

Legend

- Turbine locations
- Distance from turbines (5km intervals)
- Site boundary
- Solar PV Area
- Other wind farms (to 25km) existing

Notes: The ZTV is calculated to turbine tip heights of up to 200m, from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.



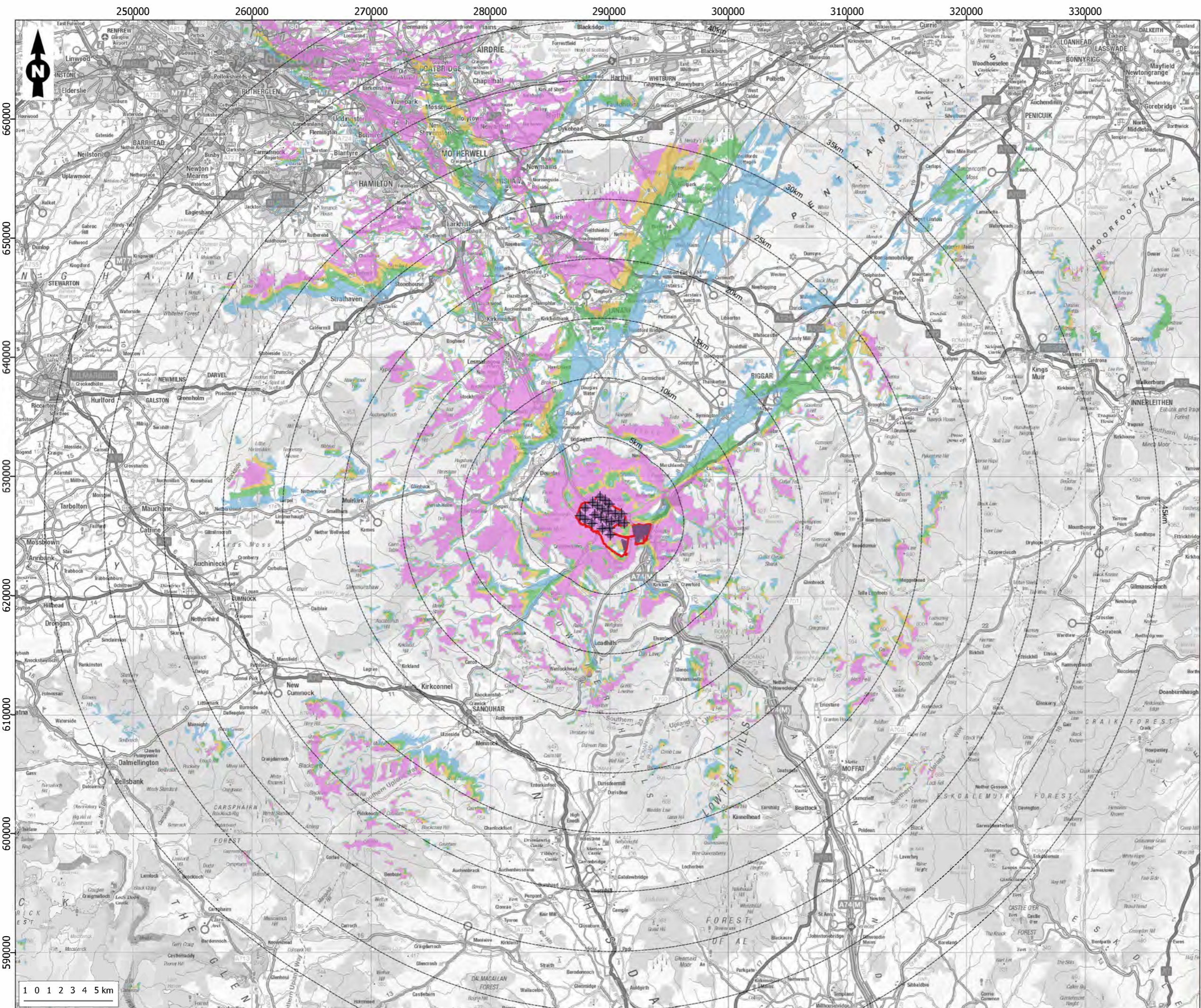
Figure Title
Figure 4.1: LVIA Study Area

Project Name
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.1
Date	18/07/2024	Prepared by	AS
Scale	Scale @ A3: 1:300,000	Issue	r3

Client
M74 West Ltd





Legend

- Turbine locations
- Distance from turbines (5km intervals)
- Site boundary
- Solar PV Area
- Zone of Theoretical Visibility**
- 1-5 turbines visible
- 6-11 turbines visible
- 12-16 turbines visible
- 17-22 turbines visible

Notes: The ZTV is calculated to turbine tip heights of up to 200m, from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.



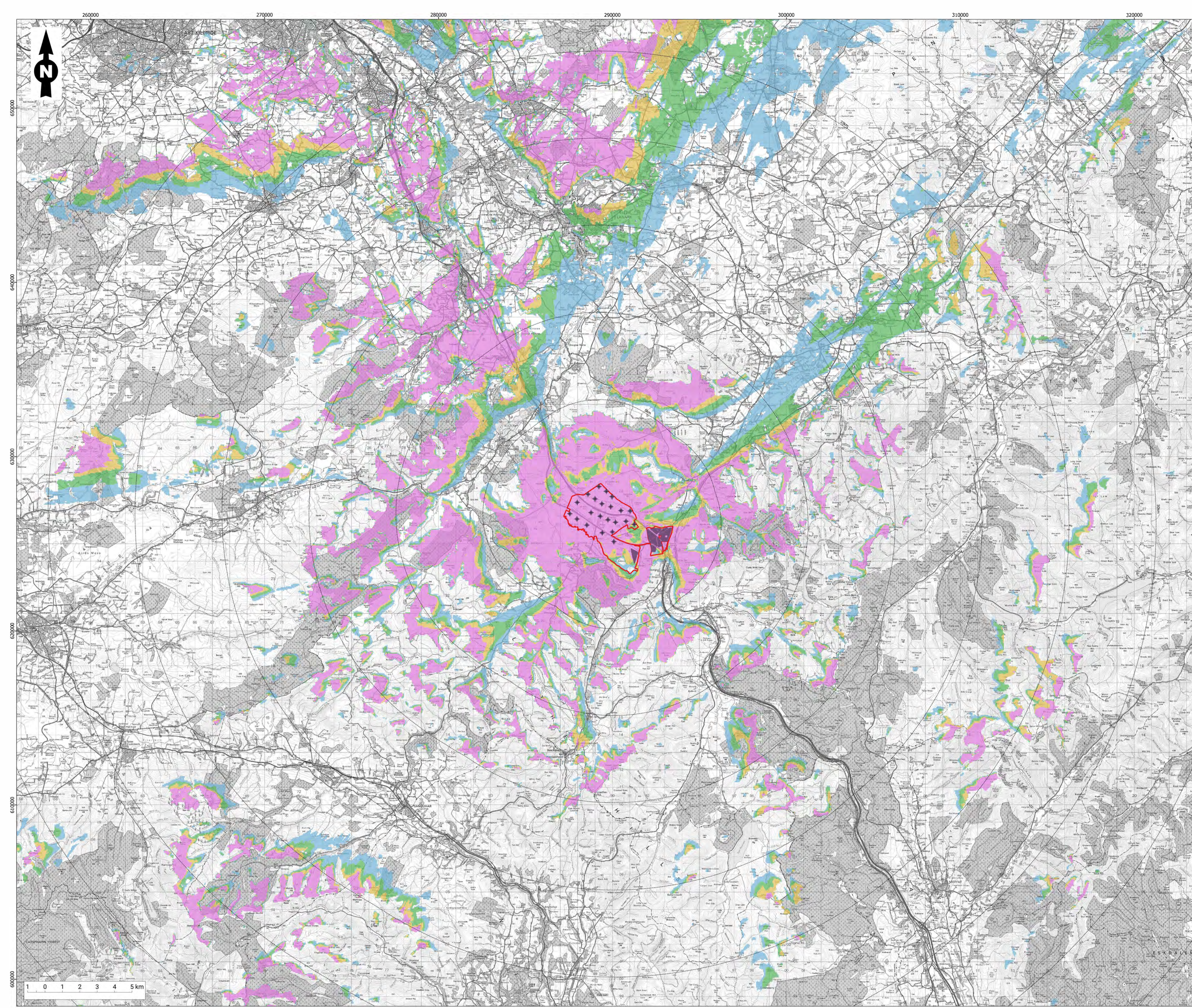
Figure Title
Figure 4.2: Zone of Theoretical Visibility, Turbine Tips at 1:300,000 scale

