

BLACKWOOD WIND FARM

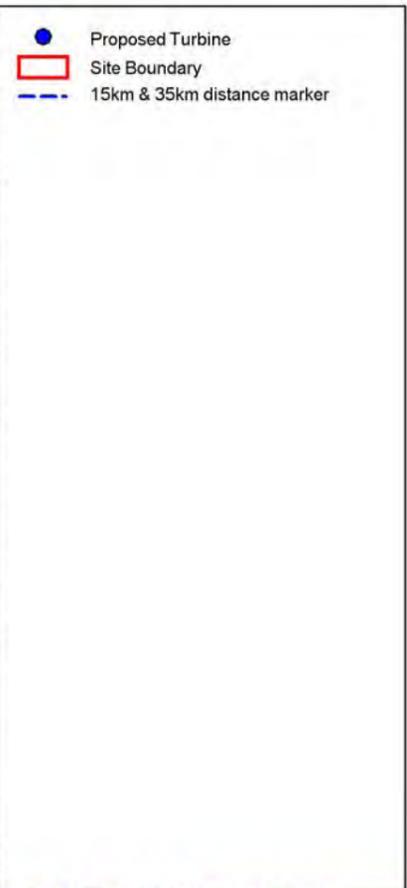
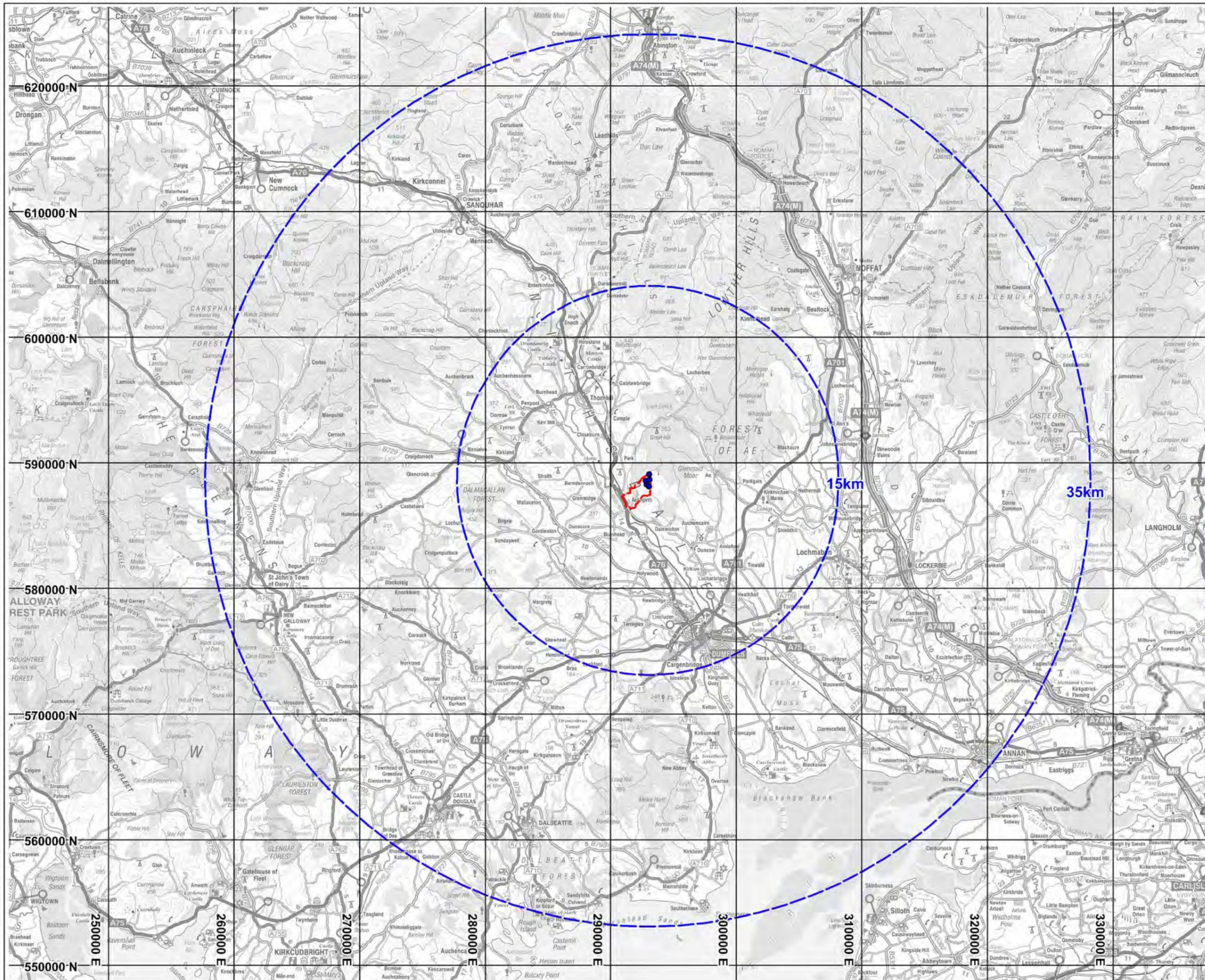
Environmental Statement

Volume 2: LVIA Figures and Visualisations
January 2012



BLACKWOOD WIND FARM ENVIRONMENTAL STATEMENT VOLUME 2 LVIA FIGURES AND VISUALISATIONS

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8.19b	VP 12: Throughgate House (montage)				



Rev	Date	Description	Drn	Chk	App
00	27.10.11	LVIA Study Area	BF	MK	MK

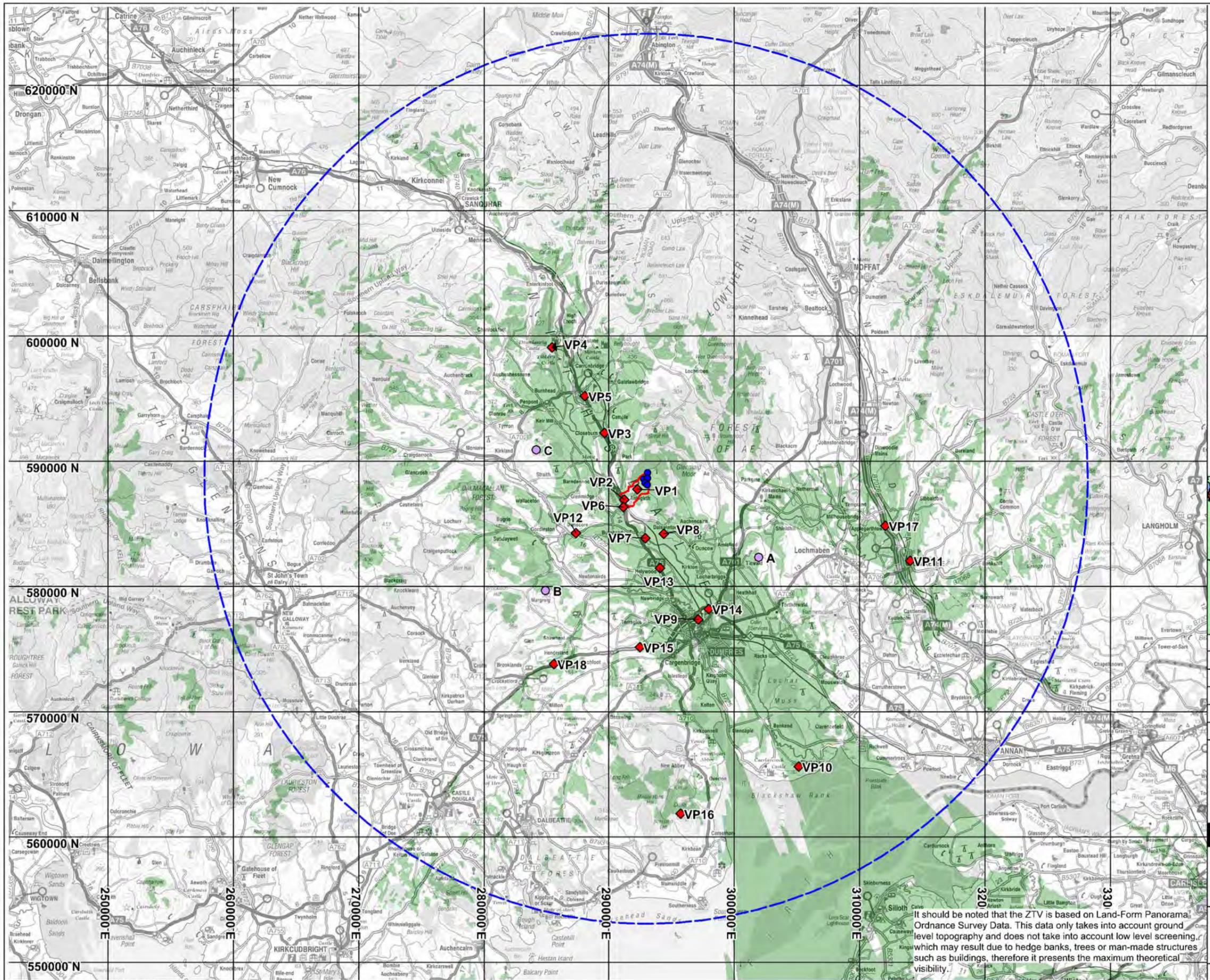
FORCE 9 ENERGY

Blackwood Wind Farm

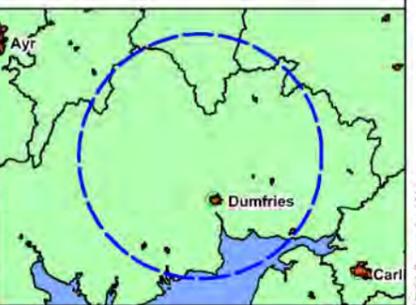
RSK

Figure B 1: LVIA Study Area

SCALE: 1:300,000 @ A3



- Proposed Turbine
 - Site Boundary
 - 35km distance marker
 - ◆ Viewpoint Location
 - Additional Wireline Location
 - Zone of Theoretical Visibility
- VP1: High Auldgrith
 VP2: Balloch Road, Auldgrith
 VP3: Shawsholm Road, Closeburn
 VP4: Picnic spot, Drumlanrig Castle
 VP5: Thornhill Conservation Area
 VP6: Auldgrith Bridge, Blackwood
 VP7: Ellisland Farm
 VP8: Dalswinton HGDL
 VP9: Maxwelltown Railway Path, Dumfries
 VP10: Farmhouse Tower, Caerlaverock Wetland Centre
 VP11: Lambhill Terrace, Lockerbie
 VP12: Throughgate House, Throughgate
 VP13: A75 near Muirside
 VP14: A75 near River Nith
 VP15: A75 near Castle Hill
 VP16: Criffel Hill
 VP17: M74 near Millhouse Bridge
 VP18: A 75 near Bettyknowes
- A: Back Hill
 B: Bishop Forest Hill
 C: Wauk Hill



Rev	Date	Description	Drn	Chk	App
02	11.11.11	Additional Wirelines	BF	MK	MK
01	20.11.11	Viewpoints	BF	MK	MK
00	07.04.11	Viewpoints	BF	MK	MK

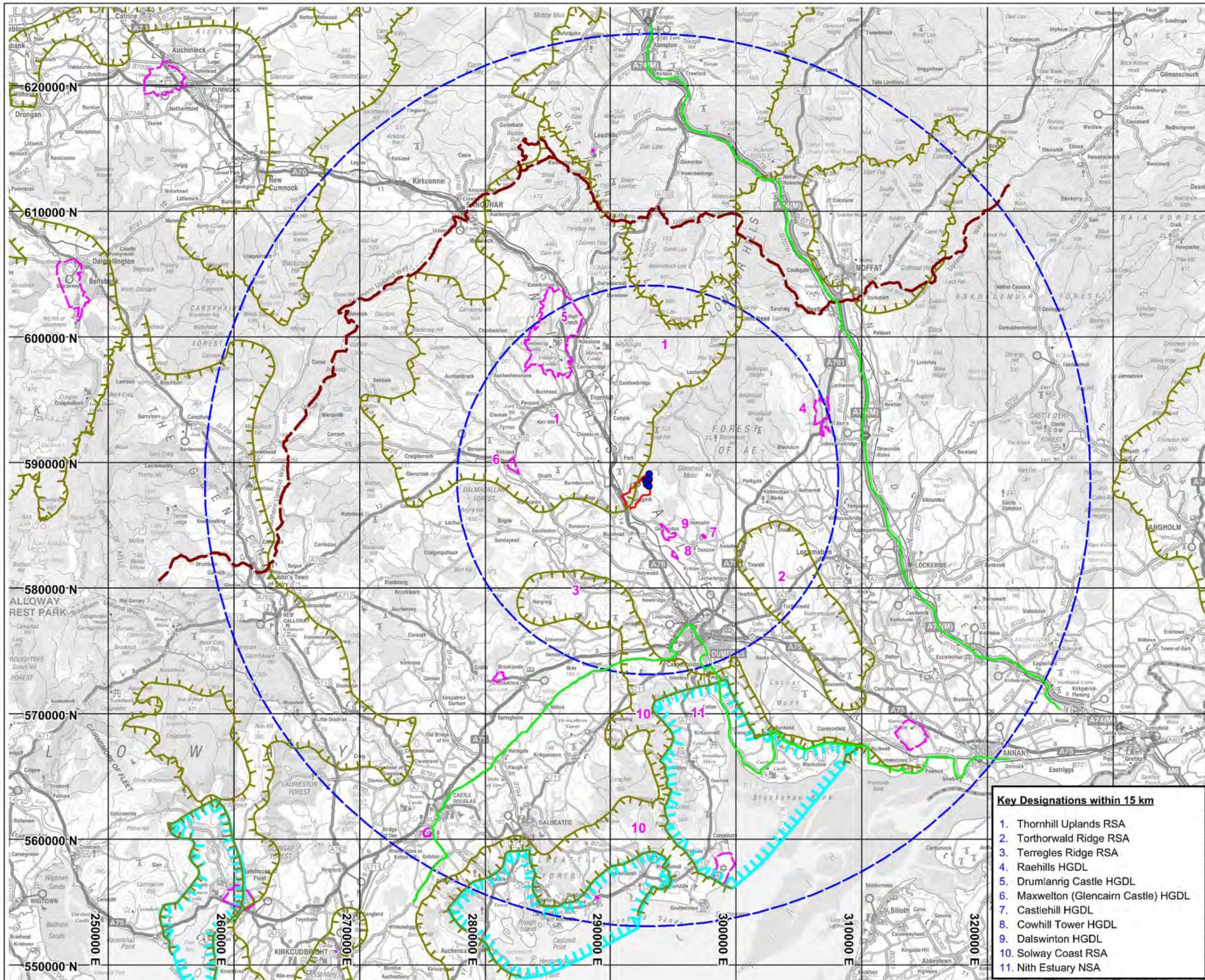


Figure 8.2: Viewpoint Plan with Zone of Theoretical Visibility

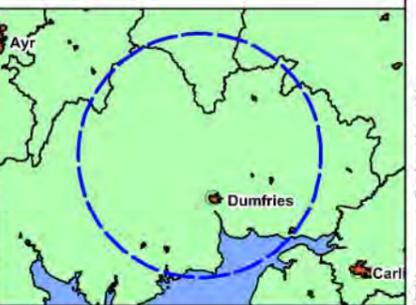
SCALE 1:300,000 @ A3

REV 02

It should be noted that the ZTV is based on Land-Form Panorama, Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



- Proposed Turbine
- Site Boundary
- 15 and 35km distance marker
- Historic Gardens & Designed Landscapes
- National Scenic Areas
- Regional Scenic Areas
- Long Distance Paths (Southern Upland Way)
- National Cycle Route



Rev	Date	Description	Drn	Chk	App
01	20.10.11	Landscape Designations	BF	MK	MK
00	12.01.11	Landscape Designations	BF	MK	MK

- Key Designations within 15 km**
1. Thornhill Uplands RSA
 2. Torthorwald Ridge RSA
 3. Terregles Ridge RSA
 4. Raehills HGDL
 5. Drumlanrig Castle HGDL
 6. Maxwellton (Glencairn Castle) HGDL
 7. Castlehill HGDL
 8. Cowhill Tower HGDL
 9. Dalswinton HGDL
 10. Solway Coast RSA
 11. Niith Estuary NSA



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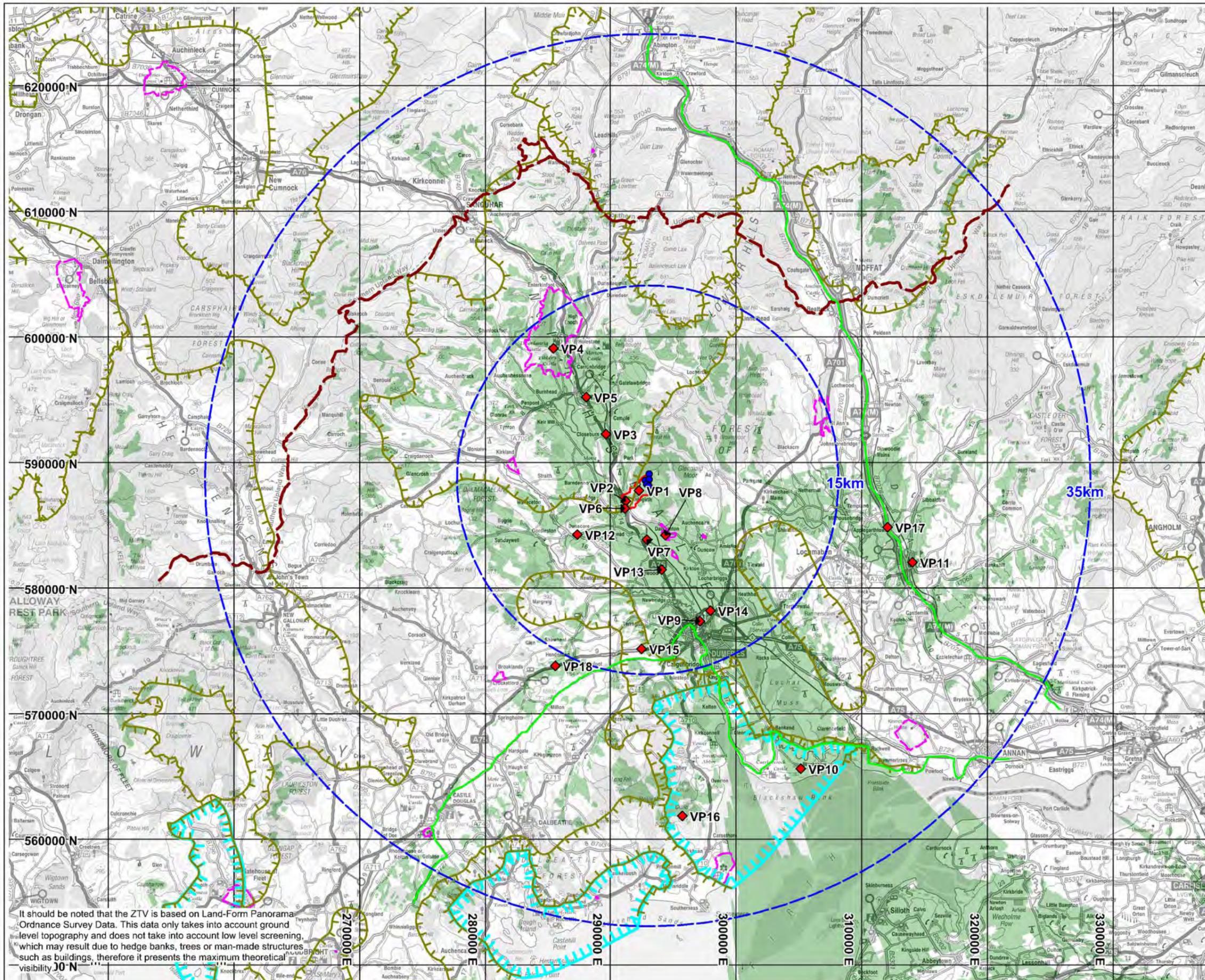
Blackwood Wind Farm



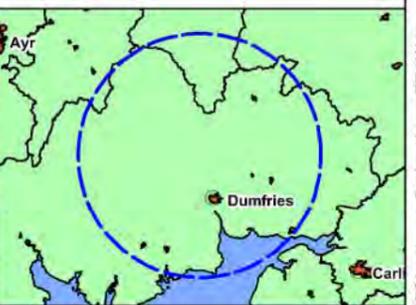
Figure B.3: Landscape Designations

SCALE: 1:300,000 @ A3

REV 01



- Proposed Turbine
- Site Boundary
- 15 and 35km distance marker
- ◆ Viewpoint Location
- Historic Gardens & Designed Landscapes
- National Scenic Areas
- Regional Scenic Areas
- Long Distance Paths (Southern Upland Way)
- National Cycle Route
- Zone of Theoretical Visibility



Rev	Date	Description	Drn	Chk	App
01	20.10.11	Landscape Designations	BF	MK	MK
00	12.01.11	Landscape Designations	BF	MK	MK



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Blackwood Wind Farm

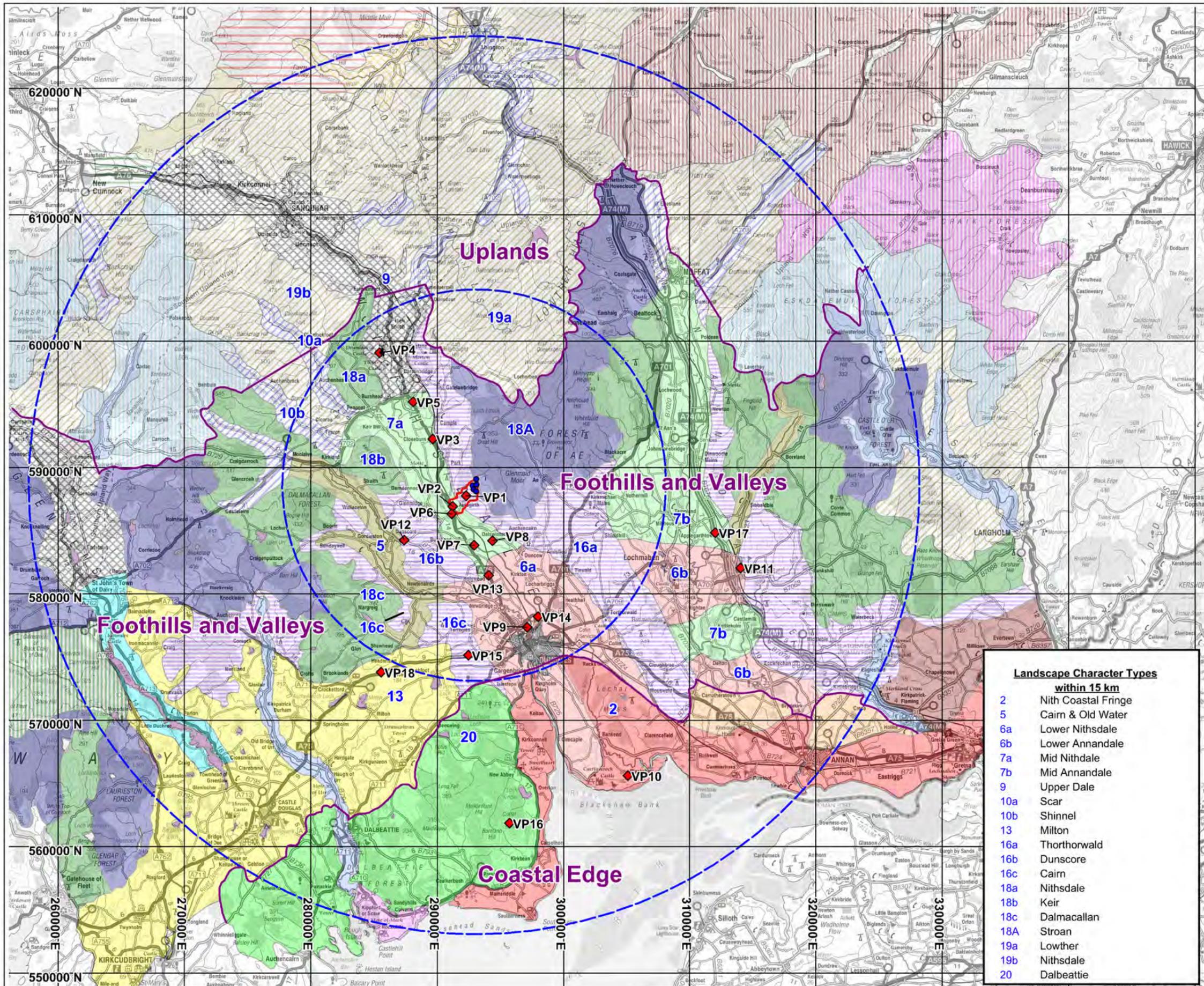


Figure B.4: Landscape Designations with ZTV

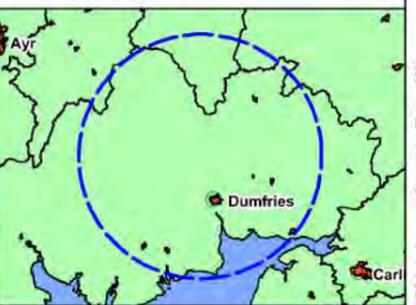
SCALE 1:300,000 @ A3

REV 01

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



Landscape Character Types	
within 15 km	
2	Nith Coastal Fringe
5	Cairn & Old Water
6a	Lower Nithsdale
6b	Lower Annandale
7a	Mid Nithdale
7b	Mid Annandale
9	Upper Dale
10a	Scar
10b	Shinnel
13	Milton
16a	Thorthorwald
16b	Dunscore
16c	Cairn
18a	Nithsdale
18b	Keir
18c	Dalmacallan
18A	Stroan
19a	Lowther
19b	Nithsdale
20	Dalbeattie



Rev	Date	Description	Drn	Chk	App
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00	12.01.11	Landscape Character	BF	MK	MK

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Blackwood Wind Farm

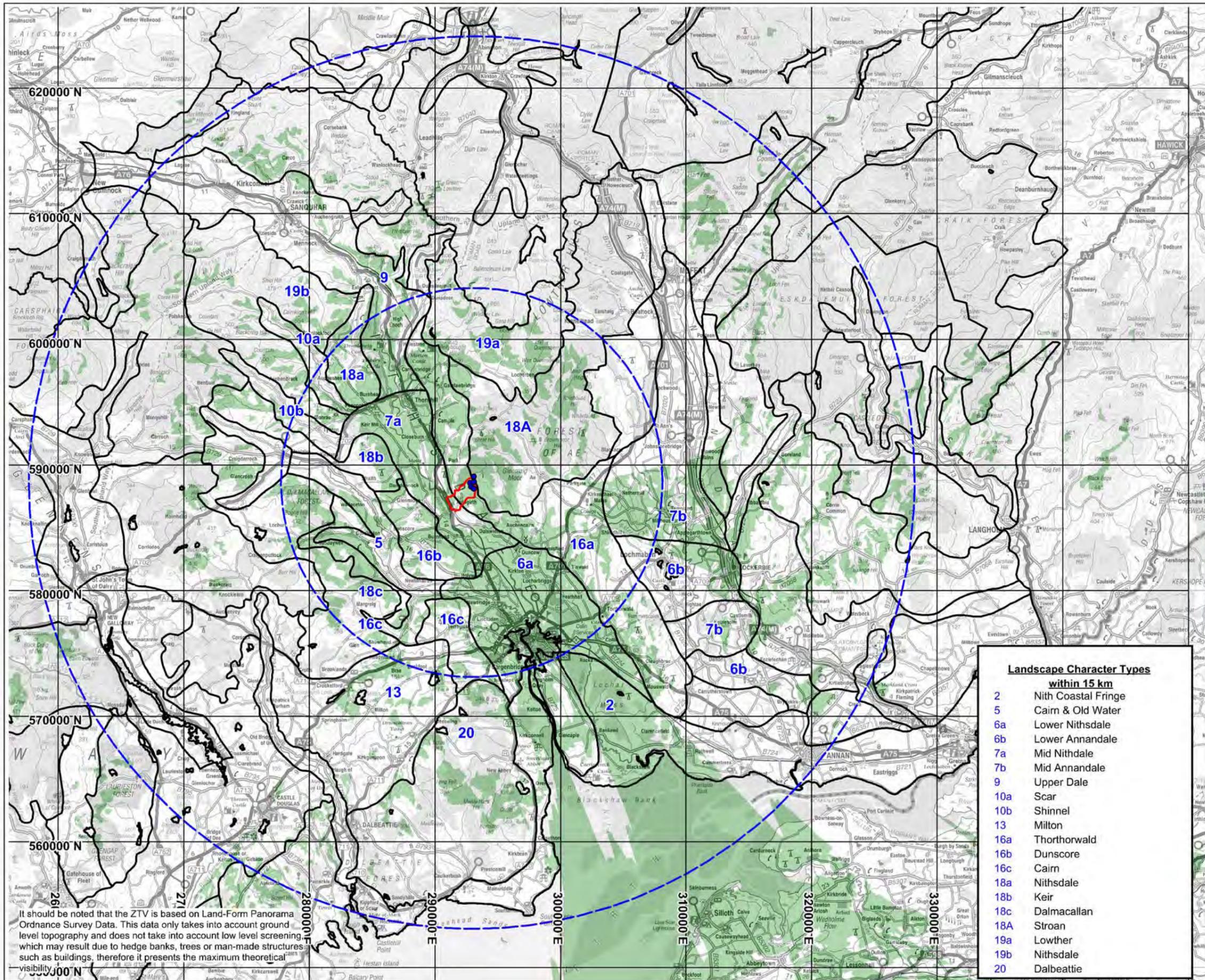
RSK

Figure B.5: SNH Landscape Character Types

SCALE: 1:300,000 @ A3

REV 01

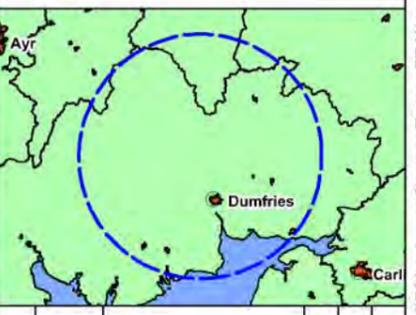
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- Proposed Turbine
- Site Boundary
- 15km and 35km distance marker
- Zone of Theoretical Visibility

Landscape Character Types

within 15 km	
2	Nith Coastal Fringe
5	Cairn & Old Water
6a	Lower Nithsdale
6b	Lower Annandale
7a	Mid Nithdale
7b	Mid Annandale
9	Upper Dale
10a	Scar
10b	Shinnel
13	Milton
16a	Thorthorwald
16b	Dunscore
16c	Cairn
18a	Nithsdale
18b	Keir
18c	Dalmacallan
18A	Stroan
19a	Lowther
19b	Nithsdale
20	Dalbeattie



Rev	Date	Description	Drn	Chk	App
02	11.11.11	Constraints Plan	BF	MK	MK
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00	12.01.11	Constraints Plan	BF	MK	MK



