

# Quantans Hill Wind Farm

## Volume 2b - LVIA Figures only

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**PREFACE**

An Environmental Impact Assessment Report (EIAR) has been prepared in support of an application submitted by Natural Power Consultants Limited (Natural Power) on behalf of the Applicant (Vattenfall Wind Power Ltd). The application seeks consent under Section 36 of the Electricity Act 1989 and the EIAR has been prepared in accordance with the Electricity Works (Environmental Impact Assessment) (Scotland) Amendment Regulations 2017. The application also seeks a direction under Section 57(2) of the Town and Country Planning (Scotland) Act 1997 as amended that planning permission for the development be deemed to be granted. This EIAR contains the information carried out for the Environmental Impact Assessment to develop a wind farm comprising of up to fourteen wind turbines and associated infrastructure (the Proposed Development). The Proposed Development is located in Dumfries & Galloway local authority area.

The Electricity Works (Miscellaneous Temporary Modifications) (Coronavirus) (Scotland) Regulations 2020 (“the Temporary Regs”) came into effect on 24 April 2020. These Regulations are temporary and were due to expire on 30 September 2020. However, these safeguards will now continue to be in place for the duration of the extension period, with the expiry date of the Scottish Acts by this Bill, to 30 September 2022.

Copies of the EIAR may also be obtained from Vattenfall Wind Power Ltd at a charge of £1,400 per hard copy. Copies of Non-Technical Summary and USB format of entire application are available free of charge upon request.

- This is **Volume 2b of the EIAR** which presents the Technical Figures associated with EIAR Chapter 5.
- Volume 1 of the EIAR presents the 15 Chapters of the EIAR.
- Volume 2a of the EIAR presents the technical Figures associated with the EIAR Chapters except for Chapter 5 (Landscape & Visual Impact Assessment)
- Volume 2c of the EIAR presents the Visualisations produced for EIAR Chapters 5 and 9 (Landscape & Visual Impact Assessment and Cultural Heritage).
- Volume 3 presents the Technical Appendices associated with the EIAR Chapters.
- Volume 4 of the EIAR presents the Non-Technical Summary.

In addition to the EIAR, the application is also supplemented by accompanying documents including:

- Planning, Design & Access Statement,
- Pre-Application Consultation (PAC) Report.

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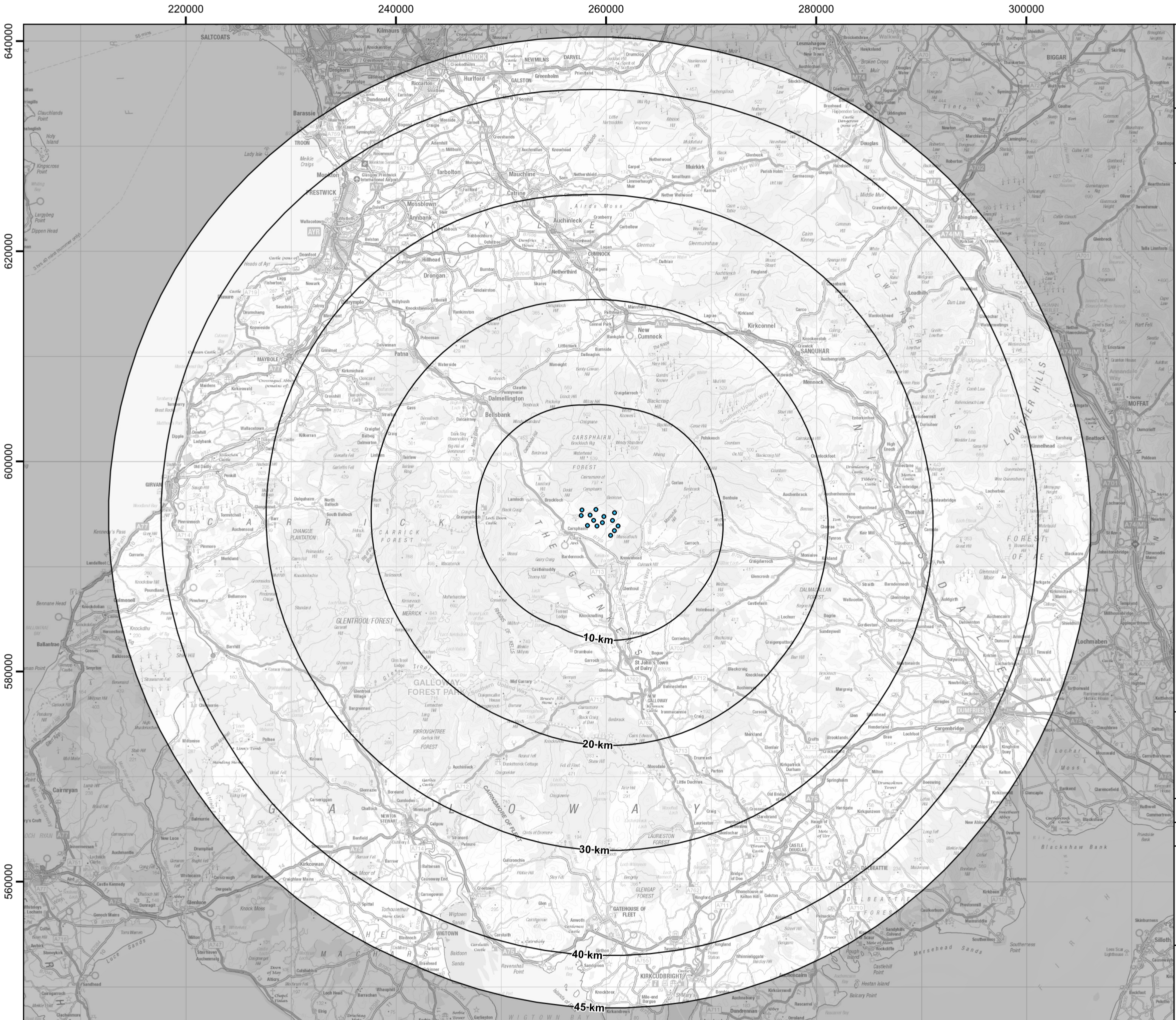
**EIA Quality Mark**

for the registration period covering

18<sup>th</sup> April 2022 – 17<sup>th</sup> April 2023\*

\*Subject to meeting the requirements of registration





Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.1: LVIA Study Area**

Key

- Proposed turbine
- Distance from outermost turbines

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Scale @ A3: 1:360,000  
Coordinate System: British National Grid

0 5 10 15 20 km

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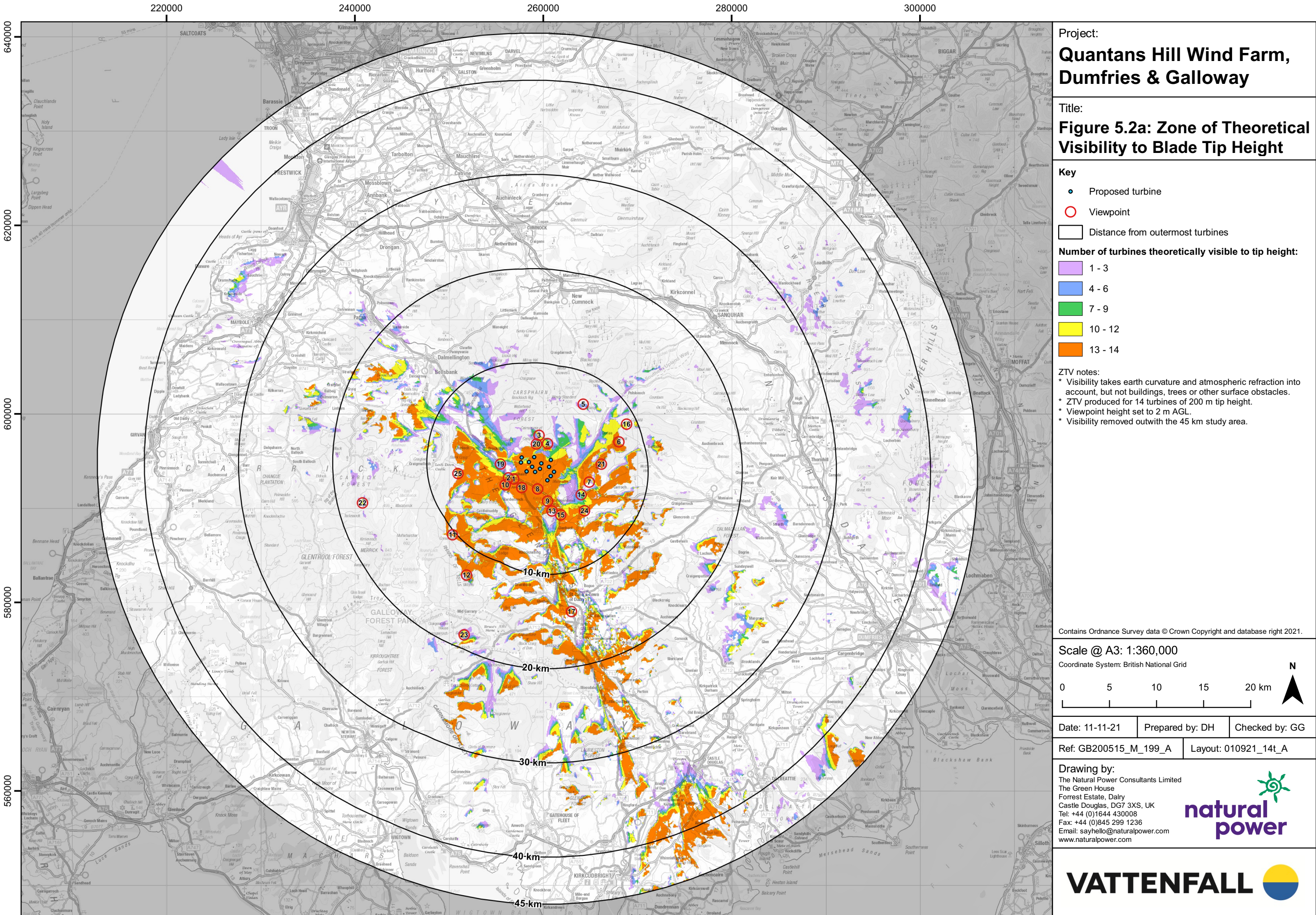
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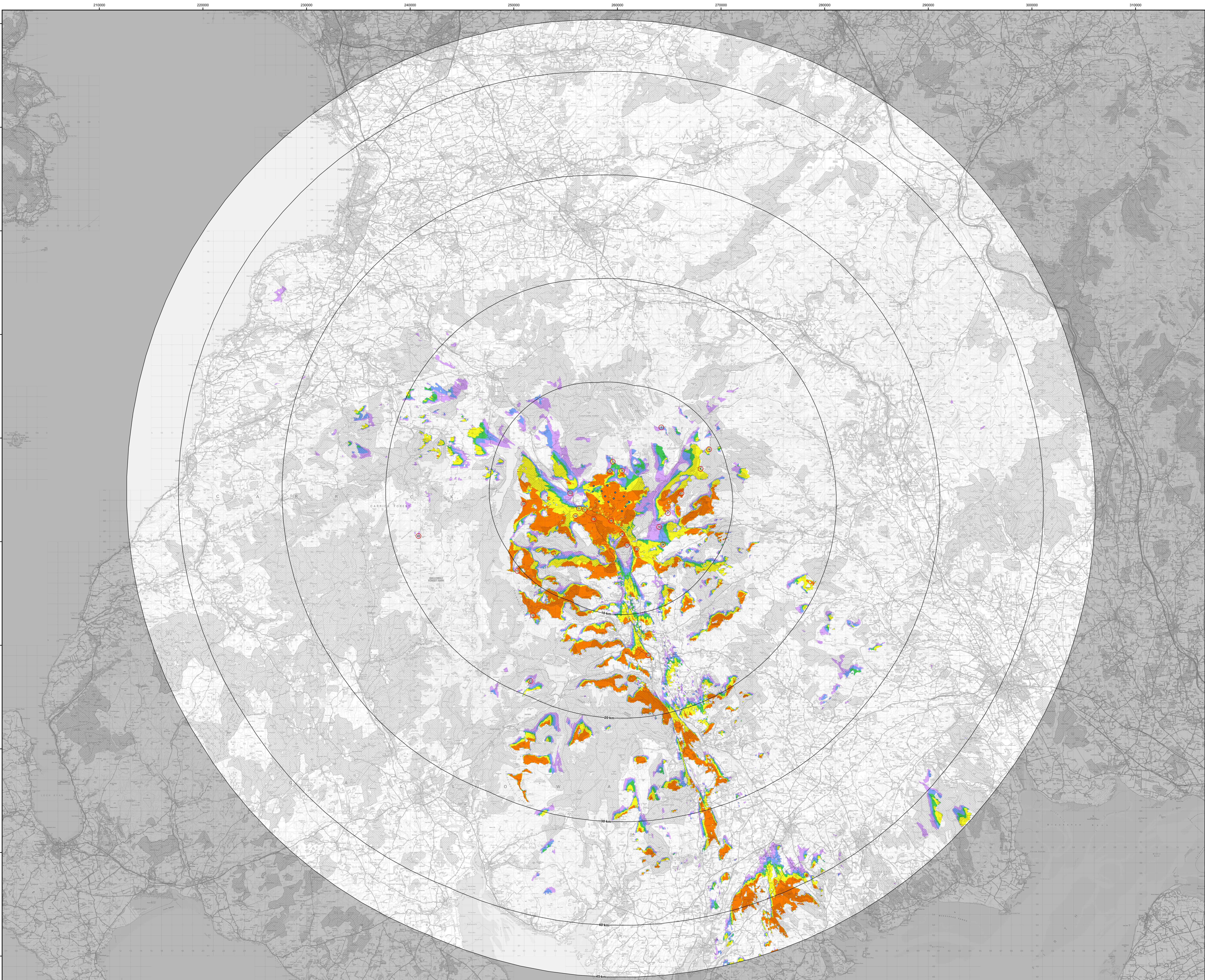
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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.2b: Zone of Theoretical  
Visibility to Blade Tip Height**

**Key**

- Proposed turbine
- Viewpoint
- Distance from outermost turbines

Number of turbines theoretically visible to tip height:

- 1 - 3
- 4 - 6
- 7 - 9
- 10 - 12
- 13 - 14

**ZTV notes:**

- Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- ZTV produced for 14 turbines of 200 m tip height.
- Visibility removed beyond 45 km study area.
- Viewpoint height set to 2 m AGL.

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**Scale @ A0: 1:120,000**  
Coordinate System: British National Grid