Project Name
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.2a
Date	29/08/2024	Prepared by	AS
Scale	Scale @ A3: 1:300,000	Issue	r4

Client
M74 West Ltd





- Legend**
- ◆ Turbine locations
 - Distance from turbines (5km intervals)
 - ▭ Site boundary
 - ▭ Solar PV Area
 - Zone of Theoretical Visibility**
 - 1-5 turbines visible
 - 6-11 turbines visible
 - 12-16 turbines visible
 - 17-22 turbines visible

Notes: The ZTV is calculated to turbine tip heights of up to 200m, from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.



Figure Title
 Figure 4.3: Zone of Theoretical Visibility, Turbine Tips at 1:100,000 scale

Project Name
M74 West Renewable Energy Park

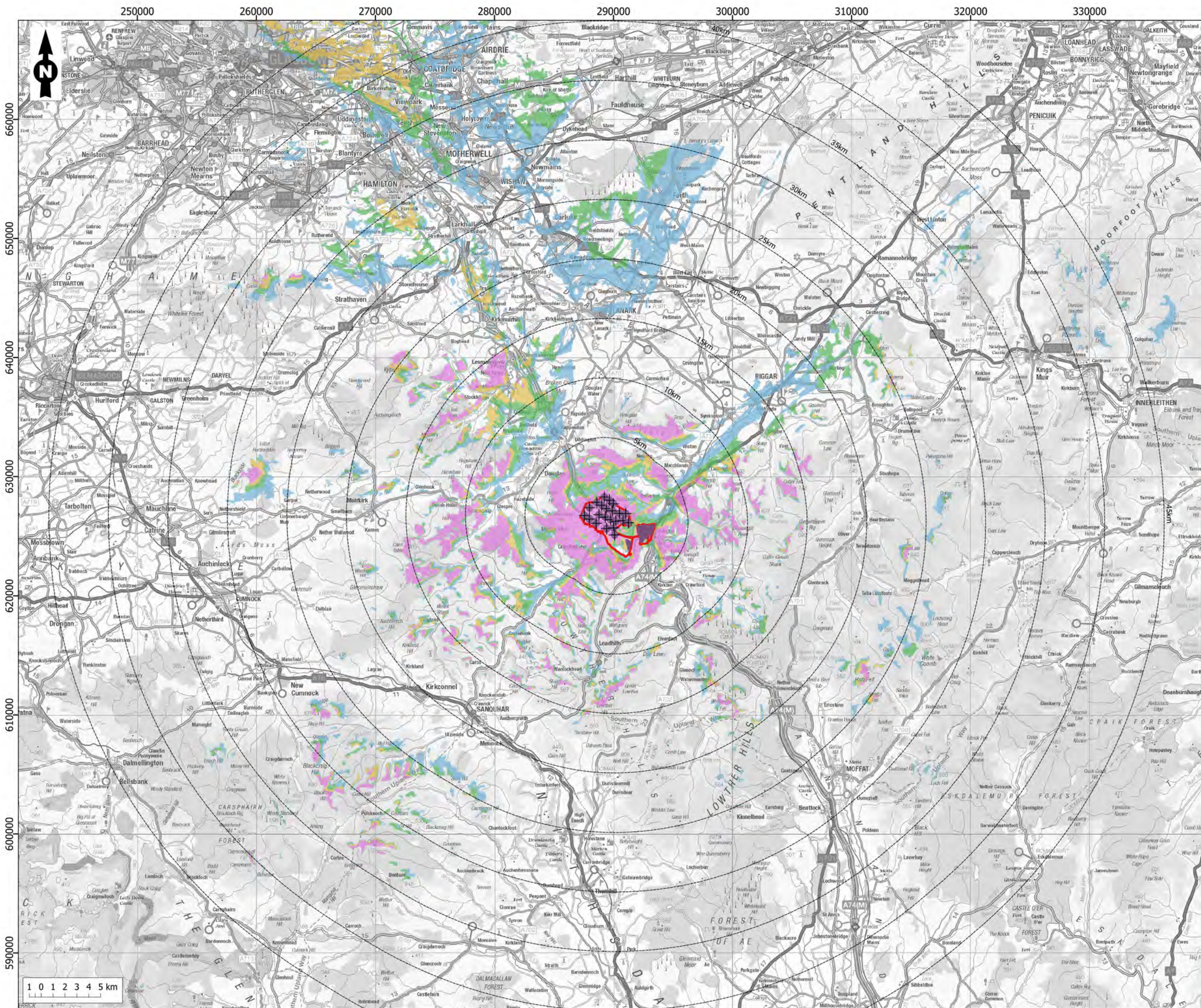
Project Number 23014	Figure No. 4.3
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Date 24/07/2024	Prepared by AS
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Scale Scale @ A1: 1:100,000	Issue r4
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Client
M74 West Ltd





Legend

- Turbine locations
- Distance from turbines (5km intervals)
- Site boundary
- Solar PV Area
- Zone of Theoretical Visibility**
- 1-5 hubs visible
- 6-11 hubs visible
- 12-16 hubs visible
- 17-22 hubs visible

Notes: The ZTV is calculated to turbine hub heights of up to 122.5m, from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.