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Blackwood Wind Farm



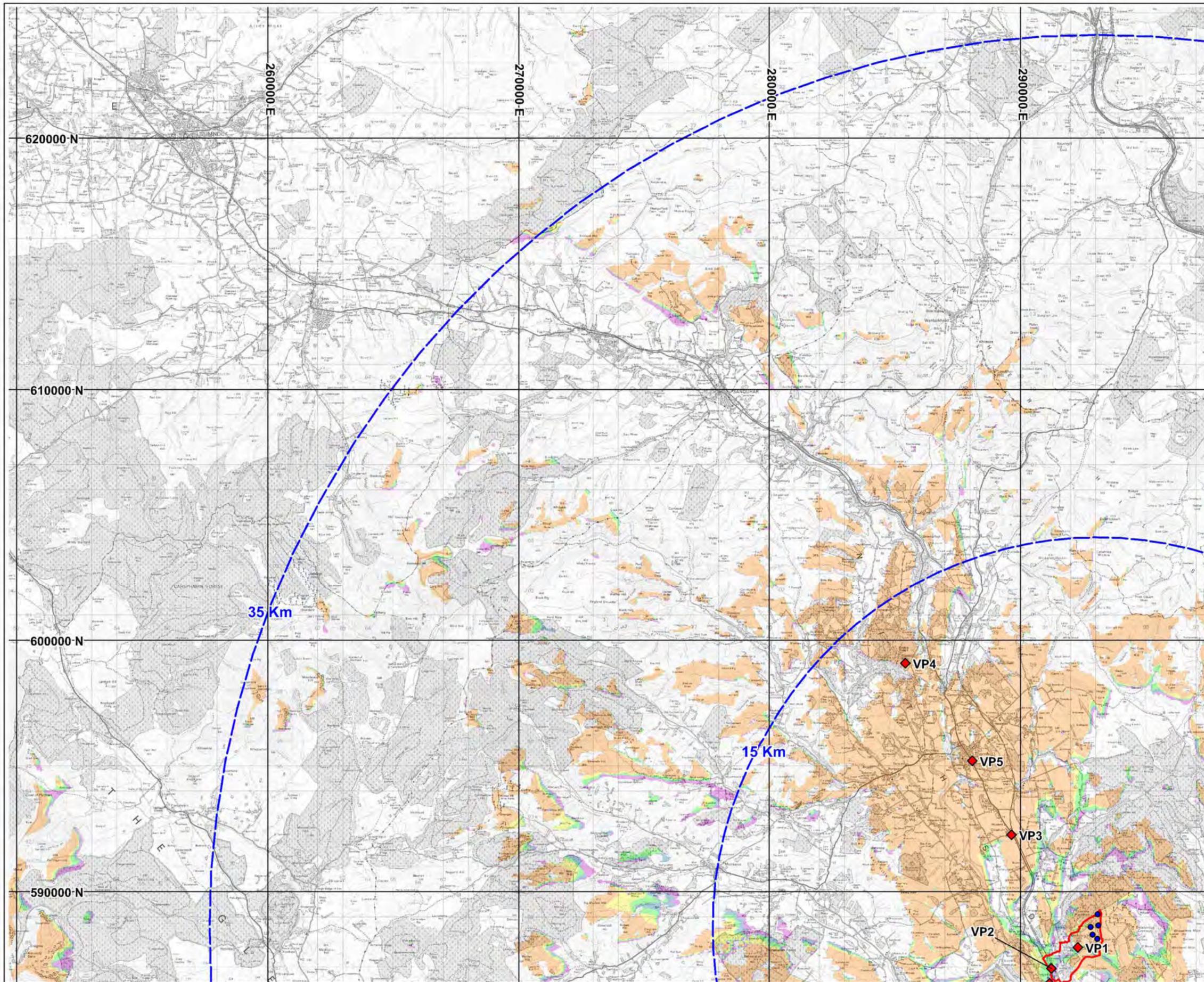
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Figure B.6: SNH Landscape Character Types with ZTV

SCALE: 1:300,000 @ A3

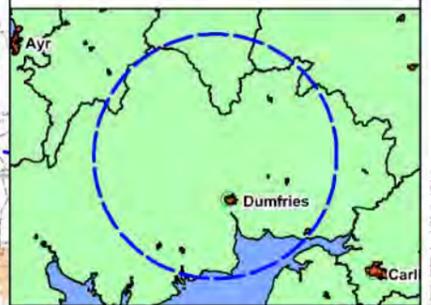
REV 02

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



- Proposed Turbine
- Site Boundary
- 35km and 15km distance marker
- ◆ Viewpoint Location
- One Turbine Visible ZTV
- Two Turbines Visible ZTV
- Three Turbines Visible ZTV
- Four Turbines Visible ZTV
- Five Turbines Visible ZTV

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



Rev	Date	Description	Drn	Chk	App
01	19.12.11	ZTVs 15km	BF	MK	MK
00	20.10.11	ZTVs 15km	BF	MK	MK



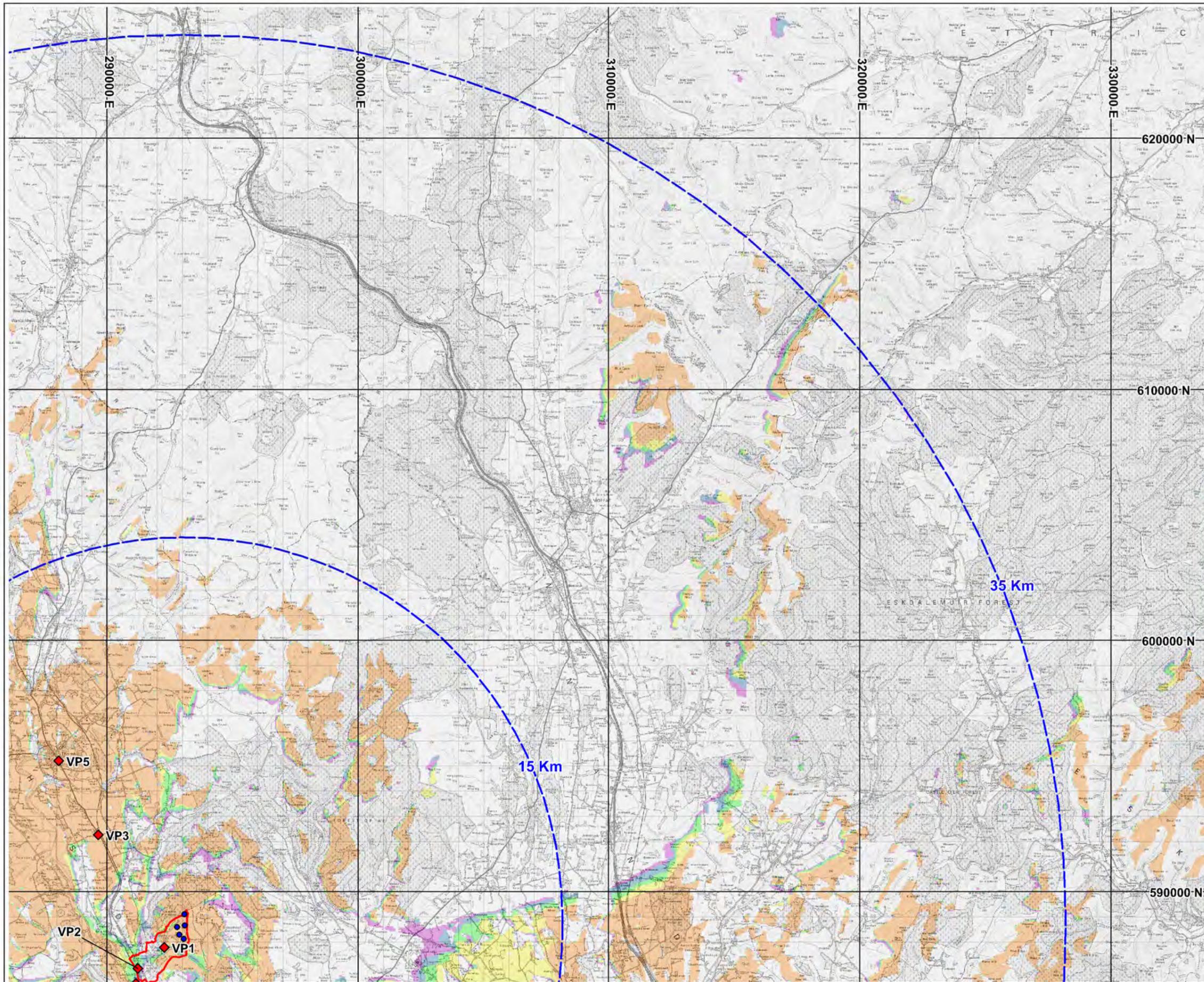
FORCE 9 ENERGY

Blackwood Wind Farm



Figure 8.7a: Blade Tip ZTV North West Quadrant (Map 1 of 4)

SCALE 1:150,000 @ A3 REV 01



- Proposed Turbine
- ▭ Site Boundary
- - - 35km and 15km distance marker
- ◆ Viewpoint Location
- One Turbine Visible ZTV
- Two Turbines Visible ZTV
- Three Turbines Visible ZTV
- Four Turbines Visible ZTV
- Five Turbines Visible ZTV

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

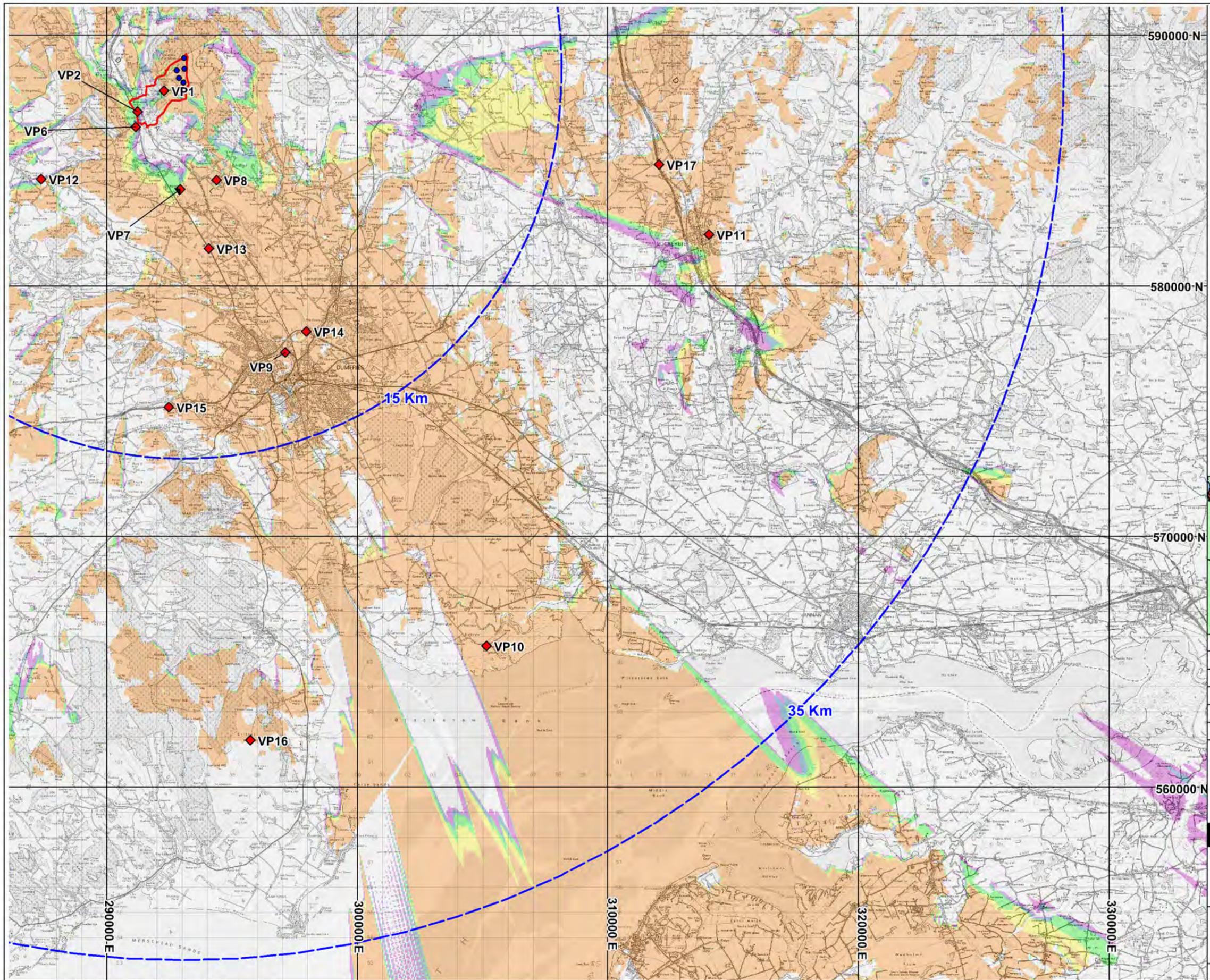


Rev	Date	Description	Drn	Chk	App
D1	19.12.11	ZTVs 15km	BF	MK	MK
00	20.10.11	ZTVs 15km	BF	MK	MK


FORCE 9 ENERGY
 Blackwood Wind Farm

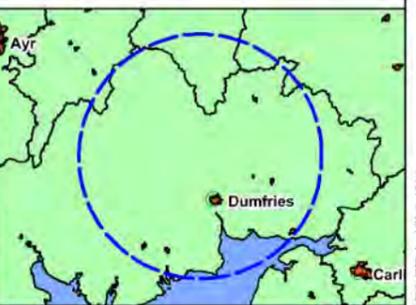
RSK

Figure 8.7b: Blade Tip ZTV North East Quadrant (Map 2 of 4)



- Proposed Turbine
- Site Boundary
- 35km and 15km distance marker
- ◆ Viewpoint Location
- One Turbine Visible ZTV
- Two Turbines Visible ZTV
- Three Turbines Visible ZTV
- Four Turbines Visible ZTV
- Five Turbines Visible ZTV

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



Rev	Date	Description	Drn	Chk	App
01	19.12.11	ZTVs 15km	BF	MK	MK
00	20.10.11	ZTVs 15km	BF	MK	MK



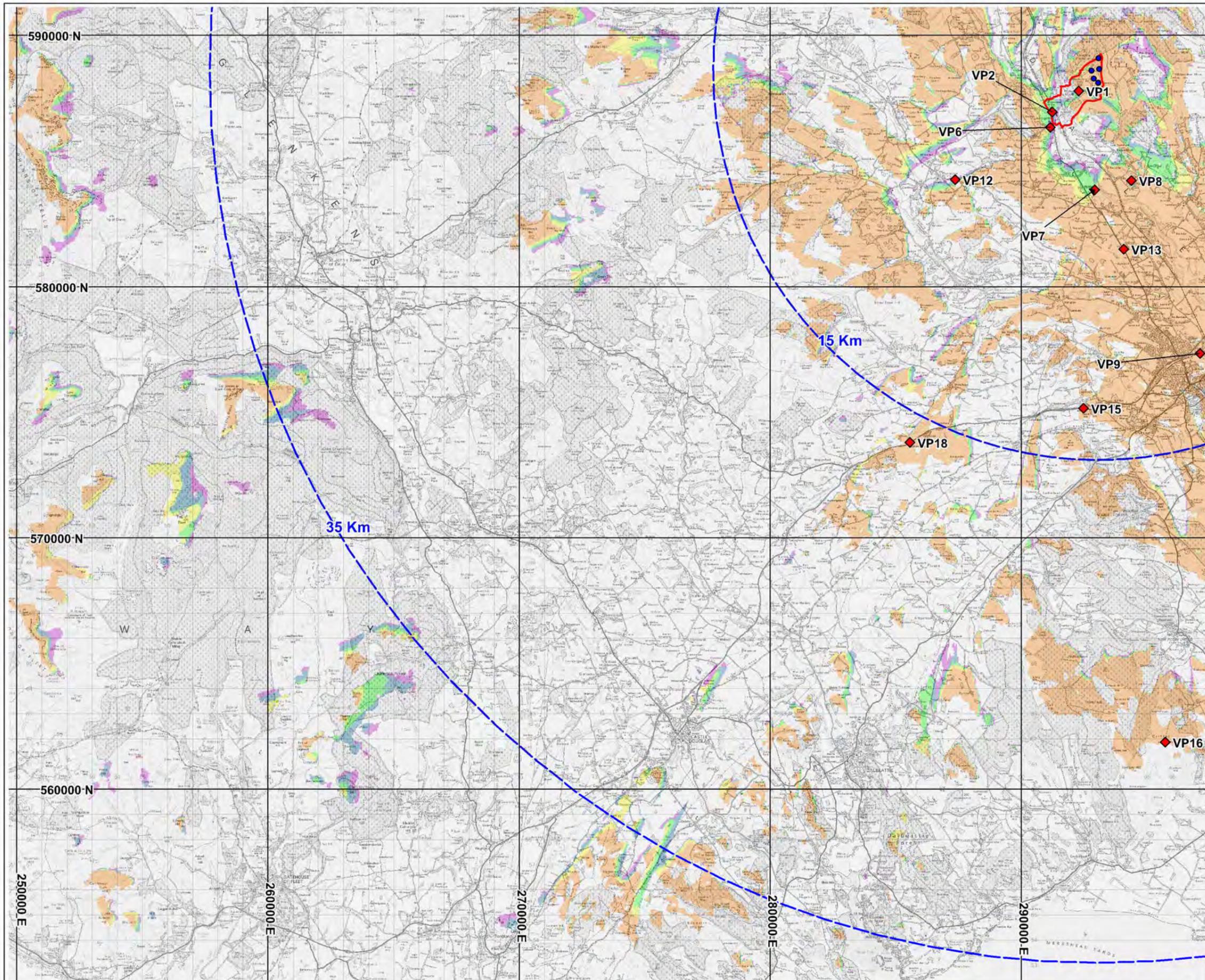
FORCE 9 ENERGY

Blackwood Wind Farm



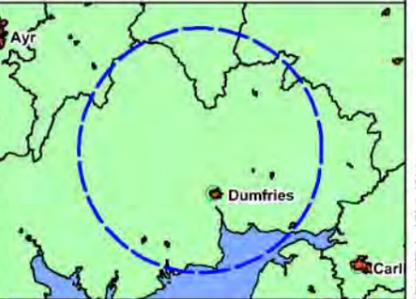
Figure 8.7c: Blade Tip ZTV South East Quadrant (Map 3 of 4)

SCALE 1:150,000 @ A3 REV 01



- Proposed Turbine
- Site Boundary
- 35km and 15km distance marker
- ◆ Viewpoint Location
- One Turbine Visible ZTV
- Two Turbines Visible ZTV
- Three Turbines Visible ZTV
- Four Turbines Visible ZTV
- Five Turbines Visible ZTV

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



Rev	Date	Description	Drn	Chk	App
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00	20.10.11	ZTVs 15km	BF	MK	MK

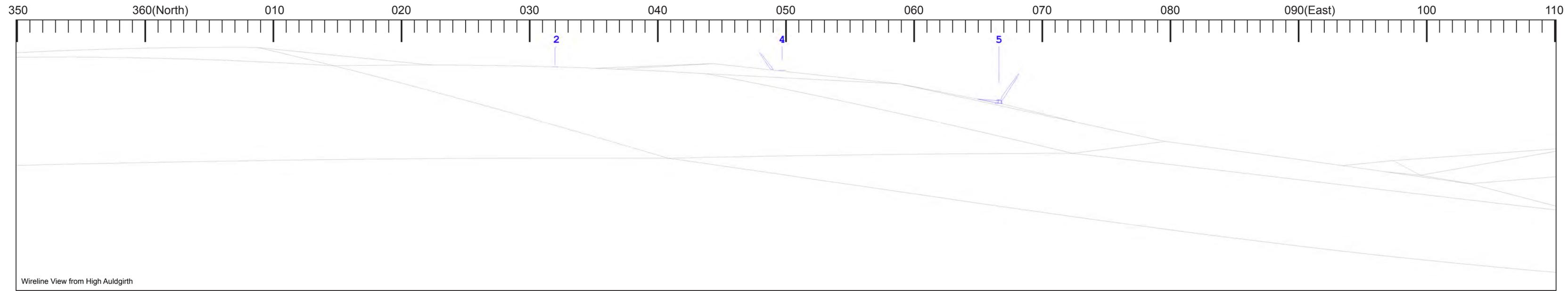


FORCE 9 ENERGY

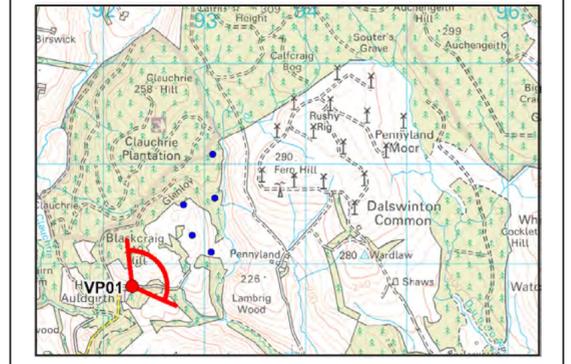
Blackwood Wind Farm



Figure 8.7d: Blade Tip ZTV South West Quadrant (Map 4 of 4)



Viewpoint title : High Auldgirth
 Grid reference : 292281, 587778
 Direction of view : 50°
 Included angle of view : 120°
 Elevation : 198m
 Date of photograph : 15th September 2011
 Time of photograph : 13:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 0.8km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 3
 Number of turbine hubs visible : 1



Viewpoint 1
High Auldgirth
 Existing View and Wireline
 Figure 8.8a

Blackwood Wind Farm

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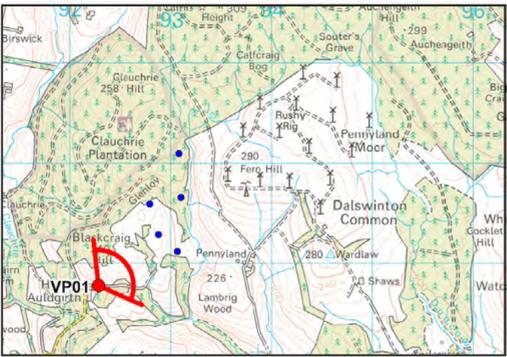


Photomontage View from High Auldgirth

File Reference: P1902003 Illustration File\VP1-PM-120.ai Rev:01

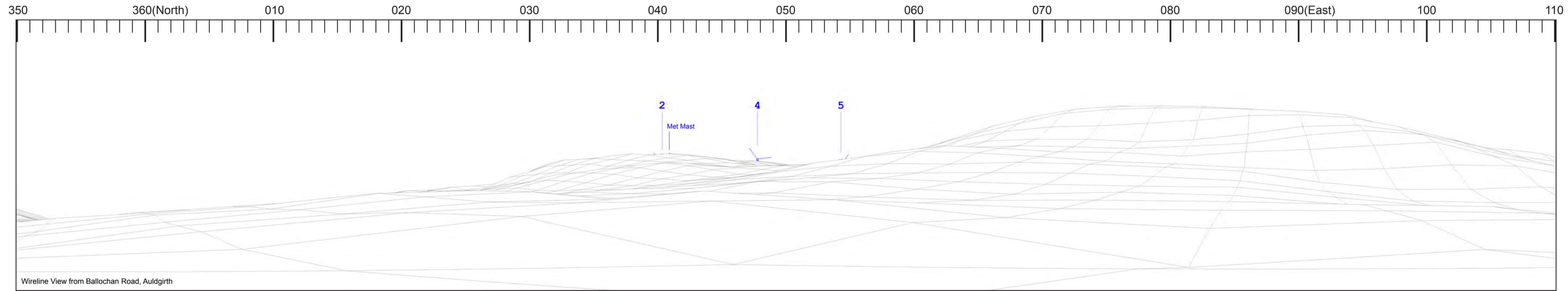


Viewpoint title : High Auldgirth
 Grid reference : 292281, 587778
 Direction of view : 50°
 Included angle of view : 120°
 Elevation : 198m
 Date of photograph : 15th September 2011
 Time of photograph : 13:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 0.8km
 Correct viewing distance: 31cm



Viewpoint 1
High Auldgirth
Photomontage View
 Figure 8.8b

Blackwood Wind Farm



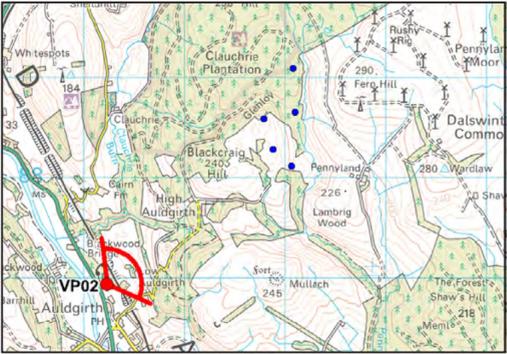
Wireline View from Ballochran Road, Auldgrith



Existing View from Ballochran Road, Auldgrith



Viewpoint title : Ballochran Road, Auldgrith
 Grid reference : 291229, 586938
 Direction of view : 50°
 Included angle of view : 120°
 Elevation : 40m
 Date of photograph : 15th September 2011
 Time of photograph : 13:30
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 2.1km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 3
 Number of turbine hubs visible : 1



Viewpoint 2
Ballochran Road, Auldgrith
Existing View and Wireline
 Figure 8.9a

Blackwood Wind Farm

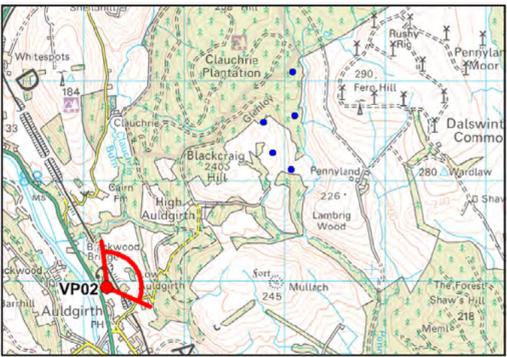
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Photomontage View from Balloch Road, Auldgirth



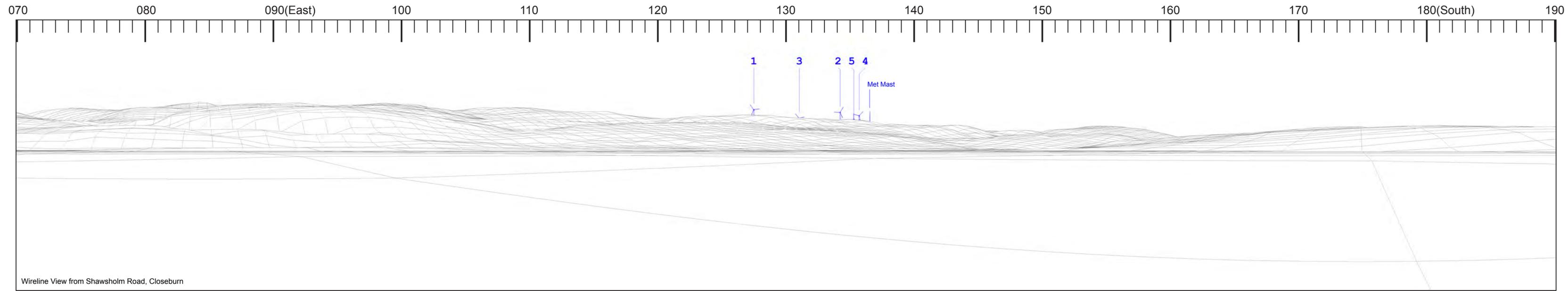
Viewpoint title : Balloch Road, Auldgirth
 Grid reference : 291229, 586938
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 Included angle of view : 120°
 Elevation : 40m
 Date of photograph : 15th September 2011
 Time of photograph : 13:30
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 2.1km
 Correct viewing distance: 31cm



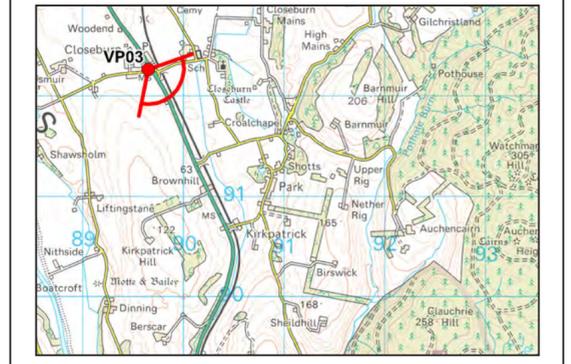
Viewpoint 2
Balloch Road, Auldgirth
Photomontage View
 Figure 8.9b

Blackwood Wind Farm

File Reference: P18020203 Illustration File VP02-P14-120-01 Rev 01



Viewpoint title : Shawsholm Road, Closeburn
 Grid reference : 289650, 592260
 Direction of view : 130°
 Included angle of view : 120°
 Elevation : 69m
 Date of photograph : 19th October 2011
 Time of photograph : 14:00
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 4.6km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 4



Viewpoint 3
Shawsholm Road, Closeburn
 Existing View and Wireline
 Figure 8.10a

Blackwood Wind Farm

File Reference: P:\020203\Illustrator Files\VP03-Ex-View-120a_Rev04

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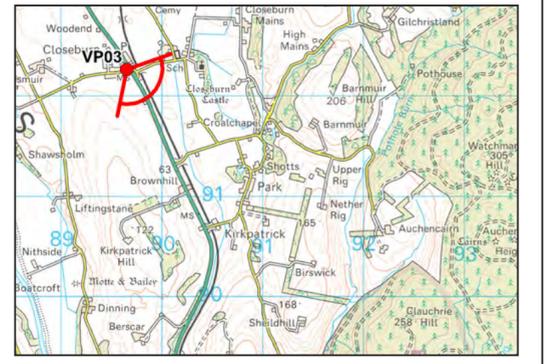


File Reference: P18020203 Illustration File VP03-P4-120 at Rev 04

Photomontage View from Shawsholm Road, Closeburn

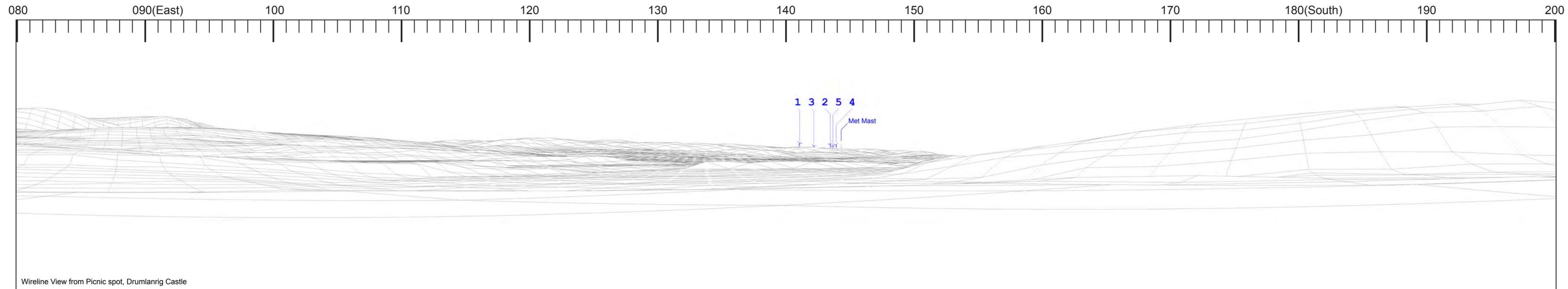


Viewpoint title : Shawsholm Road, Closeburn
 Grid reference : 289650, 592260
 Direction of view : 130°
 Included angle of view : 120°
 Elevation : 69m
 Date of photograph : 19th October 2011
 Time of photograph : 14:00
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 4.6km
 Correct viewing distance: 31cm

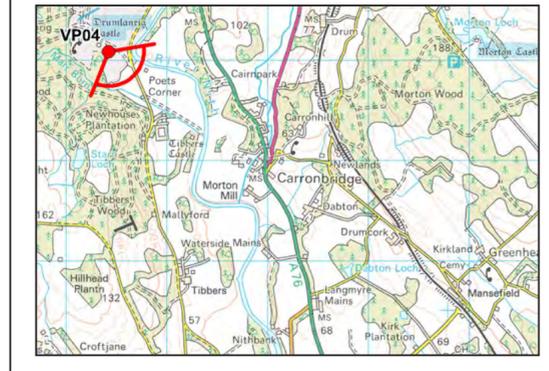


Viewpoint 3
Shawsholm Road, Closeburn
Photomontage View
 Figure 8.10b

Blackwood Wind Farm



Viewpoint title : Picnic spot, Drumlanrig Castle
 Grid reference : 285417, 599091
 Direction of view : 140°
 Included angle of view : 120°
 Elevation : 76m
 Date of photograph : 15th September 2011
 Time of photograph : 14:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 12.6km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 4
Picnic spot, Drumlanrig Castle
Existing View and Wireline
 Figure 8.11a