0 2 4 6 8 10 km

Date: 11-11-21 Prepared by: DH Checked by: GG

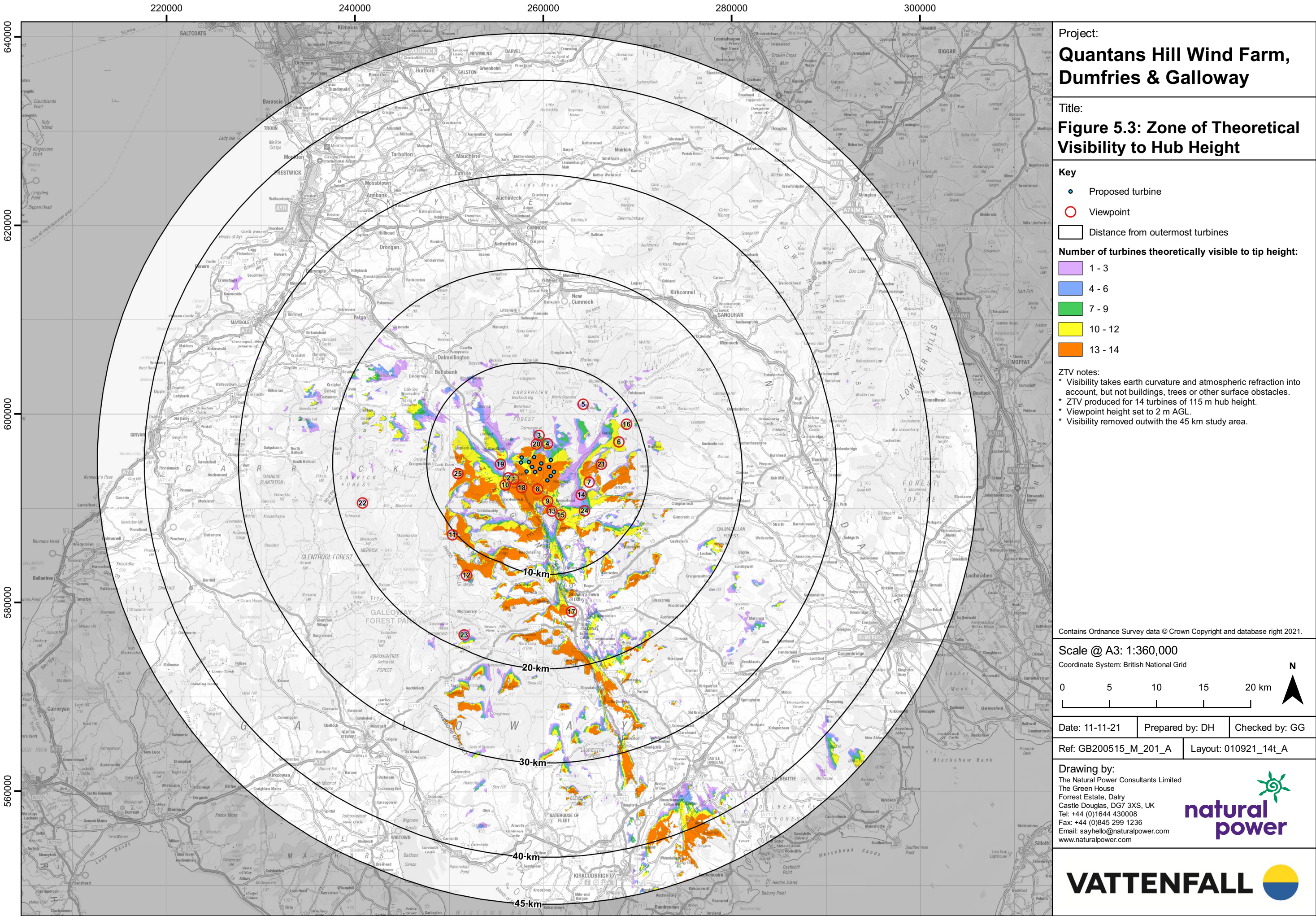
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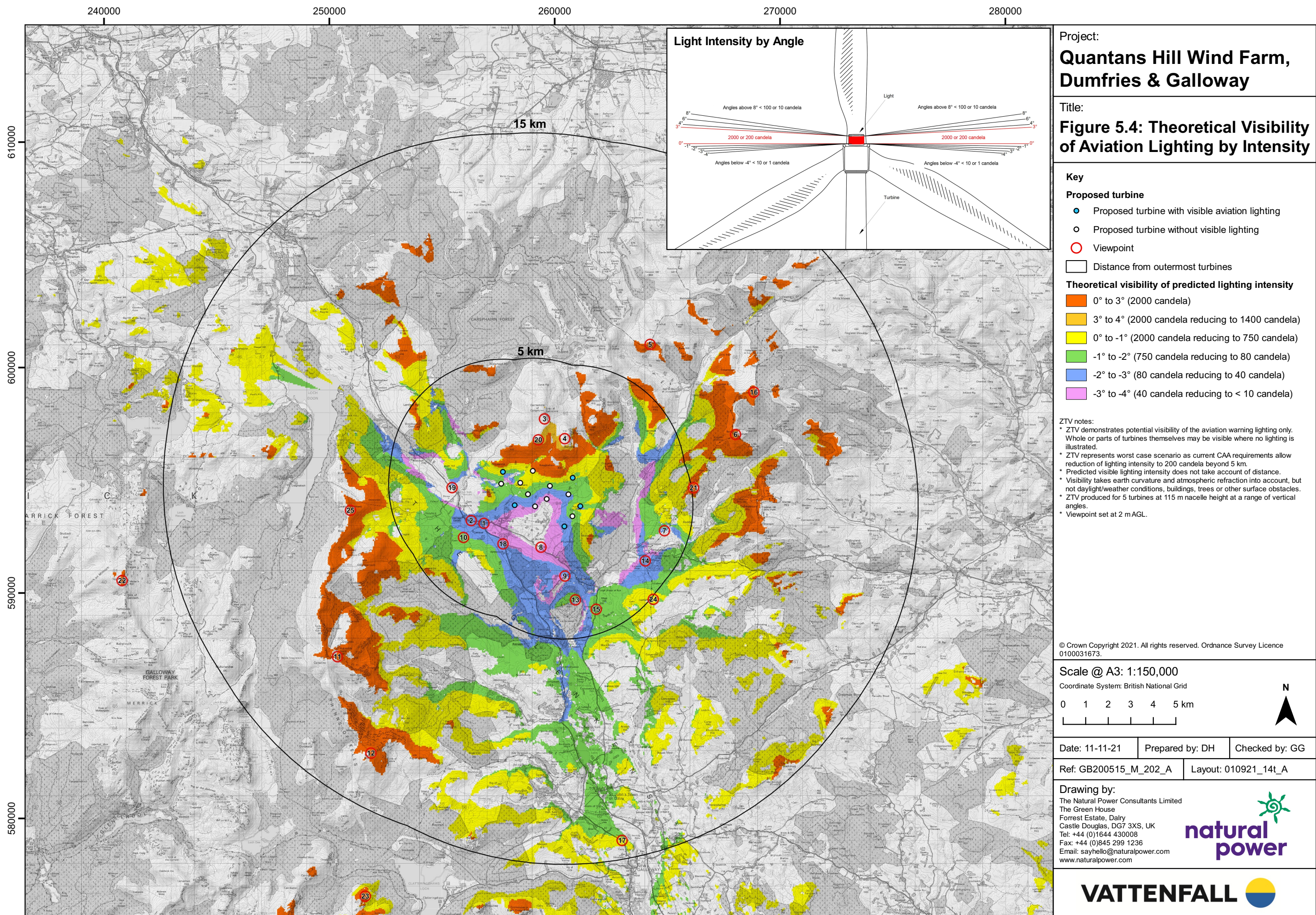
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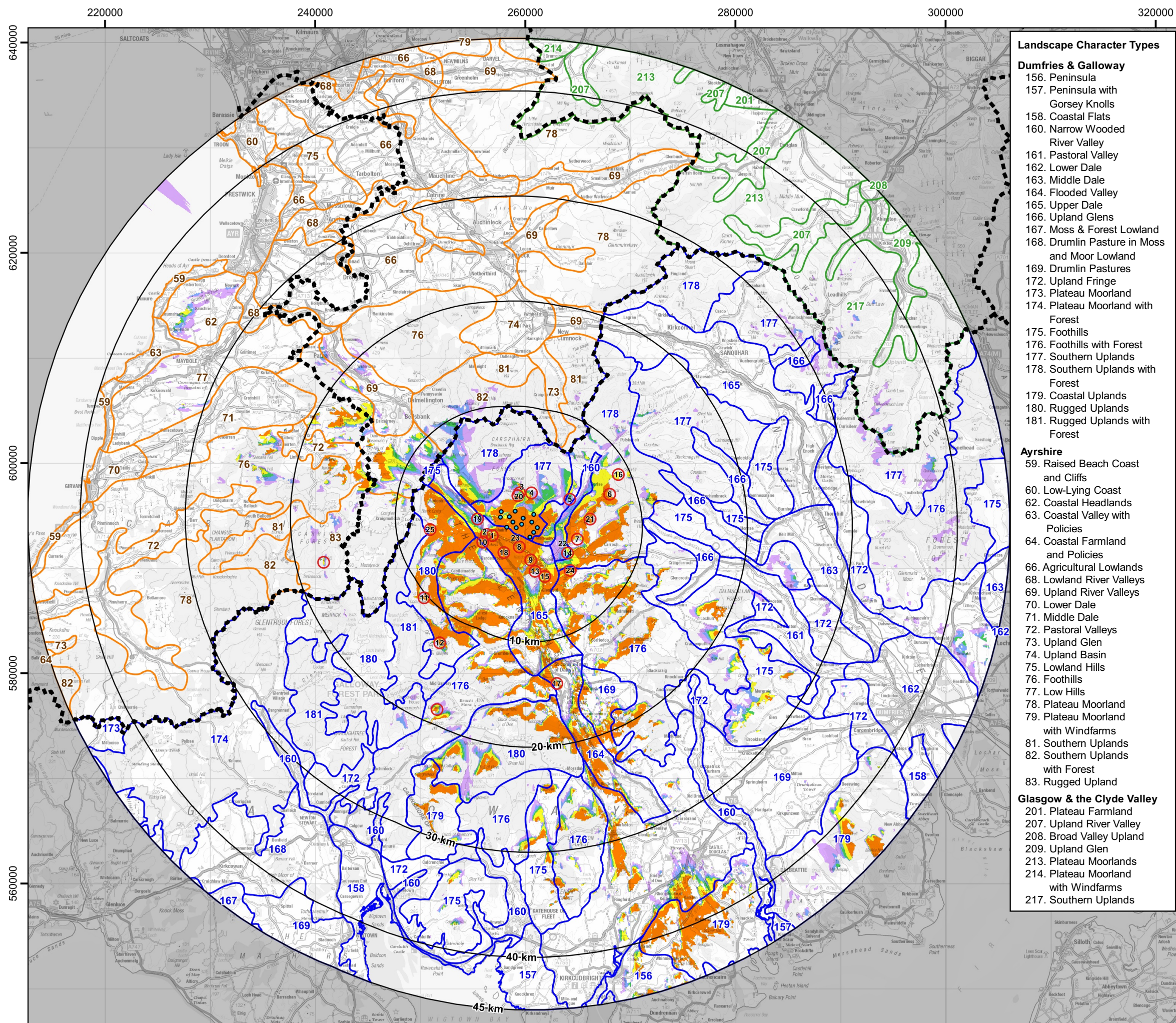
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- Landscape Character Types**
- Dumfries & Galloway**
- 156. Peninsula
  - 157. Peninsula with Gorsey Knolls
  - 158. Coastal Flats
  - 160. Narrow Wooded River Valley
  - 161. Pastoral Valley
  - 162. Lower Dale
  - 163. Middle Dale
  - 164. Flooded Valley
  - 165. Upper Dale
  - 166. Upland Glens
  - 167. Moss & Forest Lowland
  - 168. Drumlin Pasture in Moss and Moor Lowland
  - 169. Drumlin Pastures
  - 172. Upland Fringe
  - 173. Plateau Moorland
  - 174. Plateau Moorland with Forest
  - 175. Foothills
  - 176. Foothills with Forest
  - 177. Southern Uplands
  - 178. Southern Uplands with Forest
  - 179. Coastal Uplands
  - 180. Rugged Uplands
  - 181. Rugged Uplands with Forest
- Ayrshire**
- 59. Raised Beach Coast and Cliffs
  - 60. Low-Lying Coast
  - 62. Coastal Headlands
  - 63. Coastal Valley with Policies
  - 64. Coastal Farmland and Policies
  - 66. Agricultural Lowlands
  - 68. Lowland River Valleys
  - 69. Upland River Valleys
  - 70. Lower Dale
  - 71. Middle Dale
  - 72. Pastoral Valleys
  - 73. Upland Glen
  - 74. Upland Basin
  - 75. Lowland Hills
  - 76. Foothills
  - 77. Low Hills
  - 78. Plateau Moorland
  - 79. Plateau Moorland with Windfarms
  - 81. Southern Uplands
  - 82. Southern Uplands with Forest
  - 83. Rugged Upland
- Glasgow & the Clyde Valley**
- 201. Plateau Farmland
  - 207. Upland River Valley
  - 208. Broad Valley Upland
  - 209. Upland Glen
  - 213. Plateau Moorlands
  - 214. Plateau Moorland with Windfarms
  - 217. Southern Uplands

Project:  
**Quantans Hill Wind Farm, Dumfries & Galloway**

Title:  
**Landscape Character Types**

**Key**

- Proposed turbine
- Viewpoint
- Distance from outmost turbine

**Landscape Character Area**

- Dumfries & Galloway
- Ayrshire
- Glasgow & the Clyde Valley

**Number of turbines theoretically visible to tip height:**

- 1 - 3
- 4 - 6
- 7 - 9
- 10 - 12
- 13 - 14

ZTV notes:  
\* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.  
\* ZTV produced for 14 turbines of 200 m tip height.  
\* Viewpoint height set to 2 m AGL.  
\* Visibility removed outwith the 45 km study area.

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Coordinate System: British National Grid

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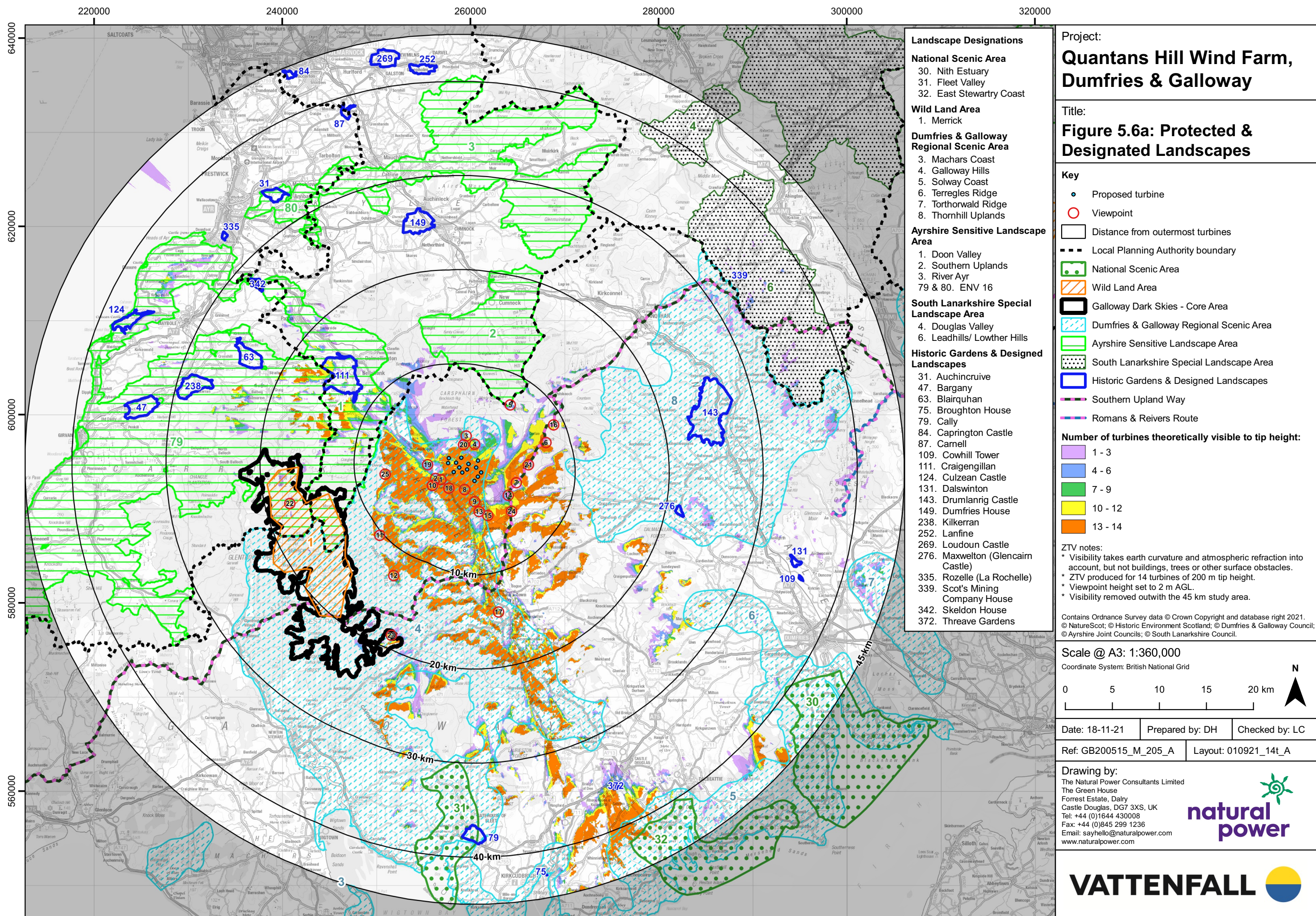
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- Landscape Designations**
- National Scenic Area**
- 30. Nith Estuary
  - 31. Fleet Valley
  - 32. East Stewartry Coast
- Wild Land Area**
- 1. Merrick
- Dumfries & Galloway Regional Scenic Area**
- 3. Machars Coast
  - 4. Galloway Hills
  - 5. Solway Coast
  - 6. Terregles Ridge
  - 7. Torthorwald Ridge
  - 8. Thornhill Uplands
- Ayrshire Sensitive Landscape Area**
- 1. Doon Valley
  - 2. Southern Uplands
  - 3. River Ayr
  - 79 & 80. ENV 16
- South Lanarkshire Special Landscape Area**
- 4. Douglas Valley
  - 6. Leadhills/ Lowther Hills
- Historic Gardens & Designed Landscapes**
- 31. Auchincruive
  - 47. Bargany
  - 63. Blairquhan
  - 75. Broughton House
  - 79. Cally
  - 84. Caprington Castle
  - 87. Carnell
  - 109. Cowhill Tower
  - 111. Craigengillan
  - 124. Culzean Castle
  - 131. Dalswinton
  - 143. Drumlanrig Castle
  - 149. Dumfries House
  - 238. Kilkerran
  - 252. Lanfine
  - 269. Loudoun Castle
  - 276. Maxwellton (Glencairn Castle)
  - 335. Rozelle (La Rochelle)
  - 339. Scot's Mining Company House
  - 342. Skeldon House
  - 372. Threave Gardens

Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.6a: Protected &  
Designated Landscapes**

**Key**

- Proposed turbine
- Viewpoint
- Distance from outermost turbines
- Local Planning Authority boundary
- National Scenic Area
- Wild Land Area
- Galloway Dark Skies - Core Area
- Dumfries & Galloway Regional Scenic Area
- Ayrshire Sensitive Landscape Area
- South Lanarkshire Special Landscape Area
- Historic Gardens & Designed Landscapes
- Southern Upland Way
- Romans & Reivers Route

**Number of turbines theoretically visible to tip height:**

- 1 - 3
- 4 - 6
- 7 - 9
- 10 - 12
- 13 - 14

**ZTV notes:**

- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 turbines of 200 m tip height.
- \* Viewpoint height set to 2 m AGL.
- \* Visibility removed outwith the 45 km study area.