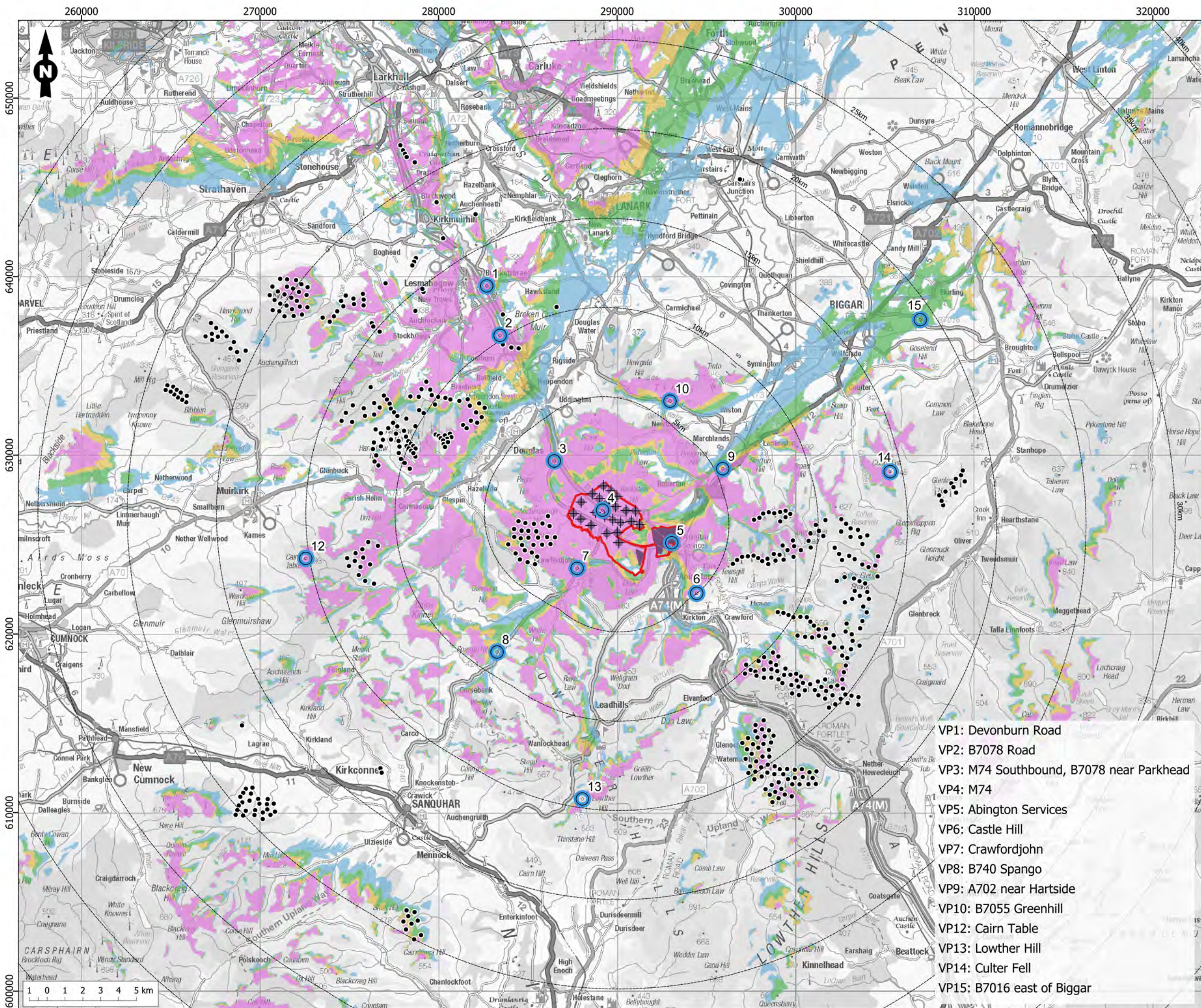
Figure Title
Figure 4.4: Zone of Theoretical Visibility, Turbine Hubs at 1:300,000 scale

Project Name
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.4
Date	24/07/2024	Prepared by	AS
Scale	Scale @ A3: 1:300,000	Issue	r3

Client
M74 West Ltd





Legend

- ◆ Turbine locations
- Distance from turbines (5km intervals)
- ▭ Site boundary
- Solar PV Area
- Other wind farms (to 25km)
- existing
- Zone of Theoretical Visibility
- 1-5 turbines visible
- 6-11 turbines visible
- 12-16 turbines visible
- 17-22 turbines visible
- Viewpoints (see inset for detail)

Notes: The ZTV is calculated to turbine tip heights of up to 200m, from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.



Figure Title
Figure 4.6: ZTV and Proposed Viewpoints

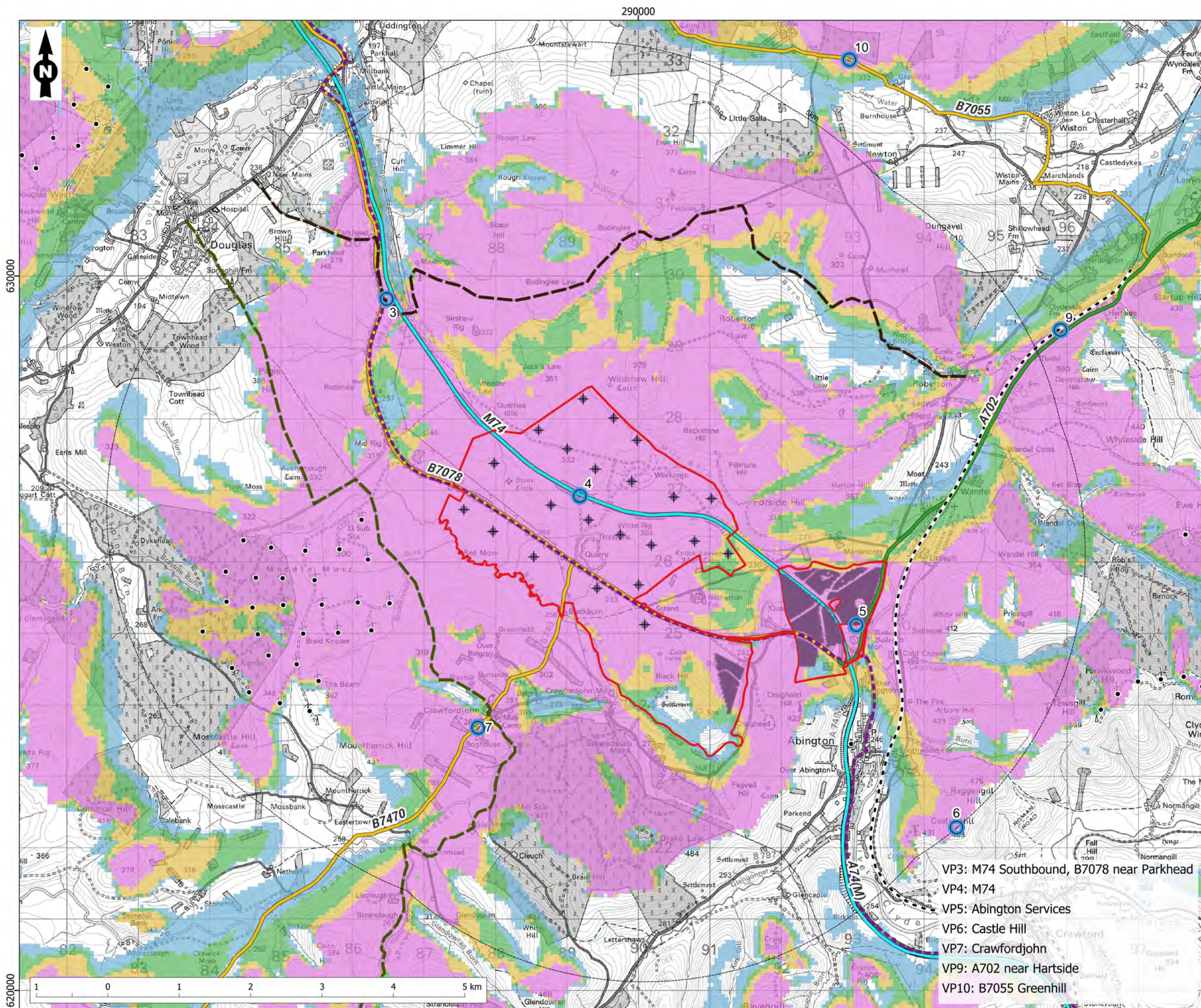
Project Name
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.6
Date	21/08/2024	Prepared by	AS
Scale	Scale @ A3: 1:200,000	Issue	r4