Blackwood Wind Farm

File Reference: P:\020203 Illustrations\Blackwood\VP04-Ex-View-02a_Rev01

080 090(East) 100 110 120 130 140 150 160 170 180(South) 190 200

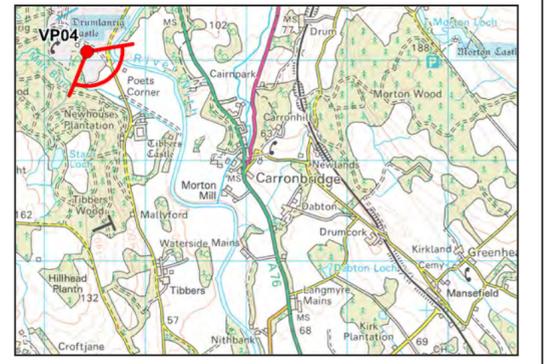


Photomontage View from Picnic spot, Drumlanrig Castle

File Reference: P19026203 Illustration File: VP04-PM-120.ai Rev:01

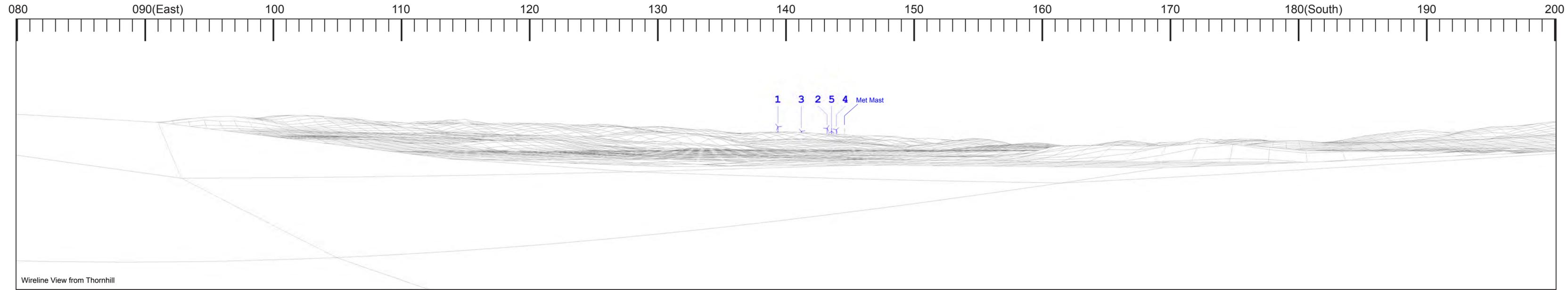


Viewpoint title : Picnic spot, Drumlanrig Castle
 Grid reference : 285417, 599091
 Direction of view : 140°
 Included angle of view : 120°
 Elevation : 76m
 Date of photograph : 15th September 2011
 Time of photograph : 14:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 12.6km
 Correct viewing distance: 31cm

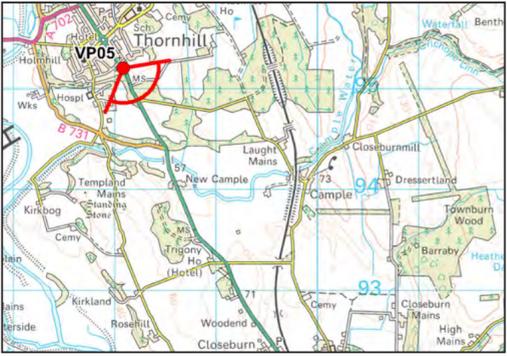


Viewpoint 4
Picnic spot, Drumlanrig Castle
Photomontage View
 Figure 8.11b

Blackwood Wind Farm



Viewpoint title : Thornhill
 Grid reference : 288083, 595205
 Direction of view : 140°
 Included angle of view : 120°
 Elevation : 72m
 Date of photograph : 19th October 2011
 Time of photograph : 14:30
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 7.9km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 5
Thornhill
Existing View and Wireline
 Figure 8.12a

Blackwood Wind Farm

File Reference: P:\020203_illustrator\Blackwood\VP05_03a_VF_120a_Rev01

080 090(East) 100 110 120 130 140 150 160 170 180(South) 190 200

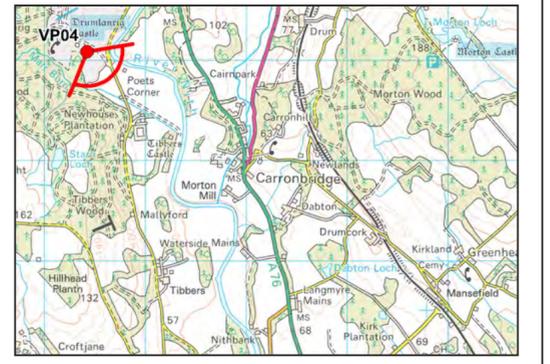


Photomontage View from Picnic spot, Drumlanrig Castle

File Reference: P19026203 Illustration File: VP04-P14-120.ai Rev:01

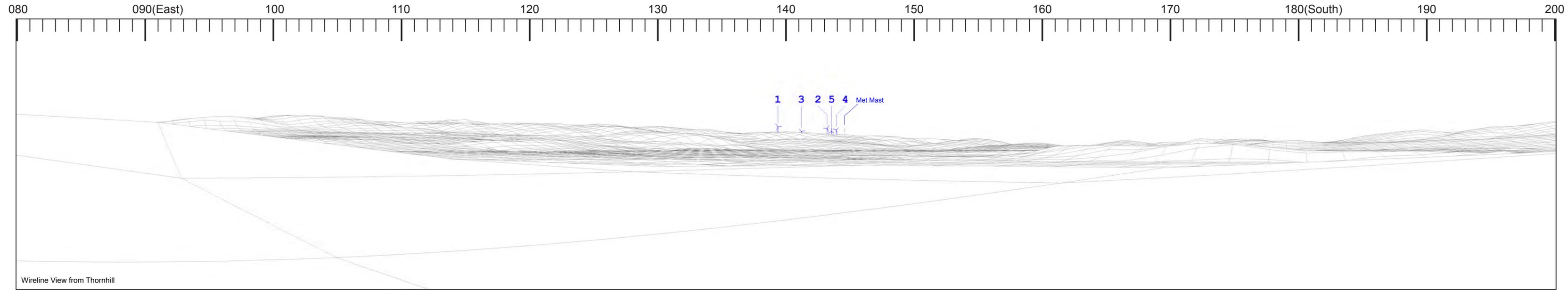


Viewpoint title : Picnic spot, Drumlanrig Castle
 Grid reference : 285417, 599091
 Direction of view : 140°
 Included angle of view : 120°
 Elevation : 76m
 Date of photograph : 15th September 2011
 Time of photograph : 14:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 12.6km
 Correct viewing distance: 31cm

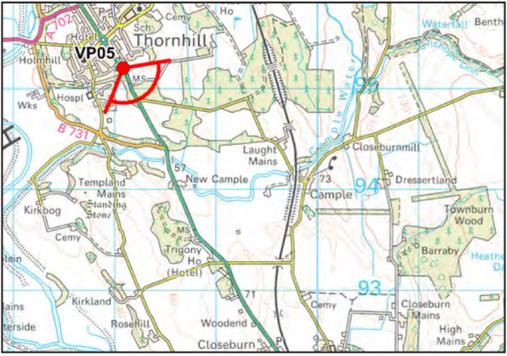


Viewpoint 4
Picnic spot, Drumlanrig Castle
Photomontage View
 Figure 8.11b

Blackwood Wind Farm



Viewpoint title : Thornhill
 Grid reference : 288083, 595205
 Direction of view : 140°
 Included angle of view : 120°
 Elevation : 72m
 Date of photograph : 19th October 2011
 Time of photograph : 14:30
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 7.9km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 5
Thornhill
Existing View and Wireline
 Figure 8.12a

Blackwood Wind Farm

File Reference: P:\020203_illustrator\Blackwood\VP05-Ex-View-120a_Rev01

080 090(East) 100 110 120 130 140 150 160 170 180(South) 190 200

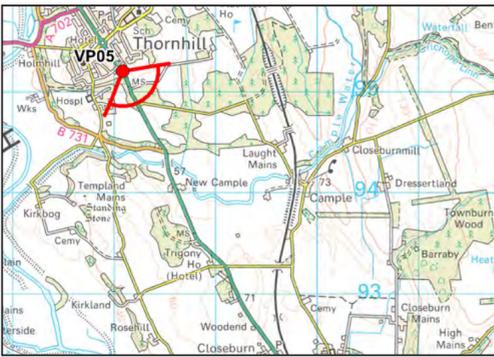


Photomontage View from Thornhill

File Reference: P19/202/03 Illustration File/VP5-PM-120 at Rev 01

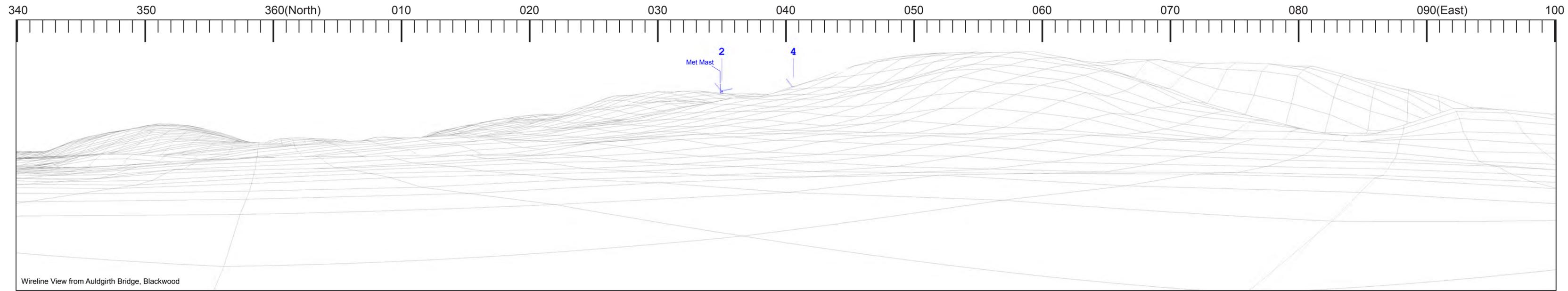


Viewpoint title : Thornhill
 Grid reference : 288083, 595205
 Direction of view : 140°
 Included angle of view : 120°
 Elevation : 72m
 Date of photograph : 19th October 2011
 Time of photograph : 14:30
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 7.9km
 Correct viewing distance: 31cm

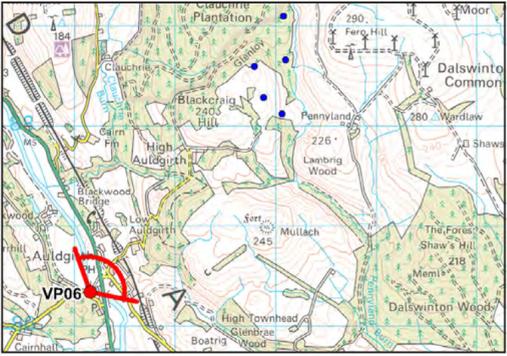


**Viewpoint 5
 Thornhill
 Photomontage View
 Figure 8.12b**

Blackwood Wind Farm



Viewpoint title : Auldgirth Bridge, Blackwood
 Grid reference : 291153, 586339
 Direction of view : 40°
 Included angle of view : 120°
 Elevation : 27m
 Date of photograph : 12th July 2011
 Time of photograph : 13:45
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 2.6km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 2
 Number of turbine hubs visible : 1



Viewpoint 6
Auldgirth Bridge, Blackwood
 Existing View and Wireline
 Figure 8.13a

Blackwood Wind Farm



File Reference: P:\020203 Illustration Files\VP06-Ex-View-120a_Rev04

340 350 360(North) 010 020 030 040 050 060 070 080 090(East) 100

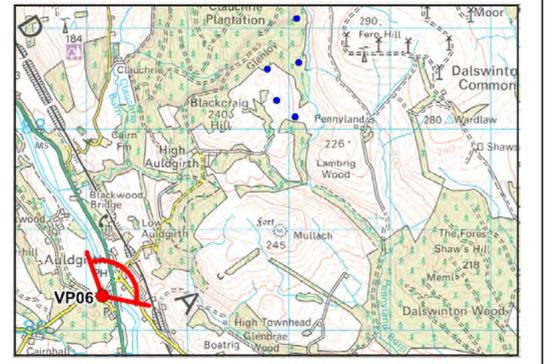


File Reference: P15020203 Illustration File\VP6-P14-120.ai Rev:04

Photomontage View from Auldgirth Bridge, Blackwood

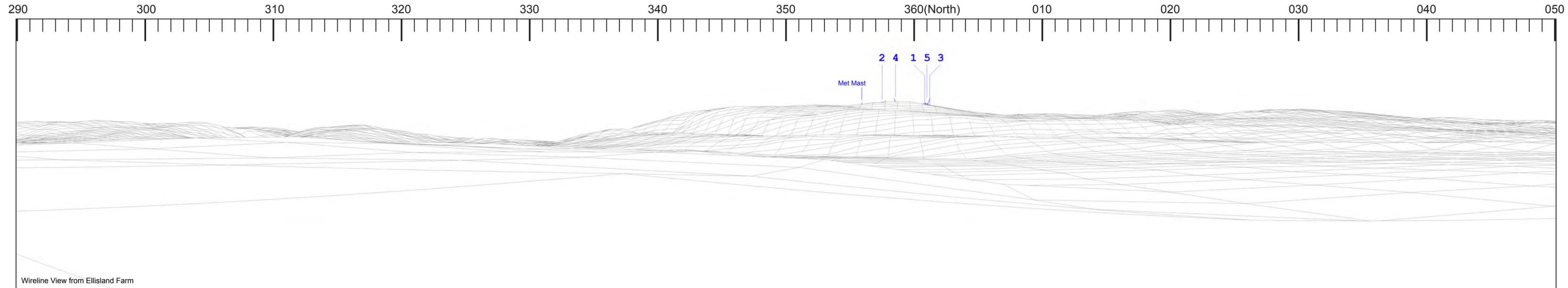


Viewpoint title : Auldgirth Bridge, Blackwood
 Grid reference : 291153, 586339
 Direction of view : 40°
 Included angle of view : 120°
 Elevation : 27m
 Date of photograph : 12th July 2011
 Time of photograph : 13:45
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 2.6km
 Correct viewing distance: 31cm

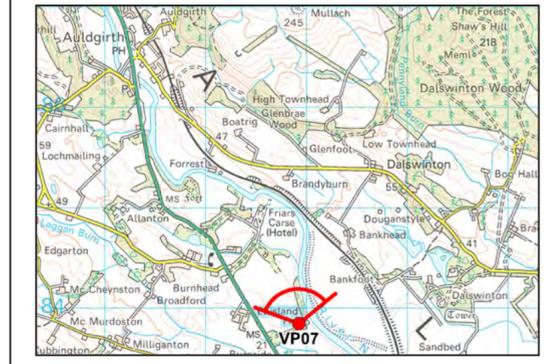


Viewpoint 6
Auldgirth Bridge, Blackwood
Photomontage View
 Figure 8.13b

Blackwood Wind Farm



Viewpoint title : Ellisland Farm
 Grid reference : 292922, 583845
 Direction of view : 350°
 Included angle of view : 120°
 Elevation : 30m
 Date of photograph : 12th July 2011
 Time of photograph : 12:30
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 4.3km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 1



Viewpoint 7
Ellisland Farm
 Existing View and Wireline
 Figure 8.14a

Blackwood Wind Farm

File Reference: P:\020203 Illustrations\Blackwood\VP07 EA-WF-120a_Rev04

290 300 310 320 330 340 350 360(North) 010 020 030 040 050

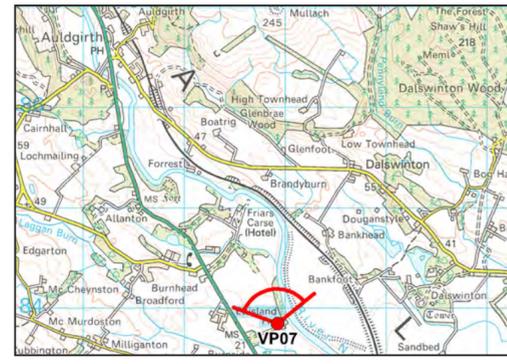


Photomontage View from Ellisland Farm

File Reference: P15020203 Illustration File VP07_P14_120 at Rev 04

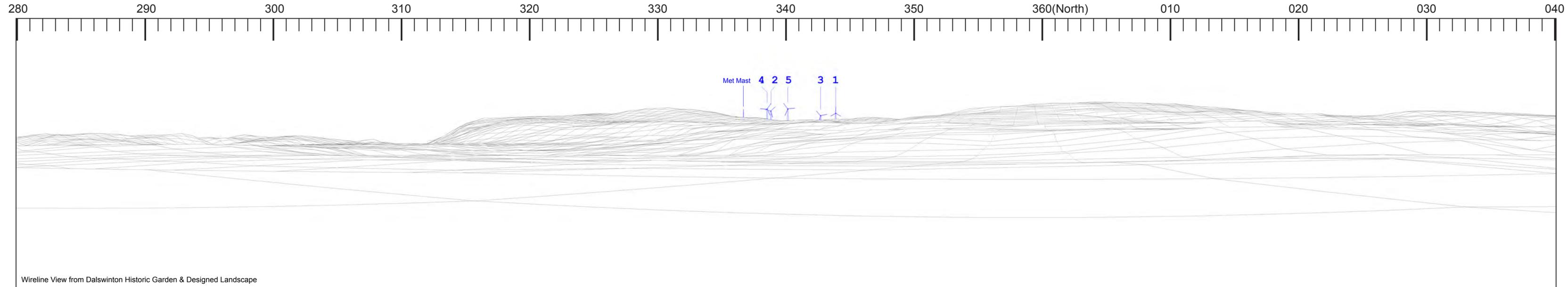


Viewpoint title : Ellisland Farm
 Grid reference : 292922, 583845
 Direction of view : 350°
 Included angle of view : 120°
 Elevation : 30m
 Date of photograph : 12th July 2011
 Time of photograph : 12:30
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 4.3km
 Correct viewing distance: 31cm



Viewpoint 7
Ellisland Farm
Photomontage View
 Figure 8.14b

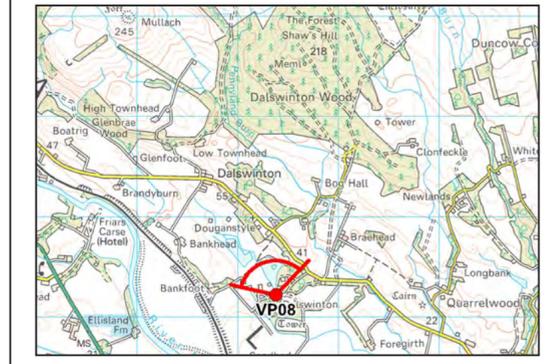
Blackwood Wind Farm



Wireline View from Dalswinton Historic Garden & Designed Landscape



Viewpoint title : Dalswinton Historic Garden & Designed Landscape
 Grid reference : 294379, 584219
 Direction of view : 340°
 Included angle of view : 120°
 Elevation : 28m
 Date of photograph : 12th July 2011
 Time of photograph : 15:30
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 4.1km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 8
Dalswinton
Historic Garden & Designed Landscape
Existing View and Wireline
 Figure 8.15a

Blackwood Wind Farm



Existing View from Dalswinton Historic Garden & Designed Landscape

280 290 300 310 320 330 340 350 360(North) 010 020 030 040

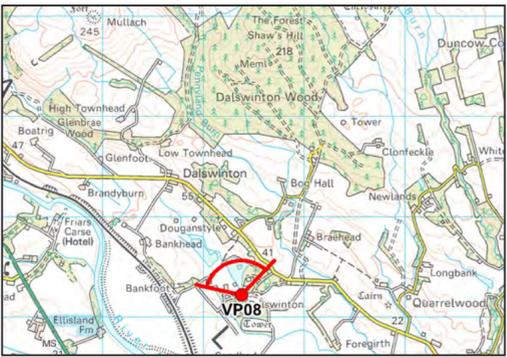


Photomontage View from Dalswinton Historic Garden & Designed Landscape

File Reference: P19020203 Illustration File\VP08-PM-120a1_Rev04

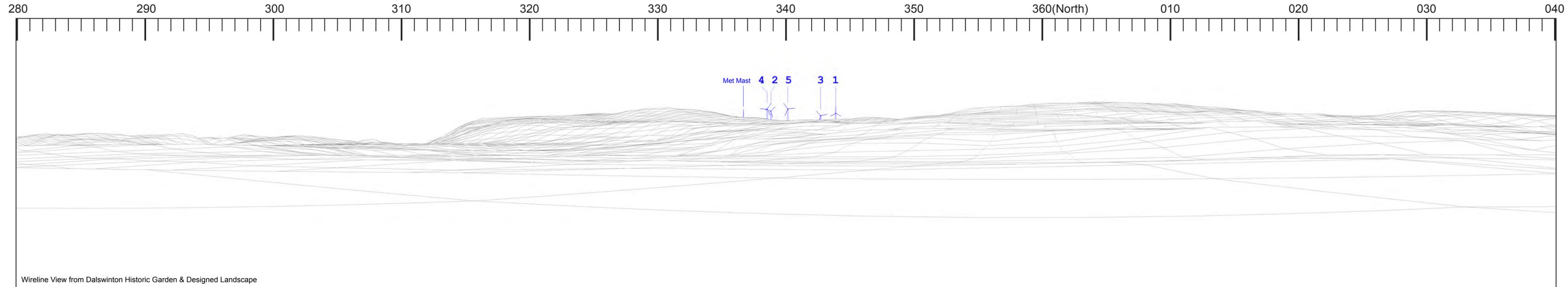


Viewpoint title : Dalswinton Historic Garden & Designed Landscape
 Grid reference : 294379, 584219
 Direction of view : 340°
 Included angle of view : 120°
 Elevation : 28m
 Date of photograph : 12th July 2011
 Time of photograph : 15:30
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 4.1km
 Correct viewing distance: 31cm

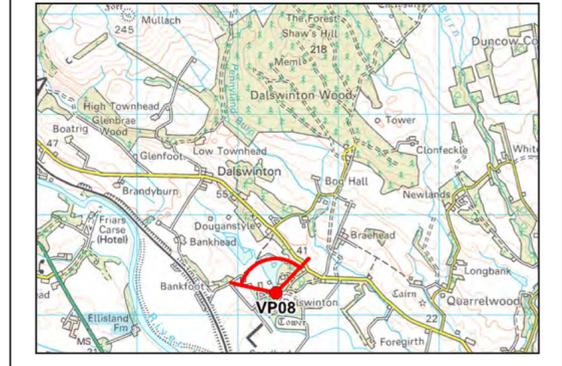


Viewpoint 8
Dalswinton
Historic Garden & Designed Landscape
Photomontage View
 Figure 8.15b

Blackwood Wind Farm



Viewpoint title : Dalswinton Historic Garden & Designed Landscape
 Grid reference : 294379, 584219
 Direction of view : 340°
 Included angle of view : 120°
 Elevation : 28m
 Date of photograph : 12th July 2011
 Time of photograph : 15:30
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 4.1km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 8
Dalswinton
Historic Garden & Designed Landscape
Existing View and Wireline
 Figure 8.15a

Blackwood Wind Farm



280 290 300 310 320 330 340 350 360(North) 010 020 030 040

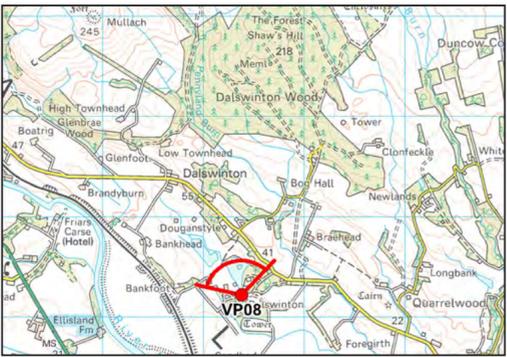


Photomontage View from Dalswinton Historic Garden & Designed Landscape

File Reference: P19020203 Illustration File\VP08-PM-120a1_Rev04

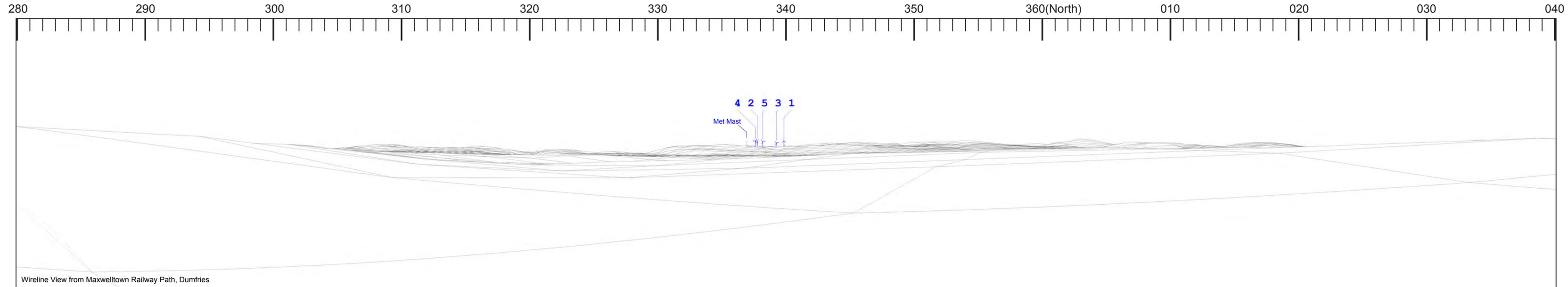


Viewpoint title : Dalswinton Historic Garden & Designed Landscape
 Grid reference : 294379, 584219
 Direction of view : 340°
 Included angle of view : 120°
 Elevation : 28m
 Date of photograph : 12th July 2011
 Time of photograph : 15:30
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 4.1km
 Correct viewing distance: 31cm

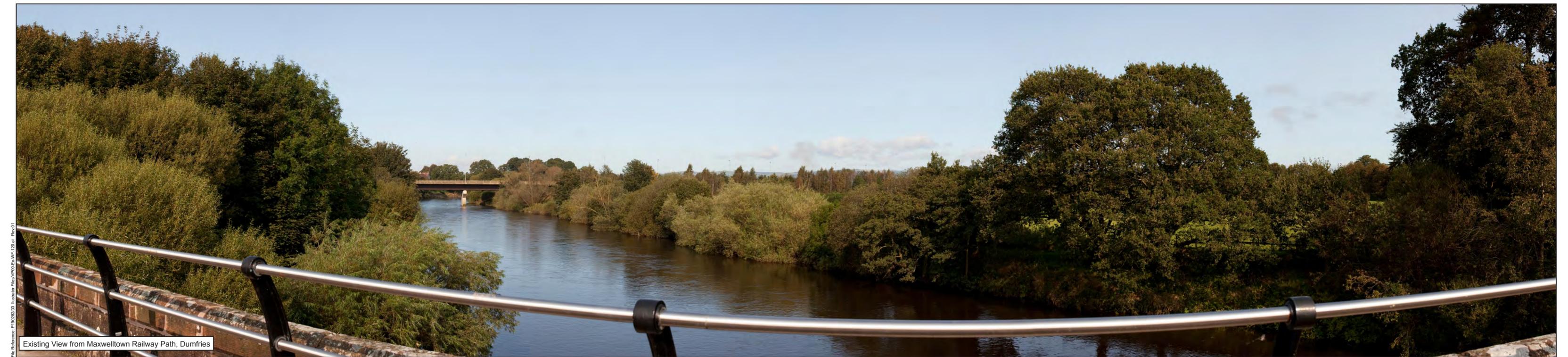
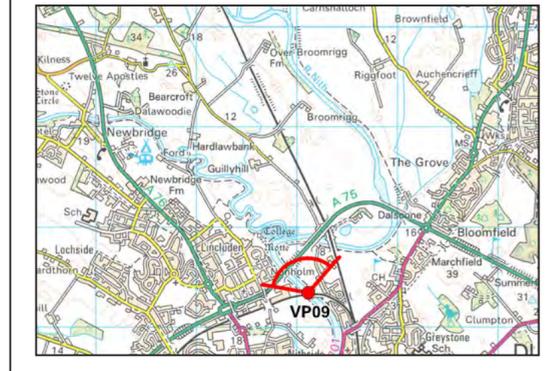


Viewpoint 8
Dalswinton
Historic Garden & Designed Landscape
Photomontage View
 Figure 8.15b

Blackwood Wind Farm



Viewpoint title : Maxwelltown Railway Path, Dumfries
 Grid reference : 297113, 577346
 Direction of view : 340°
 Included angle of view : 120°
 Elevation : 4m
 Date of photograph : 15th September 2011
 Time of photograph : 11:30
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 11.5km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 9
Maxwelltown Railway Path, Dumfries
Existing View and Wireline
 Figure 8.16a

Blackwood Wind Farm

File Reference: P:\020200_Insulator Feas\VP09-FE-WF-120a_Rev01

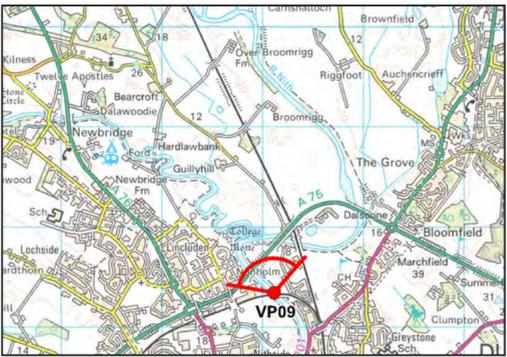
280 290 300 310 320 330 340 350 360(North) 010 020 030 040



Photomontage View from Maxwelltown Railway Path, Dumfries

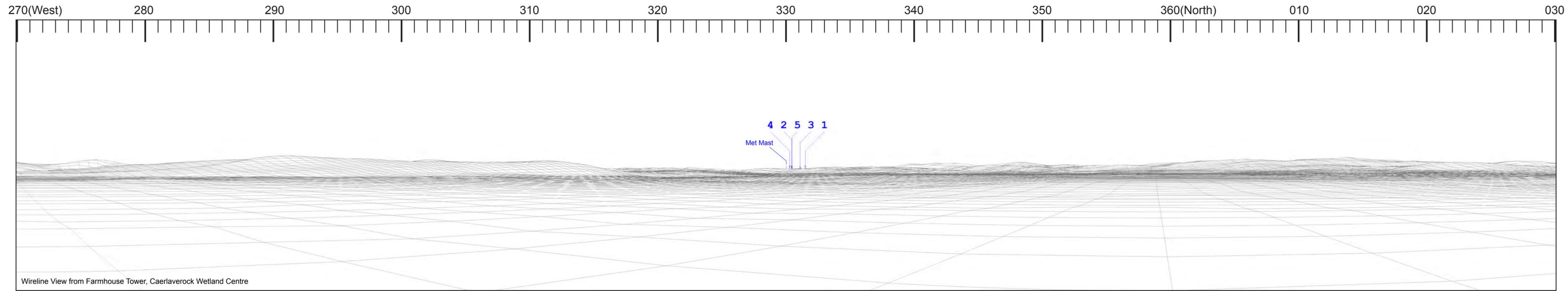


Viewpoint title : Maxwelltown Railway Path, Dumfries
 Grid reference : 297113, 577346
 Direction of view : 340°
 Included angle of view : 120°
 Elevation : 4m
 Date of photograph : 15th September 2011
 Time of photograph : 11:30
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 11.5km
 Correct viewing distance: 31cm