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Coordinate System: British National Grid

0 5 10 15 20 km

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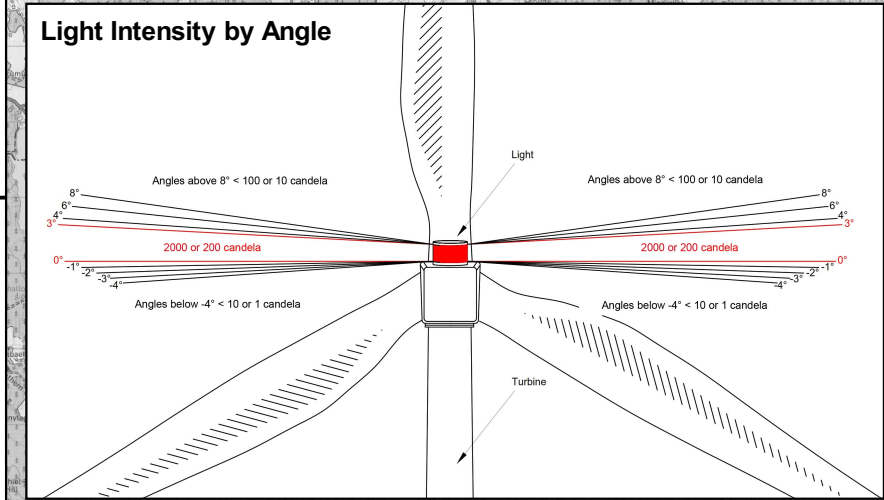
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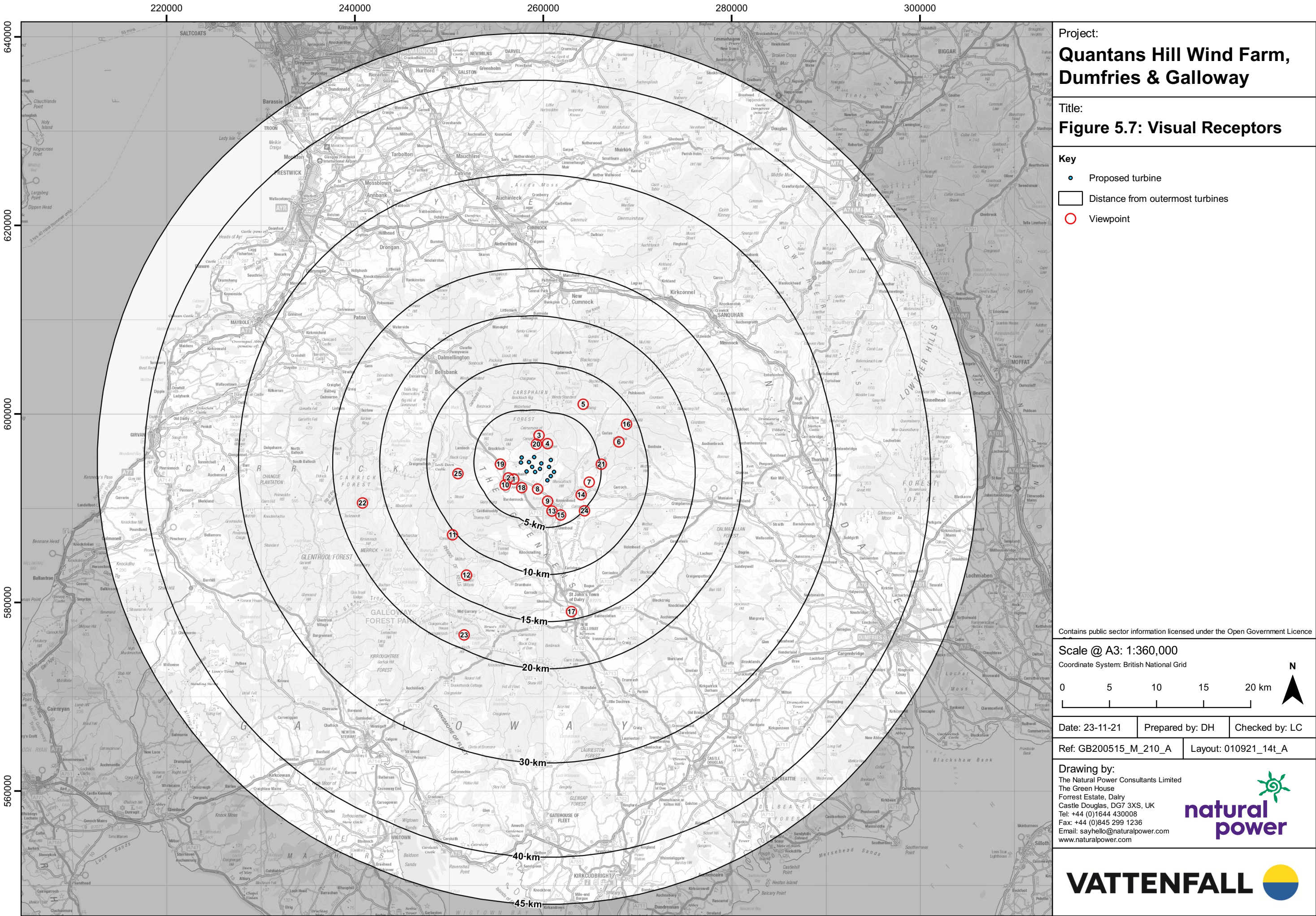
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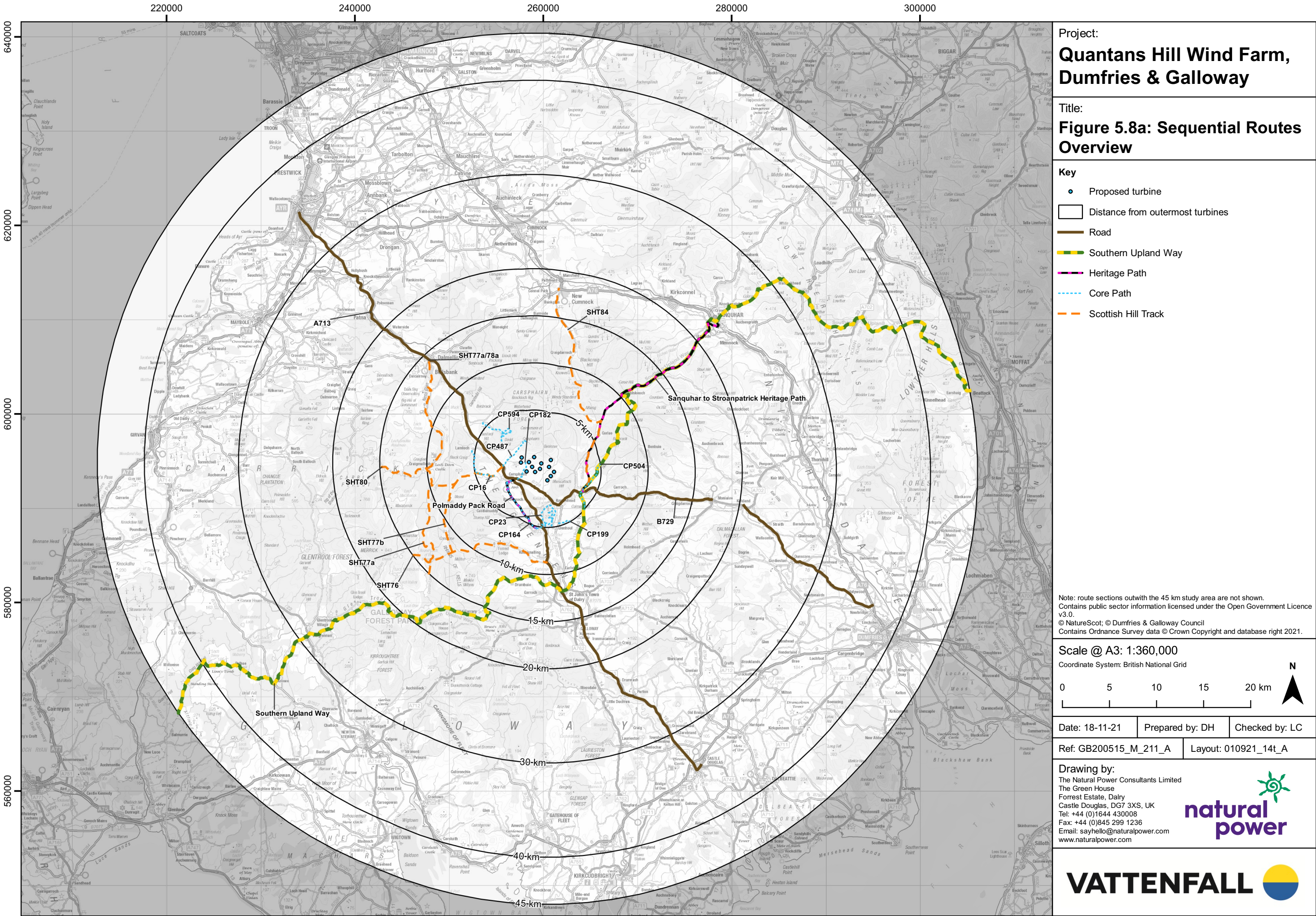
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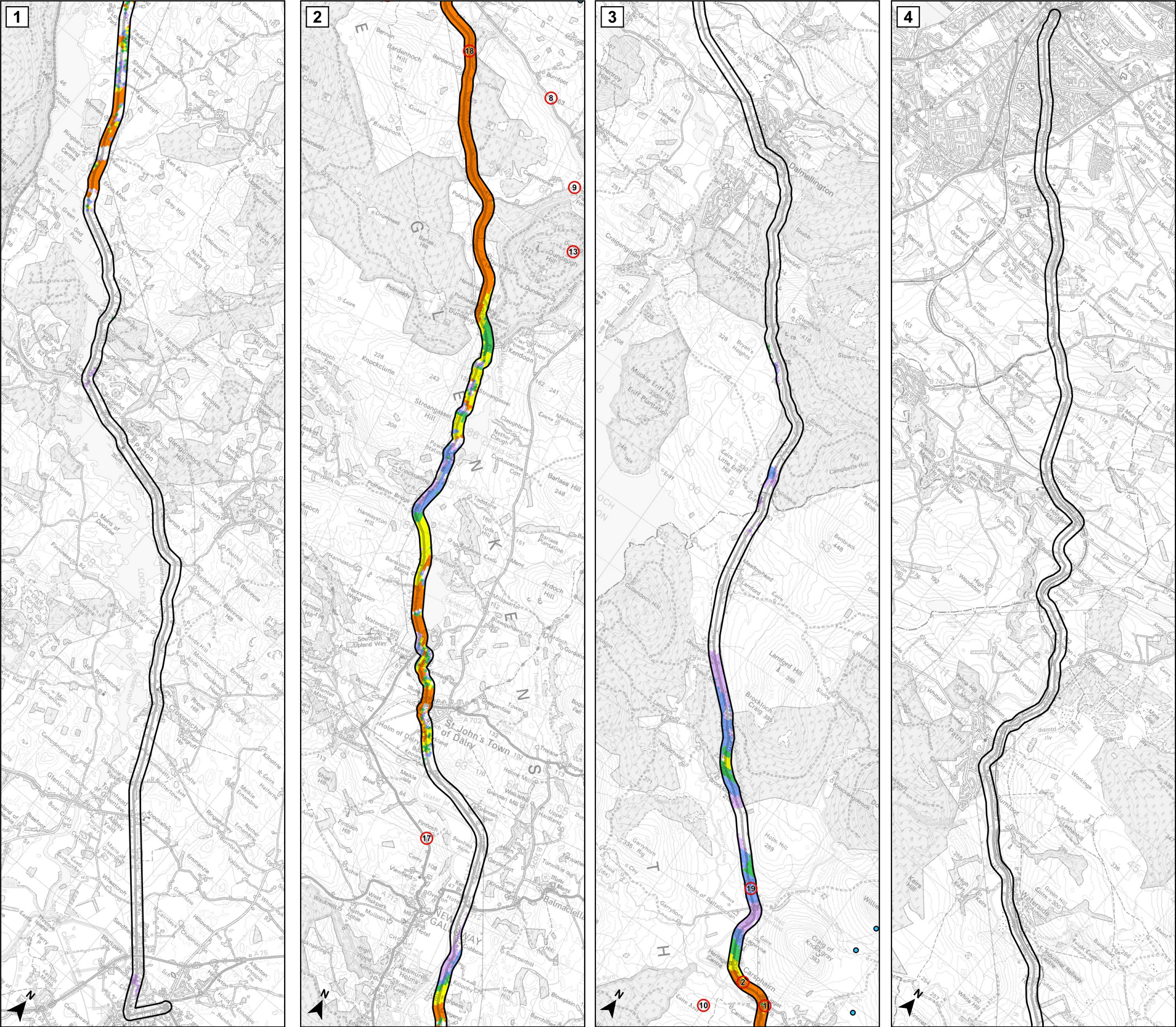


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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.8b: Sequential Route  
Visibility - A713**

Key

•

Proposed turbine

○

Viewpoint

Number of turbines theoretically visible to tip height:

1 - 3

4 - 6

7 - 9

10 - 12

13 - 14

Notes:

\* See Figure 5.8a for route overview.

\* Route shown from south to north

\* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.

\* ZTV produced for 14 turbines of 200 m tip height.

\* Viewpoint height set to 2 m AGL.

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Coordinate System: British National Grid

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km

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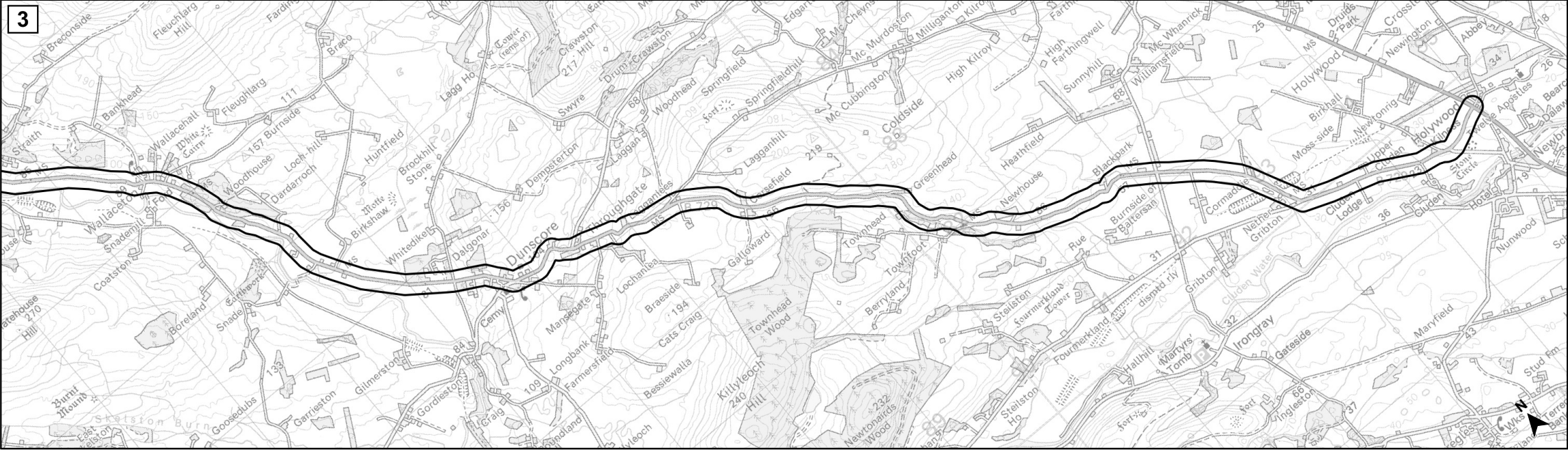
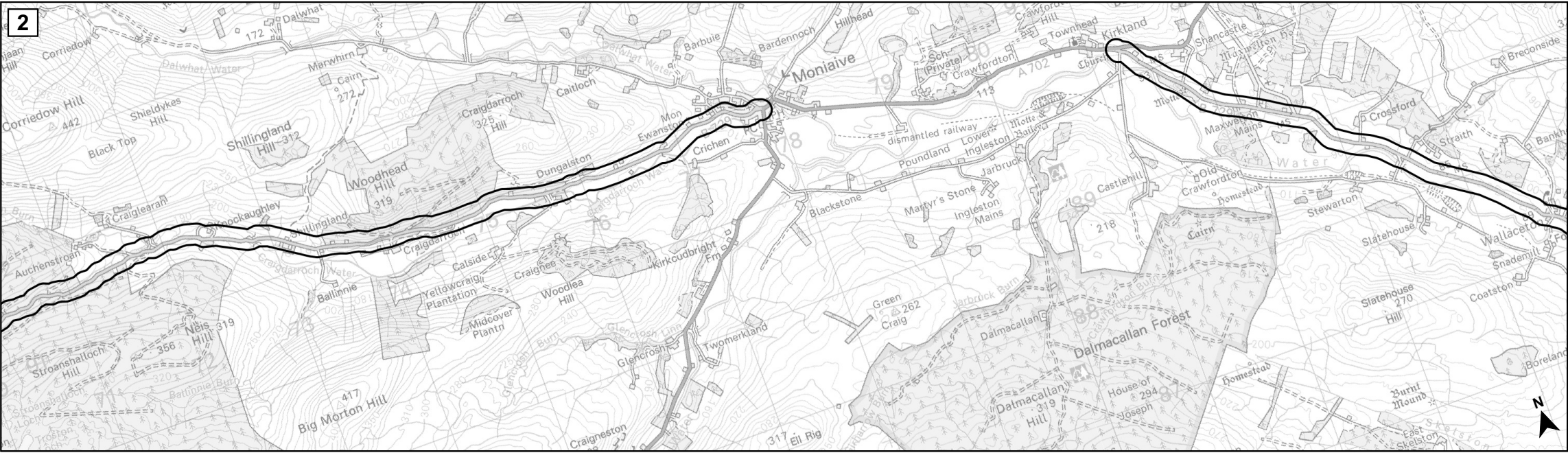
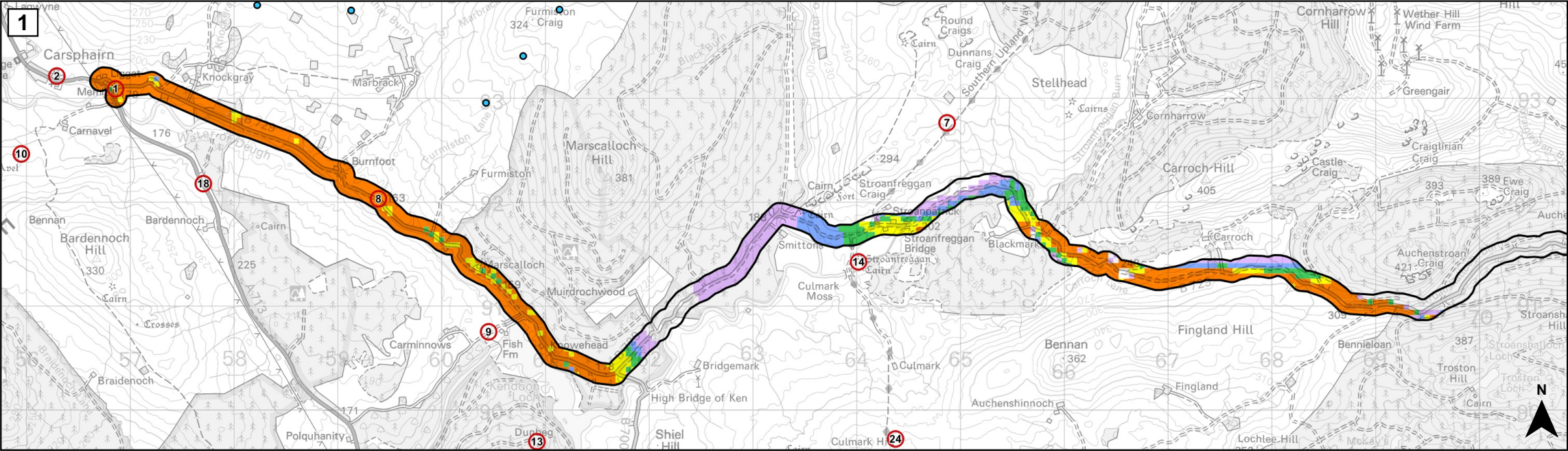
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Project:

# Quantans Hill Wind Farm, Dumfries & Galloway

Title:

## Figure 5.8c: Sequential Route Visibility - B729

**Key**

- Proposed turbine
- Viewpoint

**Number of turbines theoretically visible to tip height:**

- 1 - 3
- 4 - 6
- 7 - 9
- 10 - 12
- 13 - 14

Notes:

- \* See Figure 5.8a for route overview.
- \* Route shown from west to east.
- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 turbines of 200 m tip height.
- \* Viewpoint height set to 2 m AGL.