Client
M74 West Ltd



- VP1: Devonburn Road
- VP2: B7078 Road
- VP3: M74 Southbound, B7078 near Parkhead
- VP4: M74
- VP5: Abington Services
- VP6: Castle Hill
- VP7: Crawfordjohn
- VP8: B740 Spango
- VP9: A702 near Hartside
- VP10: B7055 Greenhill
- VP12: Cairn Table
- VP13: Lowther Hill
- VP14: Culter Fell
- VP15: B7016 east of Biggar



Legend

- Turbine locations
- Distance from turbines (5km intervals)
- Site boundary
- Solar PV Area
- Other wind farms (to 25km) existing
- Zone of Theoretical Visibility**
 - 1-5 turbines visible
 - 6-11 turbines visible
 - 12-16 turbines visible
 - 17-22 turbines visible
- Roads and Railway**
 - M74
 - A74(M)
 - A702
 - B7078
 - B7055
 - B7470
 - West Coast Main Line
- Recreational Routes**
 - Hill Track 57
 - Hill Track 58
 - National Cycle Network
 - Viewpoints (see inset for details)

Notes: The ZTV is calculated to turbine tip heights of up to 200m, from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.



Figure Title
Figure 4.7: ZTV and Visual Receptors within 5km

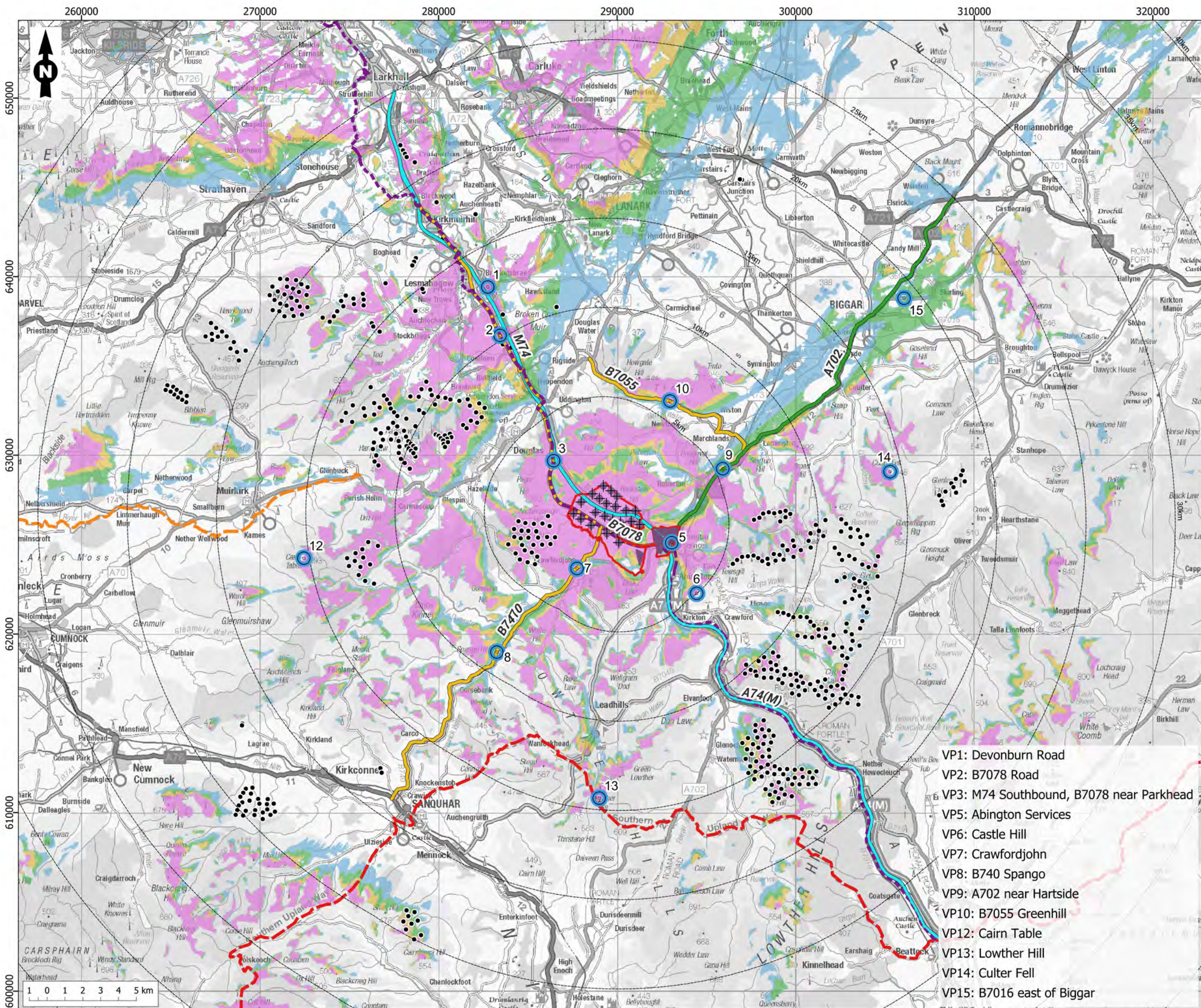
Project Name
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.7
Date	21/08/2024	Prepared by	AS
Scale	Scale @ A3: 1:50,000	Issue	r3

Client
M74 West Ltd



- VP3: M74 Southbound, B7078 near Parkhead
- VP4: M74
- VP5: Abington Services
- VP6: Castle Hill
- VP7: Crawfordjohn
- VP9: A702 near Hartside
- VP10: B7055 Greenhill



Legend

- Turbine locations
- Distance from turbines (5km intervals)
- Site boundary
- Solar PV Area
- Other wind farms (to 25km) existing
- Zone of Theoretical Visibility
 - 1-5 turbines visible
 - 6-11 turbines visible
 - 12-16 turbines visible
 - 17-22 turbines visible
- Roads
 - M74
 - A74(M)
 - A702
 - B7078
 - B7055
 - B7470
- Recreational Routes
 - Southern Upland Way
 - River Ayr Way
 - National Cycle Network
 - Viewpoints (see inset for details)

Notes: The ZTV is calculated to turbine tip heights of up to 200m, from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.