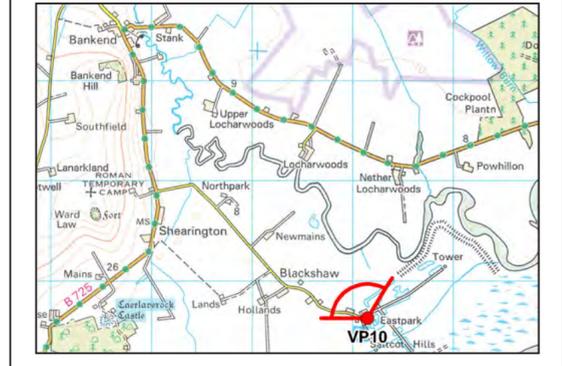


Viewpoint 9
Maxwelltown Railway Path, Dumfries
Photomontage View
 Figure 8.16b

Blackwood Wind Farm



Viewpoint title : Farmhouse Tower, Caerlaverock Wetland Centre
 Grid reference : 305147, 565626
 Direction of view : 330°
 Included angle of view : 120°
 Elevation : 15m
 Date of photograph : 22nd September 2011
 Time of photograph : 15:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 25.5km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 10
Farmhouse Tower, Caerlaverock Wetland Centre
 Existing View and Wireline
 Figure 8.17a

Blackwood Wind Farm



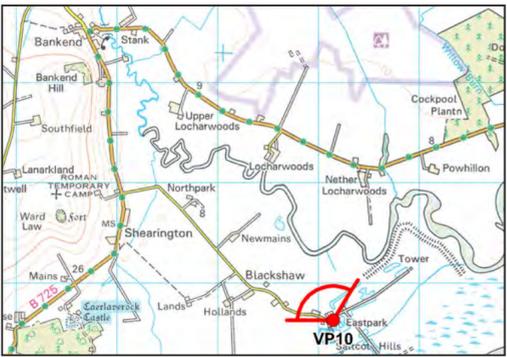
270(West) 280 290 300 310 320 330 340 350 360(North) 010 020 030



Photomontage View from Farmhouse Tower, Caerlaverock Wetland Centre

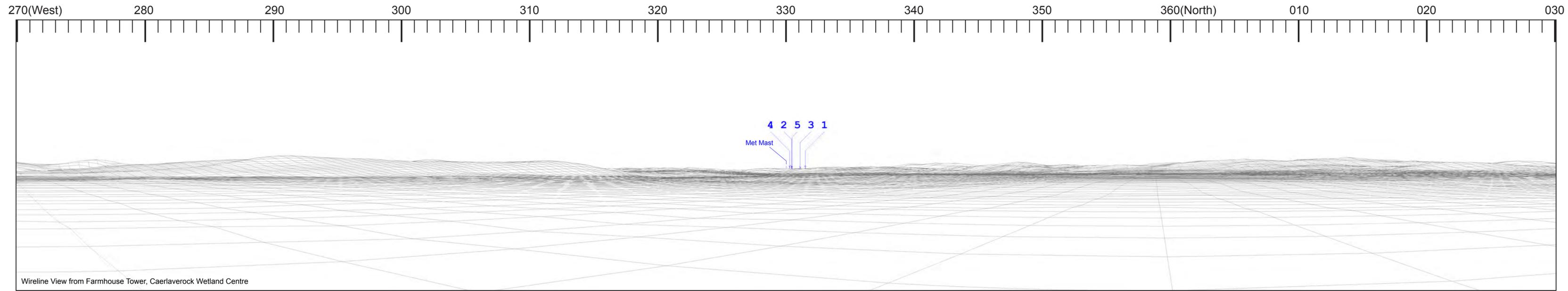


Viewpoint title : Farmhouse Tower, Caerlaverock Wetland Centre
 Grid reference : 305147, 565626
 Direction of view : 330°
 Included angle of view : 120°
 Elevation : 15m
 Date of photograph : 22nd September 2011
 Time of photograph : 15:45
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 25.5km
 Correct viewing distance: 31cm



Viewpoint 10
Farmhouse Tower, Caerlaverock Wetland Centre
Photomontage View
 Figure 8.17b

Blackwood Wind Farm



Viewpoint title : Farmhouse Tower, Caerlaverock Wetland Centre
 Grid reference : 305147, 565626
 Direction of view : 330°
 Included angle of view : 120°
 Elevation : 15m
 Date of photograph : 22nd September 2011
 Time of photograph : 15:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 25.5km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 10
Farmhouse Tower, Caerlaverock Wetland Centre
 Existing View and Wireline
 Figure 8.17a

Blackwood Wind Farm



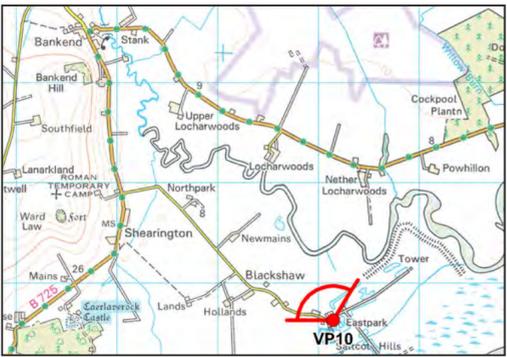
270(West) 280 290 300 310 320 330 340 350 360(North) 010 020 030



Photomontage View from Farmhouse Tower, Caerlaverock Wetland Centre

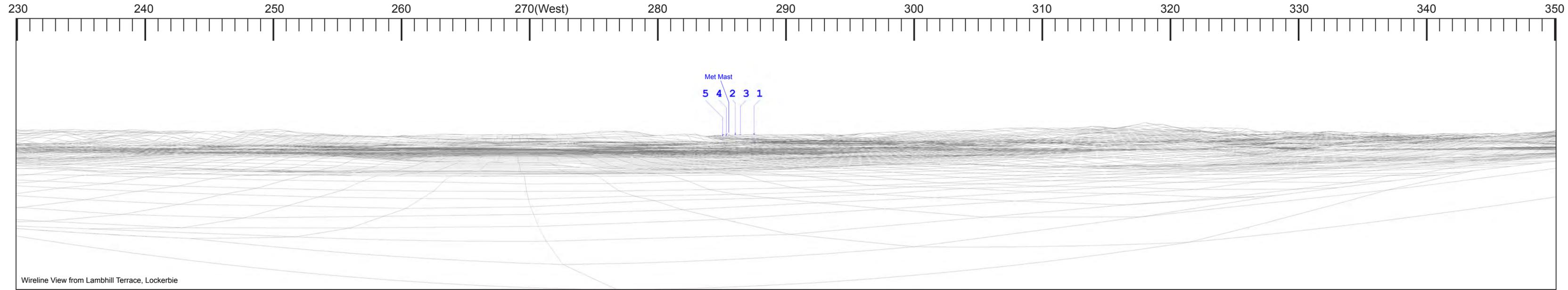


Viewpoint title : Farmhouse Tower, Caerlaverock Wetland Centre
 Grid reference : 305147, 565626
 Direction of view : 330°
 Included angle of view : 120°
 Elevation : 15m
 Date of photograph : 22nd September 2011
 Time of photograph : 15:45
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 25.5km
 Correct viewing distance: 31cm

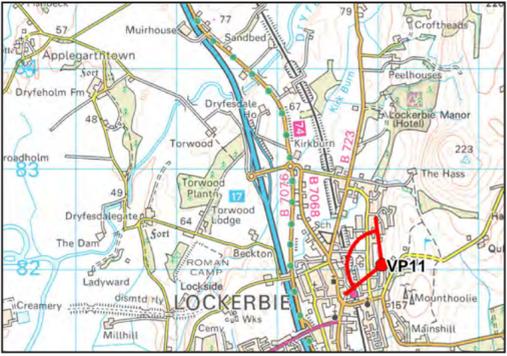


Viewpoint 10
Farmhouse Tower, Caerlaverock Wetland Centre
Photomontage View
 Figure 8.17b

Blackwood Wind Farm



Viewpoint title : Lambhill Terrace, Lockerbie
 Grid reference : 314043, 582044
 Direction of view : 290°
 Included angle of view : 120°
 Elevation : 106m
 Date of photograph : 15th September 2011
 Time of photograph : 10:00
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 21.8km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 11
Lambhill Terrace, Lockerbie
Existing View and Wireline
 Figure 8.18a

Blackwood Wind Farm



Existing View from Lambhill Terrace, Lockerbie

File Reference: P:\020203_Insulator Files\VP11_EA-WF-120.ai Rev:01

230 240 250 260 270(West) 280 290 300 310 320 330 340 350



Photomontage View from Lambhill Terrace, Lockerbie

File Reference: P19/202/03 Illustration File/VP11-PH4-120.a Rev:01



Viewpoint title : Lambhill Terrace, Lockerbie
 Grid reference : 314043, 582044
 Direction of view : 290°
 Included angle of view : 120°
 Elevation : 106m
 Date of photograph : 15th September 2011
 Time of photograph : 10:00
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 21.8km
 Correct viewing distance: 31cm



Viewpoint 11
Lambhill Terrace, Lockerbie
Photomontage View
 Figure 8.18b

Blackwood Wind Farm

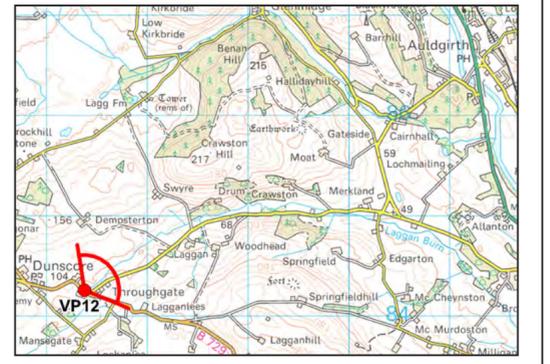
350 360(North) 010 020 030 040 050 060 070 080 090(East) 100 110



Photomontage View from Throughgate House

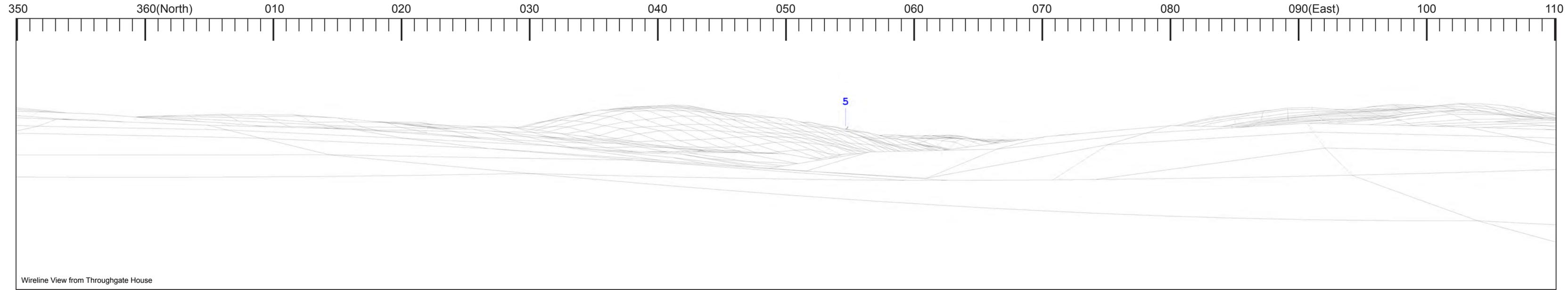


Viewpoint title : Throughgate House
 Grid reference : 287374, 584257
 Direction of view : 50°
 Included angle of view : 120°
 Elevation : 100m
 Date of photograph : 12th July 2011
 Time of photograph : 13:15
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 6.8km
 Correct viewing distance: 31cm

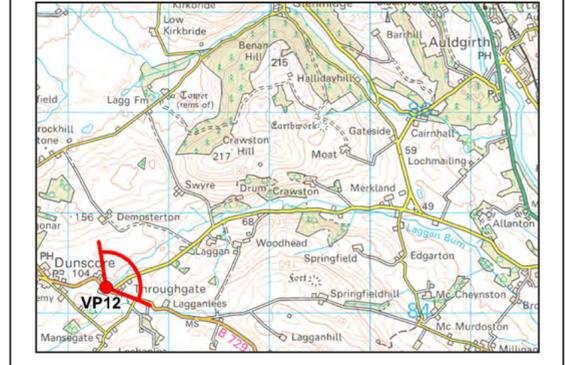


Viewpoint 12
Throughgate House
Photomontage View
 Figure 8.19b

Blackwood Wind Farm



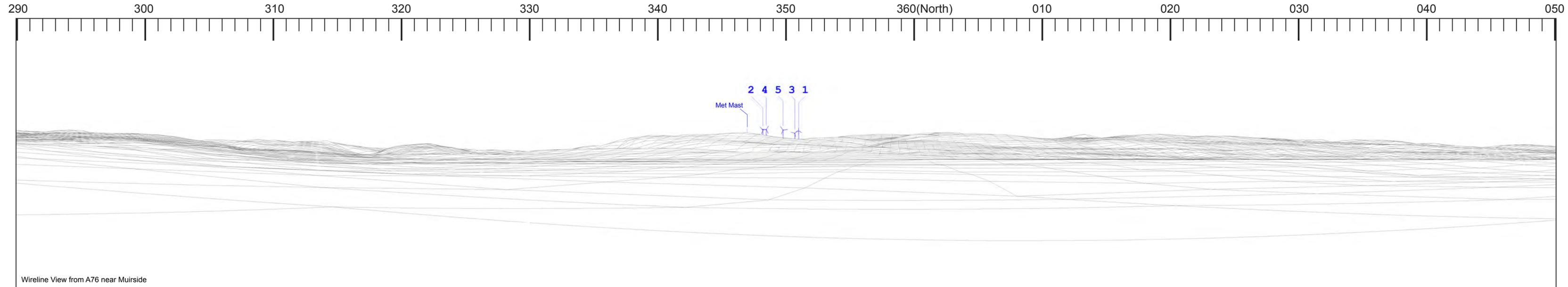
Viewpoint title : Throughgate House
 Grid reference : 287374, 584257
 Direction of view : 50°
 Included angle of view : 120°
 Elevation : 100m
 Date of photograph : 12th July 2011
 Time of photograph : 13:15
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 6.8km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 1
 Number of turbine hubs visible : 0



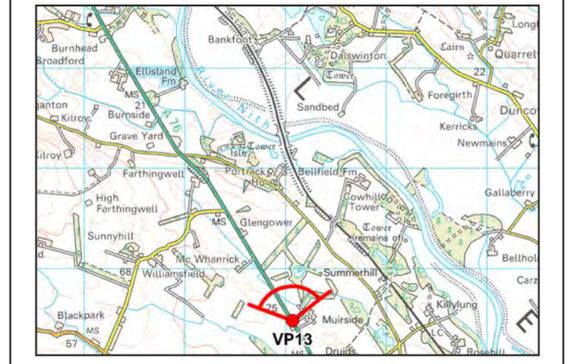
Viewpoint 12
Throughgate House
Existing View and Wireline
 Figure 8.19a

Blackwood Wind Farm





Viewpoint title : A76 near Muirside
 Grid reference : 294071, 581478
 Direction of view : 350°
 Included angle of view : 120°
 Elevation : 29m
 Date of photograph : 15th September 2011
 Time of photograph : 13:00
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 6.7km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 13
A76 near Muirside
Existing View and Wireline
 Figure 8.20a

Blackwood Wind Farm



File Reference: P:\020203\Illustrator Files\VP13-FS-WF-120a_Rev01

290 300 310 320 330 340 350 360(North) 010 020 030 040 050

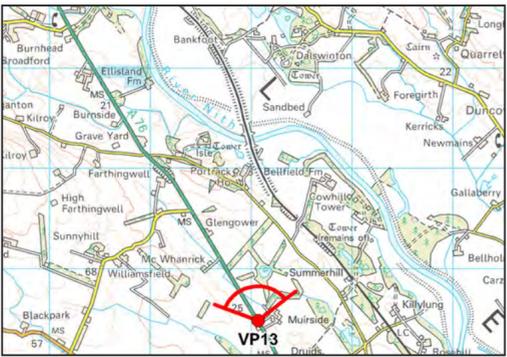


Photomontage View from A76 near Muirside

File Reference: P19020203 Illustration File\VP13_P14_120 at Rev 01

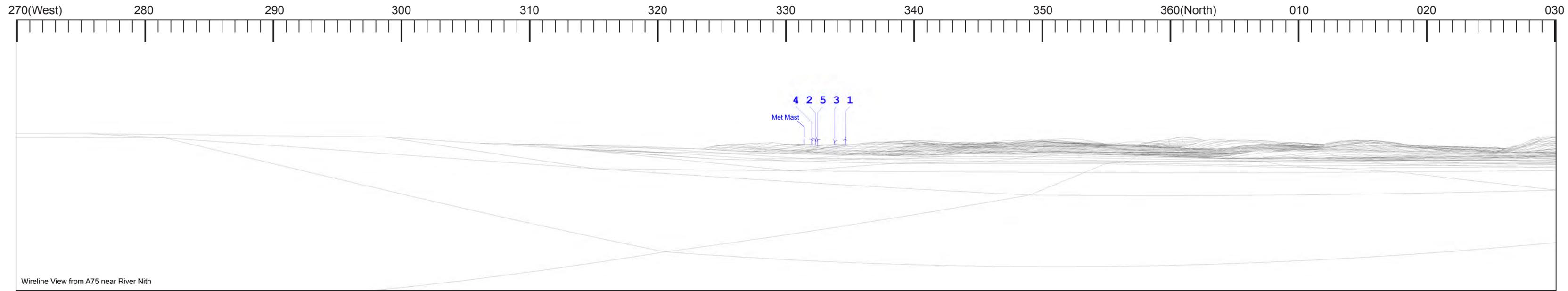


Viewpoint title : A76 near Muirside
 Grid reference : 294071, 581478
 Direction of view : 350°
 Included angle of view : 120°
 Elevation : 29m
 Date of photograph : 15th September 2011
 Time of photograph : 13:00
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 6.7km
 Correct viewing distance: 31cm



Viewpoint 13
A76 near Muirside
Photomontage View
 Figure 8.20b

Blackwood Wind Farm



Viewpoint title : A75 near River Nith
 Grid reference : 297961, 578186
 Direction of view : 330°
 Included angle of view : 120°
 Elevation : 5m
 Date of photograph : 15th September 2011
 Time of photograph : 11:00
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 11.1km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 14
A75 near River Nith
Existing View and Wireline
 Figure 8.21a

Blackwood Wind Farm



270(West) 280 290 300 310 320 330 340 350 360(North) 010 020 030

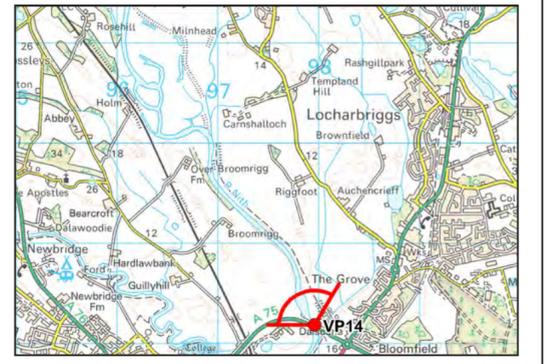


Photomontage View from A75 near River Nith

File Reference: P19020203 Illustration File\VP14-PM-120 al Rev01

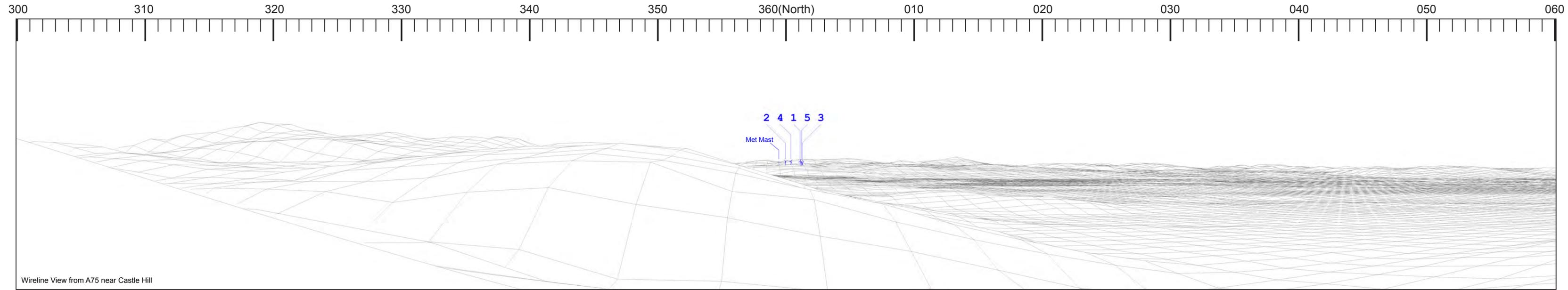


Viewpoint title : A75 near River Nith
 Grid reference : 297961, 578186
 Direction of view : 330°
 Included angle of view : 120°
 Elevation : 5m
 Date of photograph : 15th September 2011
 Time of photograph : 11:00
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 11.1km
 Correct viewing distance: 31cm

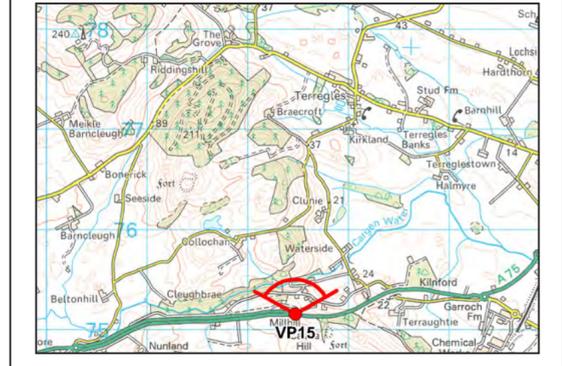


Viewpoint 14
A75 near River Nith
Photomontage View
 Figure 8.21b

Blackwood Wind Farm



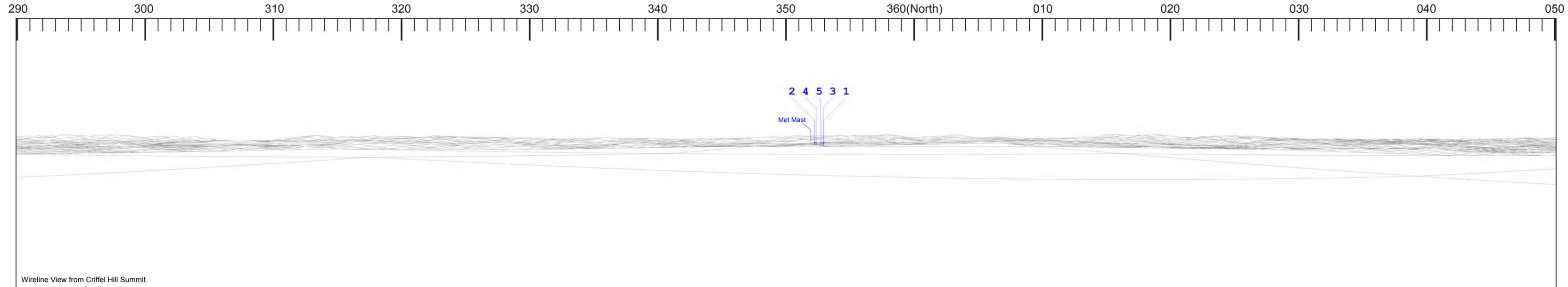
Viewpoint title : A75 near Castle Hill
 Grid reference : 292472, 575154
 Direction of view : 360°
 Included angle of view : 120°
 Elevation : 94m
 Date of photograph : 15th September 2011
 Time of photograph : 12:00
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 13.0km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



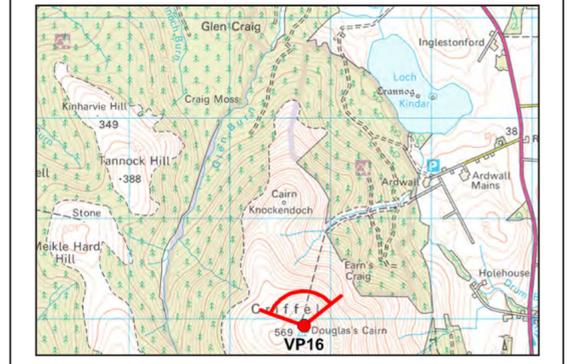
Viewpoint 15
A75 near Castle Hill
Existing View and Wireline
 Figure 8.22a

Blackwood Wind Farm

File Reference: P:\020203 Illustration Files\VP15-Ex-View-02a - Rev 01



Viewpoint title : Criffel Hill Summit
 Grid reference : 295725, 561871
 Direction of view : 350°
 Included angle of view : 120°
 Elevation : 561m
 Date of photograph : 19th October 2011
 Time of photograph : 12:00
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 26.4km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 16
Criffel Hill Summit
 Existing View and Wireline
 Figure 8.23a

Blackwood Wind Farm

File Reference: P:\020203\Illustrator Files\VP16-Ex-View-120a_Rev01

290 300 310 320 330 340 350 360(North) 010 020 030 040 050

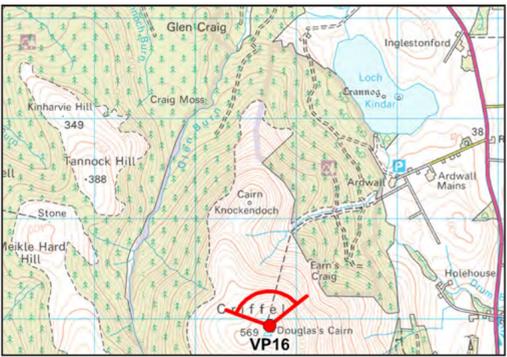


Photomontage View from Criffel Hill Summit

File Reference: P19020203 Illustration File: VP16-PM-120.ai Rev:01

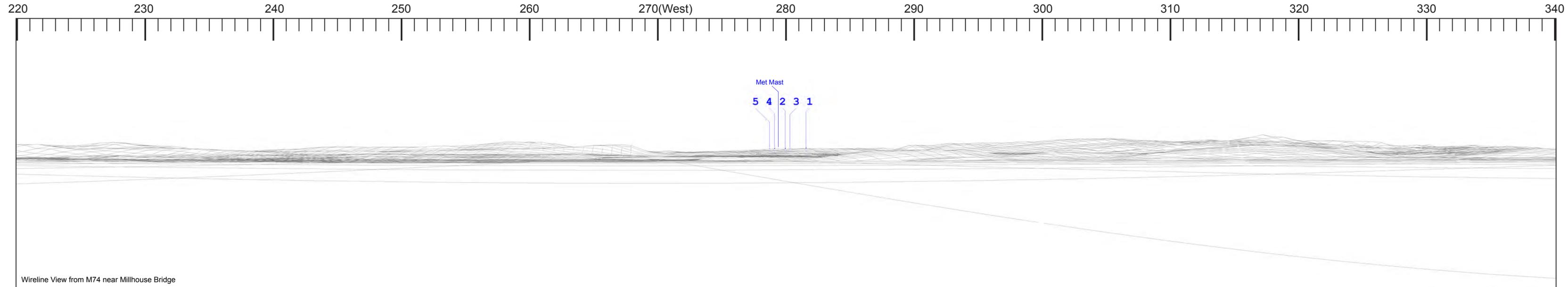


Viewpoint title : Criffel Hill Summit
 Grid reference : 295725, 561871
 Direction of view : 350°
 Included angle of view : 120°
 Elevation : 561m
 Date of photograph : 19th October 2011
 Time of photograph : 12:00
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 26.4km
 Correct viewing distance: 31cm

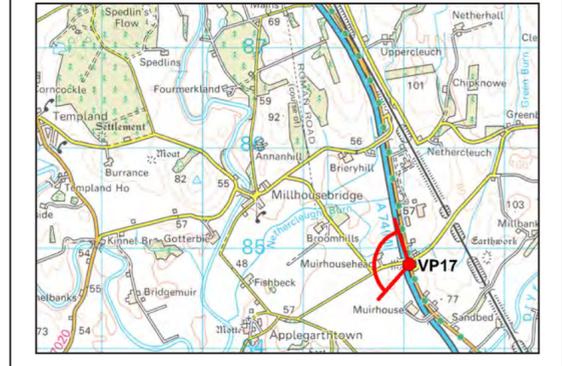


Viewpoint 16
Criffel Hill Summit
Photomontage View
 Figure 8.23b

Blackwood Wind Farm



Viewpoint title : M74 near Millhouse Bridge
 Grid reference : 312053, 584839
 Direction of view : 280°
 Included angle of view : 120°
 Elevation : 60m
 Date of photograph : 22nd September 2011
 Time of photograph : 10:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 19.2km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 3



Viewpoint 17
M74 near Millhouse Bridge
Existing View and Wireline
 Figure 8.24a



Blackwood Wind Farm

220 230 240 250 260 270(West) 280 290 300 310 320 330 340

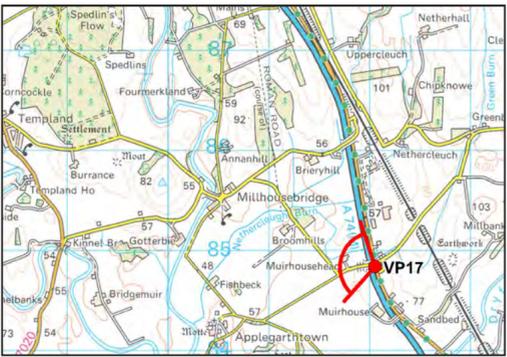


Photomontage View from M74 near Millhouse Bridge

File Reference: P19/20/03 Illustration File/VP17-PM-120.ai Rev:01

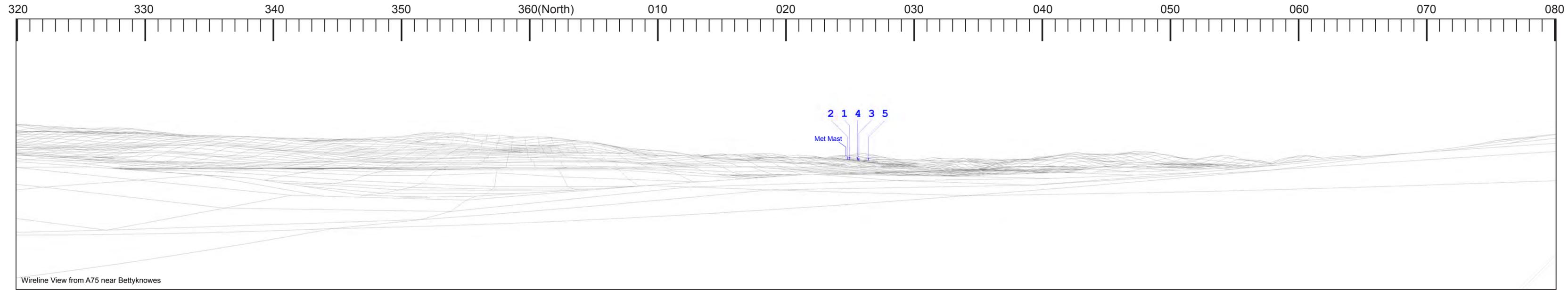


Viewpoint title : M74 near Millhouse Bridge
 Grid reference : 312053, 584839
 Direction of view : 280°
 Included angle of view : 120°
 Elevation : 60m
 Date of photograph : 22nd September 2011
 Time of photograph : 10:45
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 19.2km
 Correct viewing distance: 31cm