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Scale @ A3: 1:50,000

Coordinate System: British National Grid

0 0.5 1 1.5 2 km

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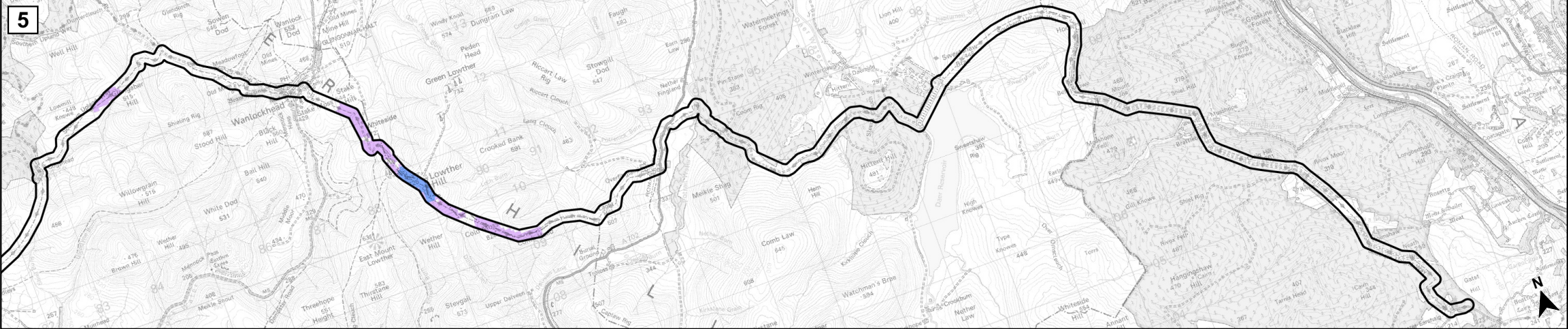
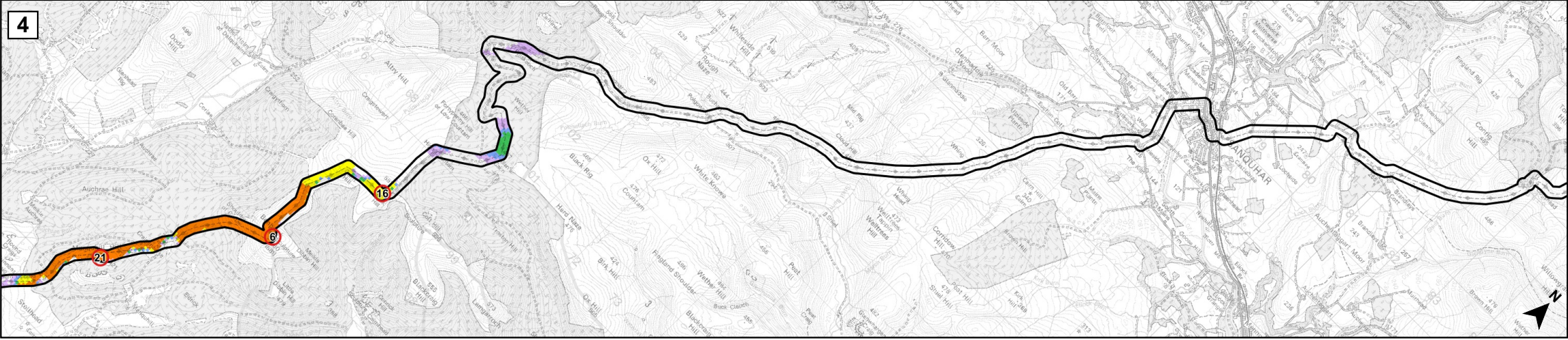
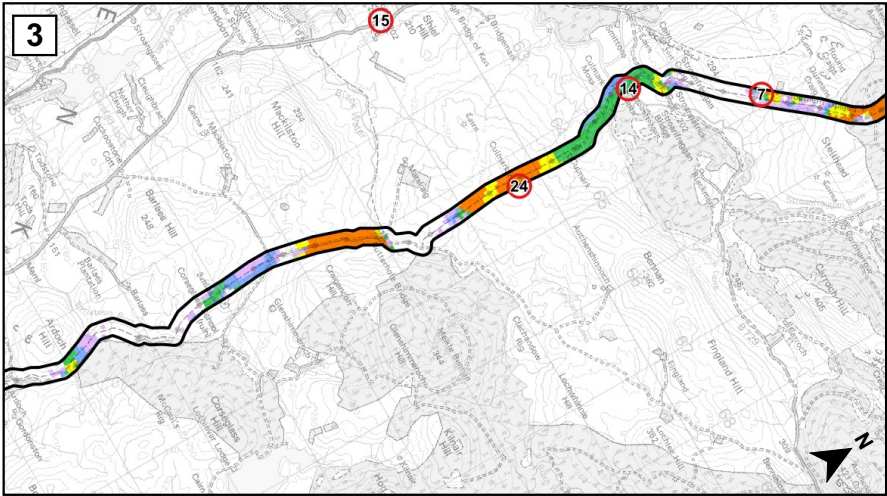
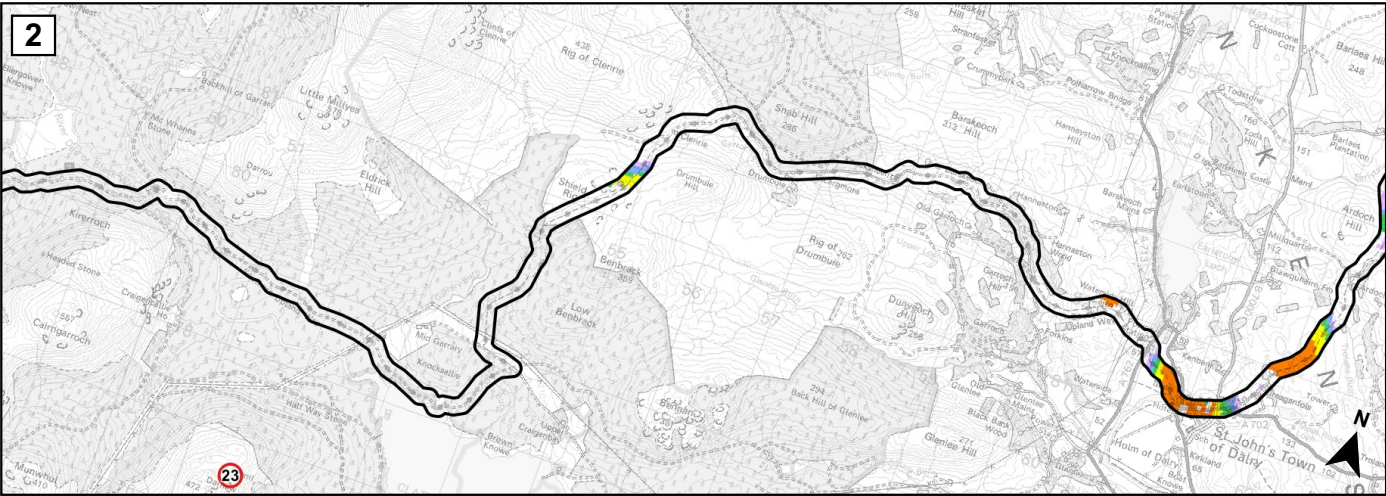
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Project:

# Quantans Hill Wind Farm, Dumfries & Galloway

Title:

## Figure 5.8d: Sequential Route Visibility - Southern Upland Way

**Key**

Viewpoint

**Number of turbines theoretically visible to tip height:**

- 1 - 3
- 4 - 6
- 7 - 9
- 10 - 12
- 13 - 14

**Notes:**

- \* See Figure 5.8a for route overview.
- \* Route shown from west to east.
- \* Route sections outwith the 45 km study area are not shown.
- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 turbines of 200 m tip height.
- \* Viewpoint height set to 2 m AGL.

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**Scale @ A3: 1:90,000**

Coordinate System: British National Grid

0 1 2 3 4 5 km

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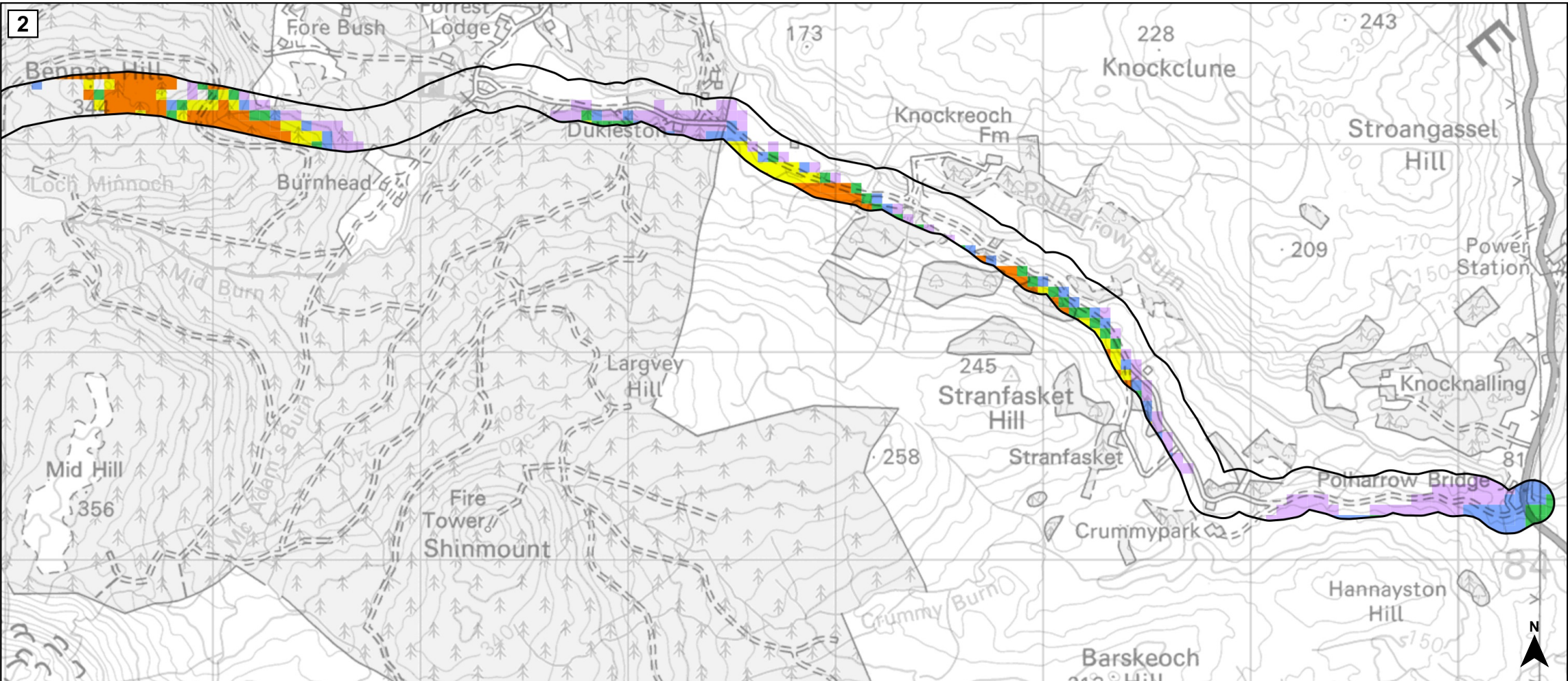
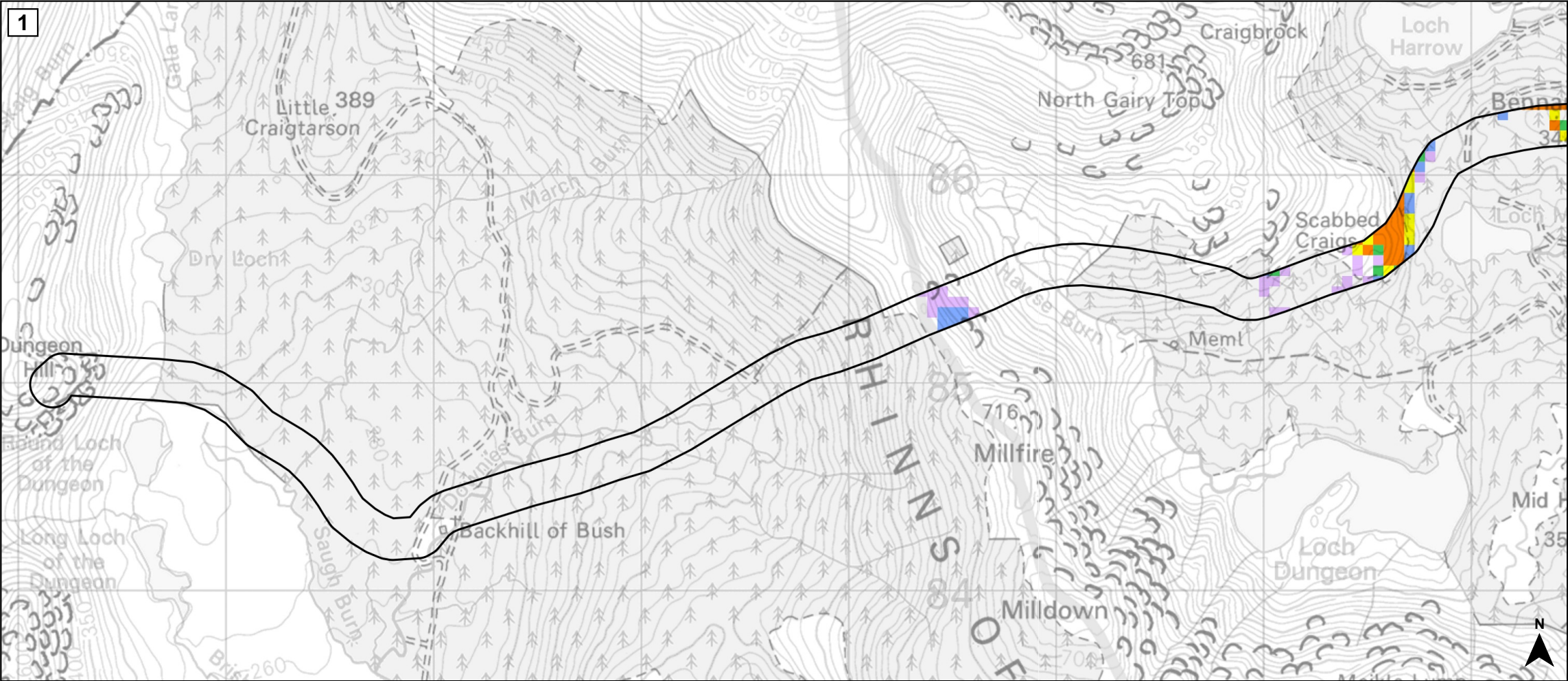
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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.8e: Sequential Route  
Visibility - Scottish Hill Track 76  
Bargrennan to Polharrow**

**Key**

○ Viewpoint

**Number of turbines theoretically visible to tip height:**

1 - 3
4 - 6
7 - 9
10 - 12
13 - 14

**Notes:**

- \* See Figure 5.8a for route overview.
- \* Route shown from west to east
- \* Only the section of the route within 15 km of turbines is shown.
- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 turbines of 200 m tip height.
- \* Viewpoint height set to 2 m AGL.

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**Scale @ A3: 1:25,000**

Coordinate System: British National Grid

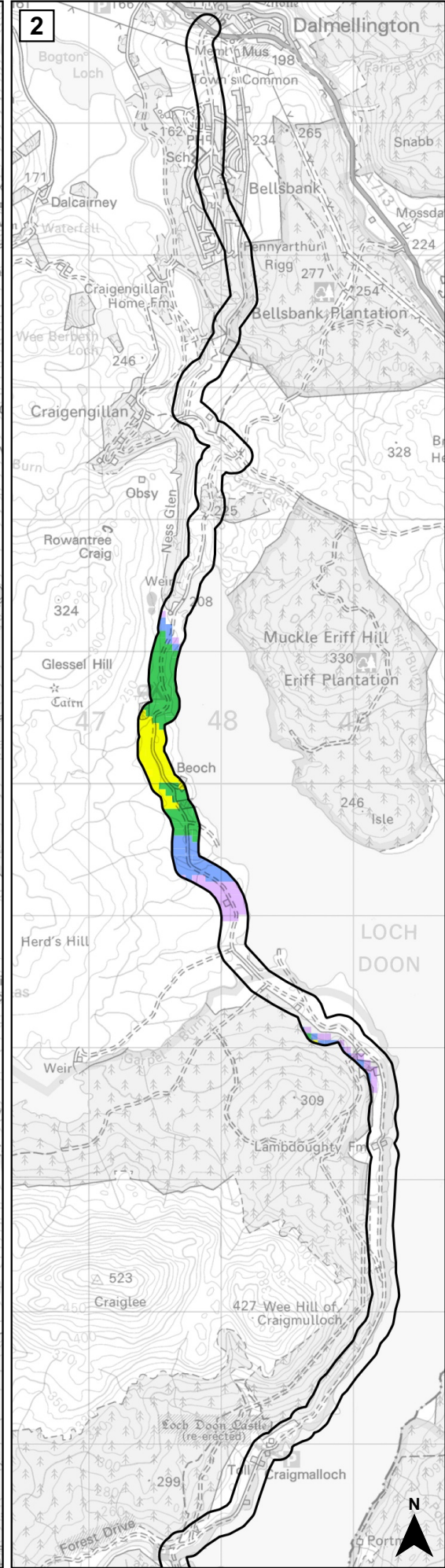
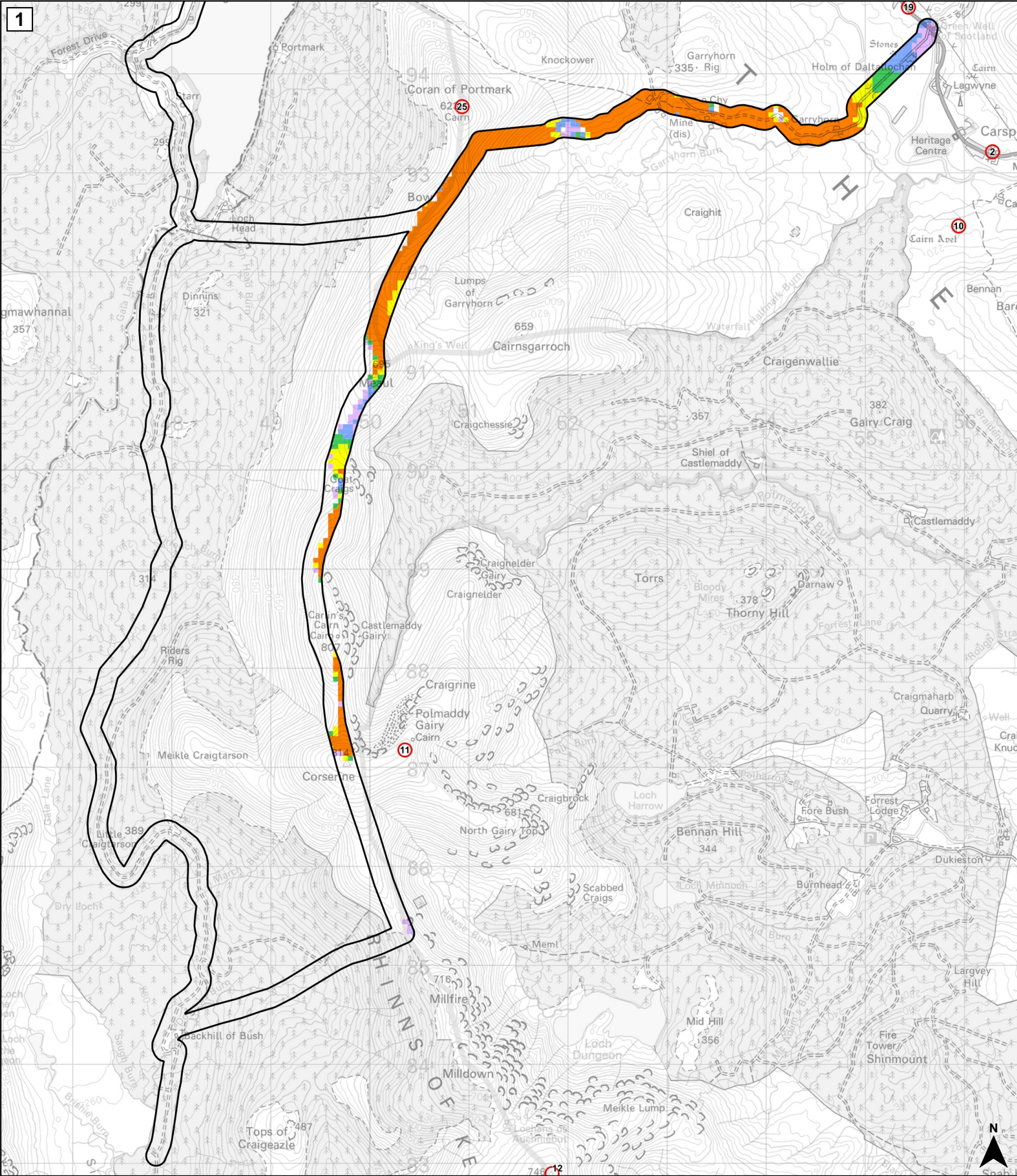
0 0.5 1 1.5 km

