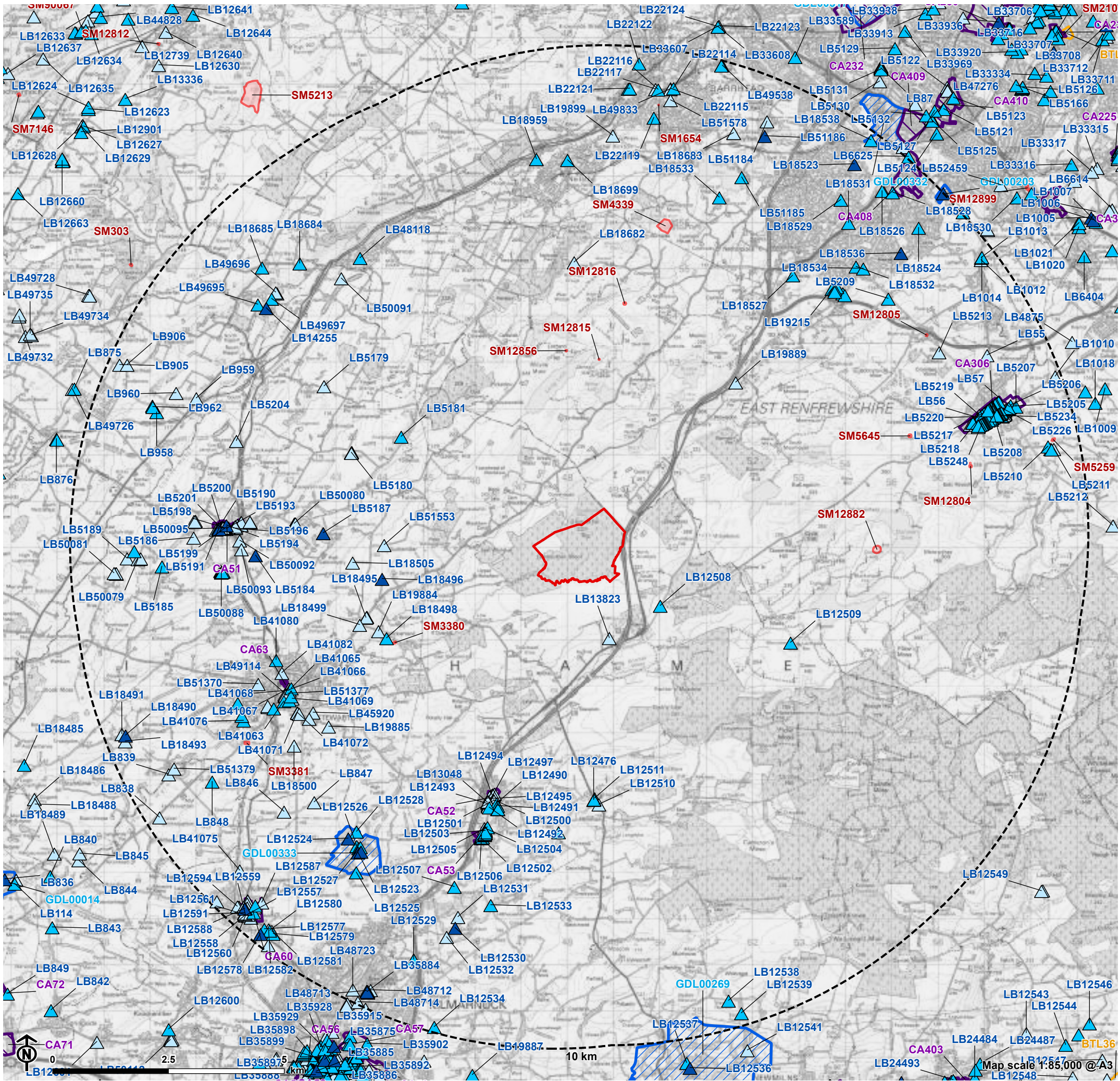
Note:
The ZTV is calculated to turbine tip height (200 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.4.0 software.

Figure 8.3: Non-designated Heritage Assets within the 5 km Inner Study Area



Note:
The ZTV is calculated to turbine tip height (200 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.4.0 software.