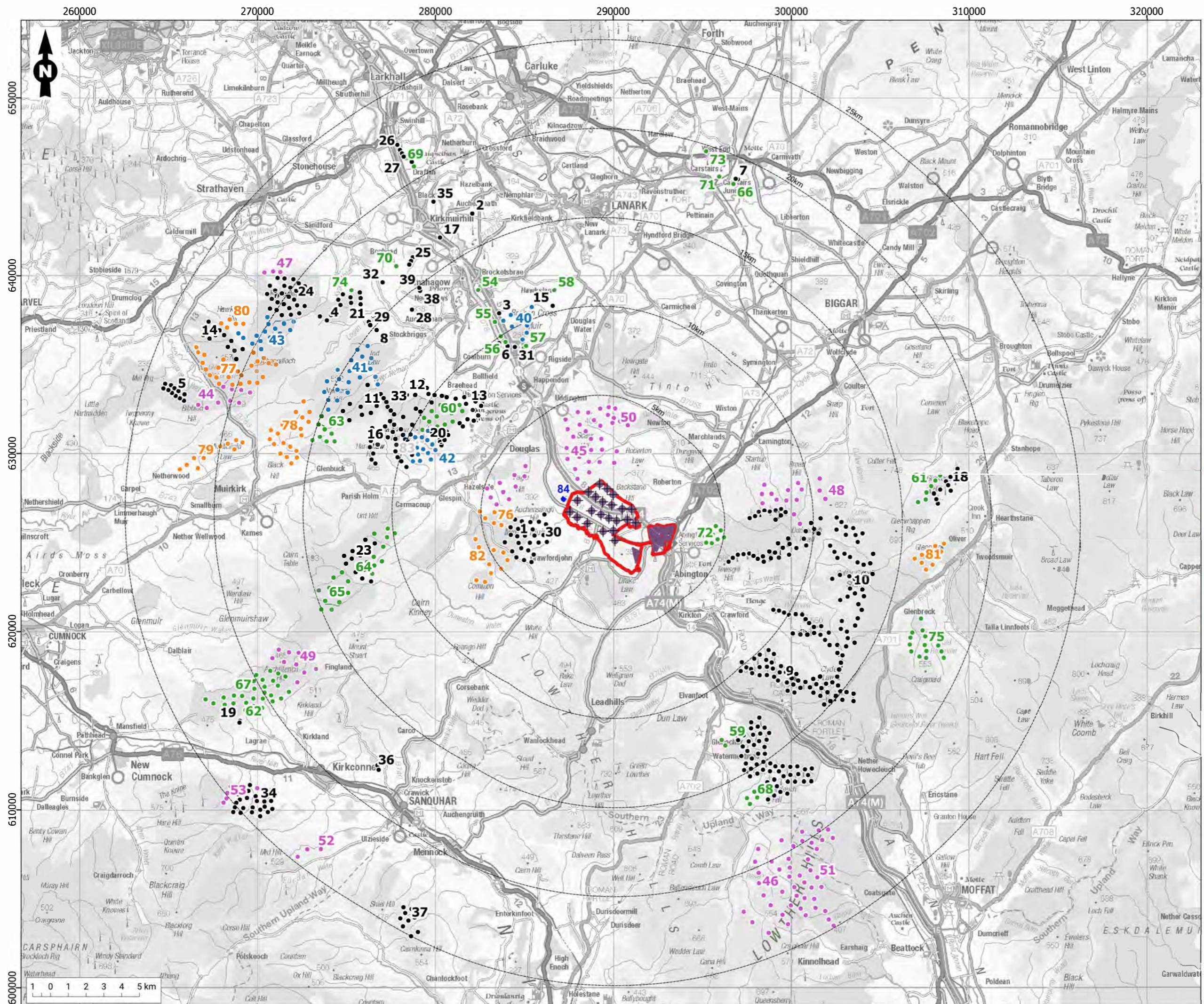


Figure Title
Figure 4.8: ZTV and Visual Receptors within 25km

Project Name		M74 West Renewable Energy Park	
Project Number	23014	Figure No.	4.8
Date	25/07/2024	Prepared by	AS
Scale	Scale @ A3: 1:200,000	Issue	r1
Client		M74 West Ltd	

- VP1: Devonburn Road
- VP2: B7078 Road
- VP3: M74 Southbound, B7078 near Parkhead
- VP5: Abington Services
- VP6: Castle Hill
- VP7: Crawfordjohn
- VP8: B740 Spango
- VP9: A702 near Hartside
- VP10: B7055 Greenhill
- VP12: Cairn Table
- VP13: Lowther Hill
- VP14: Culter Fell
- VP15: B7016 east of Biggar





Legend

- ◆ Turbine locations
- Distance from turbines (5km intervals)
- ▭ Site boundary
- Solar PV Area

Other windfarms (to 25km):

- existing
- construction
- consented
- application
- scoping
- decommissioned

■ Redshaw Substation

Notes: Please see Figure 4.9b for a detailed list of wind farms within 25km corresponding to the labels on the map.



Figure Title
Figure 4.9a: Cumulative within 25km (as at 30/05/2024)

Project Name
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.9a
Date	25/07/2024	Prepared by	AS
Scale	Scale @ A3: 1:200,000	Issue	r1
Client	M74 West Ltd		