Date: 18-11-21	Prepared by: DH	Checked by: GG
Ref: GB200515_M_215_A		

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Project:

Quantans Hill Wind Farm,  
Dumfries & Galloway

Title:

Figure 5.8f: Sequential Route  
Visibility - Scottish Hill Track 77  
Bargrennan to Carsphairn or  
Dalmellington

Key

Viewpoint

1 - 3

4 - 6

7 - 9

10 - 12

13 - 14

Notes:

\* See Figure 5.8a for route overview.

\* Route shown from south to north.

\* Only the section of the route within 15 km of turbines is shown.

\* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.

\* ZTV produced for 14 turbines of 200 m tip height.

\* Viewpoint height set to 2 m AGL.

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0100031673.

Scale @ A3: 1:45,000

Coordinate System: British National Grid

00.511.52

km

Date: 18-11-21

Prepared by: DH

Checked by: LC

Ref: GB200515\_M\_216\_A

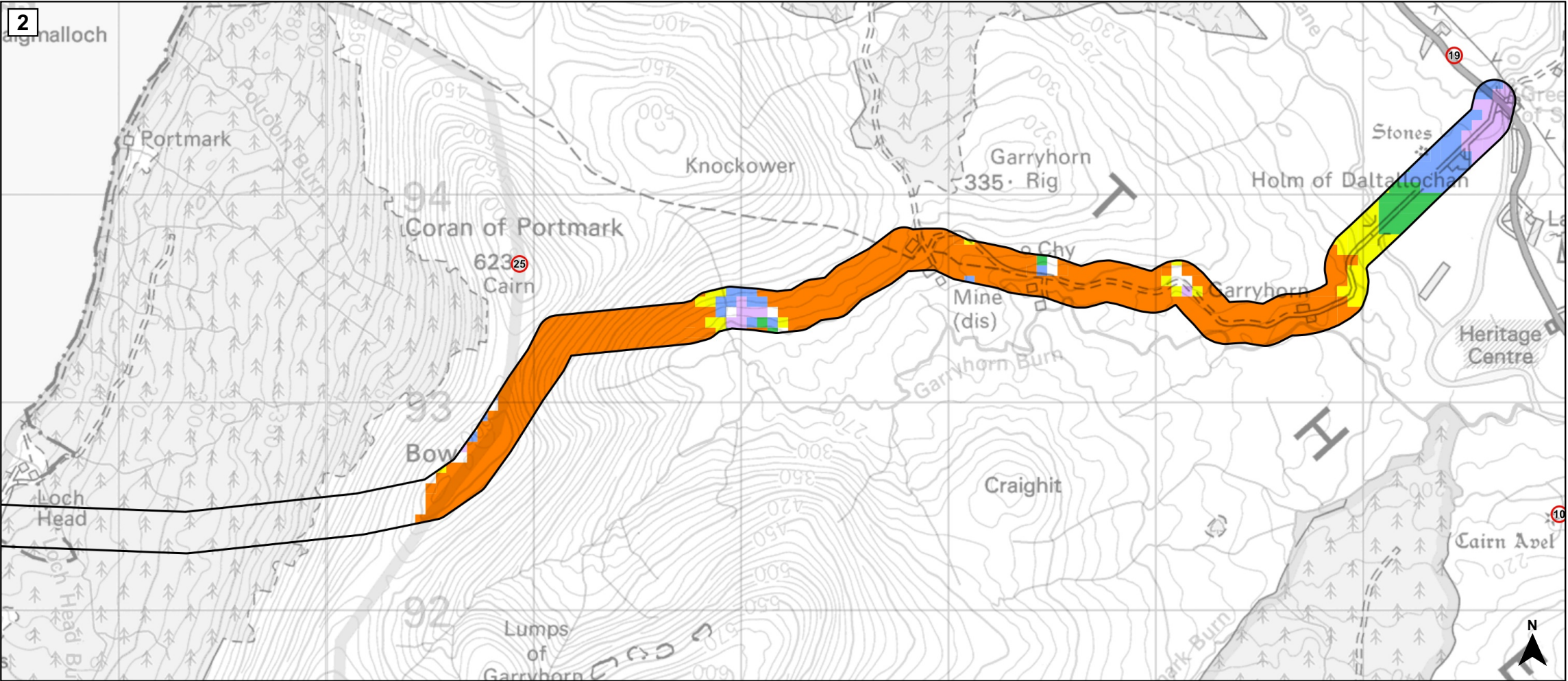
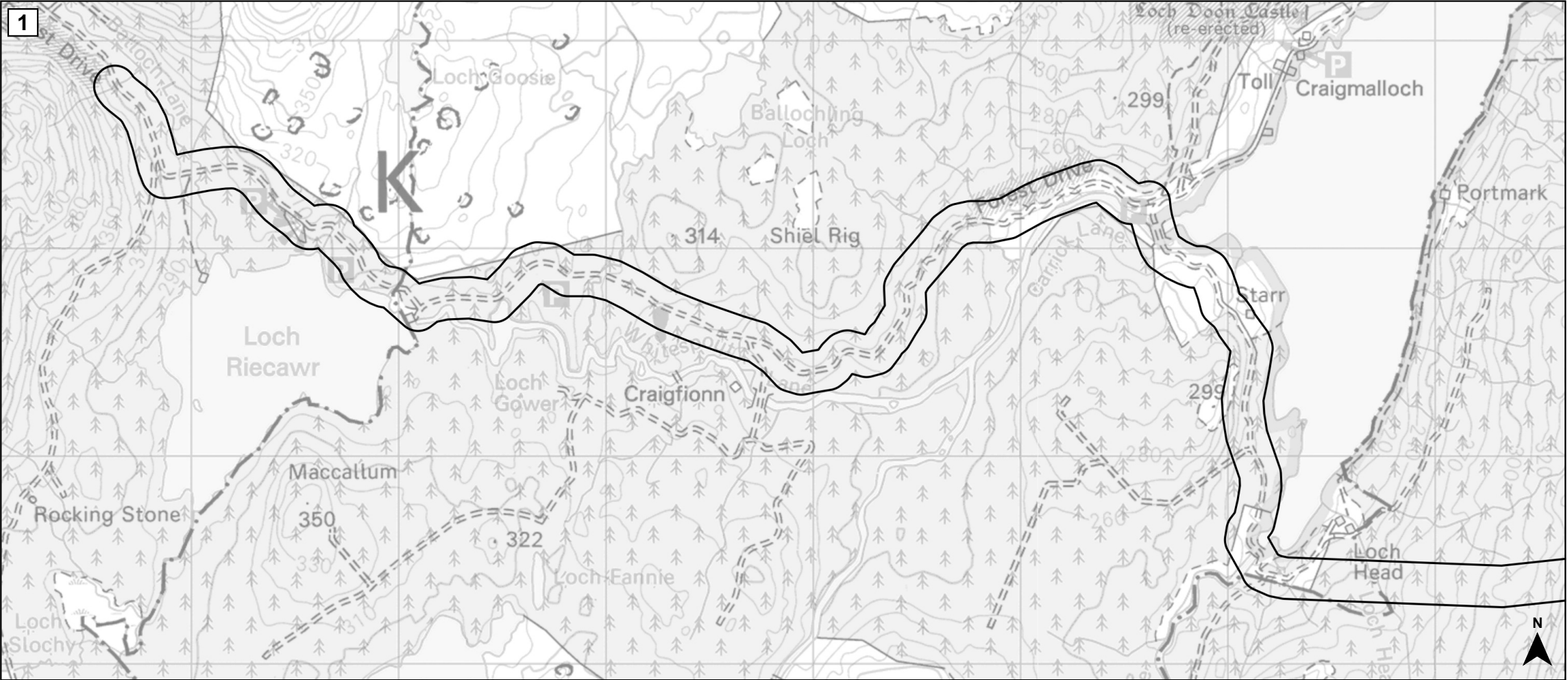
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Project:

# Quantans Hill Wind Farm, Dumfries & Galloway

Title:

## Figure 5.8g: Sequential Route Visibility - Scottish Hill Track 80 Barr to Carsphairn

**Key**

○ Viewpoint

**Number of turbines theoretically visible to tip height:**

1 - 3
4 - 6
7 - 9
10 - 12
13 - 14

**Notes:**

- \* See Figure 5.8a for route overview.
- \* Route shown from west to east.
- \* Only the section of the route within 15 km of turbines is shown.
- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 turbines of 200 m tip height.
- \* Viewpoint height set to 2 m AGL.

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**Scale @ A3: 1:25,000**

Coordinate System: British National Grid

0 0.5 1 1.5 km

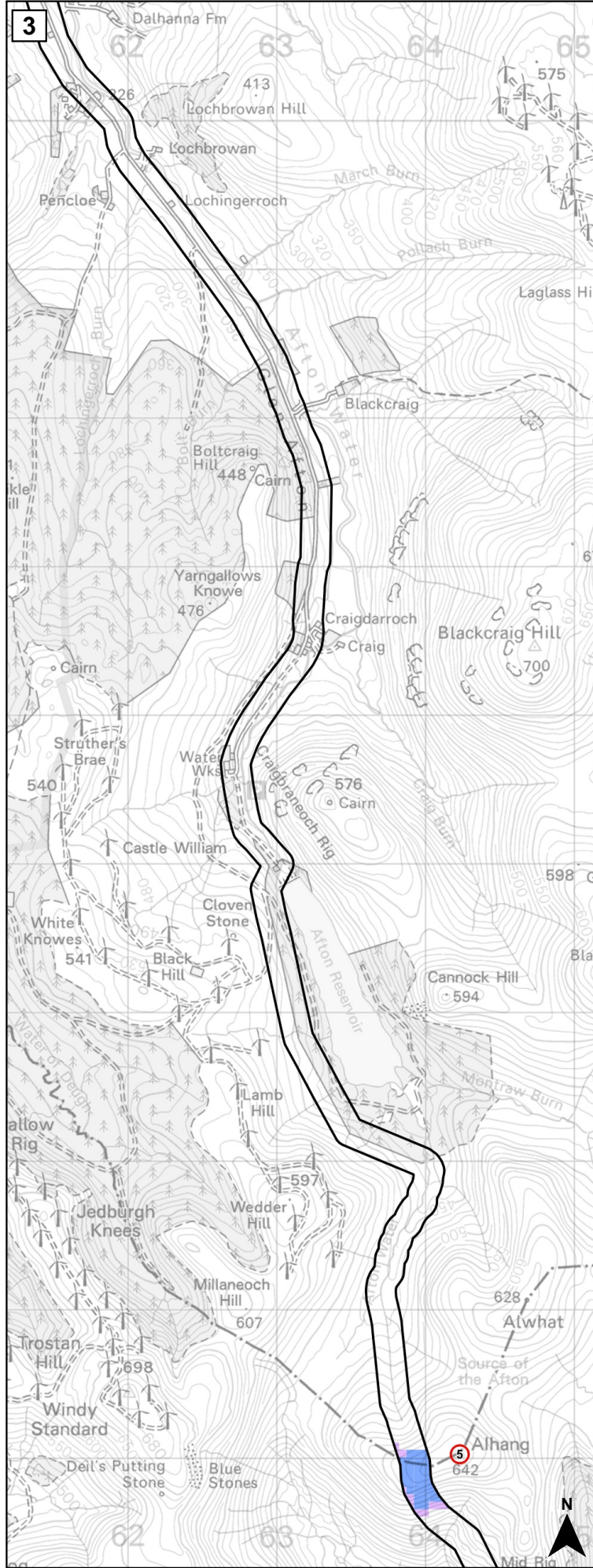
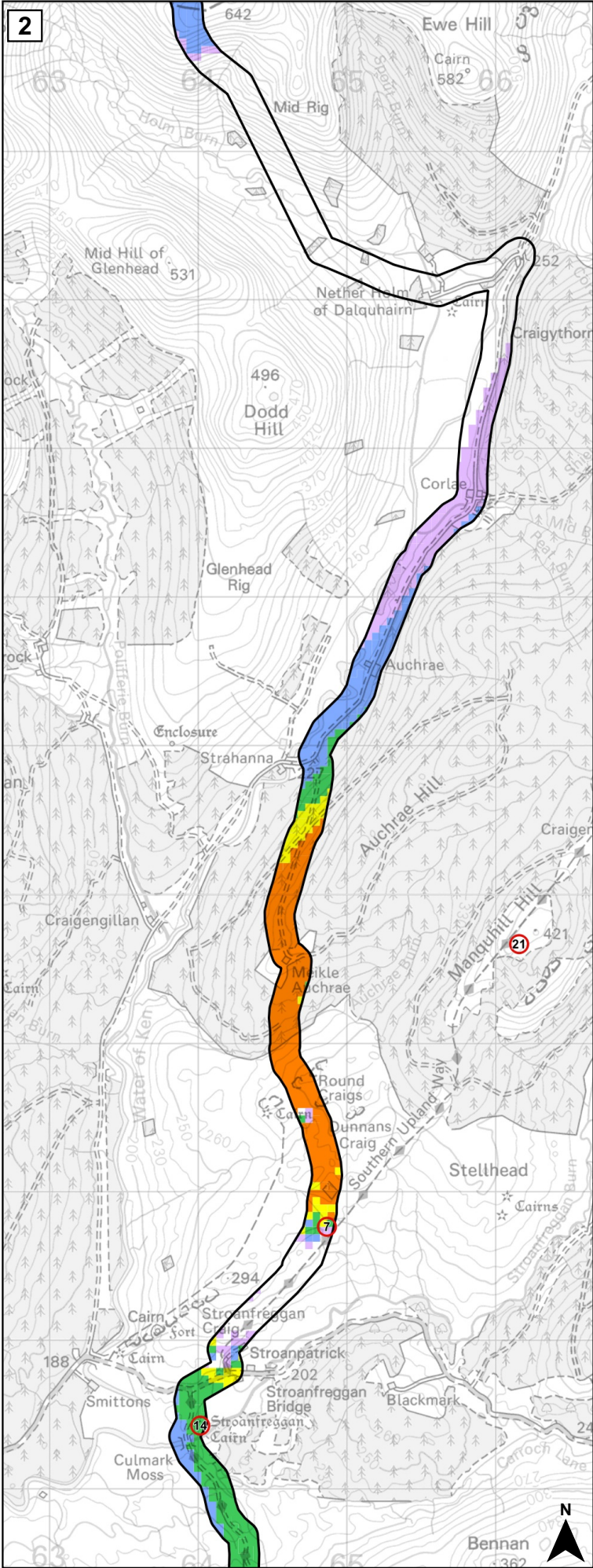
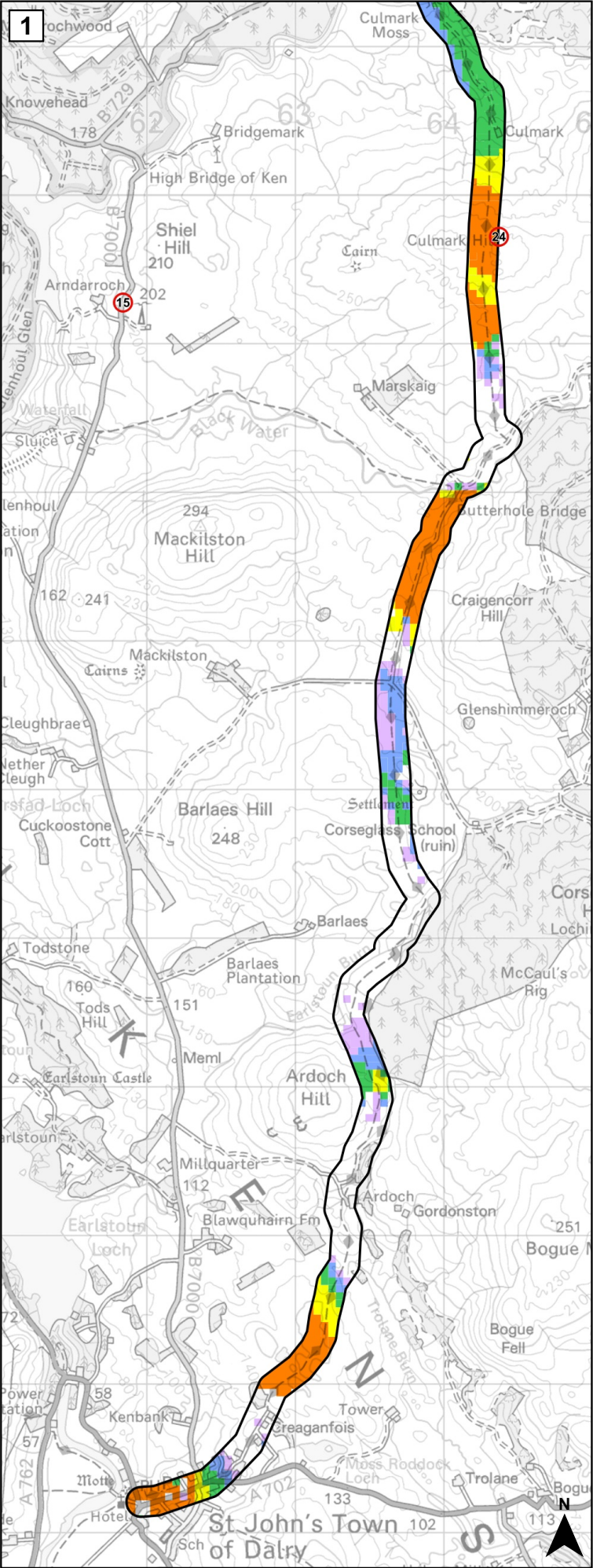
Date: 18-11-21	Prepared by: DH	Checked by: LC
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Project:

# Quantans Hill Wind Farm, Dumfries & Galloway

Title:

## Figure 5.8h: Sequential Route Visibility - Scottish Hill Track 84 New Cumnock to St John's Town of Dalry

**Key**

Viewpoint

**Number of turbines theoretically visible to tip height:**

- 1 - 3
- 4 - 6
- 7 - 9
- 10 - 12
- 13 - 14

**Notes:**

- \* See Figure 5.8a for route overview.
- \* Route shown from south to north.
- \* Only the section of the route within 15 km of turbines is shown.
- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 turbines of 200 m tip height.
- \* Viewpoint height set to 2 m AGL.