Figure 8.4: Designated Heritage Assets within the 10 km
Outer Study Area



Site boundary

10 km interval from site boundary

Designated Heritage Assets

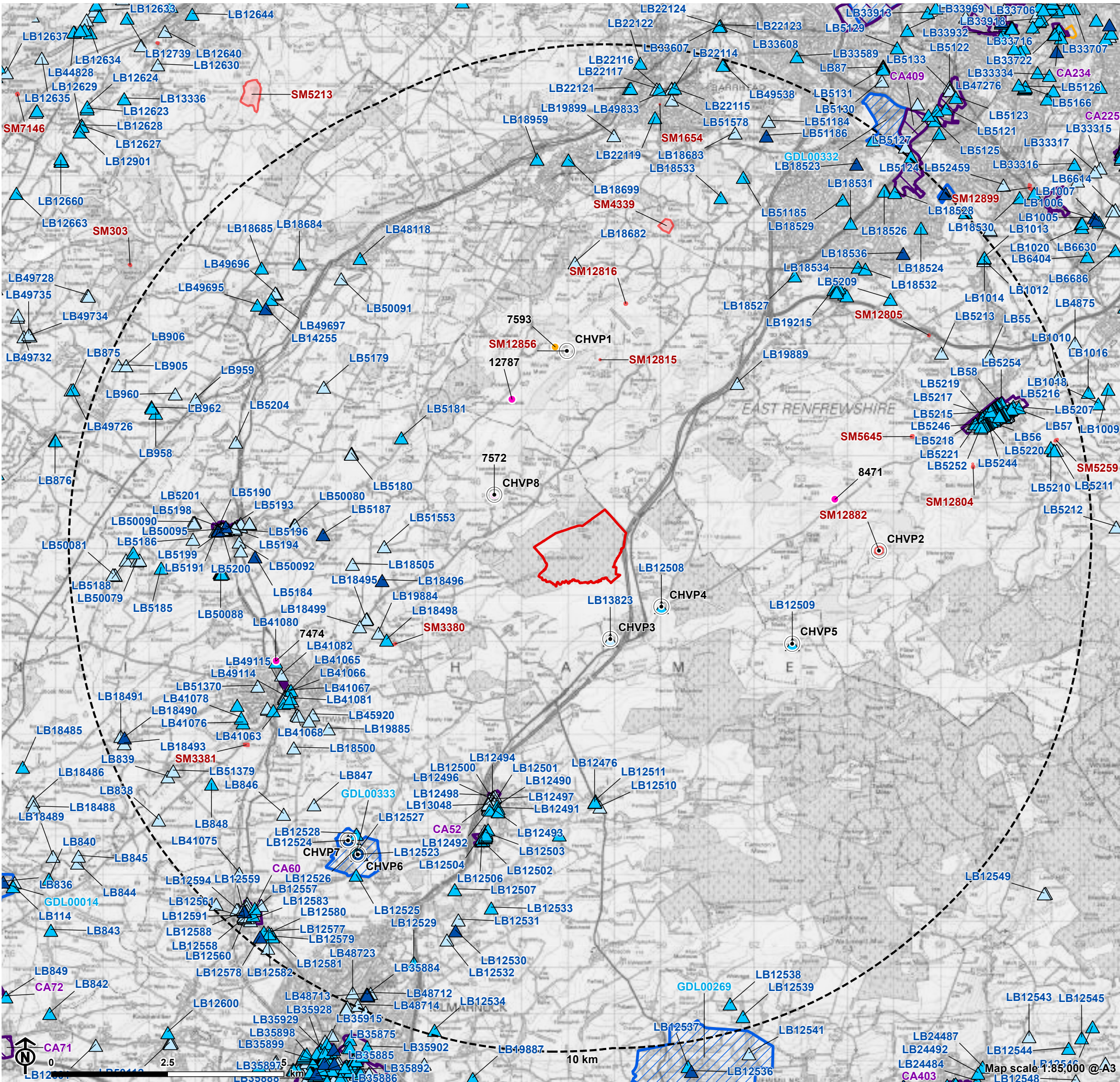
- ▲ Listed Building: Category A
- ▲ Listed Building: Category B
- ▲ Listed Building: Category C
- ▭ Conservation Area (CA)
- ▭ Garden and Designed Landscape (GDL)
- ▭ Inventory Historic Battlefield (BTL)
- ▭ Scheduled Monument (SM)

Zone of Theoretical Visibility (turbine blade tip 200 m)

- 1- 2 turbine blade tips visible
- 3 turbine blade tips visible
- 4 turbine blade tips visible
- 5 turbine blade tips visible

Note:
The ZTV is calculated to turbine tip height (200 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.4.0 software.

Figure 8.5: Proposed Cultural Heritage Visualisation Locations



- Site boundary
- 5 km interval from site boundary
- West of Scotland Archaeological Service HER data within 5km**
- Non-designated asset of probable national importance
 - Non-designated asset almost certainly of national importance
- Designated Heritage Assets**
- Listed Building: Category A
 - Listed Building: Category B
 - Listed Building: Category C
 - Conservation Area (CA)
 - Garden and Designed Landscape (GDL)
 - Inventory Historic Battlefield (BTL)
 - Scheduled Monument (SM)
- Zone of Theoretical Visibility (turbine blade tip 200 m)**
- 1- 2 turbine blade tips visible
 - 3 turbine blade tips visible
 - 4 turbine blade tips visible
 - 5 turbine blade tips visible
 - Viewpoint

Note:
The ZTV is calculated to turbine tip height (200 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.4.0 software.