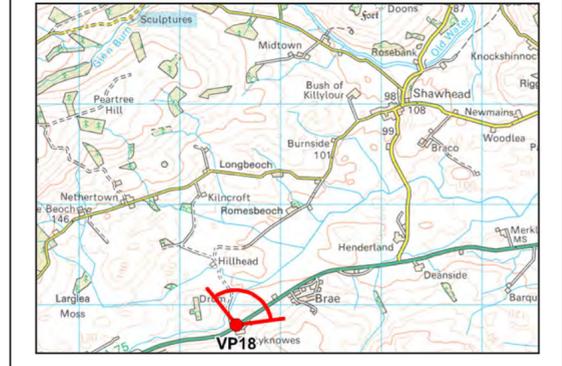


Viewpoint 17
M74 near Millhouse Bridge
Photomontage View
 Figure 8.24b

Blackwood Wind Farm



Viewpoint title : A75 near Bettyknowes
 Grid reference : 285563, 573798
 Direction of view : 020°
 Included angle of view : 120°
 Elevation : 112m
 Date of photograph : 15th September 2011
 Time of photograph : 12:30
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 16.1km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 18
A75 near Bettyknowes
 Existing View and Wireline
 Figure 8.25a

Blackwood Wind Farm

320 330 340 350 360(North) 010 020 030 040 050 060 070 080

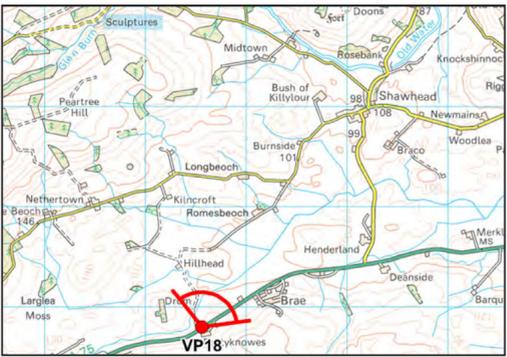


Photomontage View from A75 near Bettyknowes

File Reference: P19020203 Illustration File\VP18.PM_120.ai Rev:01

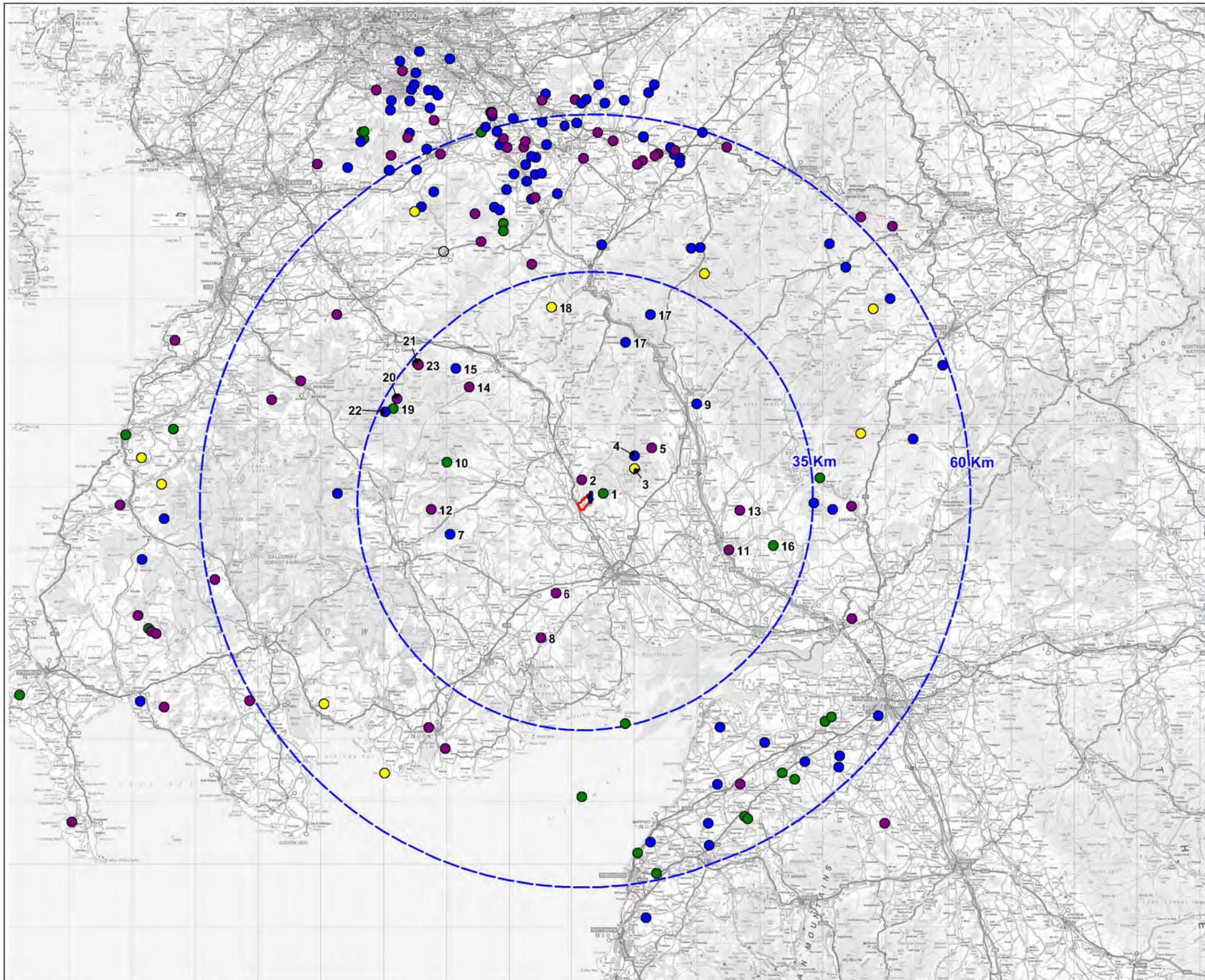


Viewpoint title : A75 near Bettyknowes
Grid reference : 285563, 573798
Direction of view : 020°
Included angle of view : 120°
Elevation : 112m
Date of photograph : 15th September 2011
Time of photograph : 12:30
Camera type and lens : Canon EOS 5D digital SLR camera
with a 50mm lens
Camera height above ground : 1.6m
Distance to nearest Blackwood turbine : 16.1km
Correct viewing distance: 31cm



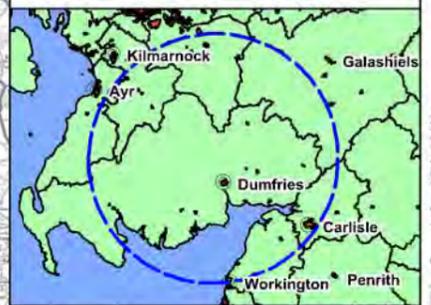
Viewpoint 18
A75 near Bettyknowes
Photomontage View
Figure 8.25b

Blackwood Wind Farm



- Proposed Turbine
- Site Boundary
- 60km and 35km distance marker
- Operational
- Consented
- In Planning
- Pre-Application

- Wind Farm Key**
- 1 Dalswinton
 - 2 Auchencairn
 - 3 Harestanes Extensions
 - 4 Harestanes
 - 5 Minnygap
 - 6 Barnbackle
 - 7 Blackcraig
 - 8 Doon Hill
 - 9 Craig Hill
 - 10 Wether Hill
 - 11 Ewe Hill (Two Schemes)
 - 12 Margree
 - 13 Newfield
 - 14 Ulzieside
 - 15 Whiteside Hill
 - 16 Minsca Farm
 - 17 Clyde
 - 18 Leadhills
 - 19 Windy Standard
 - 20 Afton Windfarm
 - 21 Hare Hill Extension
 - 22 Windy Standard Extension
 - 23 Hare Hill



Rev	Date	Description	Drn	Chk	App
01	08.01.12	Cumulative Plan	BF	MK	MK
00	07.04.11	Cumulative Plan	BF	MK	MK



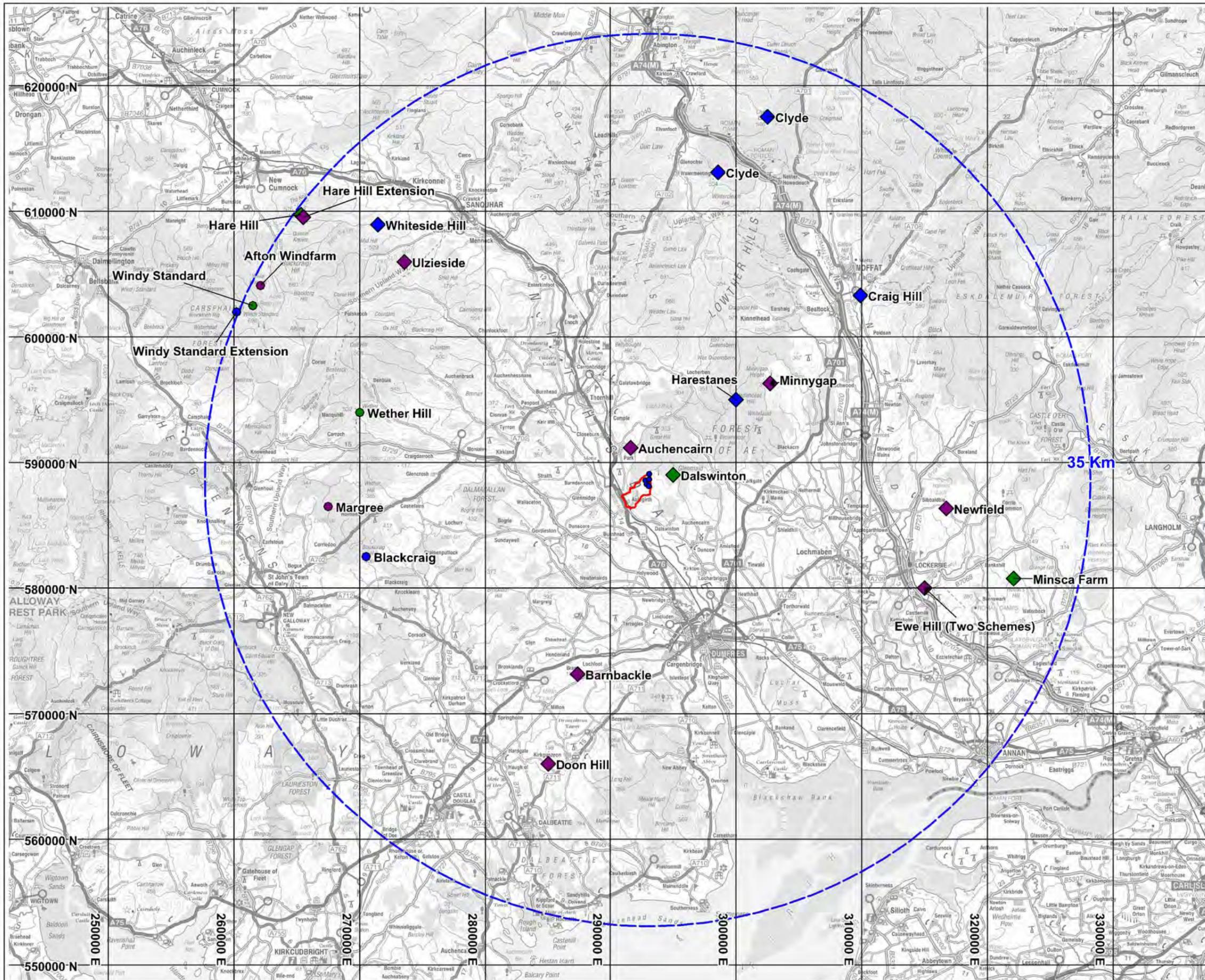
FORCE 9 ENERGY

Blackwood Wind Farm

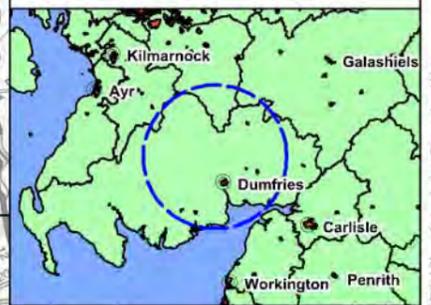


Figure B.26: 60 Km Cumulative Wind Farm Baseplan

SCALE: 1:600,000 @ A3 REV 01



- ◆ Proposed Turbine
 - Site Boundary
 - 35km distance marker
- Included in detailed cumulative assessment
- ◆ Operational
 - ◆ Consented
 - ◆ In Planning
- Not included in detailed cumulative assessment
- ◆ Operational
 - ◆ Consented
 - ◆ In Planning



Rev	Date	Description	Drn	Chk	App
02	03.01.11	Cumulative Plan	BF	MK	MK
01	22.07.11	Cumulative Plan	BF	MK	MK
00	07.04.11	Cumulative Plan	BF	MK	MK



FORCE 9 ENERGY

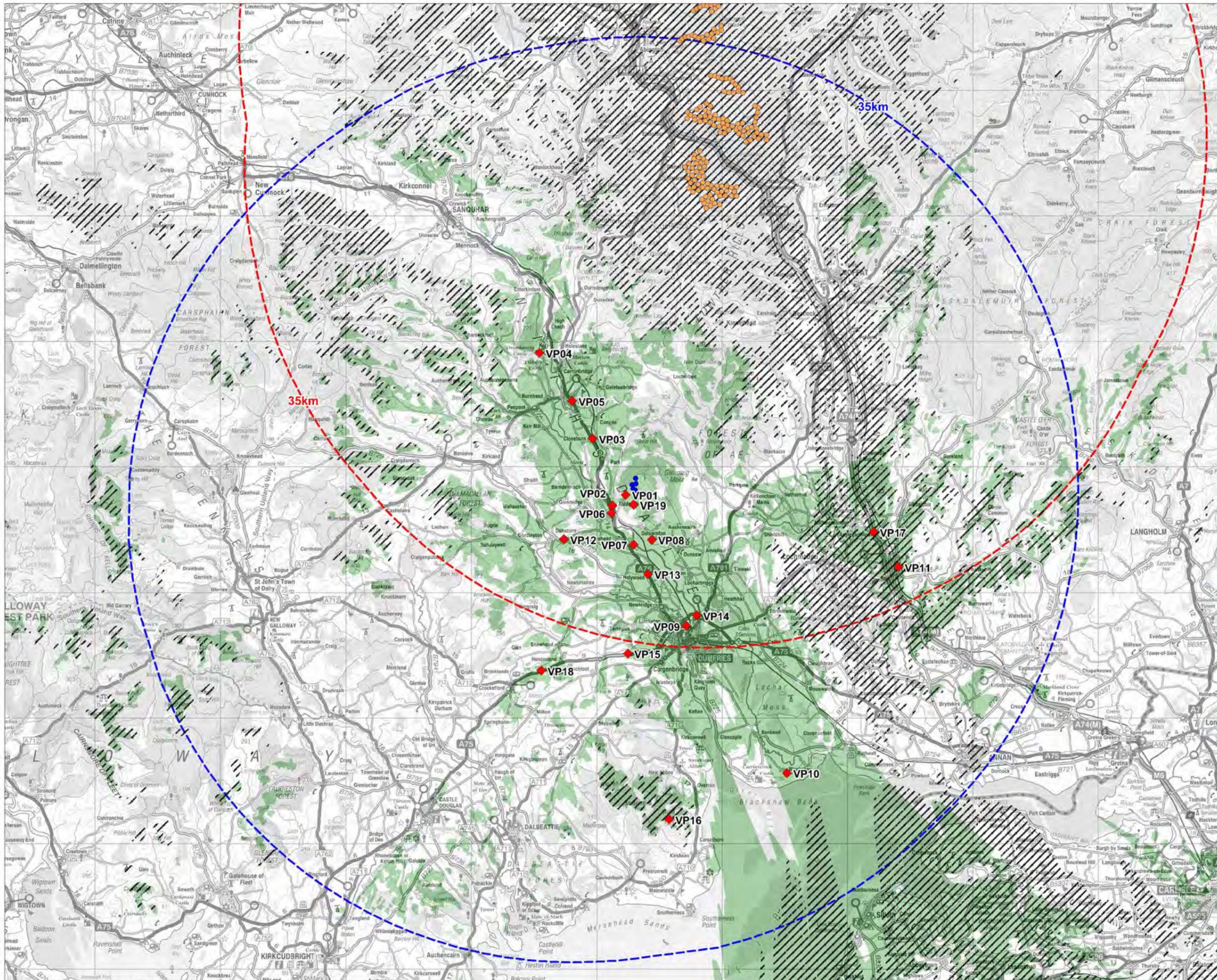
Blackwood Wind Farm



Figure B.27: 35 Km Cumulative Wind Farm Baseplan

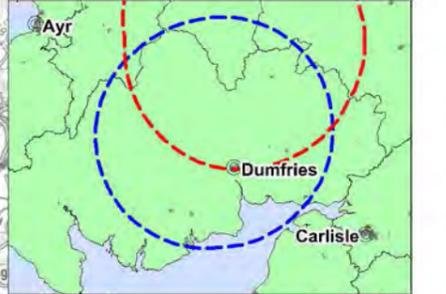
SCALE: 1:300,000 @ A3

REV 02



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Clyde Turbine - Under Construction
- 35km Distance Marker
- Clyde 35km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- Zone of Theoretical Visibility: Clyde Turbines - Blade Tip at 125m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

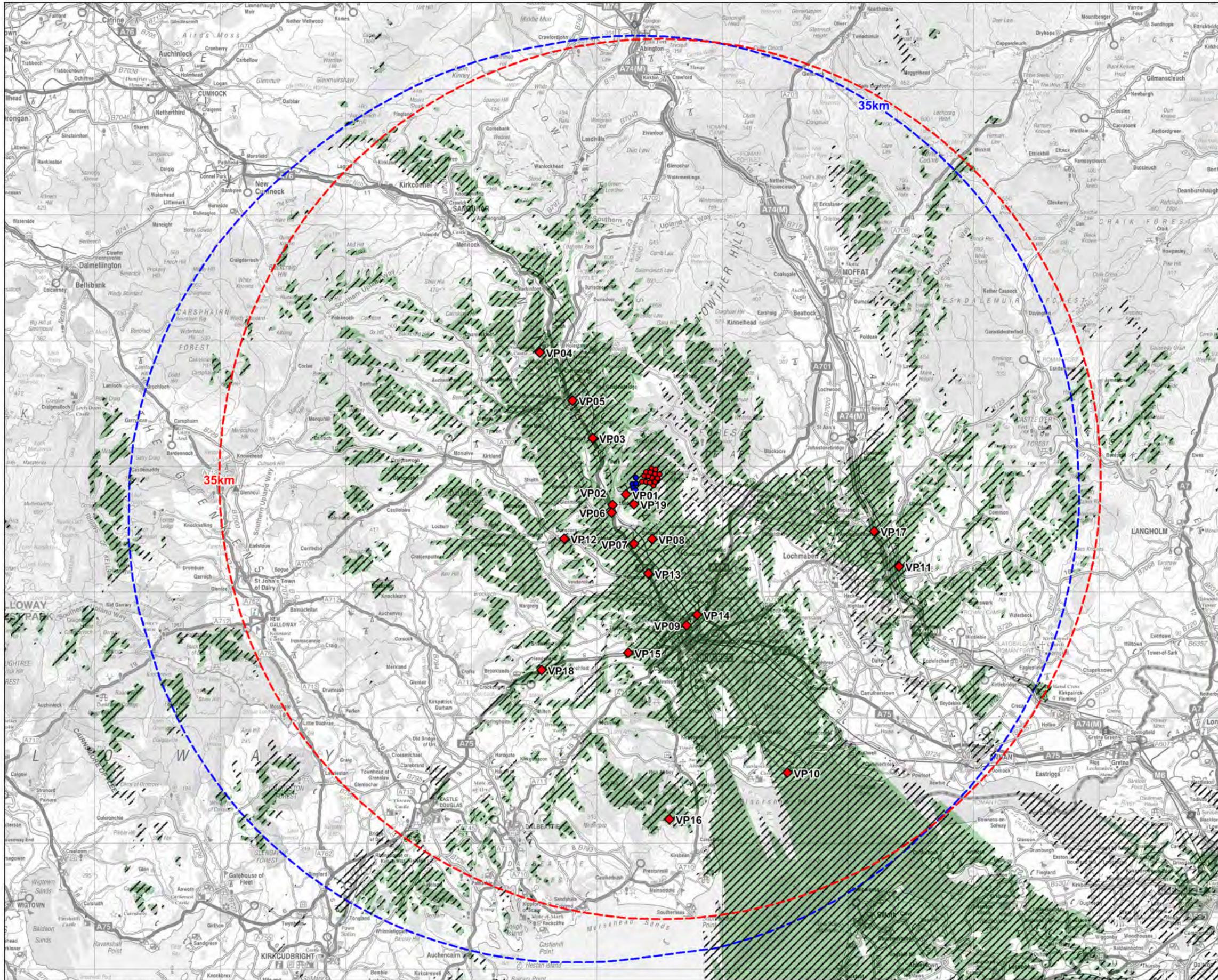


Rev	Date	Description	Drn	Chk	App
01	24.11.11	Clyde 35km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

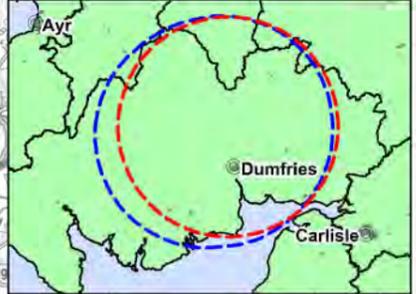


Title : Figure 8.28a - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Clyde Turbines - Under Construction at 125m



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Dalswinton Turbine - Operational
- 35km Distance Marker
- Dalswinton 35km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- Zone of Theoretical Visibility: Dalswinton Turbines - Blade Tip at 120m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

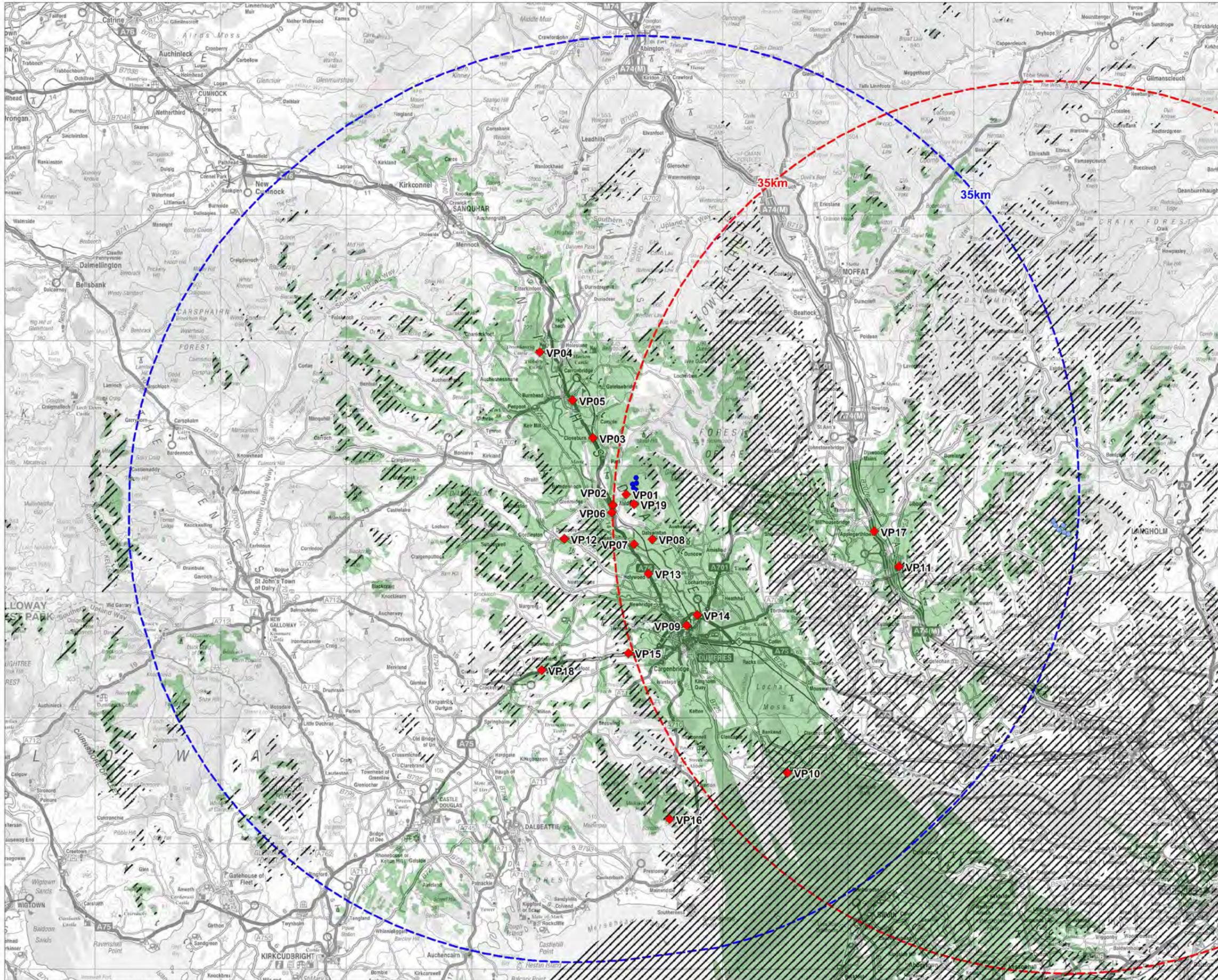


Rev	Date	Description	Drn	Chk	App
01	24.11.11	Dalswinton 35km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

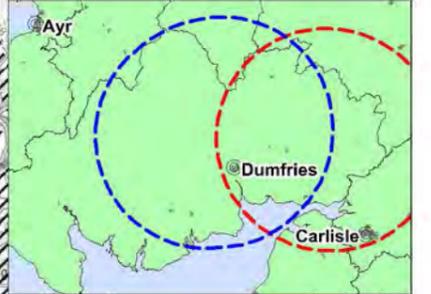
Title: Figure 8.28b - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Dalswinton Turbines - Operational at 120m

Scale: 1:300,000 REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Ewe Hill (6 Turbines) - Under Construction
- 35km Distance Marker
- Ewe Hill (6 Turbines) 35km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- ▨ Zone of Theoretical Visibility: Ewe Hill Turbines - Blade Tip at 126.5m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

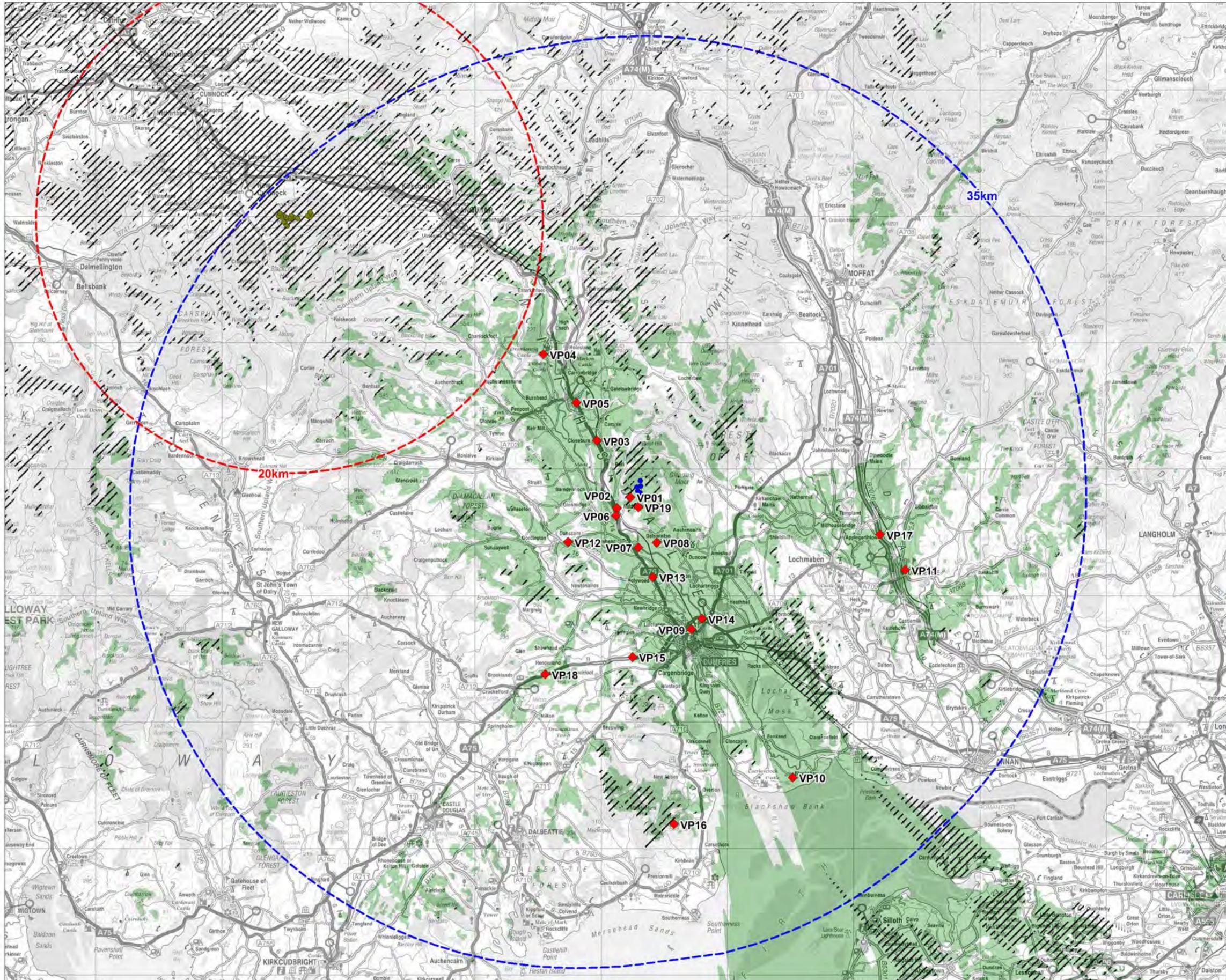


Rev	Date	Description	Drn	Chk	App
01	24.11.11	Ewe Hill 35km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

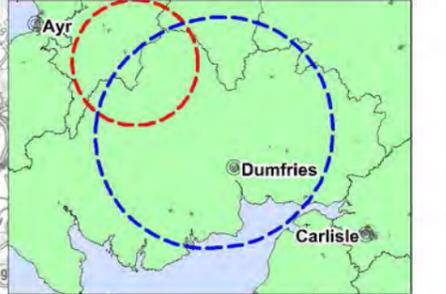
Title : Figure 8.28c Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Ewe Hill (6 Turbines) - Under Construction at 126.5m

Scale : 1:300,000 REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Hare Hill Turbine - Operational
- 35km Distance Marker
- Hare Hill 20km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- Zone of Theoretical Visibility: Hare Hill Turbines - Blade Tip at 62m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