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**Scale @ A3: 1:40,000**

Coordinate System: British National Grid

0 0.5 1 1.5 2 km

Date: 18-11-21	Prepared by: DH	Checked by: LC
Ref: GB200515_M_218_A		

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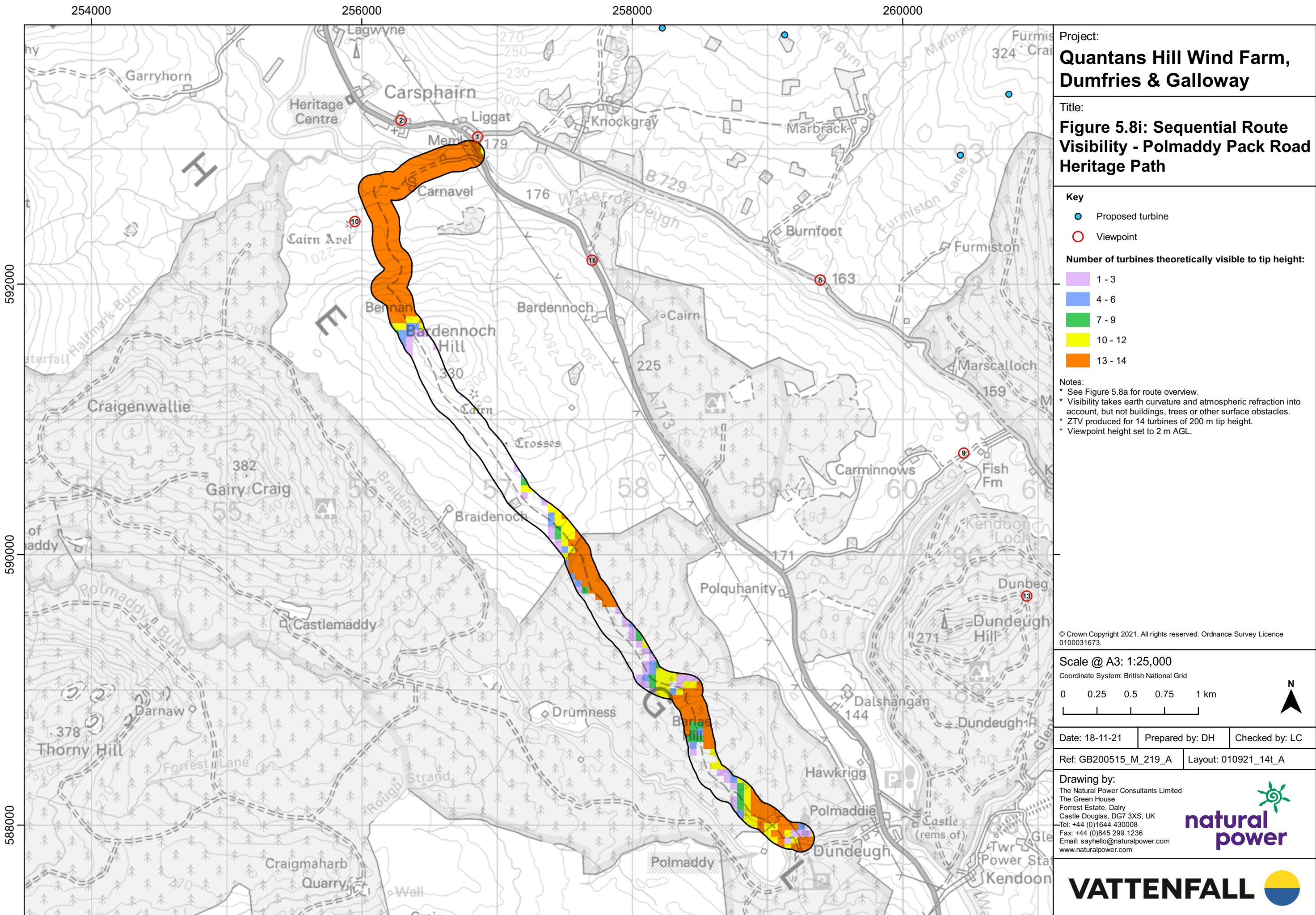
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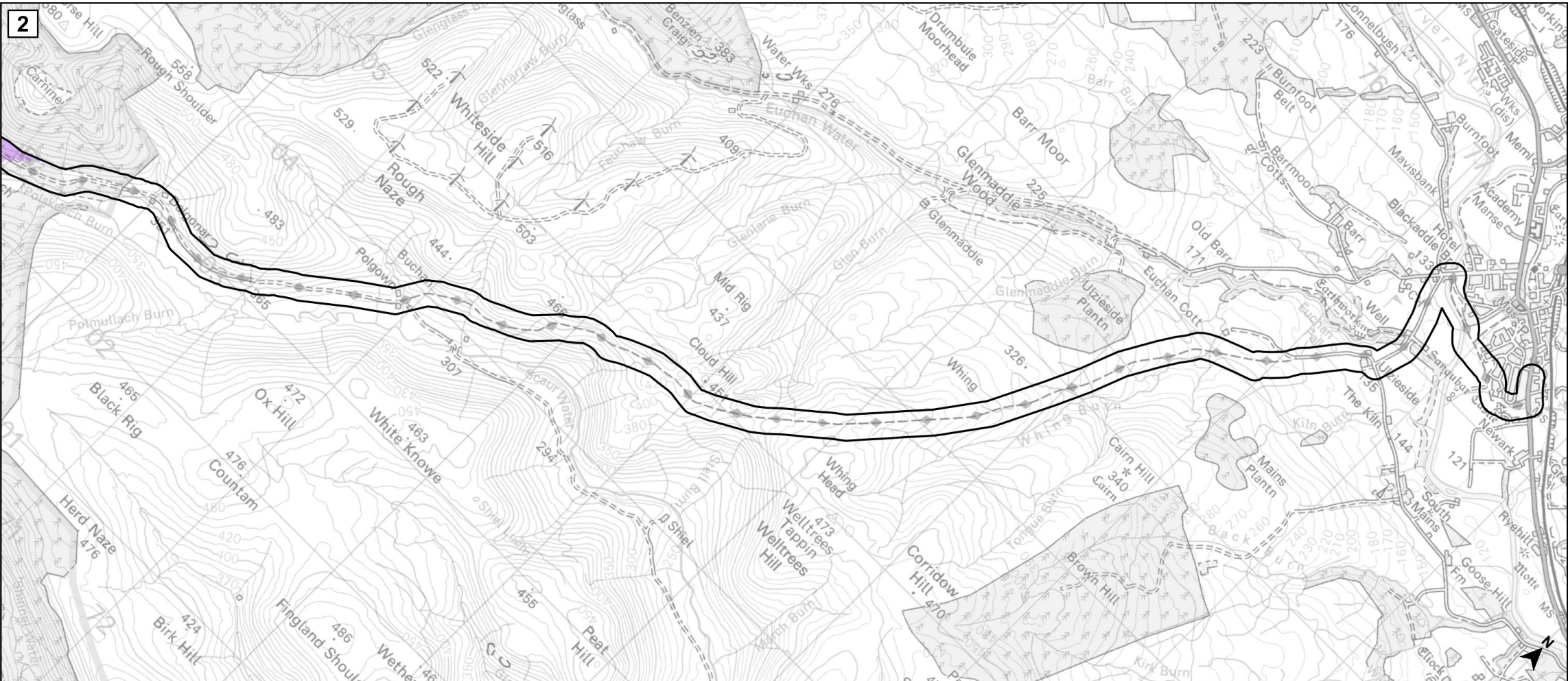
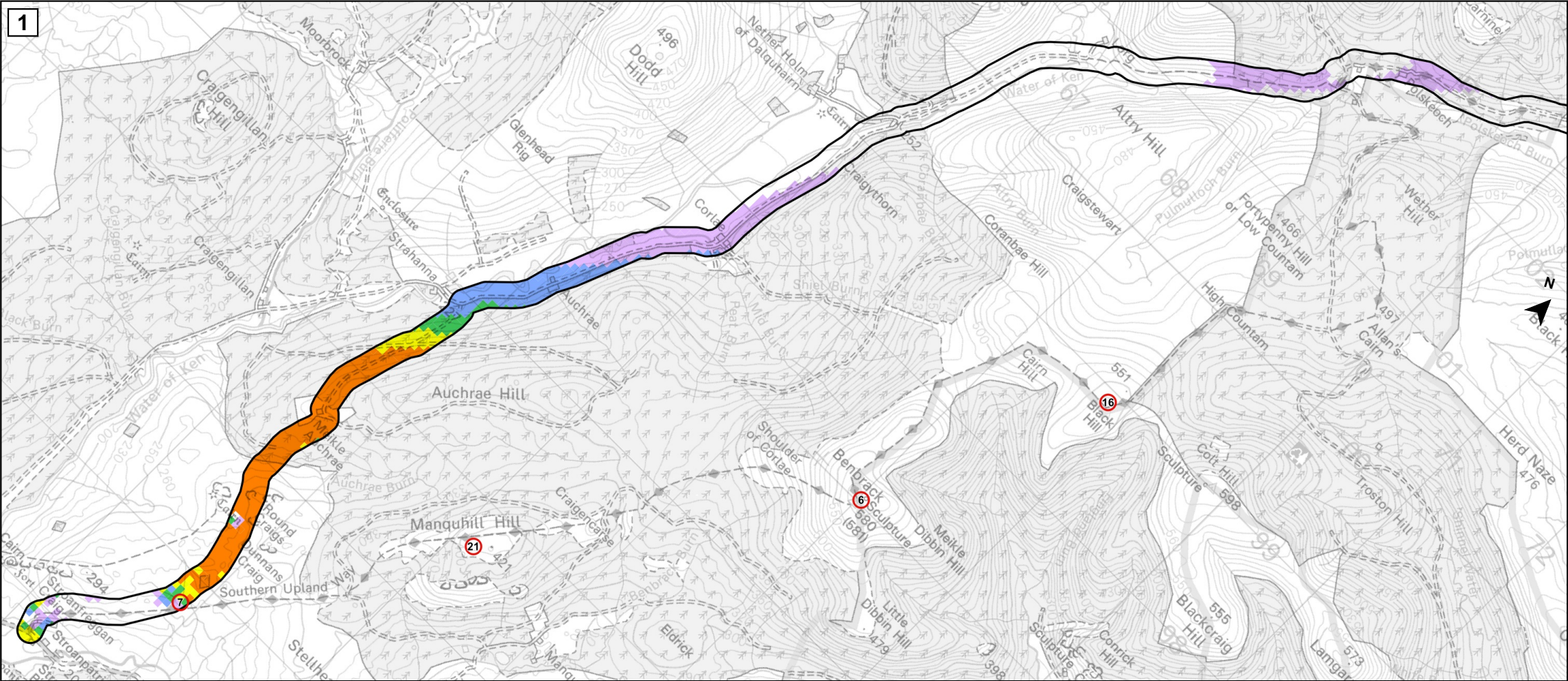


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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.8j: Sequential Route  
Visibility - Sanquhar to  
Stroanpatrick Heritage Path**

**Key**

○ Viewpoint

**Number of turbines theoretically visible to tip height:**

- 1 - 3
- 4 - 6
- 7 - 9
- 10 - 12
- 13 - 14

Notes:  
\* See Figure 5.8a for route overview.  
\* Route shown from south-west to north-east  
\* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.  
\* ZTV produced for 14 turbines of 200 m tip height.  
\* Viewpoint height set to 2 m AGL.

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Coordinate System: British National Grid

0 0.5 1 1.5 2 km

Date: 18-11-21	Prepared by: DH	Checked by: LC
Ref: GB200515_M_220_A		

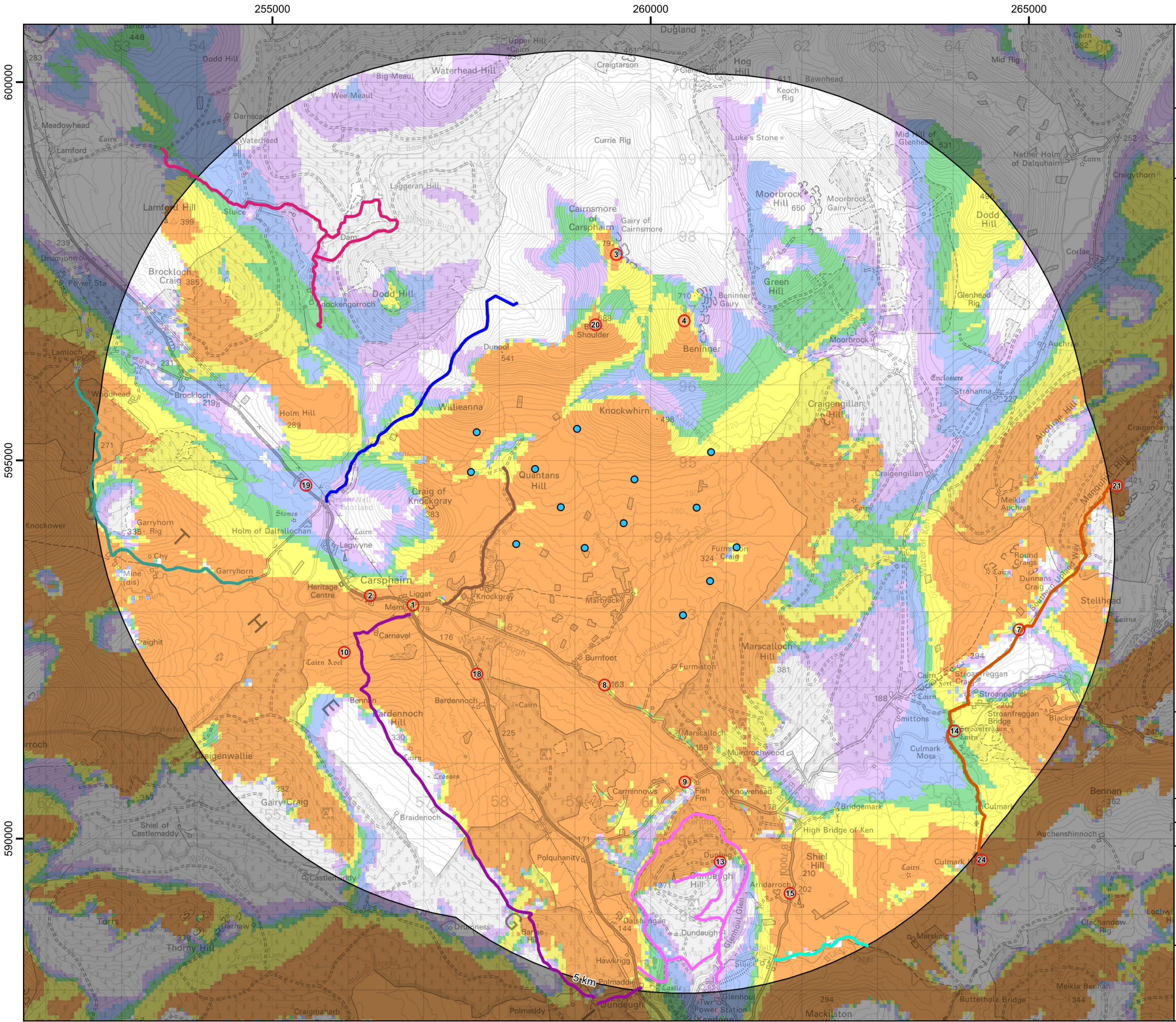
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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.8k: Sequential Routes  
- Core Paths within 5 km**

**Key**

- Proposed turbine
- Viewpoint
- 5 km from outermost turbines

**Core Path**

- CP16
- CP164
- CP182
- CP199
- CP23
- CP487
- CP504
- CP594

**Number of turbines theoretically visible to tip height:**

- 1 - 3
- 4 - 6
- 7 - 9
- 10 - 12
- 13 - 14

**ZTV notes:**  
\* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.  
\* ZTV produced for 14 turbines of 200 m tip height.  
\* Viewpoint height set to 2 m AGL.