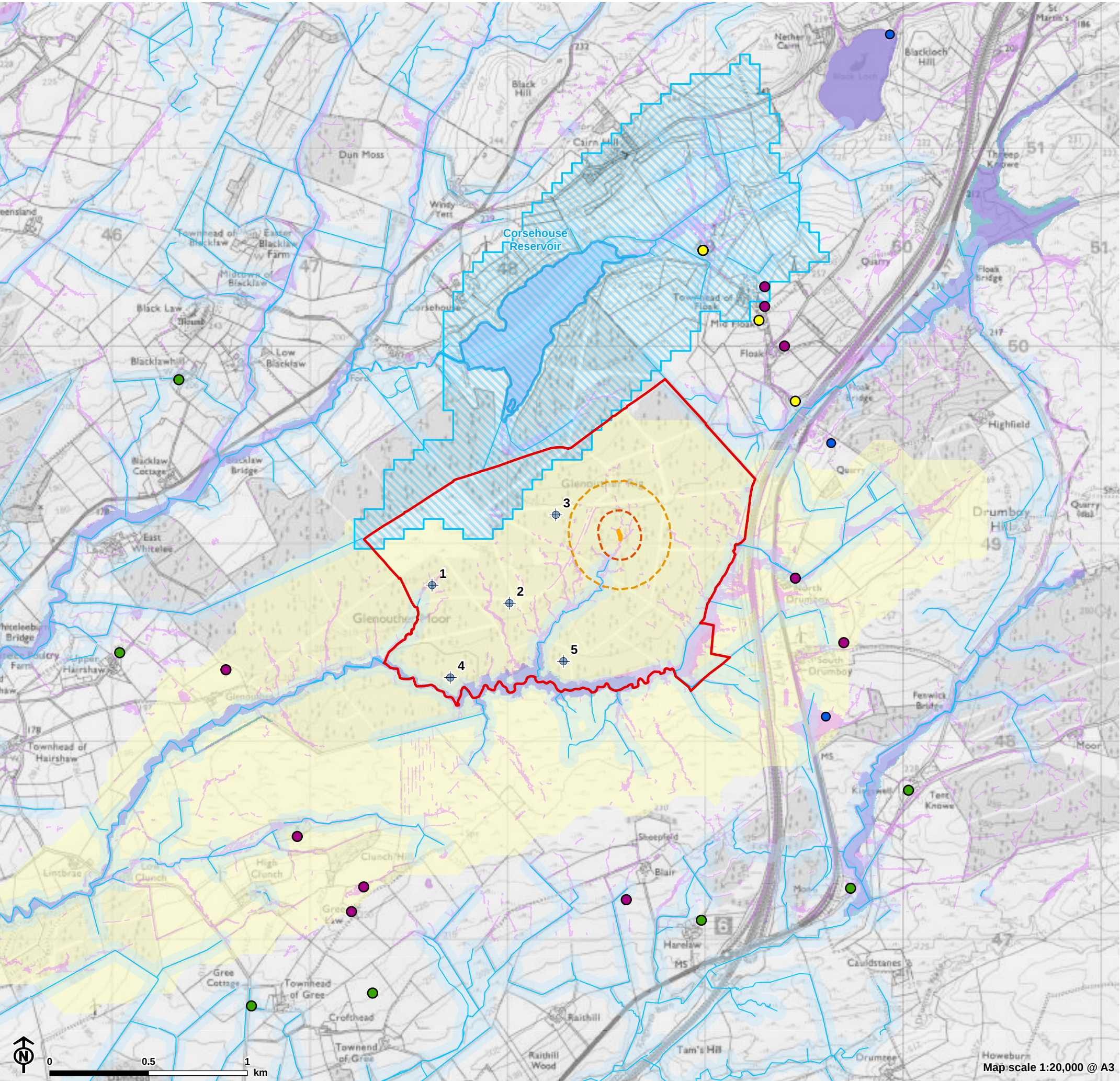


Figure 9.1: Site Overview, Topography and Hydrological Features

- Site boundary
- Turbine
- Hydrological features
 - SEPA licenced abstraction
- Private Water Supply (PWS)
 - East Ayrshire Council PWS data
 - East Renfrewshire Council PWS data
 - 2015 EIA data
- GWDTE identified by hydrology surveys
 - Moderately dependent GWDTE (low ecological importance)
 - GWDTE 100 m buffer
 - GWDTE 250 m buffer
- Watercourse and catchment
 - Watercourse
 - Watercourse/waterbody 50 m buffer
 - Drinking Water Protected Area (DWPA) (surface water)
 - Corsehouse Reservoir
 - Swinzie Burn catchment
- Pluvial and fluvial flood risk
 - SEPA surface water and small watercourses future flood extent (200 year + climate change)
 - SEPA river future flood extent (200 year + climate change)



