Figure 5.4: Blade Tip Height (230m) Zone of Theoretical Visibility (ZTV) and Landscape Character Types (LCTs)

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 20km LVIA Study Area from outermost turbines

Theoretical blade tip visibility (turbine blade tip height 230m)

- 1 - 2 turbines visible
- 3 - 4 turbines visible
- 5 - 6 turbines visible
- 7 - 9 turbines visible
- Landscape Character Area - NatureScot (2019)

0: Urban
90: Dissected Plateau Moorland
91: Plateau Grassland - Borders
92: Plateau Outliers
93: Southern Uplands with Scattered Forest - Borders
94: Rolling Moorland
95: Southern Uplands - Borders
99: Rolling Farmland - Borders
102: Upland Fringe with Prominent Hills
103: Undulating Upland Fringe
104: Upland Fringe Rough Grassland
113: Upland Valley with Pastoral Floor
114: Pastoral Upland Valley
115: Upland Valley with Mixed Farmland
116: Upland Valley with Woodland
118: Settled Upland Fringe Valley
201: Plateau Farmland - Glasgow & Clyde Valley
208: Broad Valley Upland
210: Undulating Farmland and Hills
212: Moorland Hills - Glasgow & Clyde Valley
266: Plateau Moorland - Lothians
267: Plateau Grassland - Lothians
268: Upland Hills - Lothians
269: Upland Fringes - Lothians
270: Lowland River Valleys - Lothians
271: Lowland River Corridors - Lothians
272: Lowland Hills and Ridges - Lothians
274: Lowland Plain
275: Lowland Farmed Plain - Lothians

Note:
The ZTV illustrates the extent of visibility of the proposed Bowbeat Wind Farm Repowering (turbine blade tip height 230m). Visibility is shown to a distance of 20km from the outermost turbines in all directions. The ZTV is calculated to turbine blade tip height from a viewing height of 2m above ground level. The terrain model derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2026). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.6.1 software.

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Figure 5.5a: Blade Tip Height (230m) Zone of Theoretical Visibility (ZTV), Designated Landscapes and Wild Land

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 45km LVIA Study Area from outermost turbines
- National Scenic Area (NSA)
- Special Landscape Area (SLA)/ Local Landscape Area (LLA)
- Regional Scenic Area (RSA)
- Wild Land Area (WLA)

Theoretical blade tip visibility (turbine blade tip height 230m)

- 1 - 2 turbines visible
- 3 - 4 turbines visible
- 5 - 6 turbines visible
- 7 - 9 turbines visible

Note:
The ZTV illustrates the extent of visibility of the proposed Bowbeat Wind Farm Repowering (turbine blade tip height 230m). Visibility is shown to a distance of 45km from the outermost turbines in all directions. The ZTV is calculated to turbine blade tip height from a viewing height of 2m above ground level. The terrain model derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2026). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.6.1 software.

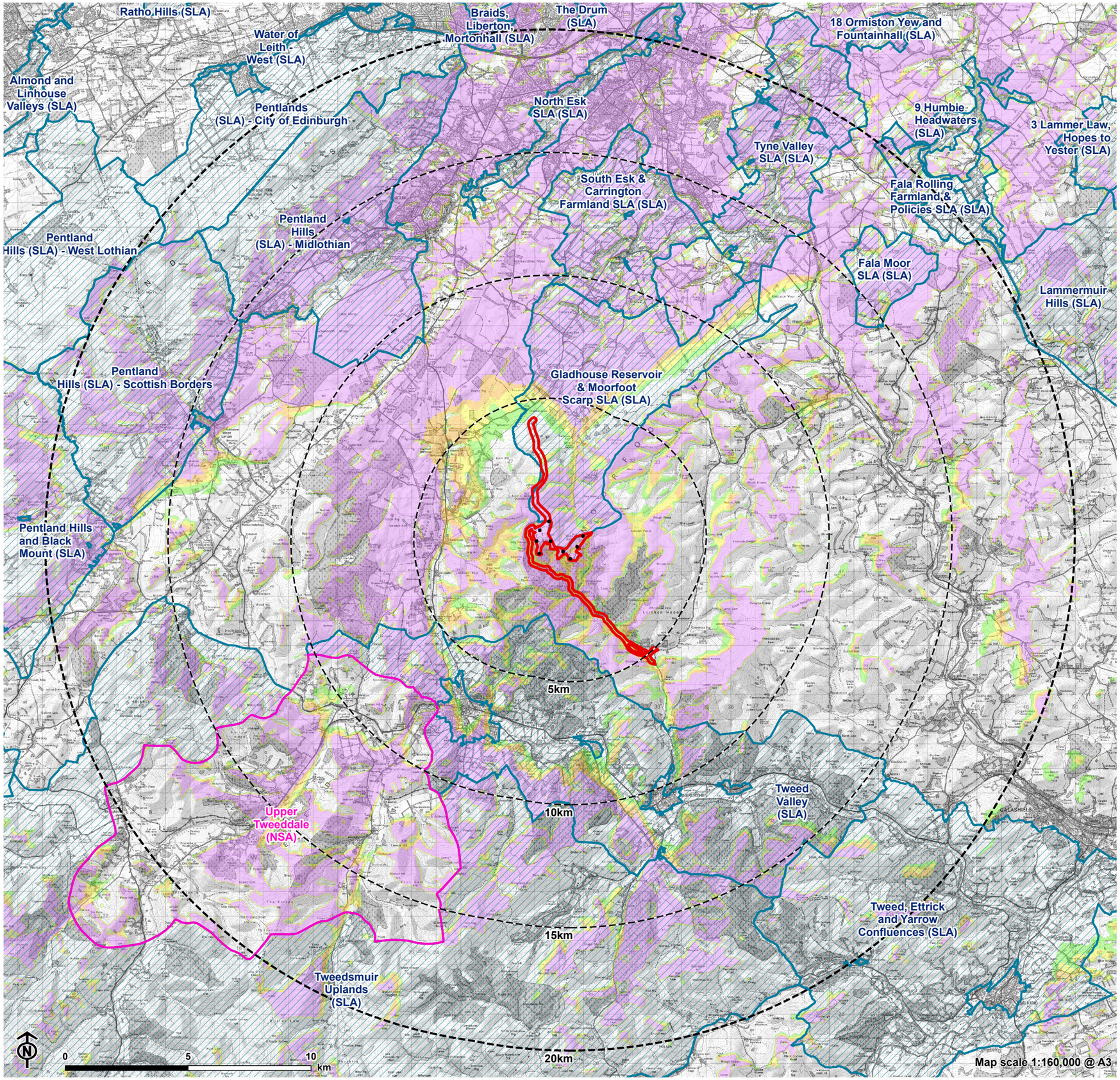
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Figure 5.5b: Blade Tip Height (230m) Zone of Theoretical Visibility (ZTV), Designated Landscapes and Wild Land



- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 20km LVIA Study Area from outermost turbines
- National Scenic Area (NSA)
- Special Landscape Area (SLA)/ Local Landscape Area (LLA)

Theoretical blade tip visibility (turbine blade tip height 230m)

- 1 - 2 turbines visible
- 3 - 4 turbines visible
- 5 - 6 turbines visible
- 7 - 9 turbines visible

Note:
The ZTV illustrates the extent of visibility of the proposed Bowbeat Wind Farm Repowering (turbine blade tip height 230m). Visibility is shown to a distance of 20km from the outermost turbines in all directions. The ZTV is calculated to turbine blade tip height from a viewing height of 2m above ground level. The terrain model derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2026). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.6.1 software.

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LUC | 13117_Scoping : FIG05_05b_13117_r2_Tip_ZTV_DesiLand_WLA_20km_A3L 21/08/2026
Source: Belltown RePower, LUC, NS, SG

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Figure 5.6: Cumulative Developments

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 45km LVIA Study Area from outermost turbines

Wind farm layout (by status)

- Operational
- Under construction
- Consented
- Appeal/public inquiry
- Application submitted

Operational

1: Carcant
2: Falahill Farm
3: Toddleburn
4: Longpark
5: Dun Law - Phase 1
6: Dun Law - Phase 2
7: Pogbie
8: Pogbie Extension
9: Keith Hill
10: Muirhall South
11: Glenkerie
12: Harburnhead
13: Muirhall Extension
14: Muirhall
15: Langhope Rig
16: Pearie Law
17: Pates Hill
18: Fallago Rig
19: Burnhouse - Carnwath
20: Longhill Burn
21: Tormywheel
22: Clyde Extension
23: Covanhill Farm Cluster
24: Black Law Extension Phase 1
25: Black Law
26: Black Law Extension Phase 2
27: West Benhar
28: Crystal Rig - Phase 2a
29: Torrance Farm Extension
30: Clyde
31: Crystal Rig - Phase 2
32: Standhill Farm
33: Cowdenhead
34: Torrance Farm
35: Crystal Rig - Phase 3
36: Crystal Rig - Phase 1a
37: Mossmorran
38: Crystal Rig - Phase 1
39: Crystal Rig - Phase 1
40: Watsonhead Farm
41: Black Hill

Under construction

42: Whitelaw Brae
43: Priestgill
44: Brownhill Farm
45: Crystal Rig - Phase 4

Consented

46: Ditcher Law
47: Camilty
48: Glenkerie Extension
49: Pearie Law II
50: Woolfords Farm
51: Dunside
52: Heathland
53: Tormywheel Extension
54: Gladsmuir
55: Heights

Appeal/public inquiry

56: Greystone Knowe
57: Wull Muir
58: Oliver Forest
59: Lees Hill Energy Park

Application submitted

60: Leithenwater Wind Energy Hub
61: Cloich Forest
62: Torfichen
63: Scawd Law
64: Glenburnie (formerly Longcroft)
65: Grayside
66: Newlands Hill
67: Mid Hill
68: Crystal Rig I Repower
69: M74 West Renewable Energy Park
70: Bodinglee

Note:
Wind farm developments within 45km search area based on information available to LUC on 24/07/2026.