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**Scale @ A3: 1:50,000**  
Coordinate System: British National Grid

0 0.5 1 1.5 2 km

N

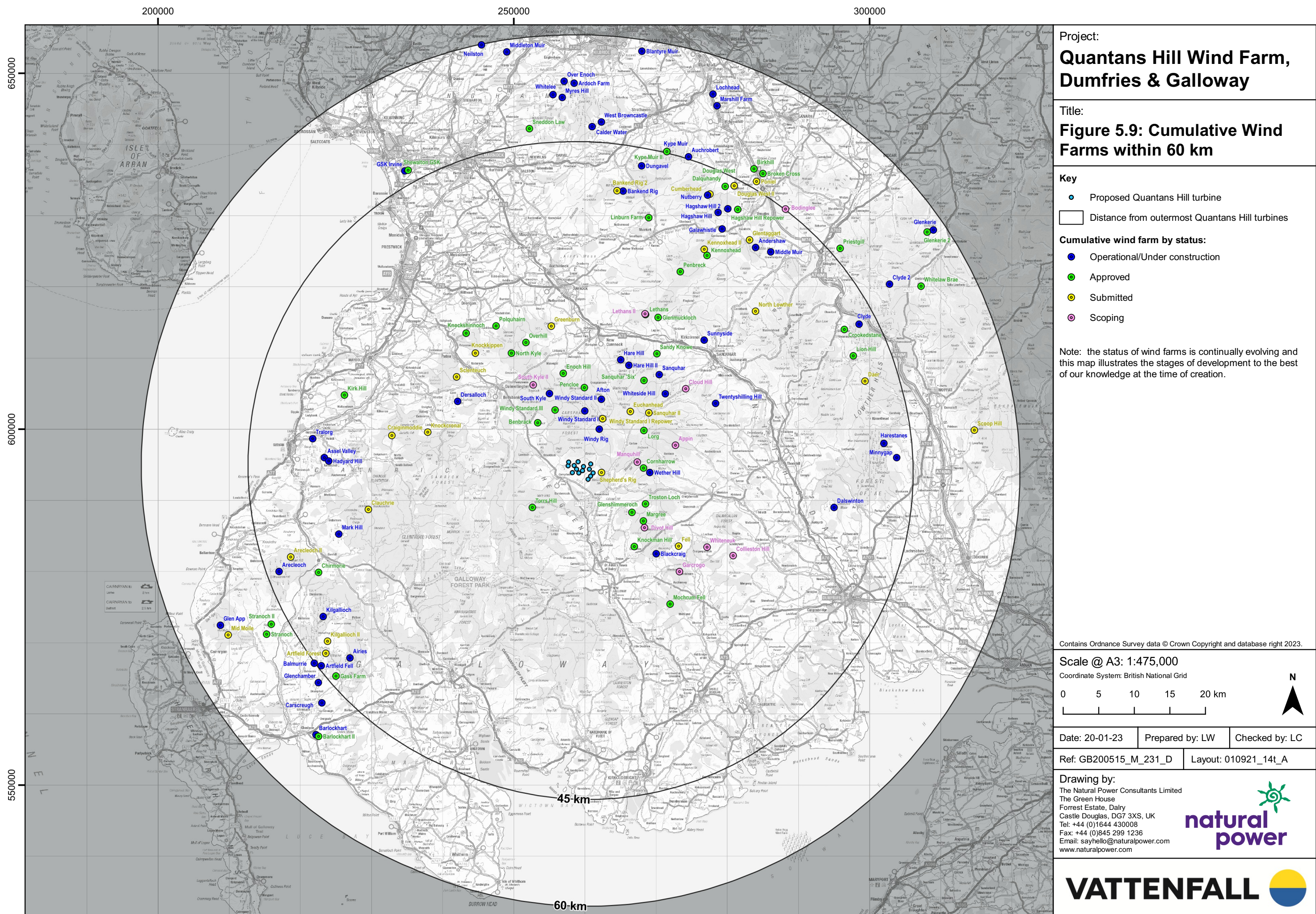
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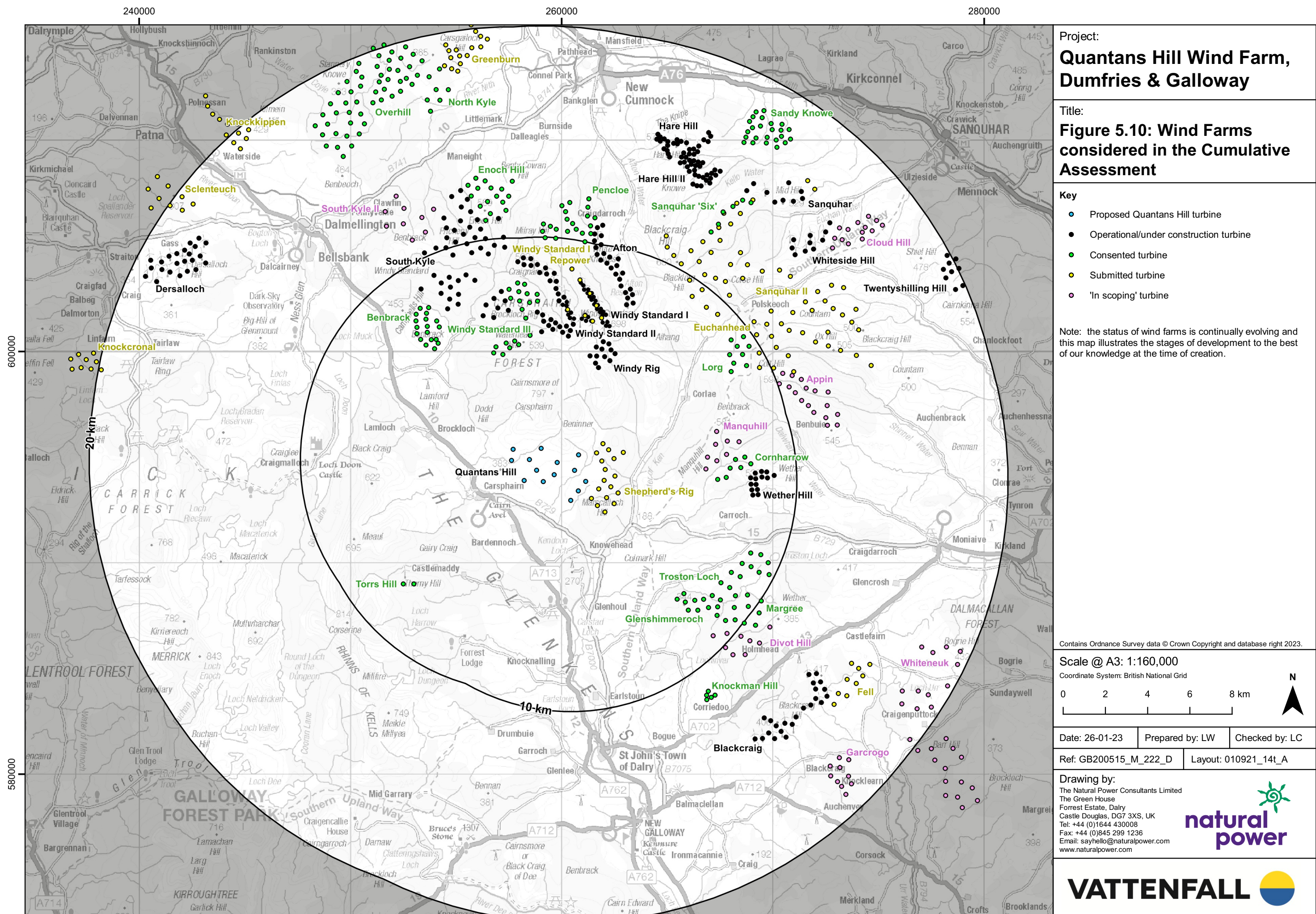
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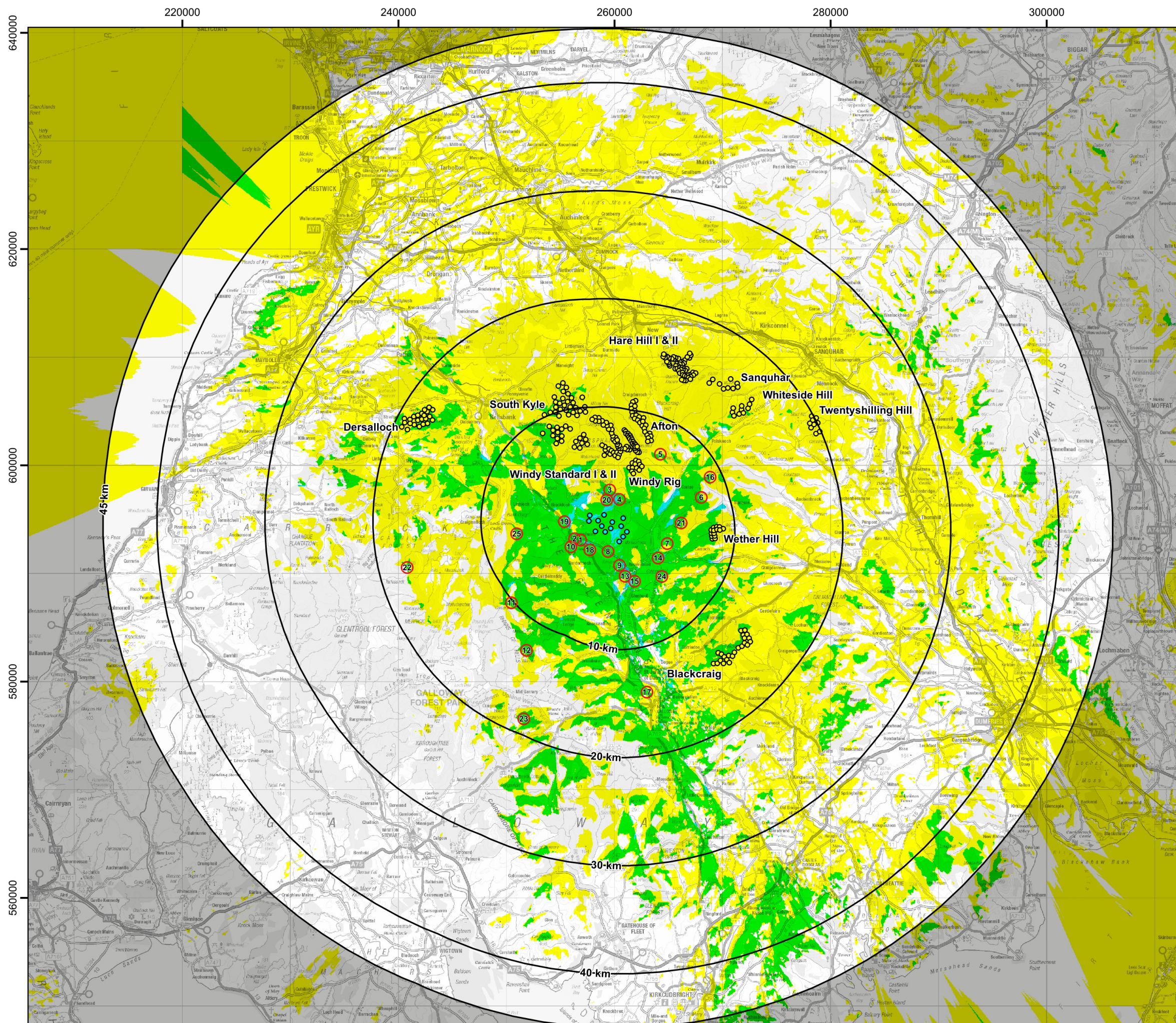
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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.11a: Cumulative Zone  
of Theoretical Visibility to Tip  
Height: Scenario 1 (Baseline) -  
Quantans Hill & Wind Farms in  
Operation/Under Construction  
(Study Area)**

**Key**

- Proposed Quantans Hill turbine
- Operational/under construction turbine
- Viewpoint
- Distance from outermost turbines

Operational/  
under construction  
wind farms

Quantans Hill

**ZTV Notes:**

- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 Quantans Hill turbines at 200 m to tip.
- \* Operational/under construction turbines: Afton (25 turbines at 118 m/100 m to tip); Blackcraig (23 turbines at 110 m to tip); Dersalloch (23 turbines at 125 m/115 m to tip); Hare Hill I (20 turbines at 63.5 m to tip); Hare Hill II (35 turbines at 91 m/86 m/81 m/75 m/70 m to tip); Sanquhar (9 turbines at 130 m to tip); South Kyle (50 turbines at 149.9 m to tip); Twentyshilling Hill (9 turbines at 125 m to tip); Wether Hill (14 turbines at 91 m to tip); Whiteside Hill (10 turbines at 130 m to tip); Windy Rig (16 turbines at 125 m to tip); Windy Standard I (36 turbines at 53.5 m to tip); Windy Standard II (30 turbines at 119.5 m/114.75 m/100 m to tip).
- \* Viewpoint height set to 2 m AGL.

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Coordinate System: British National Grid

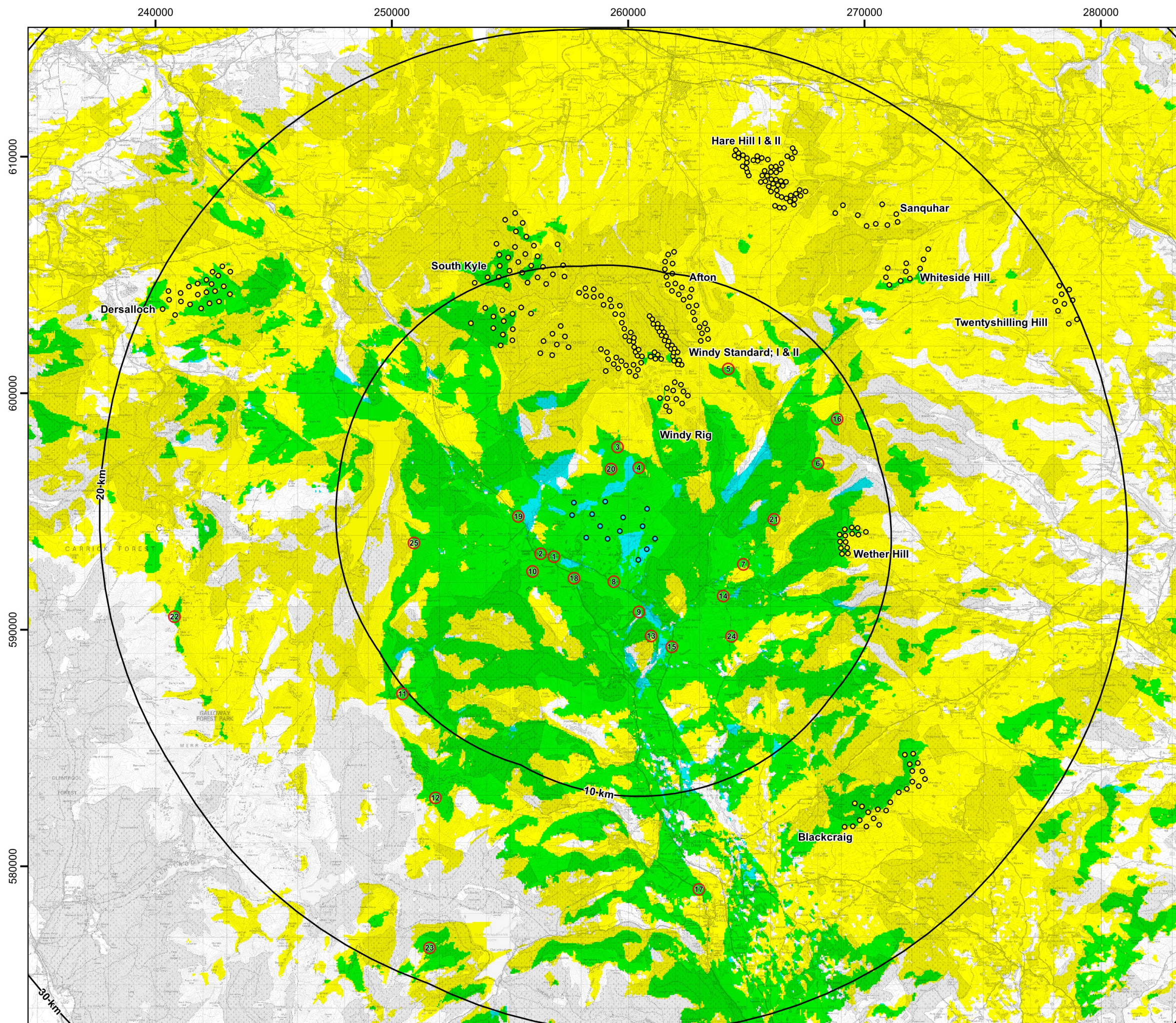
0 2.5 5 7.5 10 km

Date: 26-01-23	Prepared by: LW	Checked by: LC
Ref: GB200515_M_232_B	Layout: 010921_14t_A	

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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.11b: Cumulative Zone  
of Theoretical Visibility to Tip  
Height: Scenario 1 (Baseline) -  
Quantans Hill & Wind Farms in  
Operation/Under Construction  
(Extract)**

**Key**

- Proposed Quantans Hill turbine
- Operational/under construction turbine
- Viewpoint
- Distance from outermost turbines

Operational/  
under construction  
wind farms

Quantans Hill

**ZTV Notes:**  
\* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.  
\* ZTV produced for 14 Quantans Hill turbines at 200 m to tip.  
\* Operational/under construction turbines: See Figure 5.11a.  
\* Viewpoint height set to 2 m AGL.