- | | |
|--------------------------------|--|
| 1 Andershaw | 52 Rowancraig |
| 2 Auchnotroch Farm | 53 Sandy Knowe Extension |
| 3 Auchren Farm | 54 Auldton Farm |
| 4 Auchrobert | 55 Auldtonheights |
| 5 Bankend Rig | 56 Birkhill Mill |
| 6 Birkhill | 57 Broken Cross Surface Mine |
| 7 Burnhouse | 58 Corra Farm |
| 8 Cleughhead Farm | 59 Crookedstane |
| 9 Clyde | 60 Douglas West Ext |
| 10 Clyde Extension | 61 Glenkerie Extension |
| 11 Cumberhead | 62 Glenmuckloch |
| 12 Dalquhandy | 63 Hare Craig |
| 13 Douglas West | 64 Kennoxhead Phase 2 |
| 14 Dungeval | 65 Kennoxhead Phase 2 (Penbreck redesign) |
| 15 Easterton Wind Cluster | 66 Lampits Farm |
| 16 Galawhistle | 67 Lethans WF (2019) |
| 17 Garrelwood Farm | 68 Lion Hill |
| 18 Glenkerie | 69 Lochhead East |
| 19 Glenmuckloch Energy Park | 70 Muirhouse Farm |
| 20 Hagshaw Hill Phase2 | 71 NHS The State Hospital |
| 21 High Waterhead Farm | 72 Priestgill |
| 22 JJ's Farm | 73 Redlands Poultry Farm |
| 23 Kennoxhead Phase 1 | 74 South Priorhill |
| 24 Kype Muir | 75 Whitelaw Brae |
| 25 Ladehead Farm | 76 Glentaggart WF |
| 26 Lochhead WindCluster | 77 Hagshaw Energy Cluster - Western Expansion_Area A_Phase 1 |
| 27 Lochhead WindCluster Ext | 78 Hagshaw Energy Cluster - Western Expansion_Area B_Phase 2 |
| 28 Low Whiteside Farm | 79 Hagshaw Energy Cluster - Western Expansion_Area C_Phase 2 |
| 29 Lower Waterhead Farm | 80 Hawkwood Hill |
| 30 Middle Muir | 81 Oliver Forest |
| 31 Nether Fauldhouse Farm | 82 West Andershaw |
| 32 North Brackenridge | 83 Hagshaw Hill Phase1 |
| 33 Nutberry | 84 Redshaw Substation |
| 34 Sandy Knowe | |
| 35 Southfield Farm | |
| 36 Sunnyside | |
| 37 Twenty Shilling Hill | |
| 38 Woodlands Farm T1 | |
| 39 Woodlands Farm T2 | |
| 40 Broken Cross Energy Project | |
| 41 Cumberhead West | |
| 42 Hagshaw Hill Repowering | |
| 43 Kype Muir Extension | |
| 44 Bankend Rig III | |
| 45 Bodinglee | |
| 46 Daer | |
| 47 East Merkland | |
| 48 Grayside | |
| 49 Lethans Extension | |
| 50 Little Gala | |
| 51 Rivox | |

Notes: Please see Figure 4.9a for a detailed visualisation of wind farms within 25km corresponding to the list.



Figure Title

Figure 4.9b: Cumulative within 25km: List

Project Name

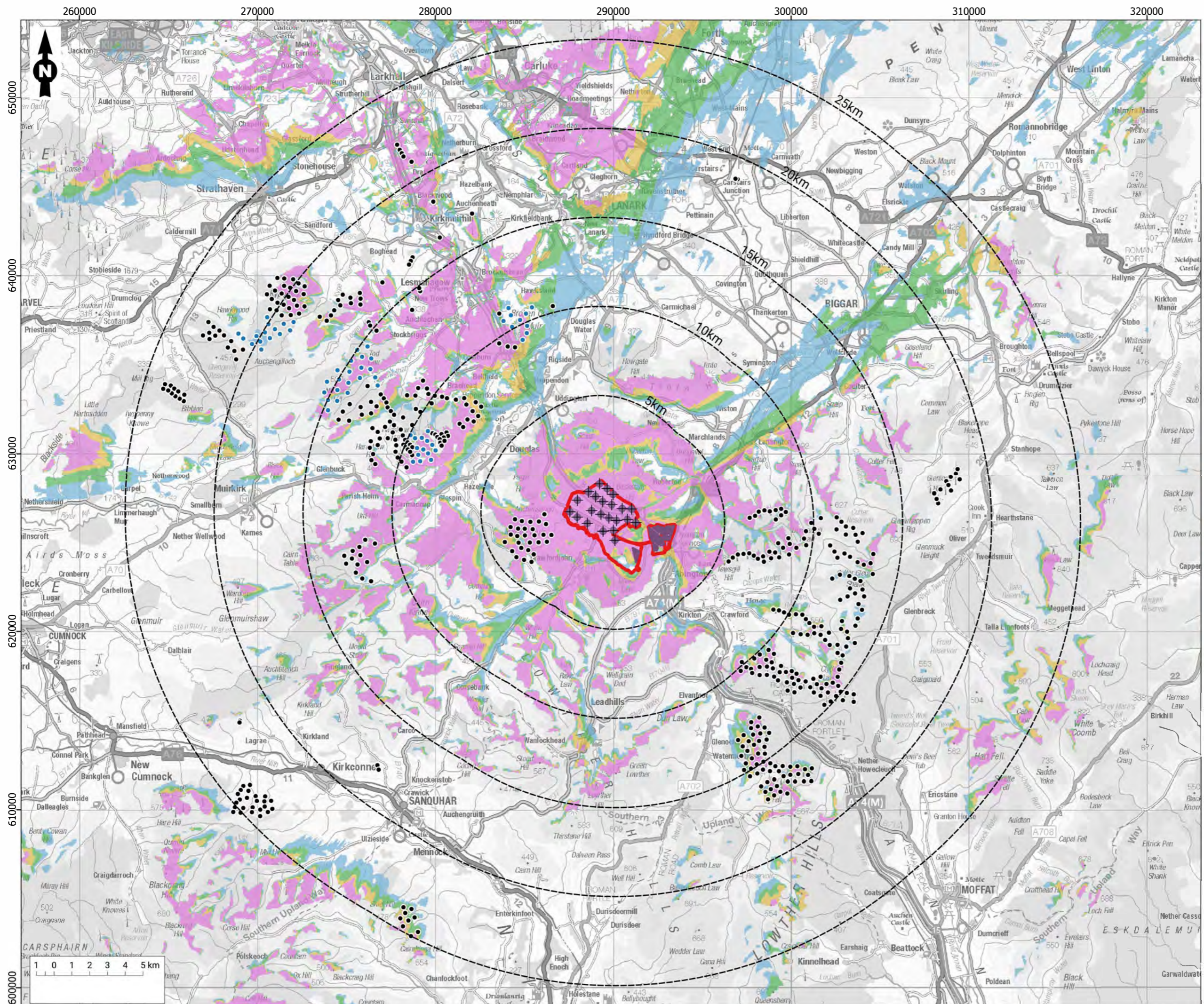
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.9b
Date	30/05/2024	Prepared by	AS
Scale	Scale @ A3: 1:200,000	Issue	r0

Client

M74 West Ltd





Legend

- ◆ Turbine locations
- Distance from turbines (5km intervals)
- ▭ Site boundary
- ▭ Solar PV Area
- Zone of Theoretical Visibility
- 1-5 turbines visible
- 6-11 turbines visible
- 12-16 turbines visible
- 17-22 turbines visible
- Other windfarms (to 25km):
- existing
- construction

Notes: The ZTV is calculated to turbine tip heights of up to 200m, from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.