Map scale 1:350,000 @ A3

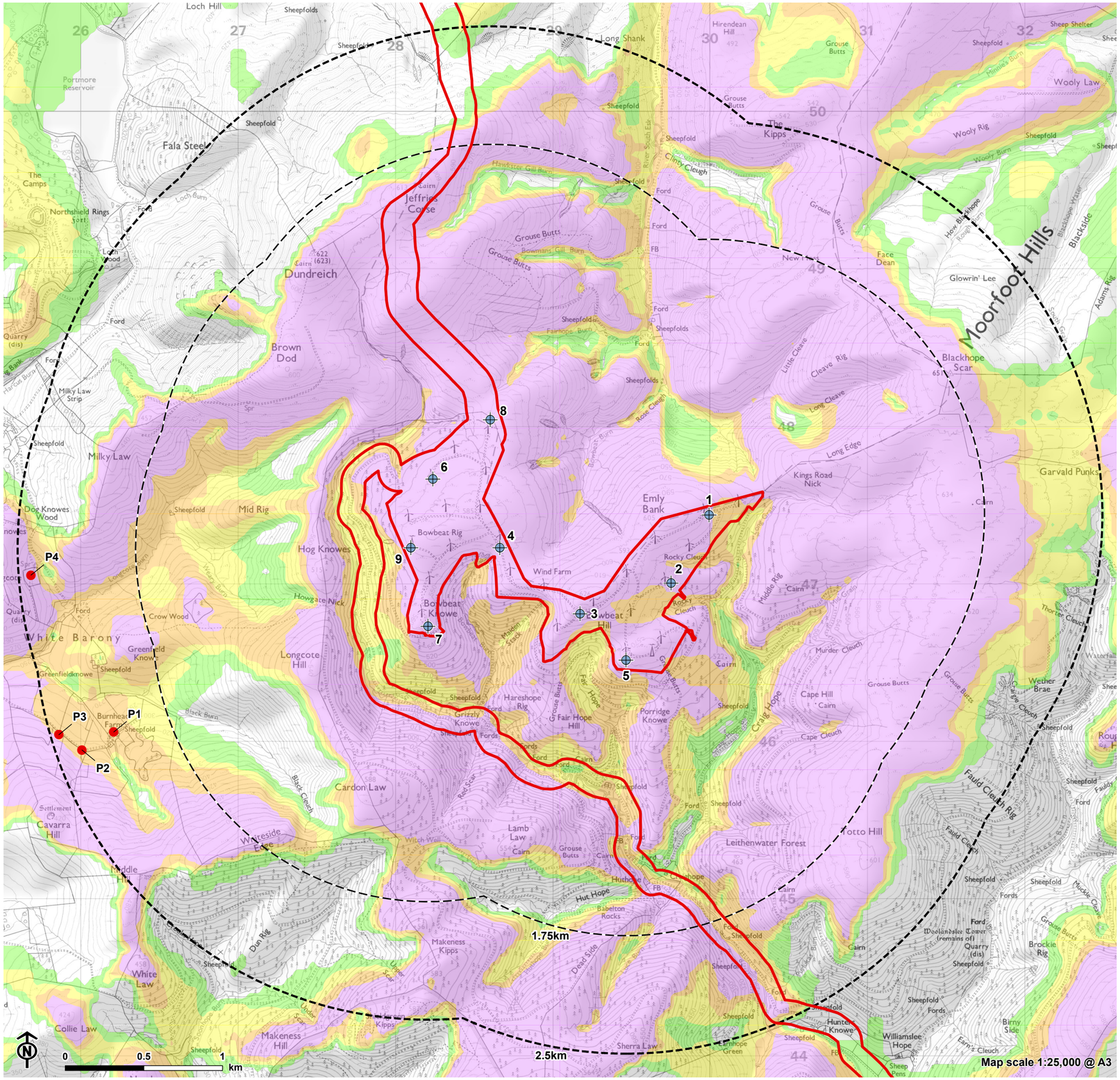
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Figure 5.7: Residential Properties



- Site boundary
- Turbine
- 2.5km from outermost turbines
- Shadow Flicker study area (x10 rotor diameter - 1,750m)
- Residential property within 2.5km of outermost turbines
  - P1: Burnhead Farmhouse
  - P2: Burnhead Cottage
  - P3: Netherby
  - P4: Longcote

Theoretical blade tip visibility (turbine blade tip height 230m)

- 1 - 2 turbines visible
- 3 - 4 turbines visible
- 5 - 6 turbines visible
- 7 - 9 turbines visible

Note:
The ZTV illustrates the extent of visibility of the proposed Bowbeat Wind Farm Repowering (turbine blade tip height 230m). Visibility is shown to a distance of 2.5km from the outermost turbines in all directions. The ZTV is calculated to turbine blade tip height from a viewing height of 2m above ground level. The terrain model derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2026). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.6.1 software.

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