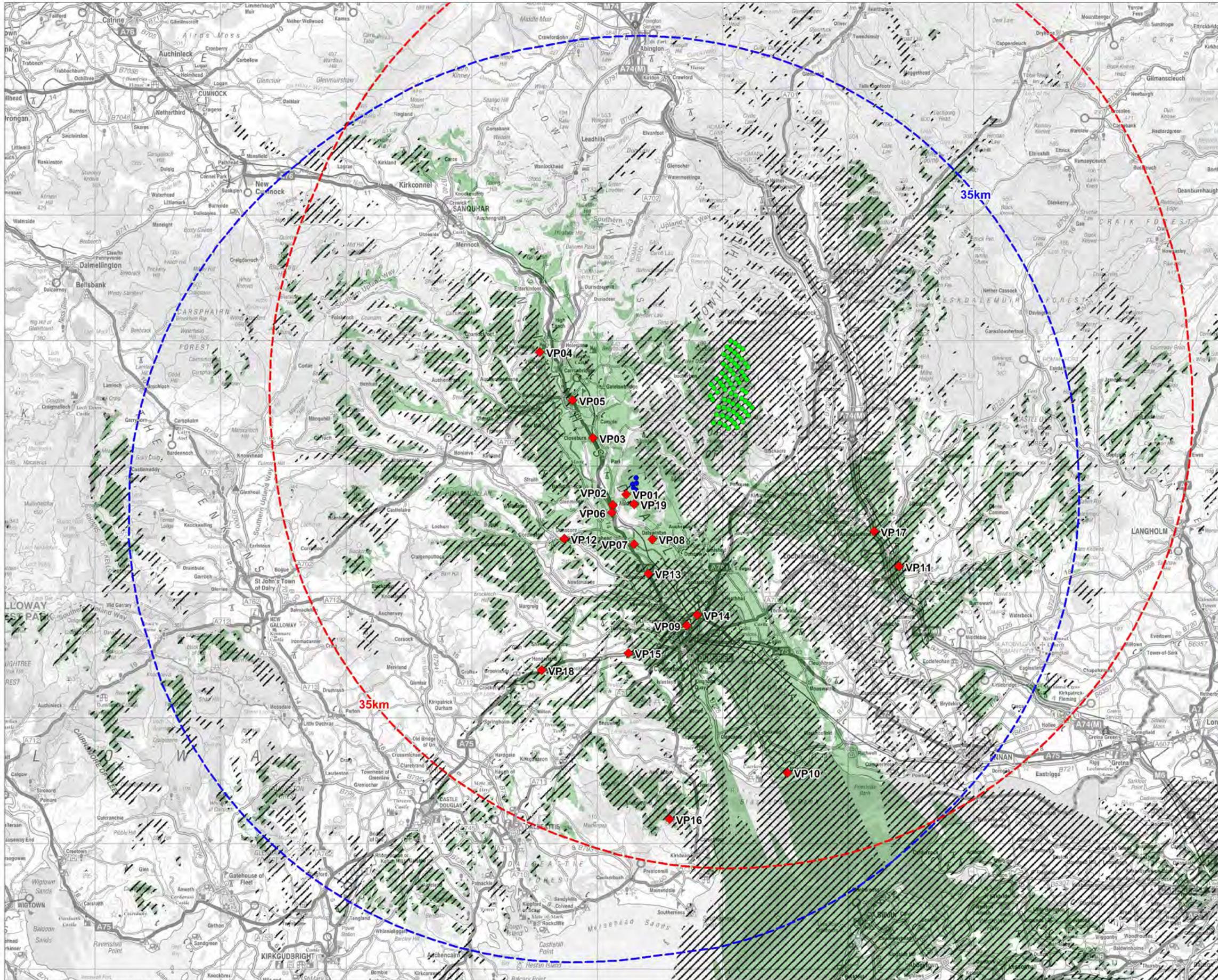


Rev	Date	Description	Drn	Chk	App
01	24.11.11	Hare Hill 20km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

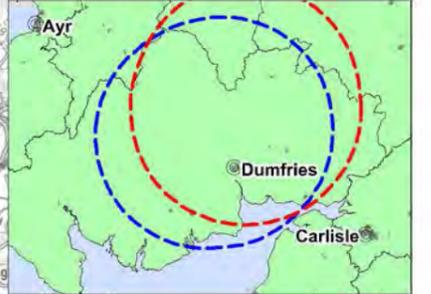


Title : Figure 8.28d - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Hare Hill Turbines - Operational at 62m



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Harestones Turbine - Under Construction
- 35km Distance Marker
- Harestones 35km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- Zone of Theoretical Visibility: Harestones Turbines - Blade Tip at 125m and 115m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



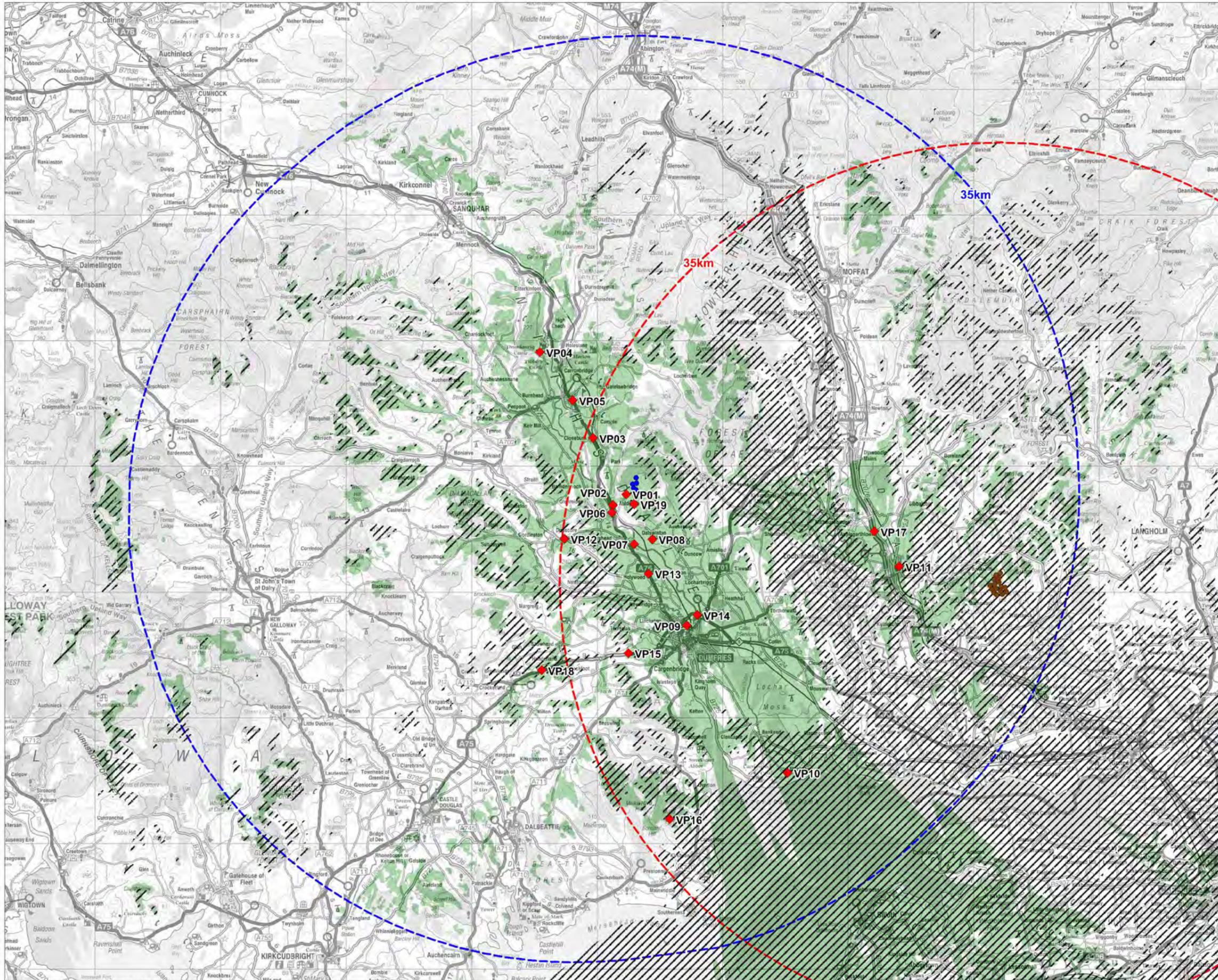
Rev	Date	Description	Drn	Chk	App
01	24.11.11	Harestones 35km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

Title: Figure 8.28e - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Harestones Turbines - Under Construction at 125m and 115m

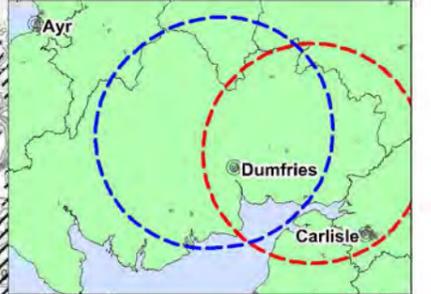
Scale: 1:300,000

REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Minsca Farm Turbine - Operational
- 35km Distance Marker
- Minsca Farm 35km Distance Marker
- █ Blackwood Wind Farm Zone of Theoretical Visibility
- ▨ Zone of Theoretical Visibility: Minsca Farm Turbines - Blade Tip at 126.5m

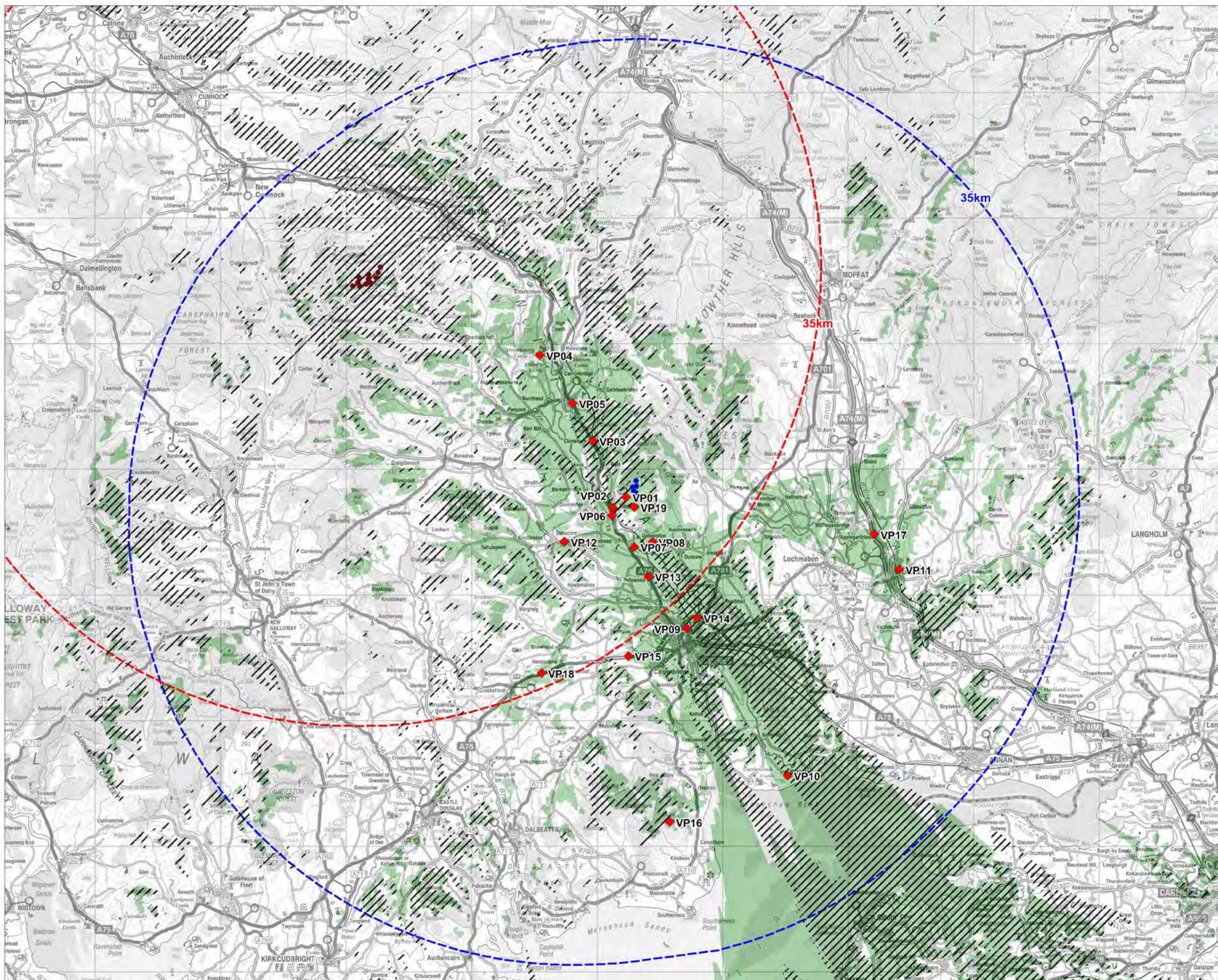
It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



01	24.11.11	Minsca Farm 35km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK
Rev	Date	Description	Drn	Chk	App

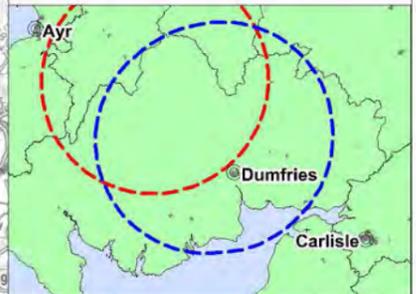
Blackwood Wind Farm

Title: Figure 8.28f - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Minsca Farm Turbines - Operational at 126.5m



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Whiteside Hill Turbine - Consented
- 35km Distance Marker
- Whiteside Hill 35km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- Zone of Theoretical Visibility: Whiteside Hill Turbines - Blade Tip at 110m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



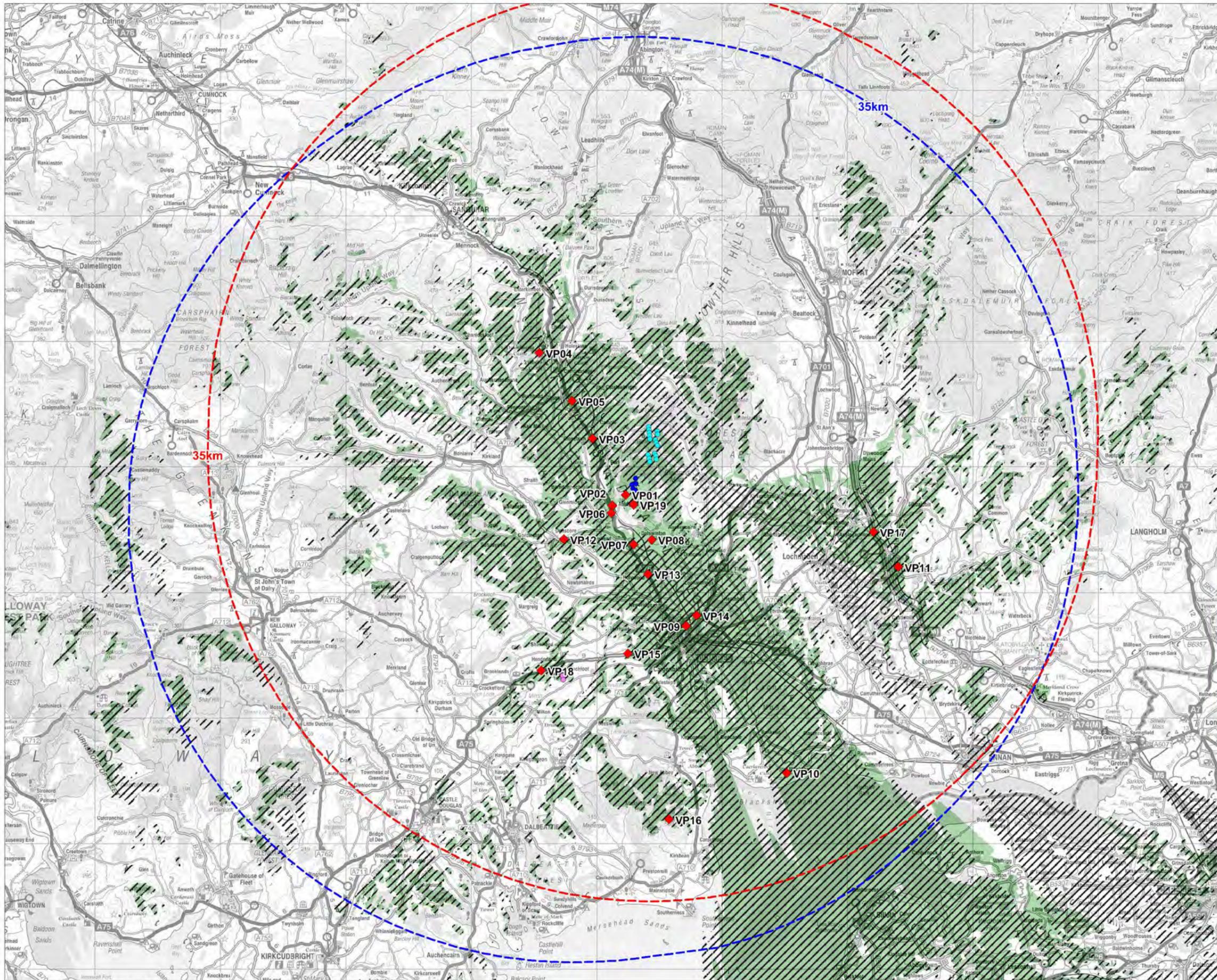
Rev	Date	Description	Drn	Chk	App
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00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm



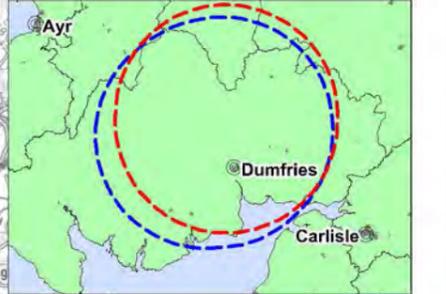
Title : Figure 8.28g - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Whiteside Hill Turbines - Consented at 110m

Scale : 1:300,000 REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Auchencairn Turbine - In Planning
- 35km Distance Marker
- Auchencairn 35km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- Zone of Theoretical Visibility: Auchencairn Turbines - Blade Tip at 121m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

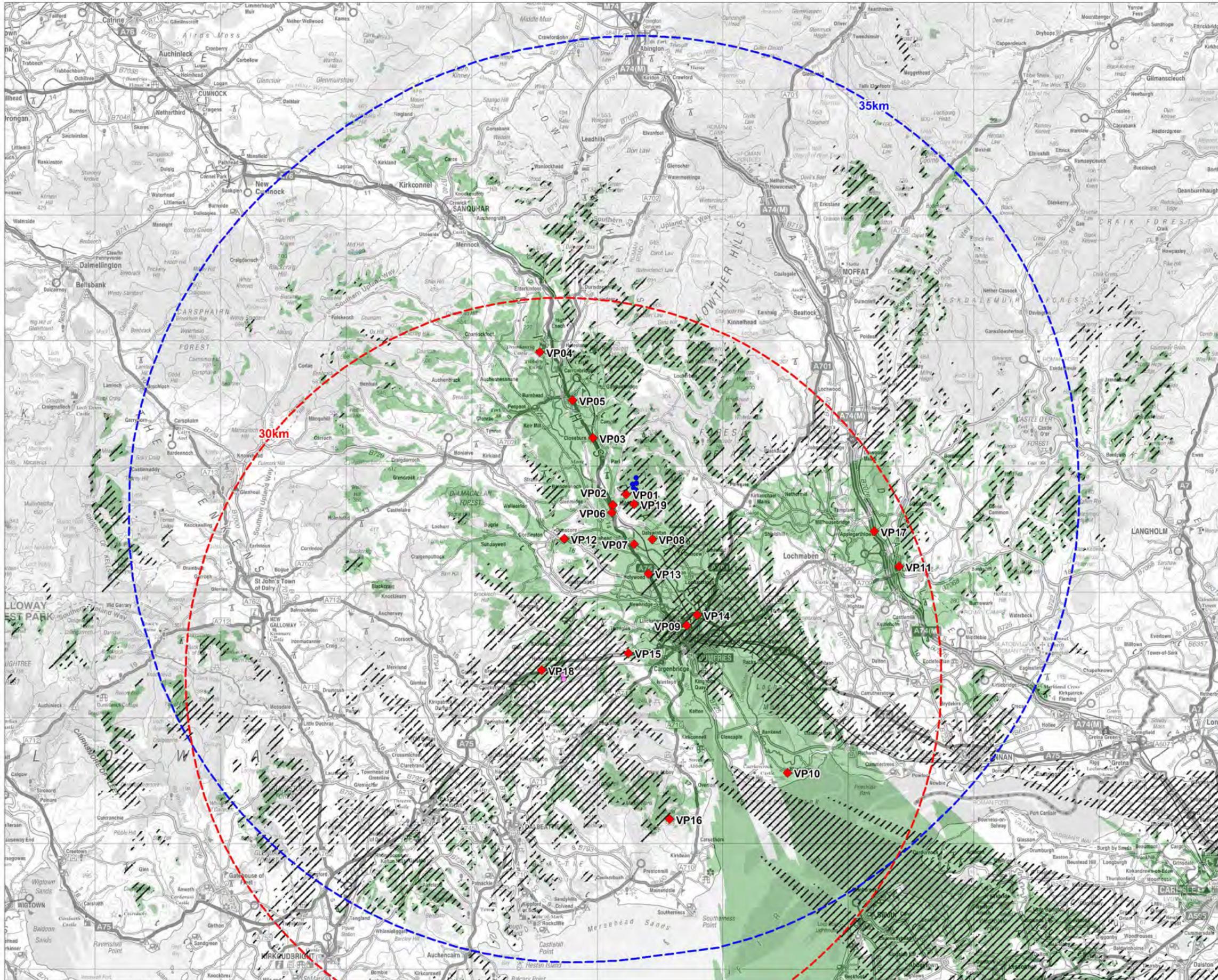


Rev	Date	Description	Drn	Chk	App
01	24.11.11	Auchencairn 35km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

Title : Figure 8.28h - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Auchencairn Turbines - In Planning at 121m

Scale : 1:300,000 REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Barnbackle Turbine - In Planning
- 35km Distance Marker
- Barnbackle 30km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- Zone of Theoretical Visibility: Barnbackle Turbines - Blade Tip at 100m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

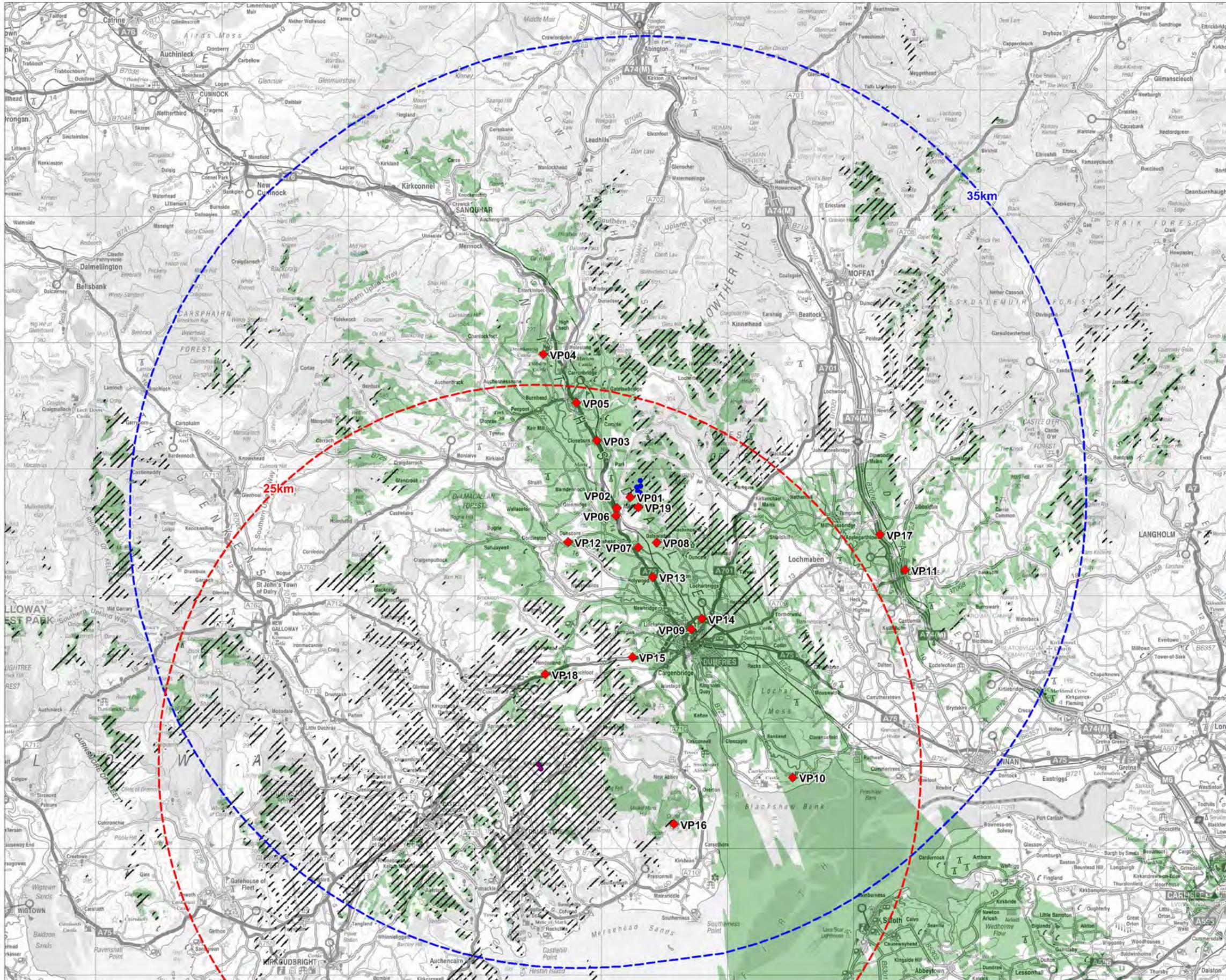


Rev	Date	Description	Drn	Chk	App
01	24.11.11	Barnbackle 30km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

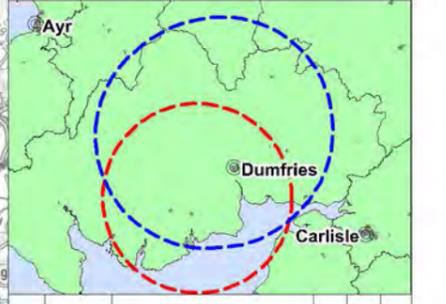
Title : Figure 8.28i - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Barnbackle Turbines - In Planning at 100m

Scale : 1:300,000 REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Doon Hill Turbine - In Planning
- 35km Distance Marker
- Doon Hill 30km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- Zone of Theoretical Visibility: Doon Hill Turbines - Blade Tip at 100m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



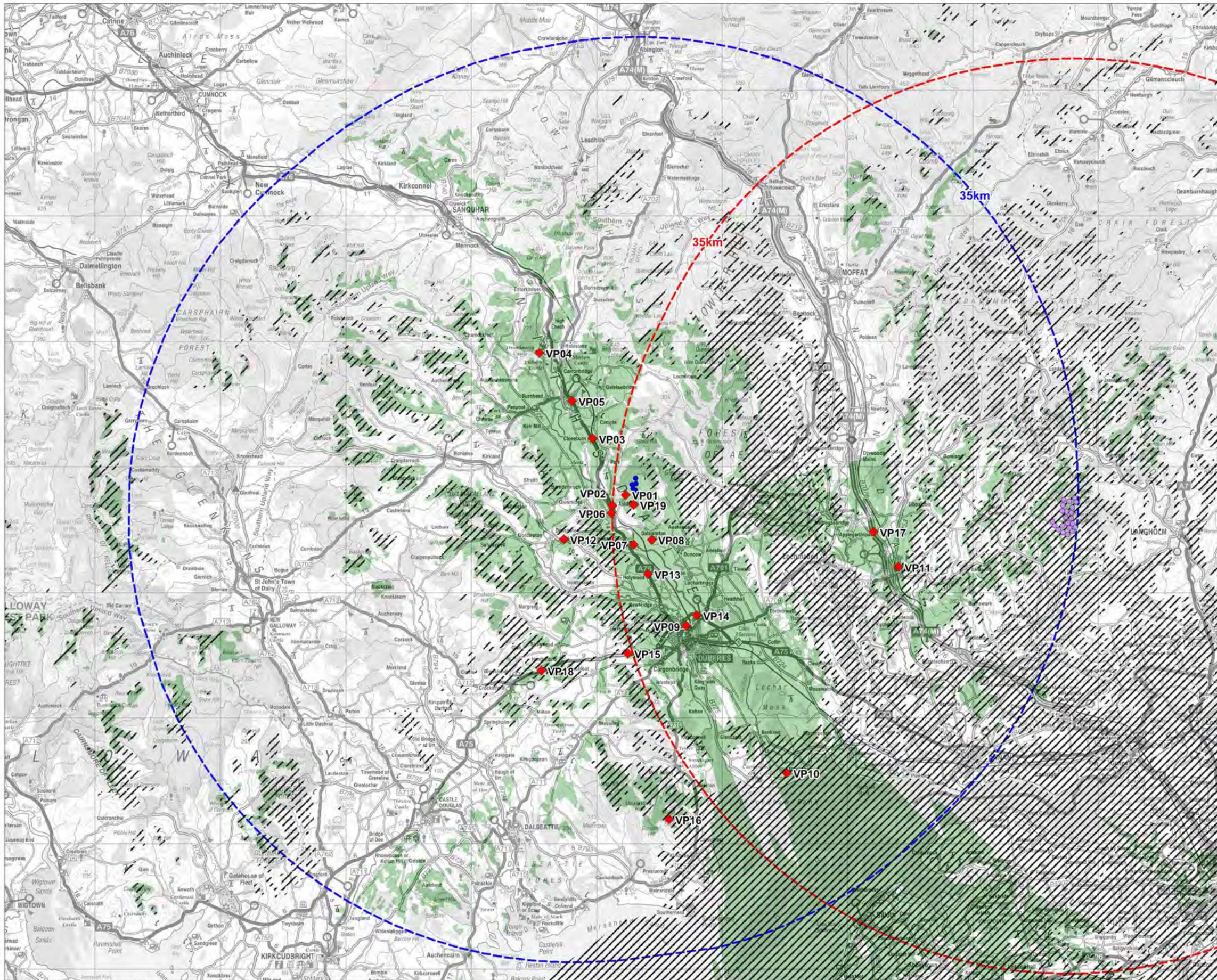
Rev	Date	Description	Drn	Chk	App
01	24.11.11	Doon Hill 30km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm



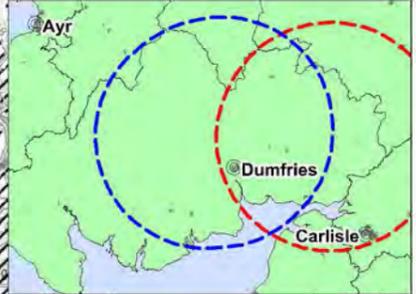
Title : Figure 8.28j - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Doon Hill Turbines - In Planning at 100m

Scale : 1:300,000 REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Ewe Hill (22 Turbines) - In Planning
- 35km Distance Marker
- Ewe Hill (22 Turbines) 35km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- /// Zone of Theoretical Visibility: Ewe Hill (22 Turbines) - Blade Tip at 111m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

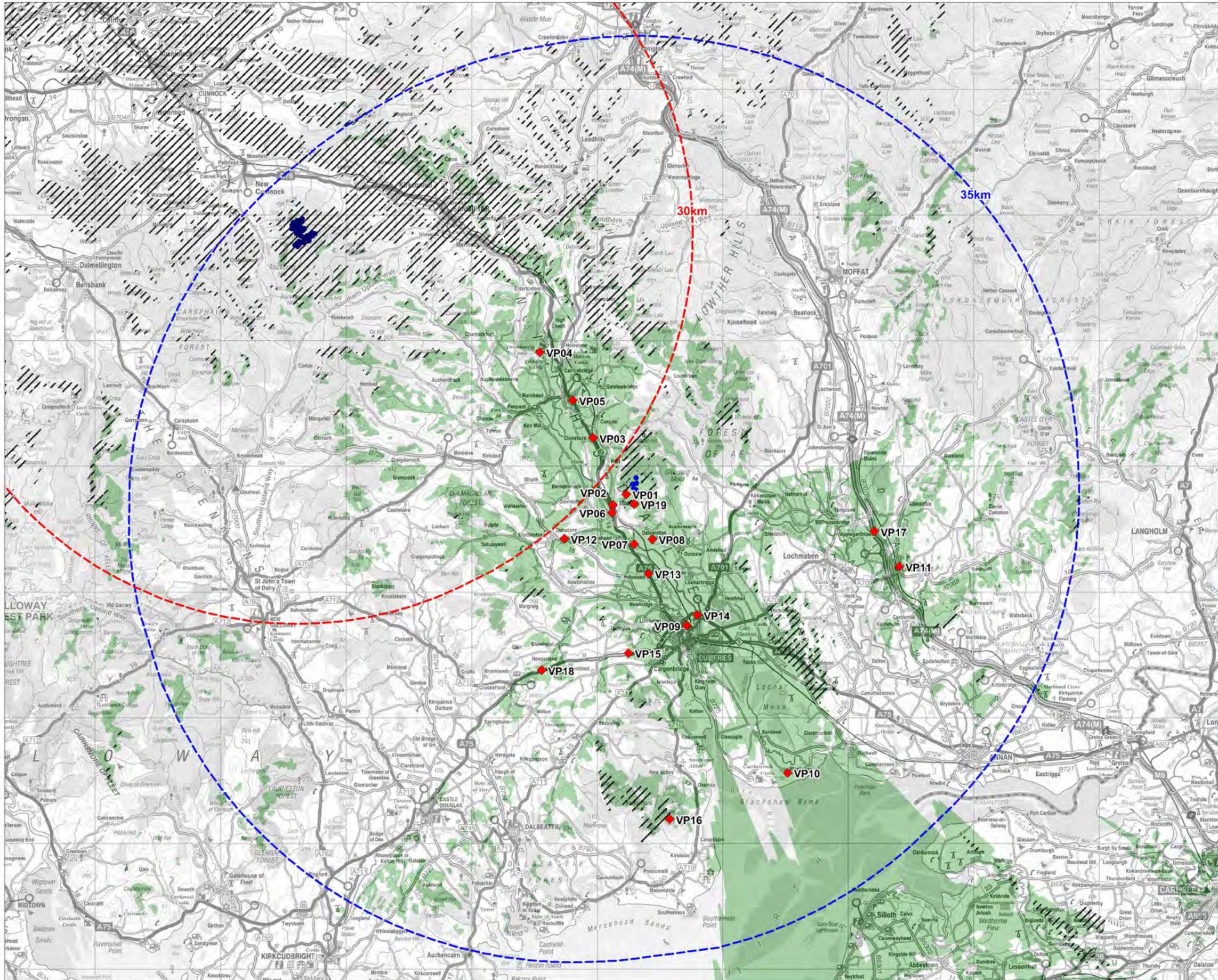


Rev	Date	Description	Drn	Chk	App
01	24.11.11	Ewe Hill 22 35km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

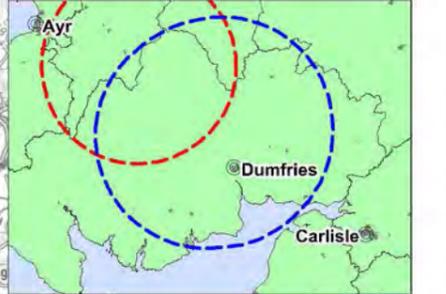
Title: Figure 8.28k - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Ewe Hill (22 Turbines) - In Planning at 111m

Scale: 1:300,000 REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Hare Hill Extension Turbine - In Planning
- 35km Distance Marker
- Hare Hill Extension 30km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- Zone of Theoretical Visibility: Hare Hill Extension Turbines - Blade Tips at 70m, 75m, 81m, 86m, 91m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.