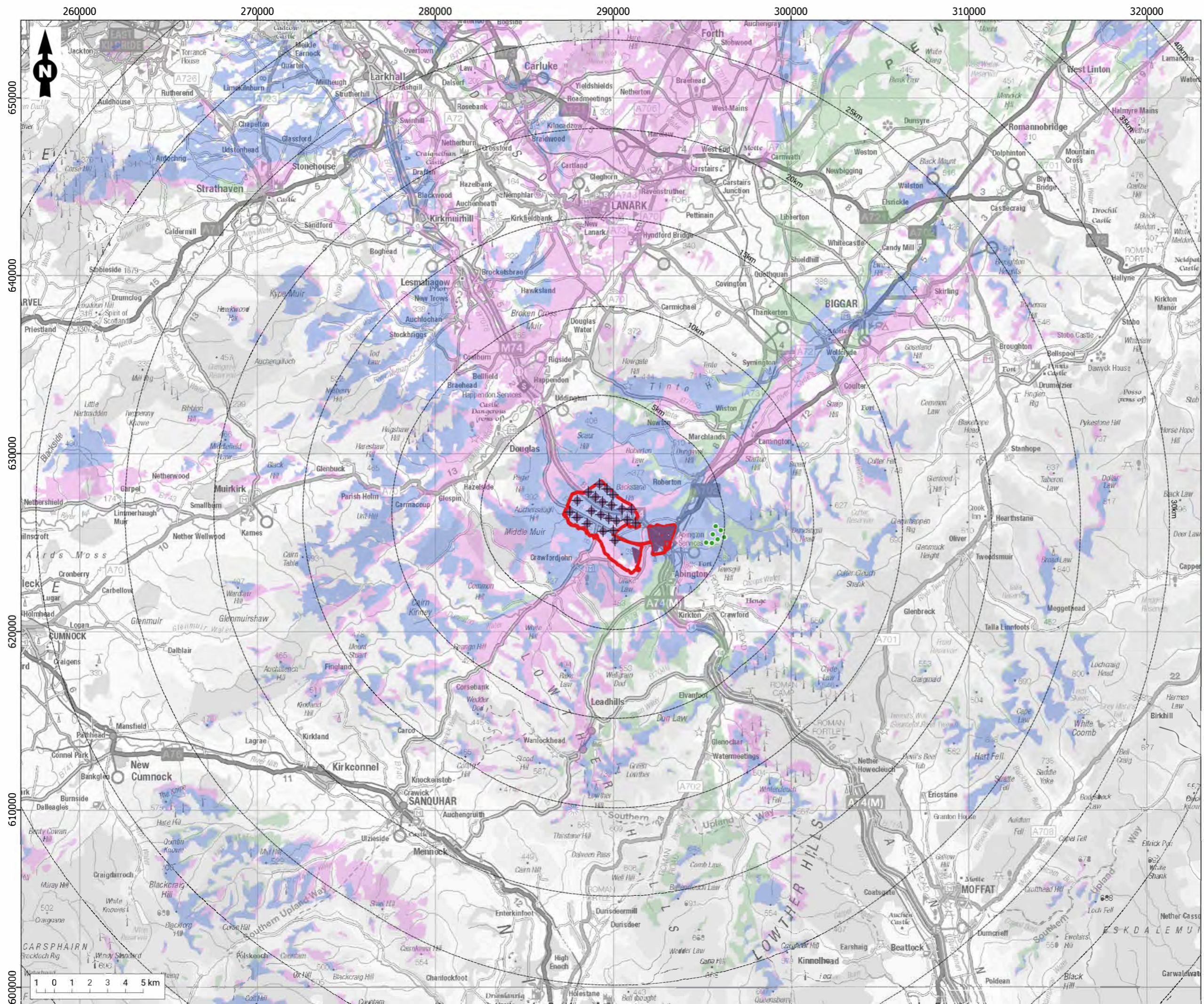
Figure Title
Figure 4.10: Zone of Theoretical Visibility with Operational and Under Construction Schemes

Project Name
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.10
Date	30/05/2024	Prepared by	AS
Scale	Scale @ A3: 1:200,000	Issue	r0

Client
M74 West Ltd





Legend

- ◆ Turbine locations
- Distance from turbines (5km intervals)
- ▭ Site boundary
- ▭ Solar PV Area

Other windfarms

- consented scheme, Priestgill

Zone of Theoretical Visibility

- ▭ both wind farms visible
- ▭ M74 West visible only
- ▭ Consented scheme, Priestgill visible only

Notes: The ZTVs are calculated to turbine tip heights for each wind farm from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.



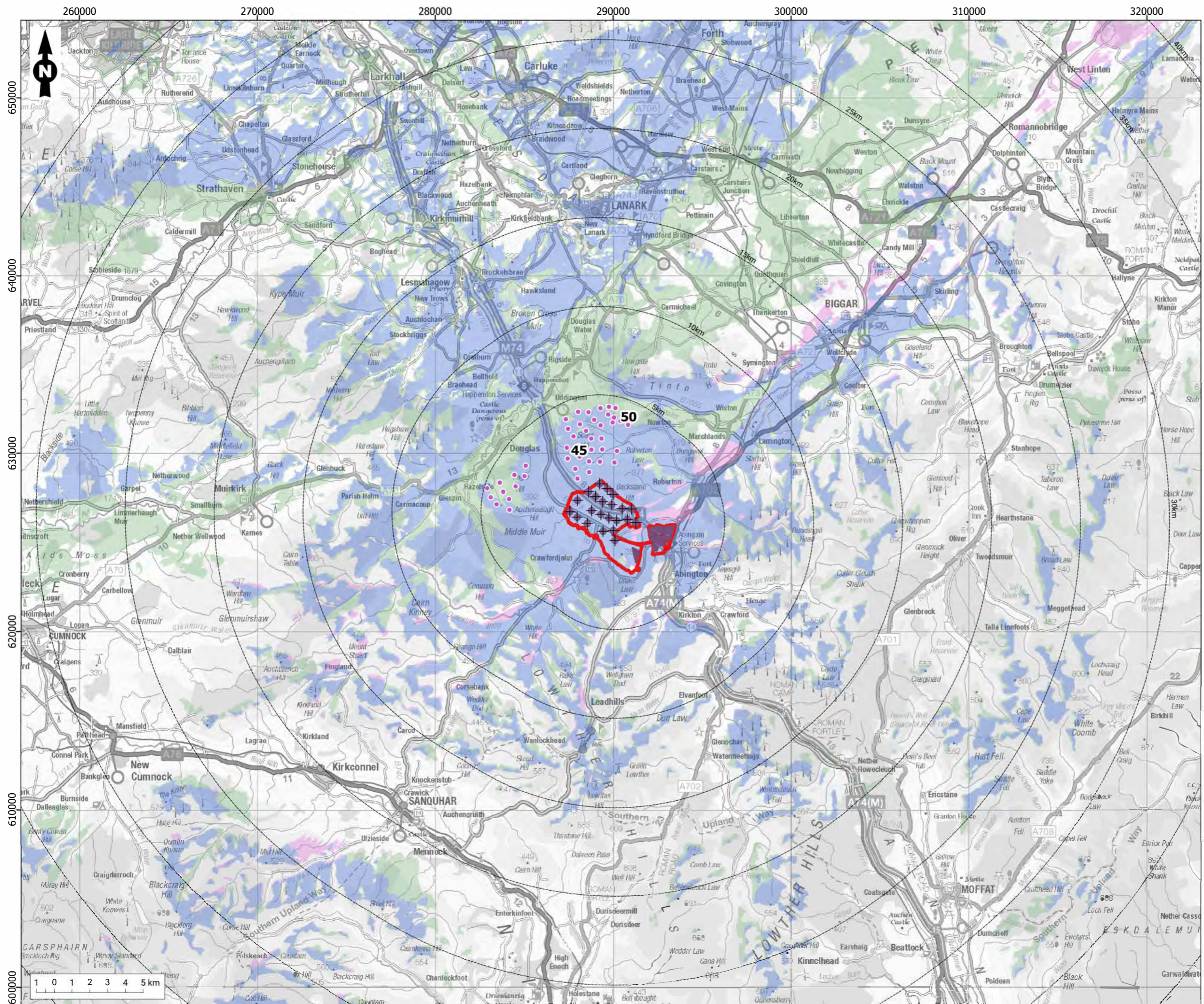
Figure Title
 Figure 4.11: Cumulative ZTV, Selected Consented Schemes & Proposed Development: Priestgill