Figure 9.2: Peat Depths

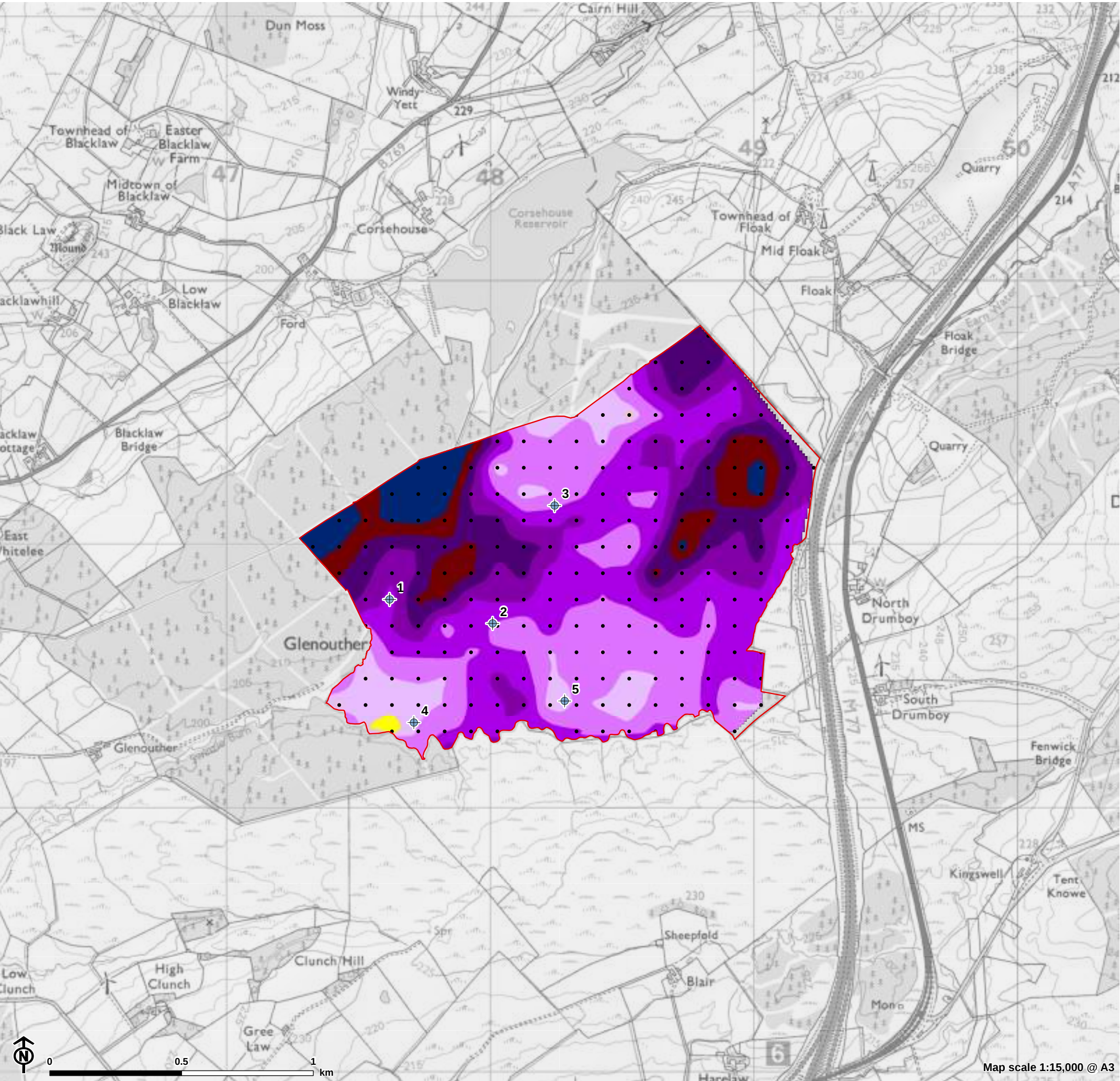


Figure 10.1: Scoped in Noise Sensitive Receptors and Baseline Proposed Measurement Locations