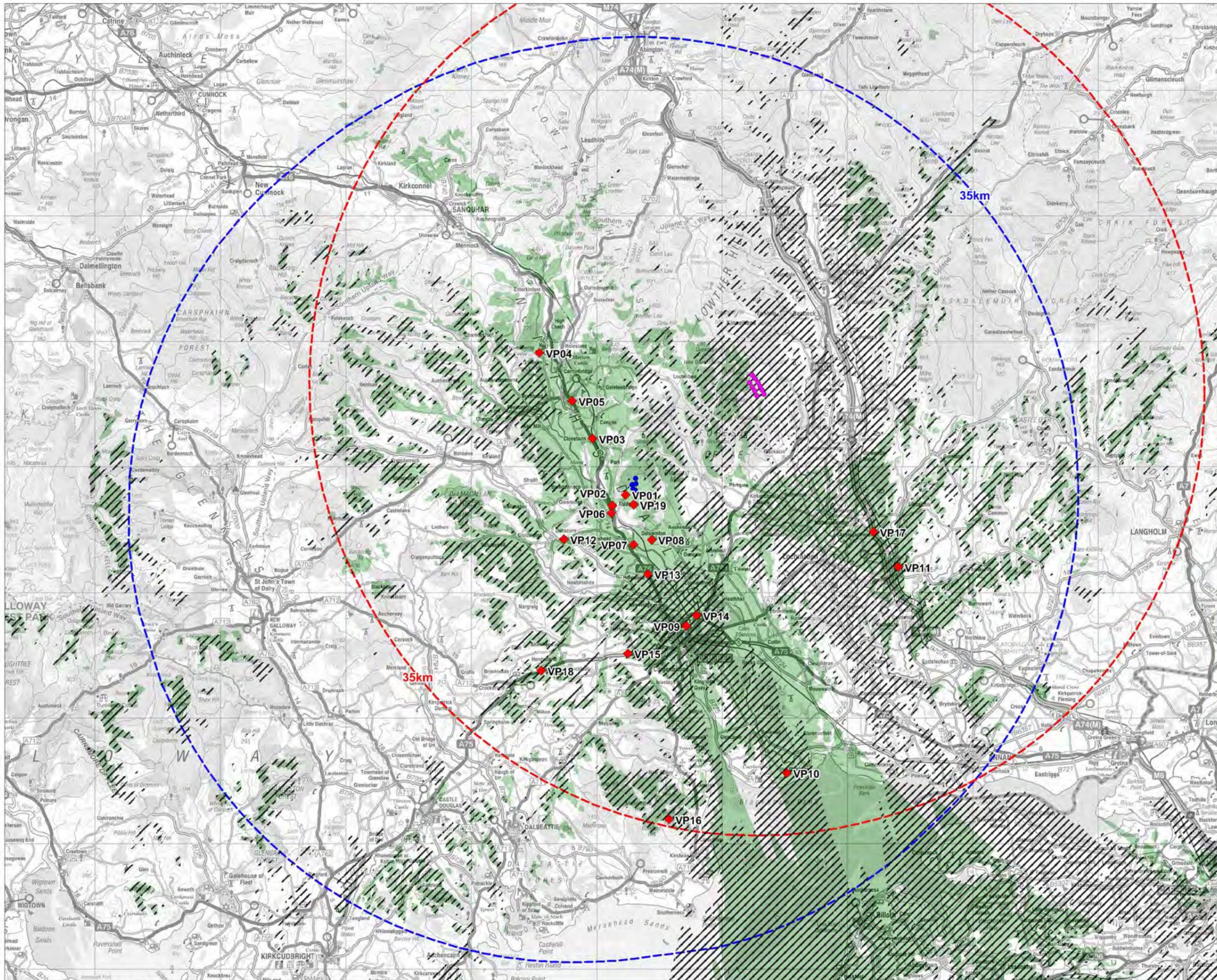
Rev	Date	Description	Drn	Chk	App
01	24.11.11	Hare Hill Ext. 30km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

Title : Figure 8.28i - Cumulative Zone of Theoretical Visibility; Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Hare Hill Extension Turbines - In Planning at 70m, 75m, 81m, 86m, 91m

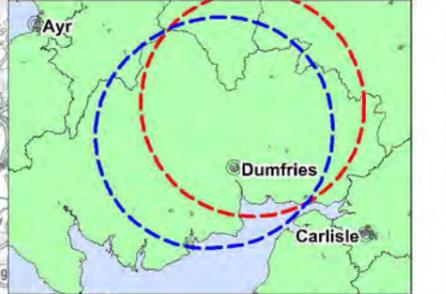
Scale : 1:300,000

REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Minnygap Turbine - In Planning
- 35km Distance Marker
- Minnygap 35km Distance Marker
- █ Blackwood Wind Farm Zone of Theoretical Visibility
- ▨ Zone of Theoretical Visibility: Minnygap Turbines - Blade Tip at 125m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

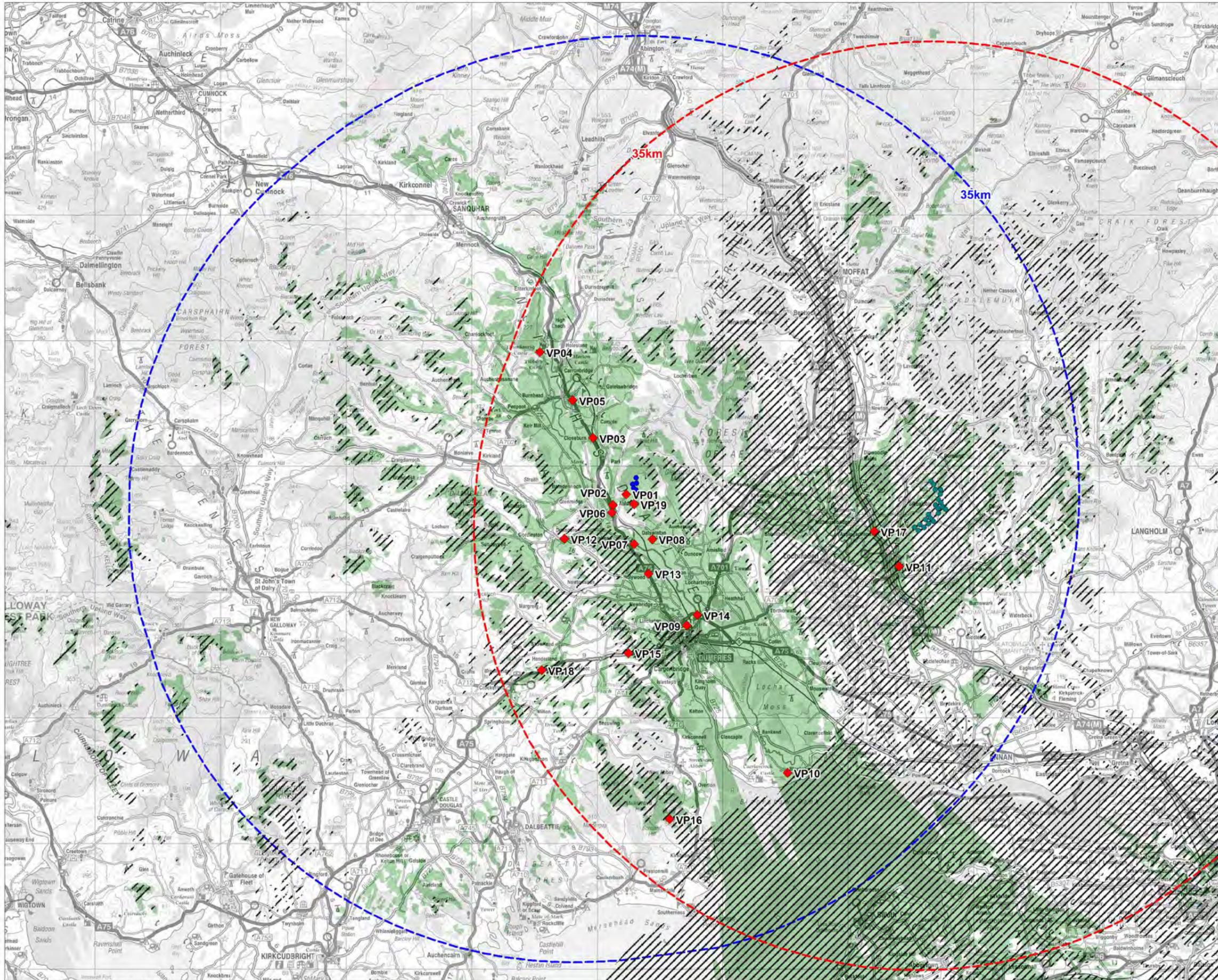


Rev	Date	Description	Drn	Chk	App
01	24.11.11	Minnygap 35km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

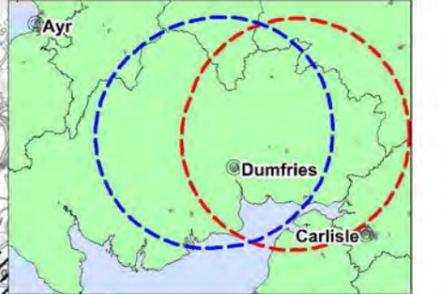
Title : Figure 8.28m - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Minnygap Turbines - In Planning at 125m

Scale : 1:300,000 REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Newfield Turbine - In Planning
- 35km Distance Marker
- Newfield 35km Distance Marker
- █ Blackwood Wind Farm Zone of Theoretical Visibility
- ▨ Zone of Theoretical Visibility: Newfield Turbines - Blade Tip at 125m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

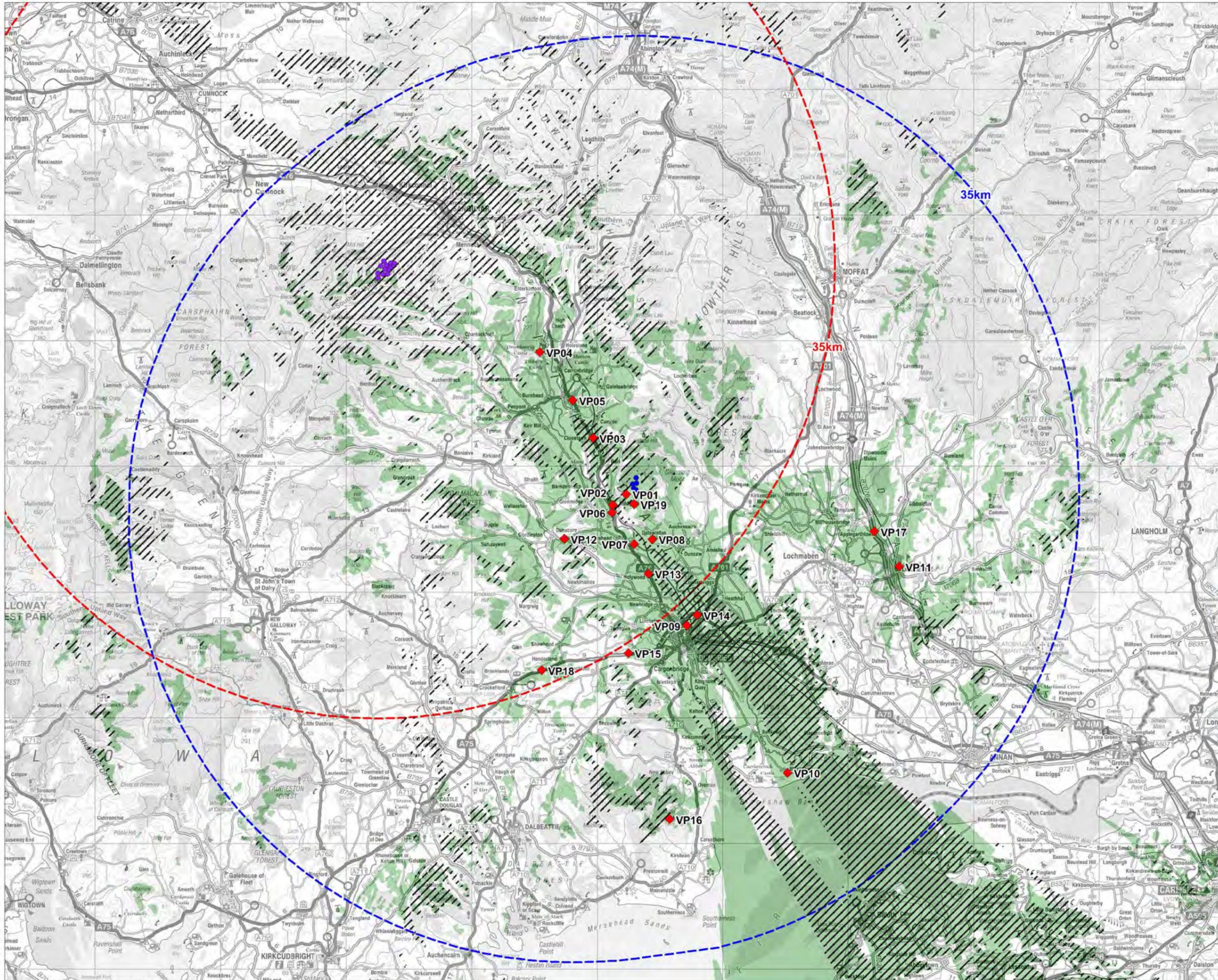


Rev	Date	Description	Drn	Chk	App
01	24.11.11	Newfield 35km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

Blackwood Wind Farm

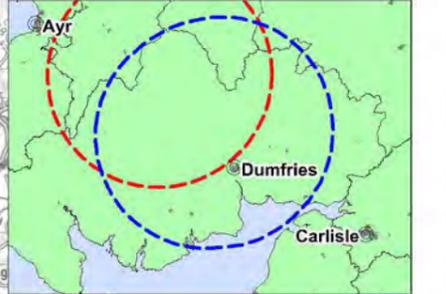
Title: Figure 8.28n - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Newfield Turbines - In Planning at 125m

Scale: 1:300,000 REV 01



- ◆ Viewpoint Location
- Proposed Blackwood Turbine
- Ulzieside Turbine - In Planning
- 35km Distance Marker
- Ulzieside 35km Distance Marker
- Blackwood Wind Farm Zone of Theoretical Visibility
- Zone of Theoretical Visibility: Ulzieside Turbines - Blade Tip at 120m

It should be noted that the ZTV is based on Land-Form Panorama Ordnance Survey Data. This data only takes into account ground level topography and does not take into account low level screening, which may result due to hedge banks, trees or man-made structures such as buildings, therefore it presents the maximum theoretical visibility.

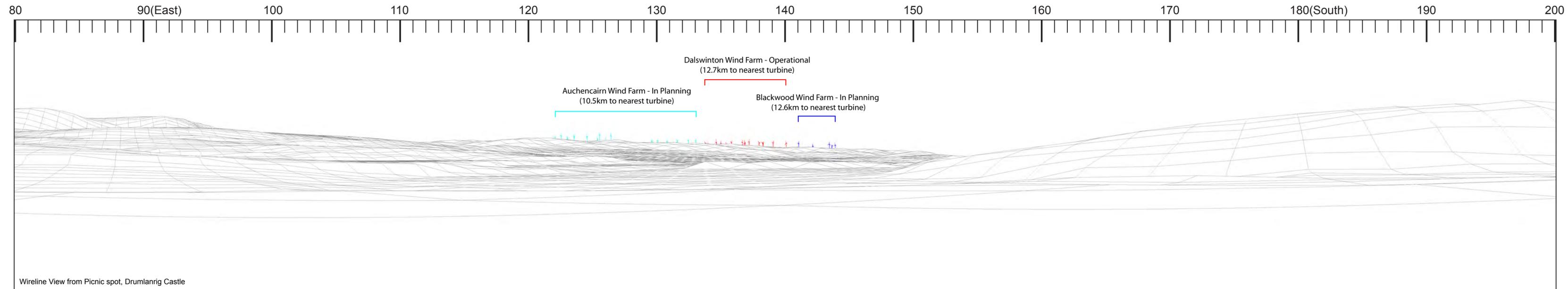


Rev	Date	Description	Drn	Chk	App
01	24.11.11	Ulzieside 35km Buffer	AJ	NE	MK
00	11.10.11	Layout 10-09-11E	DL	NE	MK

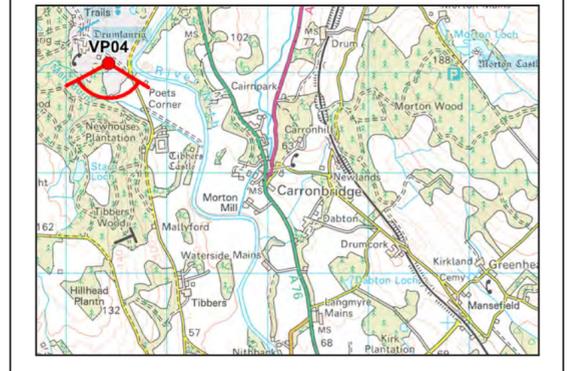
Blackwood Wind Farm

Title : Figure 8.28o - Cumulative Zone of Theoretical Visibility: Proposed Blackwood Turbines at 120m & 140m to Blade Tip, Ulzieside Turbines - In Planning at 120m

Scale : 1:300,000 REV 01



Viewpoint title : Picnic spot, Drumlanrig Castle
 Grid reference : 285417, 599091
 Direction of view : 140°
 Included angle of view : 120°
 Elevation : 76m
 Date of photograph : 15th September 2011
 Time of photograph : 14:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 12.6km
 Correct viewing distance: 31cm

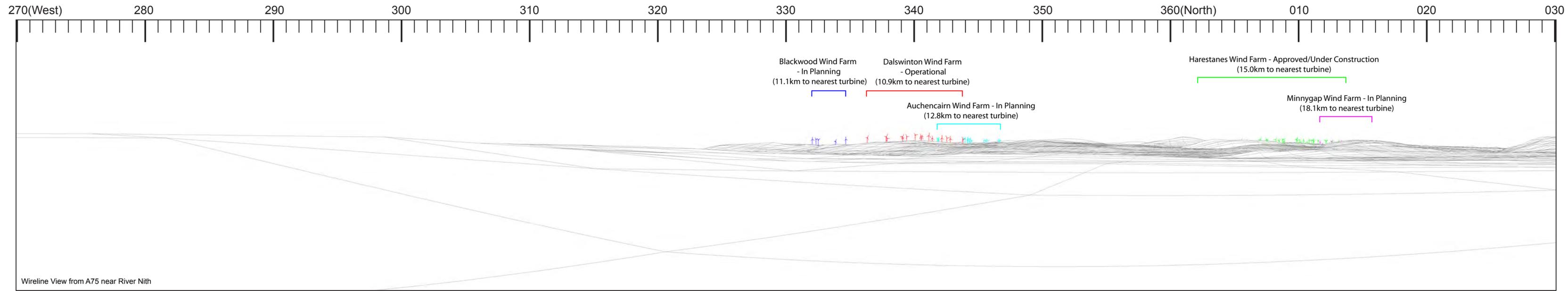


Viewpoint 4
Picnic spot, Drumlanrig Castle
Existing View and Cumulative Wireline
 Figure 8.29

Blackwood Wind Farm



File Reference: P:\020203 Illustration Files\VP04_Es-WF-50-20-Cumulative_Rev01



Viewpoint title : A75 near River Nith
 Grid reference : 297961, 578186
 Direction of view : 330°
 Included angle of view : 120°
 Elevation : 5m
 Date of photograph : 15th September 2011
 Time of photograph : 11:00
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 11.1km
 Correct viewing distance: 31cm

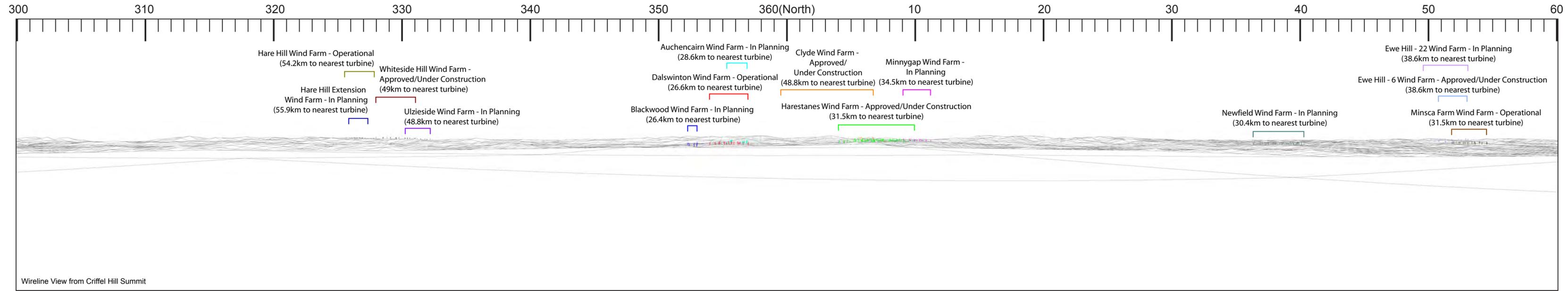


Viewpoint 14
A75 near River Nith
Existing View and Cumulative Wireline
 Figure 8.30

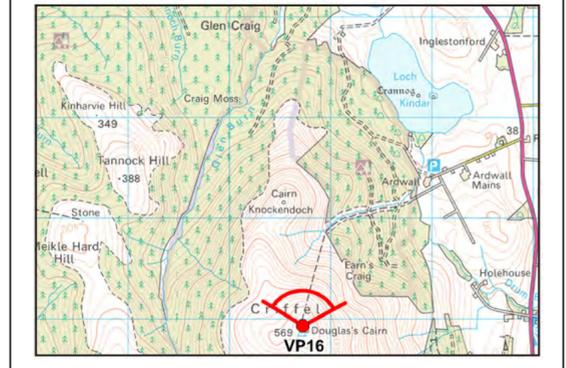
Blackwood Wind Farm



File Reference: P:\020203_Insulator Feas\VP14-FE-WF-270-30-Cumulative - Rev01



Viewpoint title : Criffel Hill Summit
 Grid reference : 295725, 561871
 Direction of view : 360°
 Included angle of view : 120°
 Elevation : 561m
 Date of photograph : 19th October 2011
 Time of photograph : 12:00
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 26.4km
 Correct viewing distance: 31cm

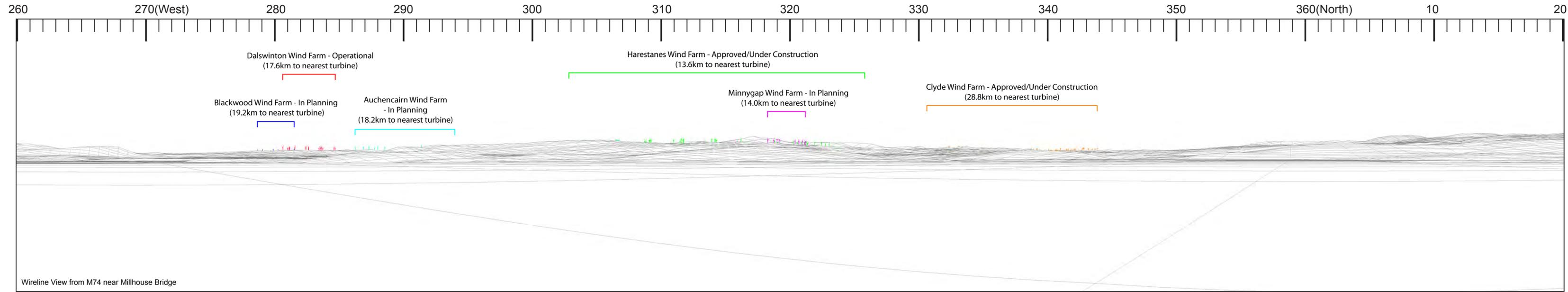


Viewpoint 16
Criffel Hill Summit
Existing View and Cumulative Wireline
 Figure 8.31a

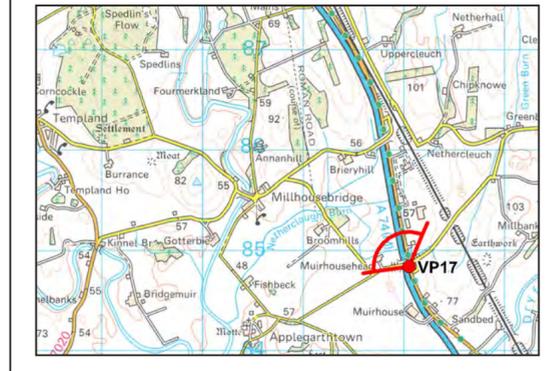
Blackwood Wind Farm



File Reference: P:\020203 Illustration Files\VP16-Ex-View-300-060.dwg - Rev:01



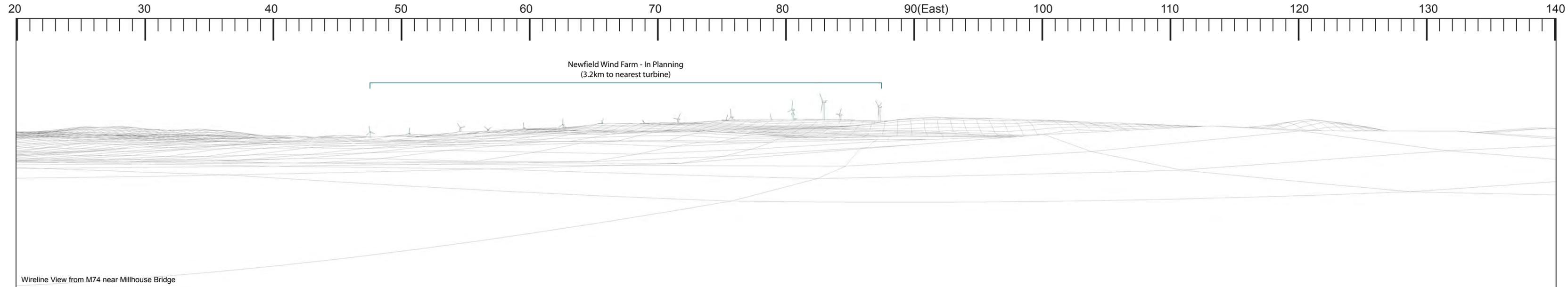
Viewpoint title : M74 near Millhouse Bridge
 Grid reference : 312053, 584839
 Direction of view : 280°
 Included angle of view : 120°
 Elevation : 60m
 Date of photograph : 22nd September 2011
 Time of photograph : 10:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 19.2km
 Correct viewing distance: 31cm



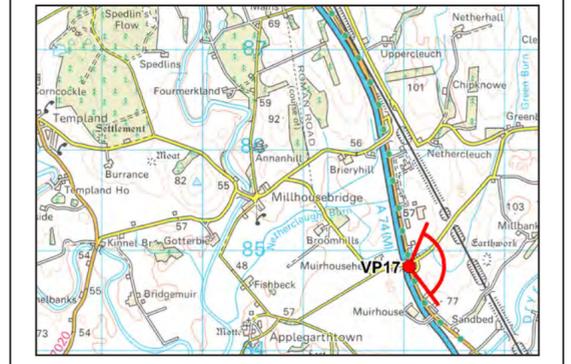
Viewpoint 17
M74 near Millhouse Bridge
Existing View and Cumulative Wireline
 Figure 8.32a

Blackwood Wind Farm

File Reference: P:\020203_illustrator Files\VP17_Es-WF-280-280-Cumulative_R01



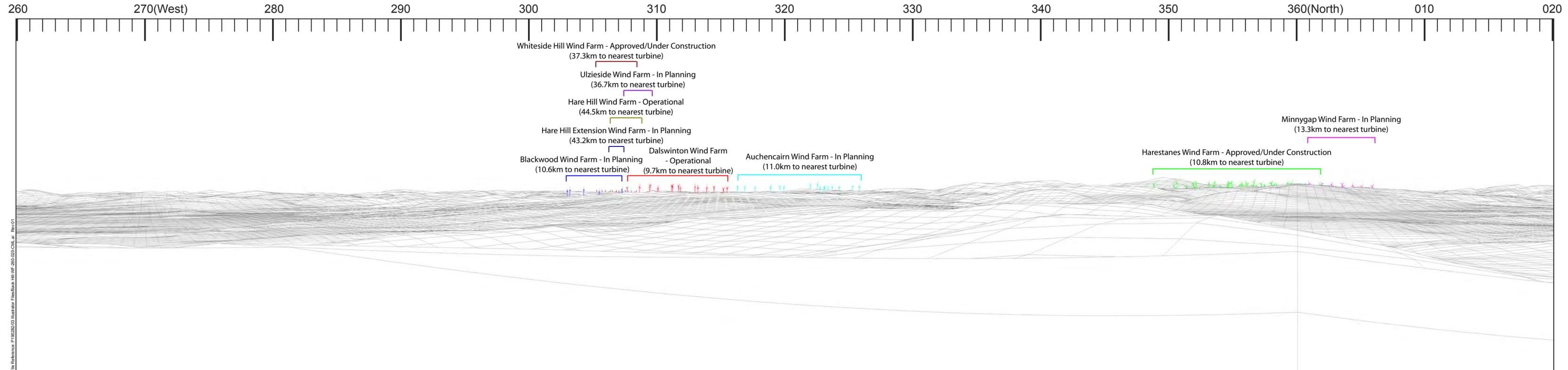
Viewpoint title : M74 near Millhouse Bridge
 Grid reference : 312053, 584839
 Direction of view : 280°
 Included angle of view : 120°
 Elevation : 60m
 Date of photograph : 22nd September 2011
 Time of photograph : 10:45
 Camera type and lens : Canon EOS 5D digital SLR camera
 with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 19.2km
 Correct viewing distance: 31cm