Project Name
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.11
Date	30/07/2024	Prepared by	AS
Scale	Scale @ A3: 1:200,000	Issue	r0

Client
M74 West Ltd





Legend

- ◆ Turbine locations
- Distance from turbines (5km intervals)
- ▭ Site boundary
- ▭ Solar PV Area

Zone of Theoretical Visibility

- ▭ all wind farms visible
- ▭ M74 West visible only
- ▭ selected Application visible only

- Other wind farms, selected Application

No Windfarm

- 45 Bodinglee
- 50 Little Gala

Notes: The ZTVs are calculated to turbine tip heights for each wind farm from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.

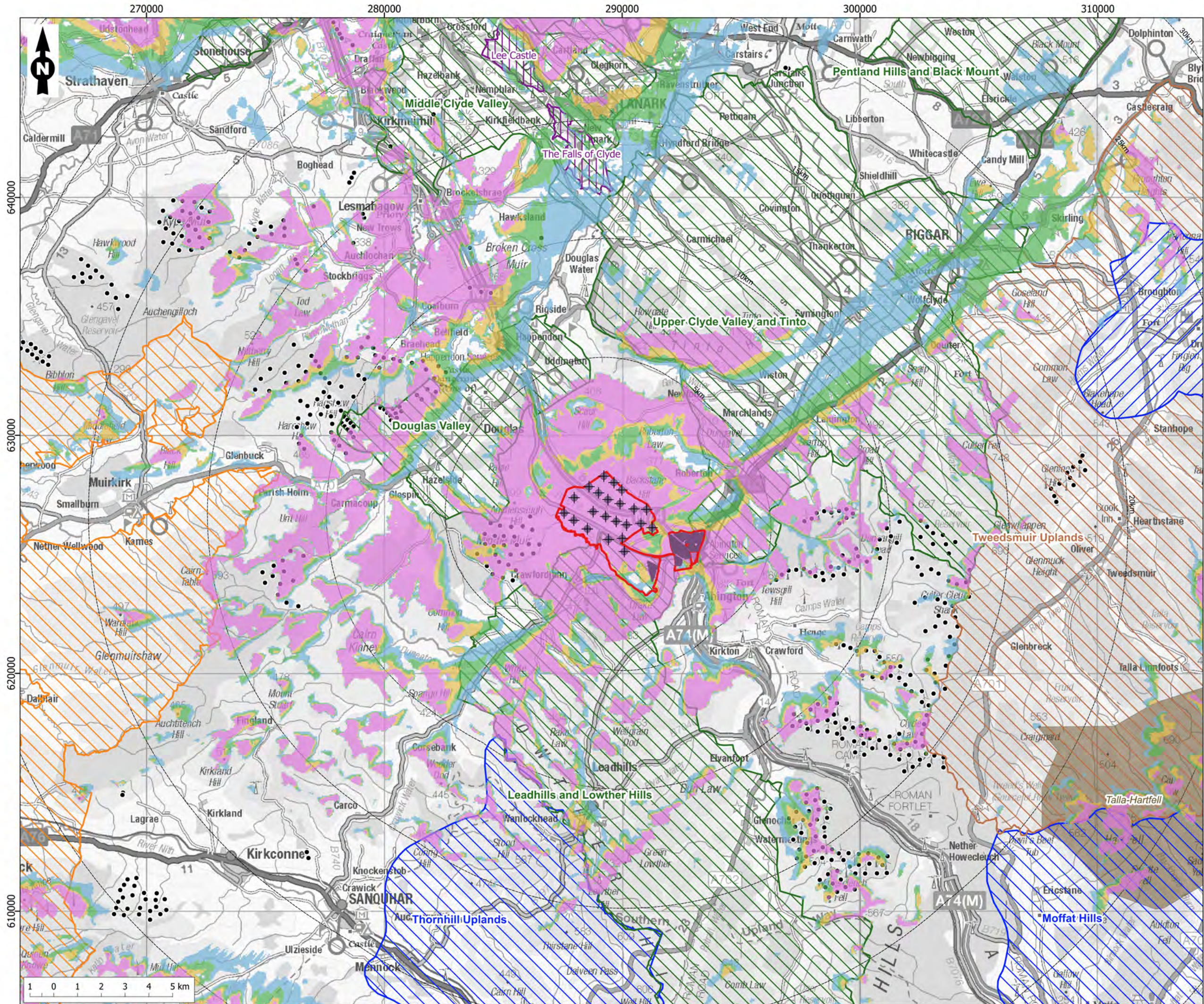


Figure Title
 Figure 4.12: Cumulative ZTV, Selected Application Schemes & Proposed Development: Bodinglee and Little Gala

Project Name
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.12
Date	30/07/2024	Prepared by	AS
Scale	Scale @ A3: 1:200,000	Issue	r0
Client	M74 West Ltd		





Legend

- ◆ Turbine locations
- Distance from turbines (5km intervals)
- ▭ Site boundary
- ▭ Solar PV Area
- ▭ Other wind farms
- existing

Zone of Theoretical Visibility

- 1-5 turbines visible
- 6-11 turbines visible
- 12-16 turbines visible
- 17-22 turbines visible

National Scenic Area

- ▨

Gardens & Designed

- ▨

Special Landscape Areas:

- ▨ South Lanarkshire
- ▨ Scottish Borders
- ▨ Dumfries & Galloway
- ▨ East Ayrshire
- ▨ Wild Land

Notes: The ZTV is calculated to turbine tip heights of up to 200m, from a height of 2m above ground level. The terrain model is bare ground derived from OS Terrain 50 height data. Earth curvature and atmospheric refraction have been taken into account.



Figure Title
Figure 4.13: Zone of Theoretical Visibility and Designated Landscapes

Project Name
M74 West Renewable Energy Park

Project Number	23014	Figure No.	4.13
Date	25/07/2024	Prepared by	AS
Scale	Scale @ A3: 1:150,000	Issue	r1

Client
M74 West Ltd