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**Scale @ A3: 1:160,000**  
Coordinate System: British National Grid

0 2 4 6 8 km

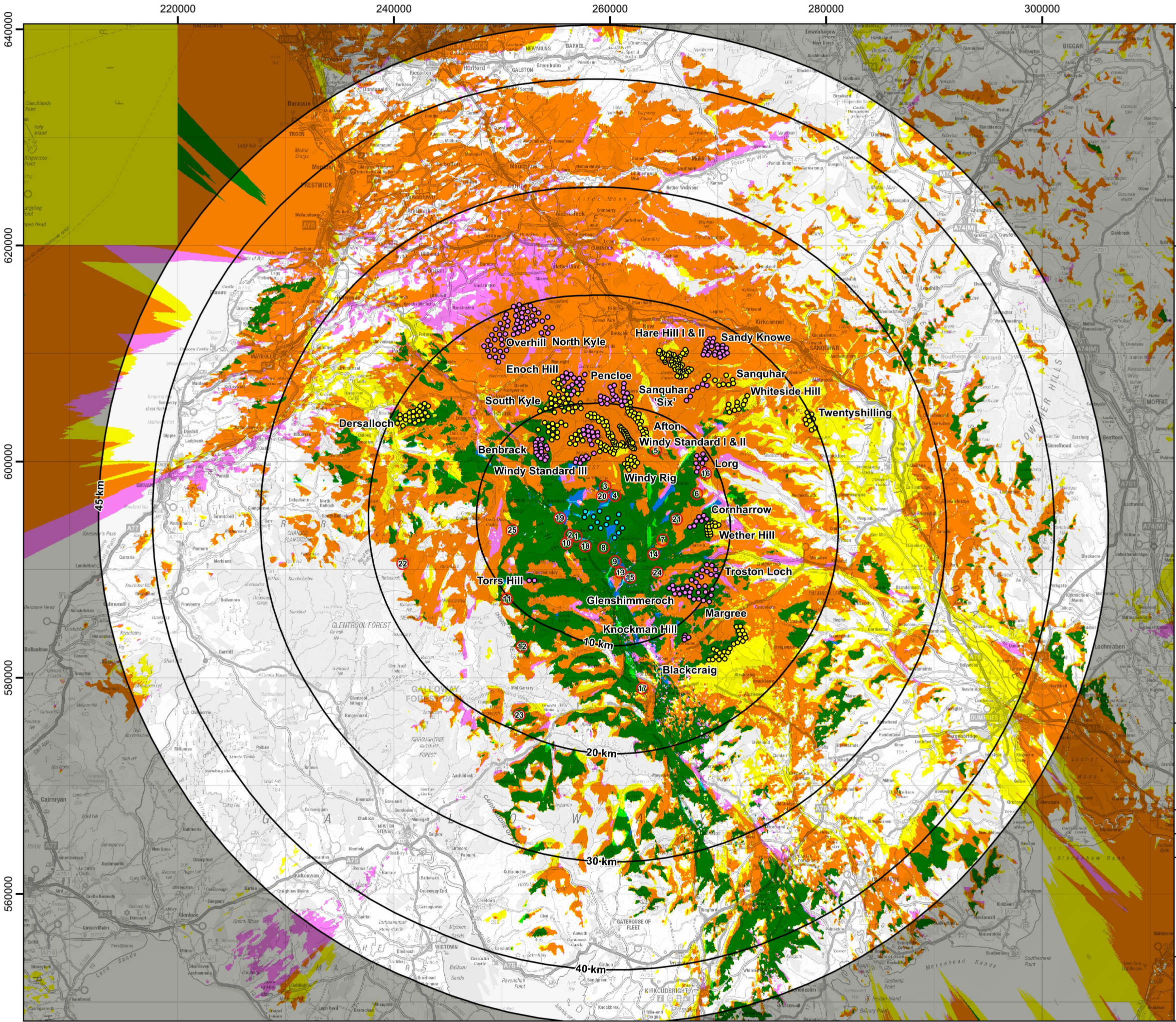
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Date: 26-01-23	Prepared by: LW	Checked by: LC
Ref: GB200515_M_233_B	Layout: 010921_14t_A	

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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.12a: Cumulative Zone  
of Theoretical Visibility to Tip  
Height: Scenario 2 - Scenario 1  
with Consented Wind Farms  
(Study Area)**

**Key**

- Proposed Quantans Hill turbine
- Operational/under construction turbine
- Consented turbine
- Viewpoint
- Distance from outermost turbines

Operational/  
under construction  
wind farms

Consented wind farms

**ZTV Notes:**

- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 Quantans Hill turbines at 200 m to tip.
- \* Operational/under construction turbines: See Figure 5.11a.
- \* Consented turbines: Benbrack (18 turbines at 149.9 m to tip); Cornharrow (7 turbines at 180 m to tip); Enoch Hill (16 turbines at 149.9 m to tip); Glenshimmeroch (10 turbines at 149.9 m to tip); Knockman Hill (5 turbines at 81 m to tip); Lorg (9 turbines at 130 m/149.9 m to tip); Margree (9 turbines at 200 m to tip); North Kyle (54 turbines at 149.9 m to tip); Overhill (10 turbines at 180 m to tip); Pencloe (Variation) (19 turbines at 149.9 m to tip); Sandy Knowe (24 turbines at 125 m to tip); Sanquhar 'Six' (6 turbines at 130 m to tip); Torrs Hill (2 turbines at 100 m to tip); Troston Loch (14 turbines at 149.9 m to tip); Windy Standard III (20 turbines at 177.5 m/125 m to tip).
- \* Viewpoint height set to 2 m AGL.

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**Scale @ A3: 1:350,000**

Coordinate System: British National Grid

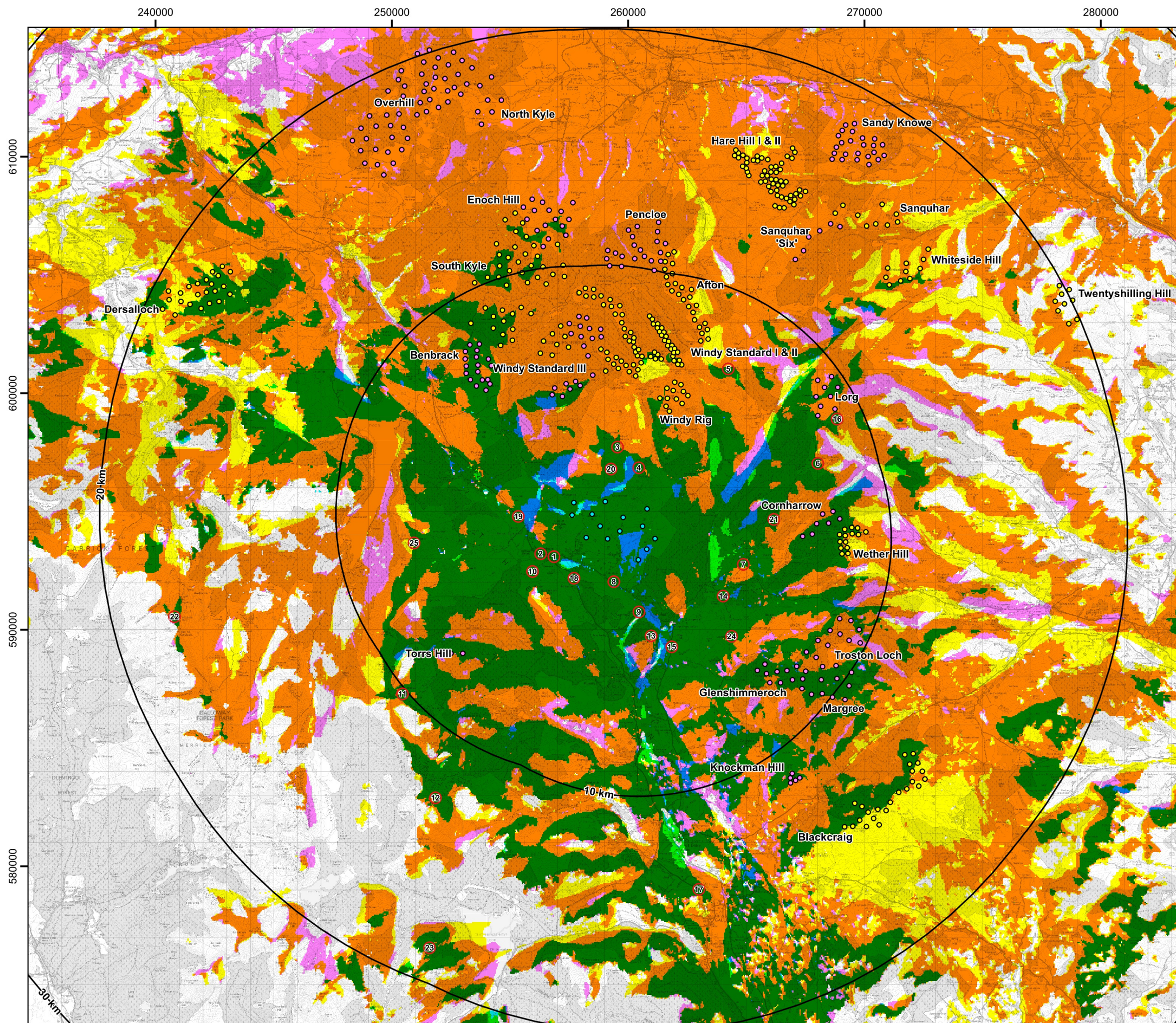
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Date: 26-01-23	Prepared by: LW	Checked by: LC
Ref: GB200515_M_234_C	Layout: 010921_14t_A	

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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.12b: Cumulative Zone  
of Theoretical Visibility to Tip  
Height: Scenario 2 - Scenario 1  
and Consented Wind Farms  
(Extract)**

**Key**

- Proposed Quantans Hill turbine
- Operational/under construction turbine
- Consented turbine
- Viewpoint
- Distance from outermost turbines

Operational/  
under construction  
wind farms

Consented wind  
farms

Quantans  
Hill

**ZTV Notes:**

- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 Quantans Hill turbines at 200 m to tip.
- \* Operational/under construction turbines: See Figure 5.11a.
- \* Consented turbines: See Figure 5.12a.
- \* Viewpoint height set to 2 m AGL.

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**Scale @ A3: 1:160,000**

Coordinate System: British National Grid

0 2 4 6 8 km

N

Date: 26-01-23	Prepared by: LW	Checked by: LC
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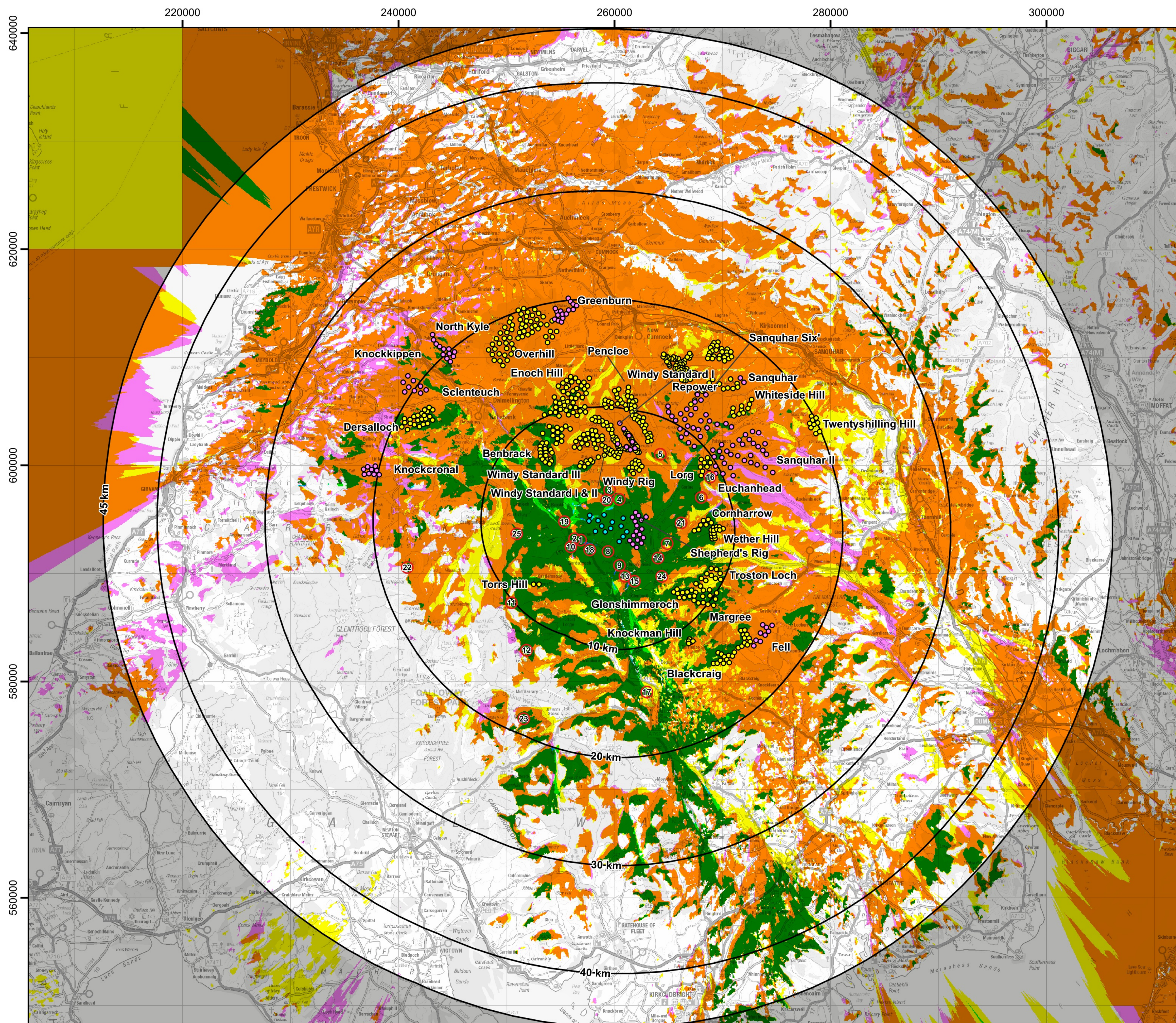
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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.13a: Cumulative Zone  
of Theoretical Visibility to Tip  
Height: Scenario 3 - Scenario 2  
and Submitted Wind Farms  
(Study Area)**

**Key**

- Proposed Quantans Hill turbine
- Operational/under construction/consented turbine
- Proposed (application) turbine
- Viewpoint
- Distance from outermost turbines

Operational/  
under construction/  
consented wind  
farms

Application wind  
farms

Quantans  
Hill

**ZTV Notes:**

- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 Quantans Hill turbines at 200 m to tip.
- \* Operational/under construction turbines: See Figure 5.11a.
- \* Consented turbines: See Figure 5.12a.
- \* Proposed (application) turbines: Euchanhead (21 turbines at 230 m to tip); Fell (9 turbines at 180 m/200 m to tip); Greenburn (14 turbines at 149.9 m to tip); Knockcronal (9 turbines at 180 m/180 m to tip); Knockkippen (12 turbines at 150 m/200 m to tip); Sanquhar II (50 turbines at 149 m/200 m to tip); Scienteuch (9 turbines at 180 m/200 m to tip); Shepherd's Rig (19 turbines at 125 m/149.9 m to tip); Windy Standard I Repower (8 turbines at 200 m to tip).
- \* Viewpoint height set to 2 m AGL.

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**Scale @ A3: 1:350,000**

Coordinate System: British National Grid

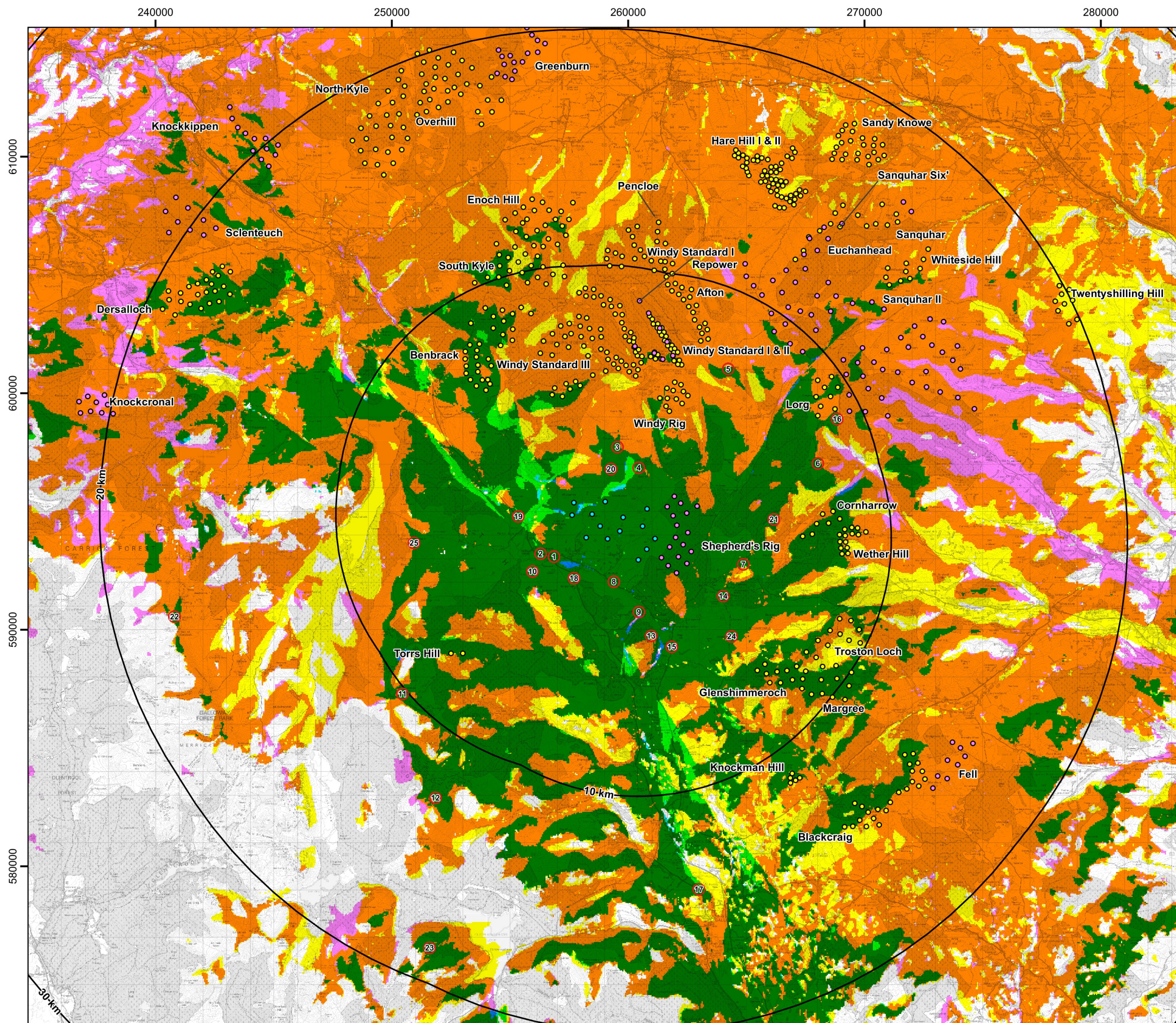
0 2.5 5 7.5 10 km

Date: 26-01-23	Prepared by: LW	Checked by: LC
Ref: GB200515_M_236_C	Layout: 010921_14t_A	

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Project:  
**Quantans Hill Wind Farm,  
Dumfries & Galloway**

Title:  
**Figure 5.13b: Cumulative Zone  
of Theoretical Visibility to Tip  
Height: Scenario 3 - Scenario 2  
and Submitted Wind Farms  
(Extract)**

**Key**

- Proposed Quantans Hill turbine
- Operational/under construction/consented turbine
- Proposed (application) turbine
- Viewpoint
- Distance from outermost turbines

Operational/  
under construction/  
consented wind  
farms

Application wind  
farms

Quantans  
Hill

**ZTV Notes:**

- \* Visibility takes earth curvature and atmospheric refraction into account, but not buildings, trees or other surface obstacles.
- \* ZTV produced for 14 Quantans Hill turbines at 200 m to tip.
- \* Operational/under construction turbines: See Figure 5.11a.
- \* Consented turbines: See Figure 5.12a.
- \* Proposed (application) turbines: See Figure 5.13a.
- \* Viewpoint height set to 2 m AGL.

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**Scale @ A3: 1:160,000**

Coordinate System: British National Grid

0 2.5 5 7.5 10 km

N

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