Viewpoint 17
M74 near Millhouse Bridge
Existing View and Cumulative Wireline
 Figure 8.32b

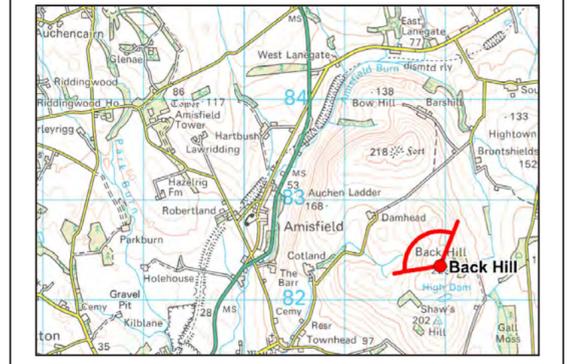
Blackwood Wind Farm

File Reference: P:\020203_Illustrator Files\VP17_EA-WF-20-140_C14_11_Rev01



Cumulative Wireline View from Back Hill

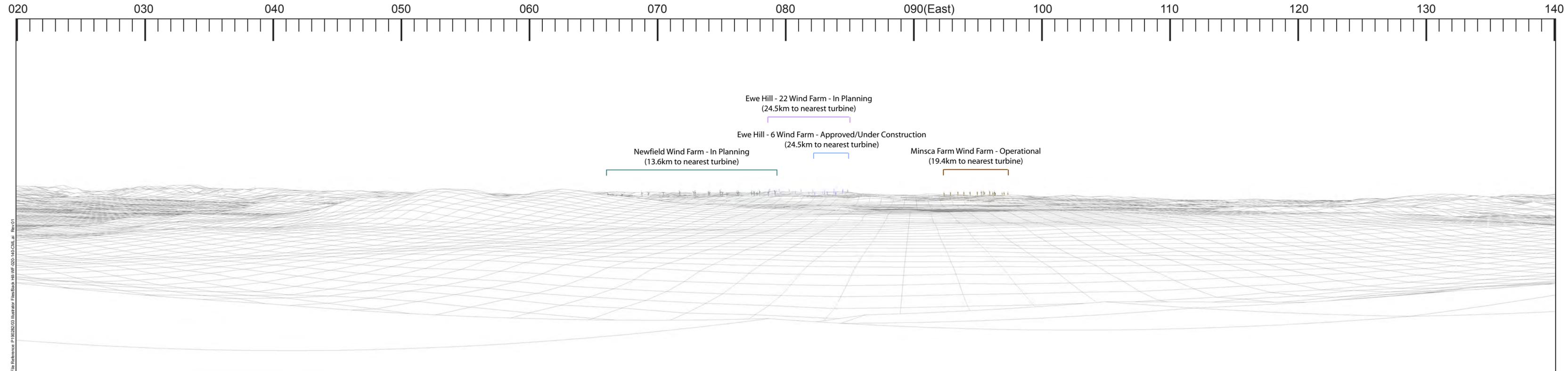
Viewpoint title : Back Hill
 Grid reference : 301950, 582340
 Direction of view : 320°
 Included angle of view : 120°
 Elevation : 221m
 Distance to nearest Blackwood turbine : 10.6km
 Correct viewing distance: 31cm



Back Hill
Cumulative Wireline
 Figure 8.33a

Blackwood Wind Farm

File Reference: P19028203 Illustration Files Back Hill WF 260 020 CML at Rev 01



File Reference: P19028203 Illustration Files Back Hill WF 200-140 CML all Rev 01

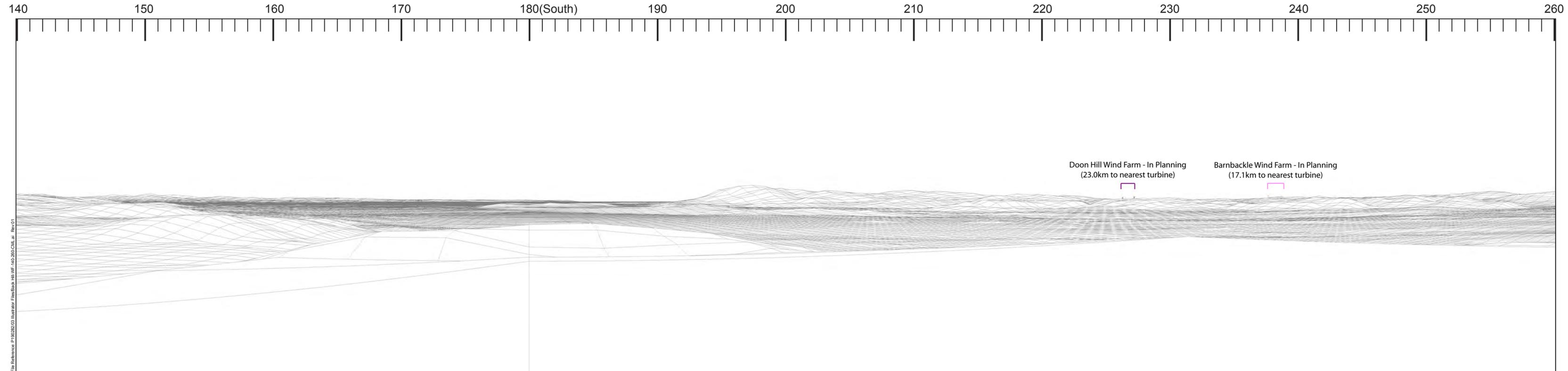
Cumulative Wireline View from Back Hill

Viewpoint title : Back Hill
 Grid reference : 301950, 582340
 Direction of view : 080°
 Included angle of view : 120°
 Elevation : 221m
 Distance to nearest Blackwood turbine : 10.6km
 Correct viewing distance: 31cm



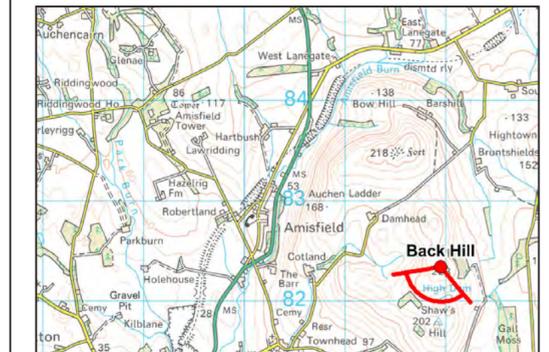
Back Hill
Cumulative Wireline
 Figure 8.33b

Blackwood Wind Farm



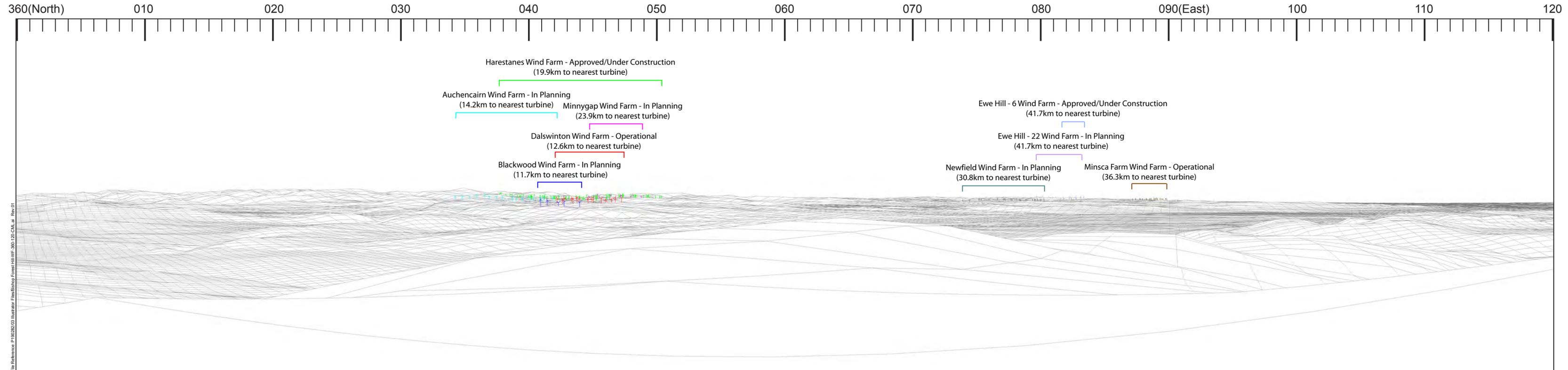
Cumulative Wireline View from Back Hill

Viewpoint title : Back Hill
 Grid reference : 301950, 582340
 Direction of view : 200°
 Included angle of view : 120°
 Elevation : 221m
 Distance to nearest Blackwood turbine : 10.6km
 Correct viewing distance: 31cm



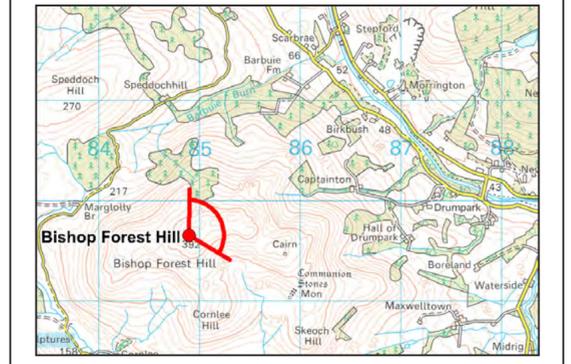
Back Hill
Cumulative Wireline
 Figure 8.33c

Blackwood Wind Farm



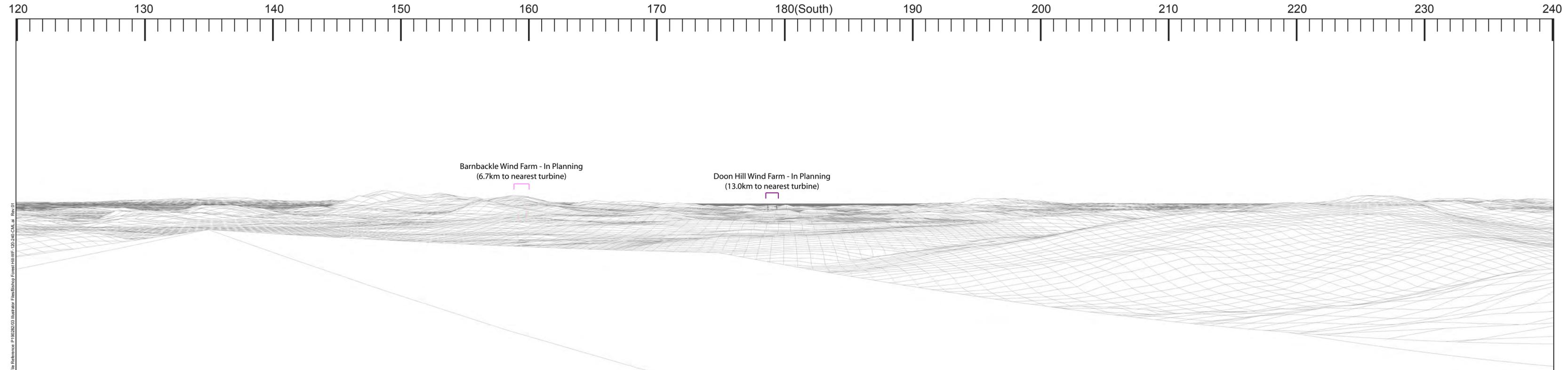
Cumulative Wireline View from Bishop Forest Hill

Viewpoint title : Bishop Forest Hill
 Grid reference : 284895, 579655
 Direction of view : 060°
 Included angle of view : 120°
 Elevation : 390m
 Distance to nearest Blackwood turbine : 11.7km
 Correct viewing distance: 31cm



Bishop Forest Hill
 Cumulative Wireline
 Figure 8.34a

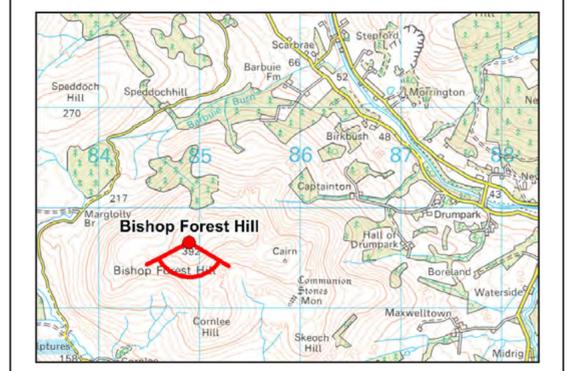
Blackwood Wind Farm



File Reference: P19028203 Illustration Files Bishop Forest Hill V1: 190_240_CML.ai Rev: 01

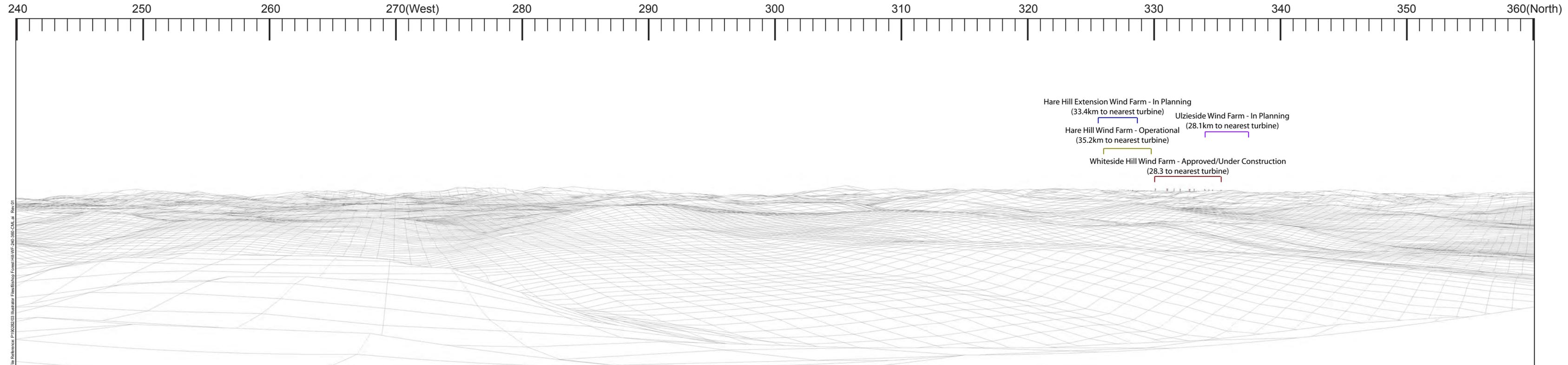
Cumulative Wireline View from Bishop Forest Hill

Viewpoint title : Bishop Forest Hill
 Grid reference : 284895, 579655
 Direction of view : 180°
 Included angle of view : 120°
 Elevation : 390m
 Distance to nearest Blackwood turbine : 11.7km
 Correct viewing distance: 31cm



Bishop Forest Hill
Cumulative Wireline
 Figure 8.34b

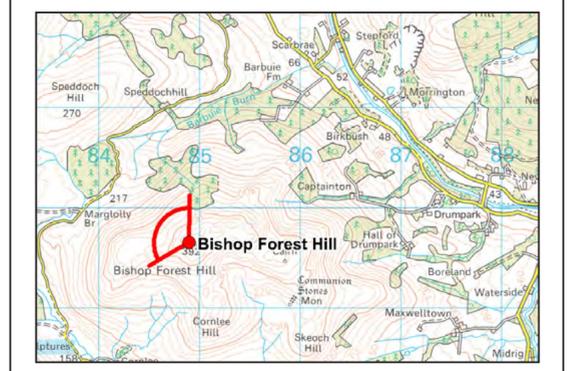
Blackwood Wind Farm



File Reference: P15026203 Illustration Files Bishop Forest Hill V240_340_CML.ai Rev:01

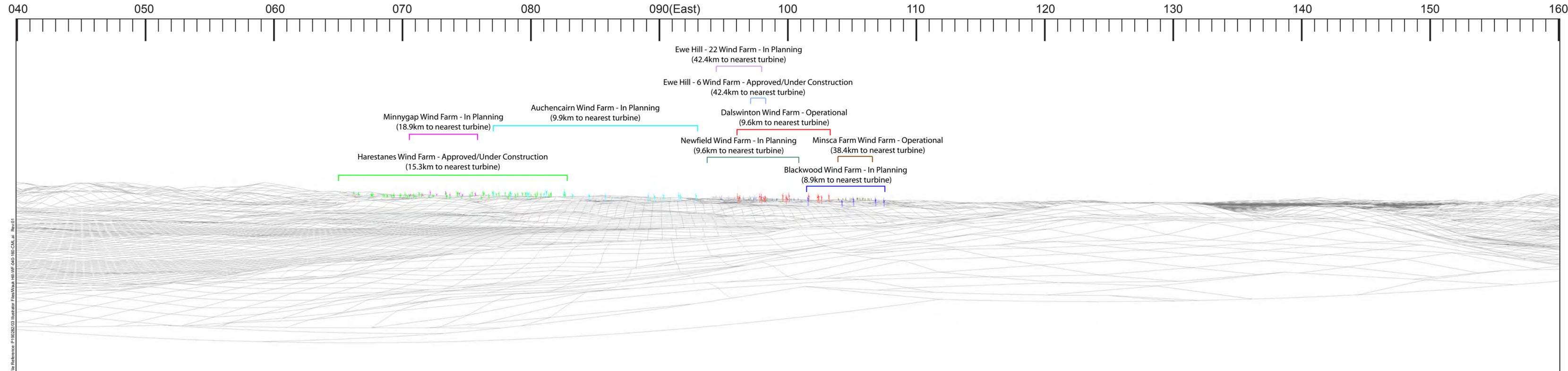
Cumulative Wireline View from Bishop Forest Hill

Viewpoint title : Bishop Forest Hill
 Grid reference : 284895, 579655
 Direction of view : 300°
 Included angle of view : 120°
 Elevation : 390m
 Distance to nearest Blackwood turbine : 11.7km
 Correct viewing distance: 31cm



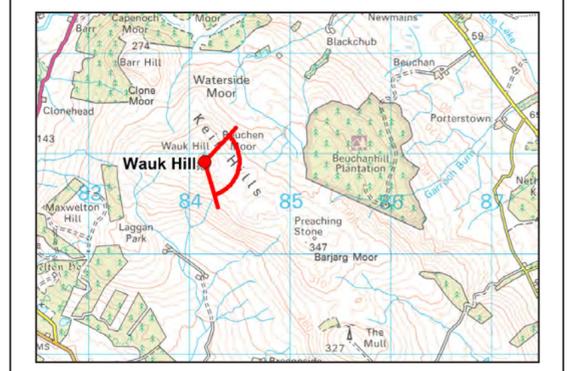
**Bishop Forest Hill
 Cumulative Wireline
 Figure 8.34c**

Blackwood Wind Farm



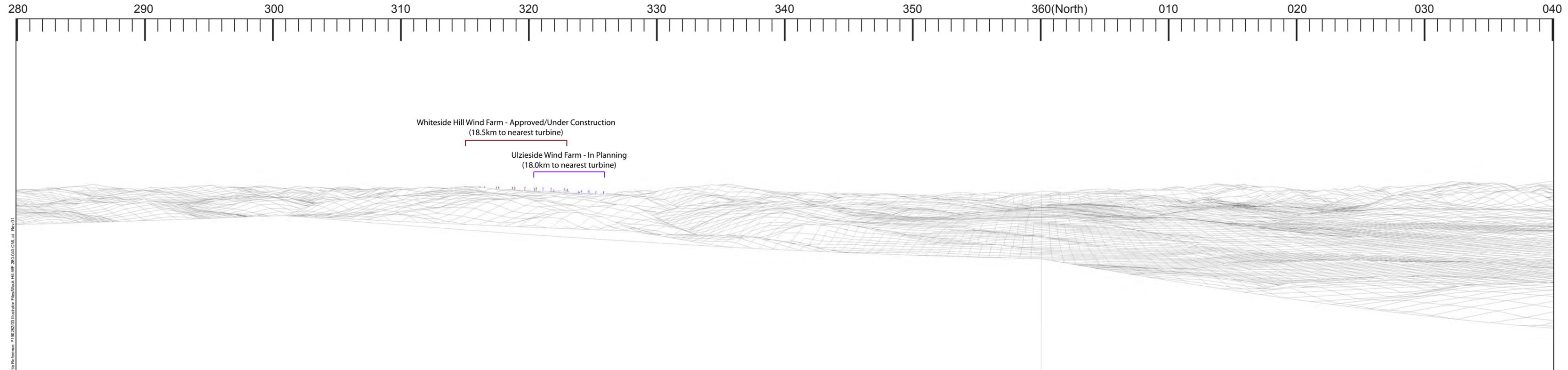
Cumulative Wireline View from Wauk Hill

Viewpoint title : Wauk Hill
 Grid reference : 284150, 590920
 Direction of view : 100°
 Included angle of view : 120°
 Elevation : 350m
 Distance to nearest Blackwood turbine : 8.9km
 Correct viewing distance: 31cm



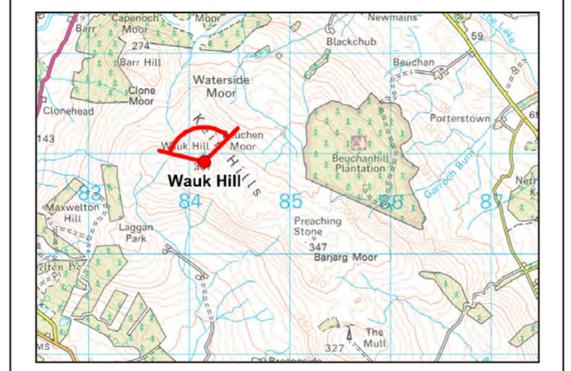
Wauk Hill
Cumulative Wireline
 Figure 8.35a

Blackwood Wind Farm



Cumulative Wireline View from Wauk Hill

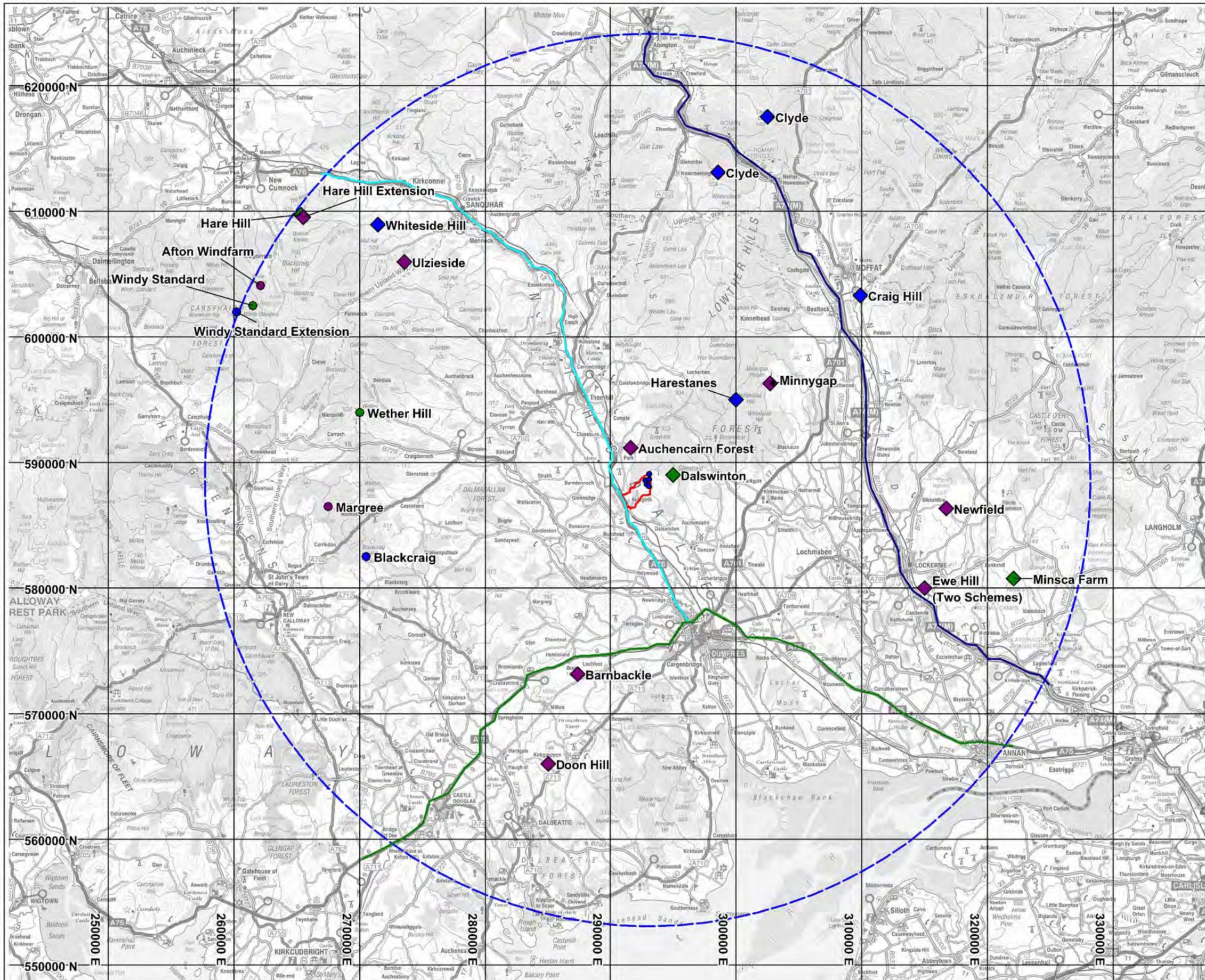
Viewpoint title : Wauk Hill
 Grid reference : 284150, 590920
 Direction of view : 340°
 Included angle of view : 120°
 Elevation : 350m
 Distance to nearest Blackwood turbine : 8.9km
 Correct viewing distance: 31cm



Wauk Hill
Cumulative Wireline
 Figure 8.35b

Blackwood Wind Farm

File Reference: P15028203 Illustration Files\Wauk Hill\WF_284150_590920_CML.ai Rev:01



- Proposed Turbine
- ▭ Site Boundary
- - - 35km distance marker
- M 74
- A75
- A75
- Included in detailed cumulative assessment
 - ◆ Operational
 - ◆ Consented
 - ◆ In Planning
- Not included in detailed cumulative assessment
 - Operational
 - Consented
 - In Planning



Rev	Date	Description	Drn	Chk	App
02	03 01 12	Cumulative Plan	BF	MK	MK
01	22 07 11	Cumulative Plan	BF	MK	MK
00	07 04 11	Cumulative Plan	BF	MK	MK

FORCE 9 ENERGY

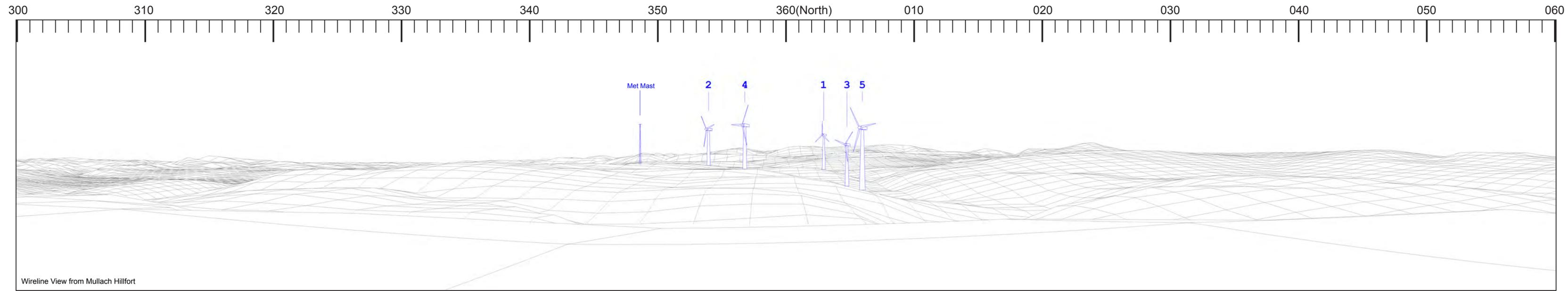
Blackwood Wind Farm

RSK

Figure B.36: Sequential and cumulative map

SCALE: 1:300,000 @ A3

REV 02



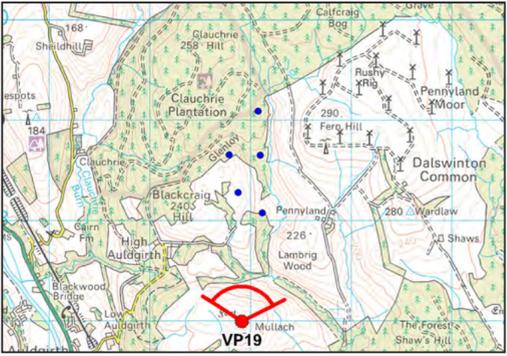
Wireline View from Mullach Hillfort



Existing View from Mullach Hillfort



Viewpoint title : Mullach Hillfort
 Grid reference : 292915, 586996
 Direction of view : 360°
 Included angle of view : 120°
 Elevation : 230m
 Date of photograph : 22nd September 2011
 Time of photograph : 13:45
 Camera type and lens : Canon EOS 5D digital SLR camera with a 50mm lens
 Camera height above ground : 1.6m
 Distance to nearest Blackwood turbine : 1.1km
 Correct viewing distance: 31cm
 Number of turbine blade tips visible : 5
 Number of turbine hubs visible : 5



Viewpoint 19
Mullach Hillfort
 Existing View and Wireline
 Figure 9.3a

Blackwood Wind Farm

300 310 320 330 340 350 360(North) 010 020 030 040 050 060

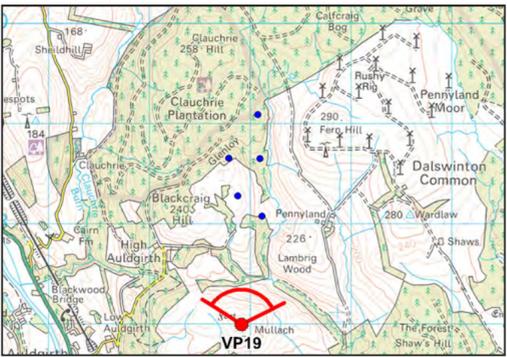


Photomontage View from Mullach Hillfort

File Reference: P19020203 Illustration File\VP19-P19-PA-120.ai Rev:01



Viewpoint title : Mullach Hillfort
Grid reference : 292915, 586996
Direction of view : 360°
Included angle of view : 120°
Elevation : 230m
Date of photograph : 22nd September 2011
Time of photograph : 13:45
Camera type and lens : Canon EOS 5D digital SLR camera
with a 50mm lens
Camera height above ground : 1.6m
Distance to nearest Blackwood turbine : 1.1km
Correct viewing distance: 31cm



Viewpoint 19
Mullach Hillfort
Photomontage View
Figure 9.3b

Blackwood Wind Farm