

Taumatotara Windfarm

Graphic Supplement

Evidence, M W Moore

October 2023



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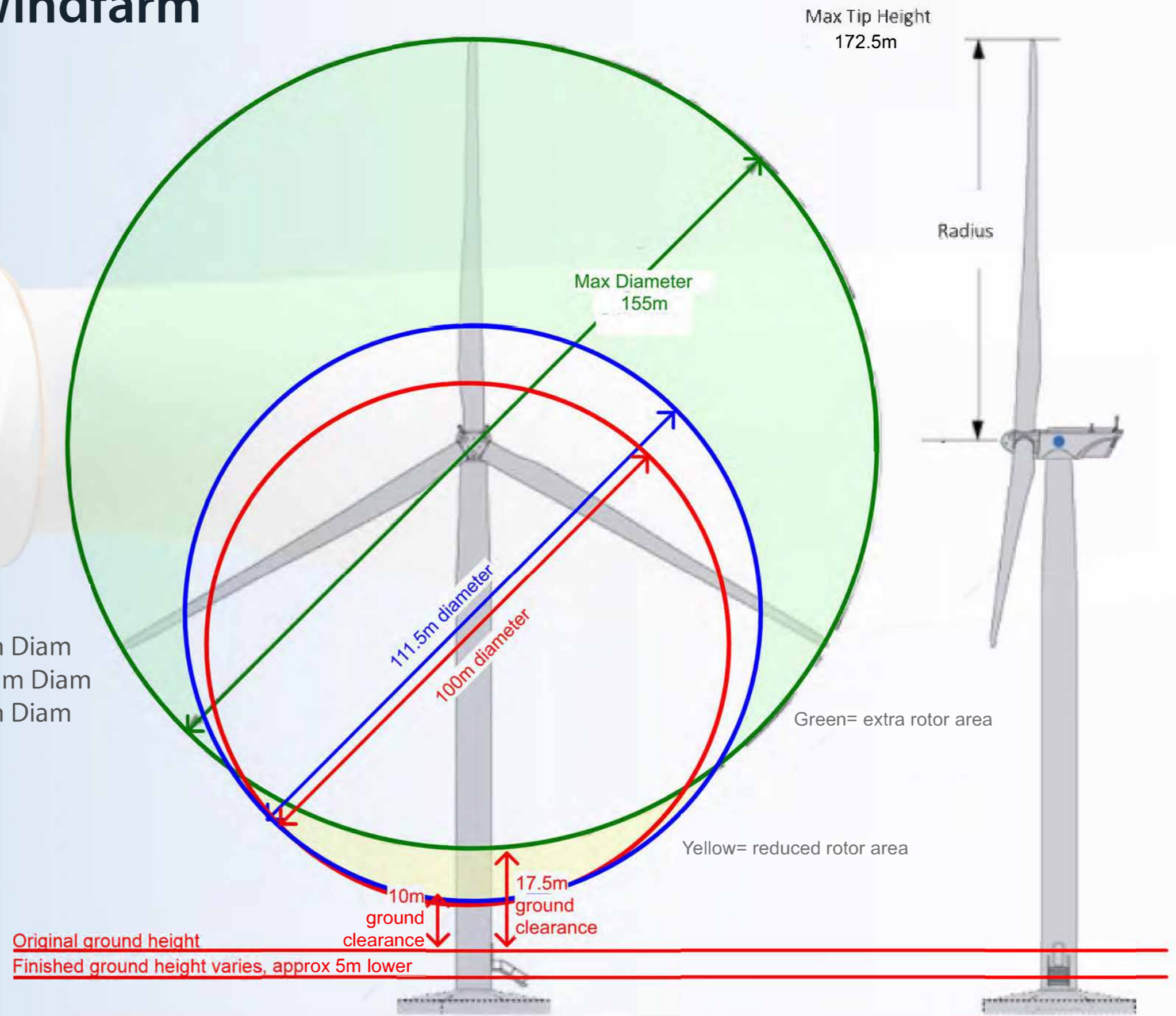
Taumatotara Windfarm

Turbine Specifications

Figure 1

Wind Turbine Diameter Changes

| | |
|---------------------------|-------------|
| Original - 2008 | 100m Diam |
| 2011 Consent modification | 111.5m Diam |
| Applied for 2020 | 155m Diam |



ZTV Map - 10km Radius

22 TURBINES OPTION

Northern 11 turbines - 65.75m Hub Height / 111.5m Rotor Diameter

Southern 11 turbines - 60m Hub Height / 100m Rotor Diameter

Figure 2A

ZTV Parameters

Grid Reference:

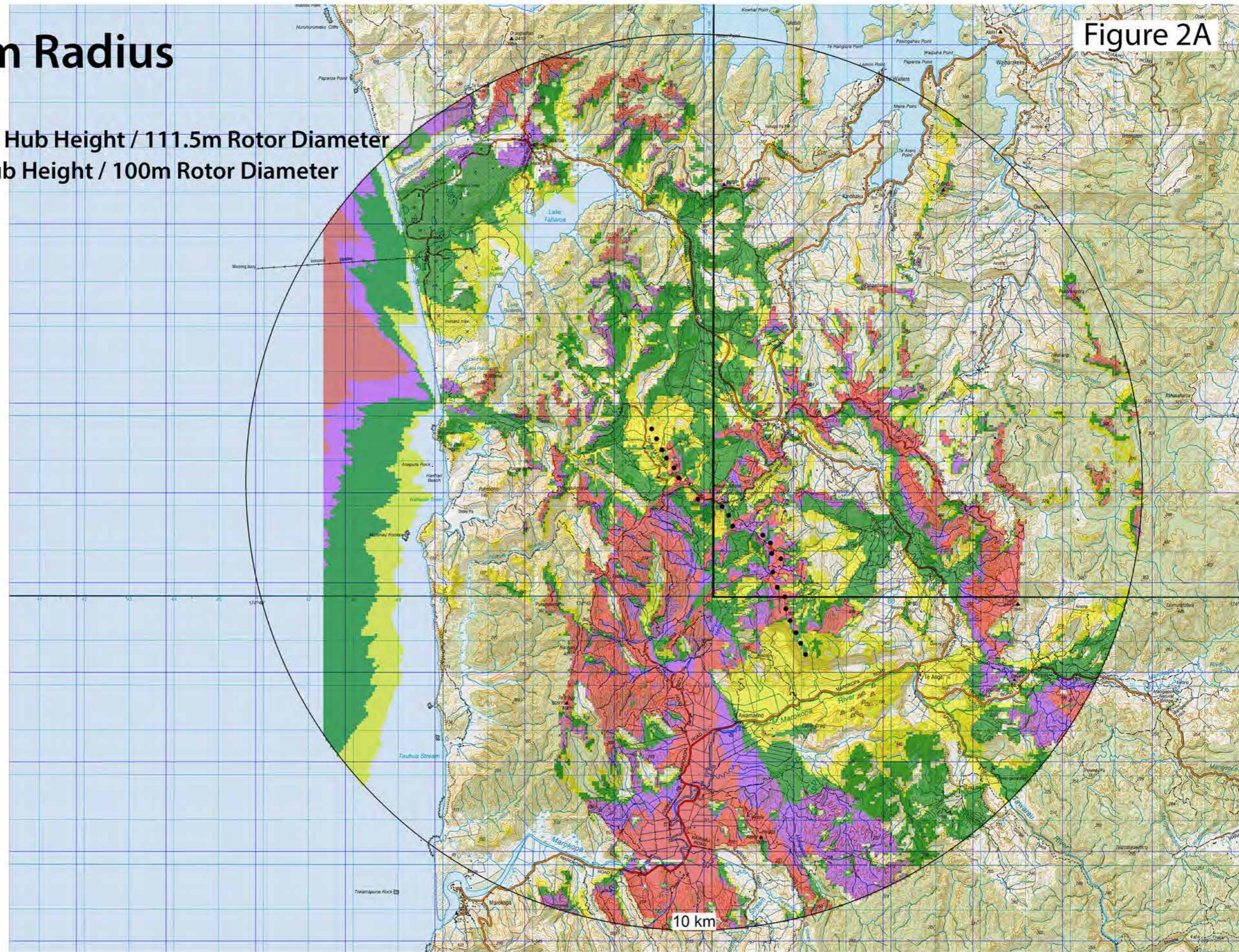
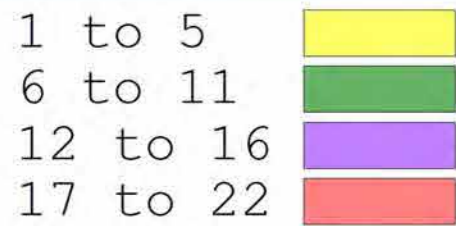
2665782 EAST

6330237 NORTH

ZTV Radius - 10km

ZTV Resolution - 50m

Turbines Visible - 22



Taumatotara Windfarm

Zone of Theoretical Visibility
Visibility Reference — Blade

Prepared By:

Energy3 Services Limited



For:

Taumatotara Windfarm Limited

ZTV Map - 10km Radius

22 TURBINES OPTION

Northern 11 turbines - 65.75m Hub Height / 111.5m Rotor Diameter

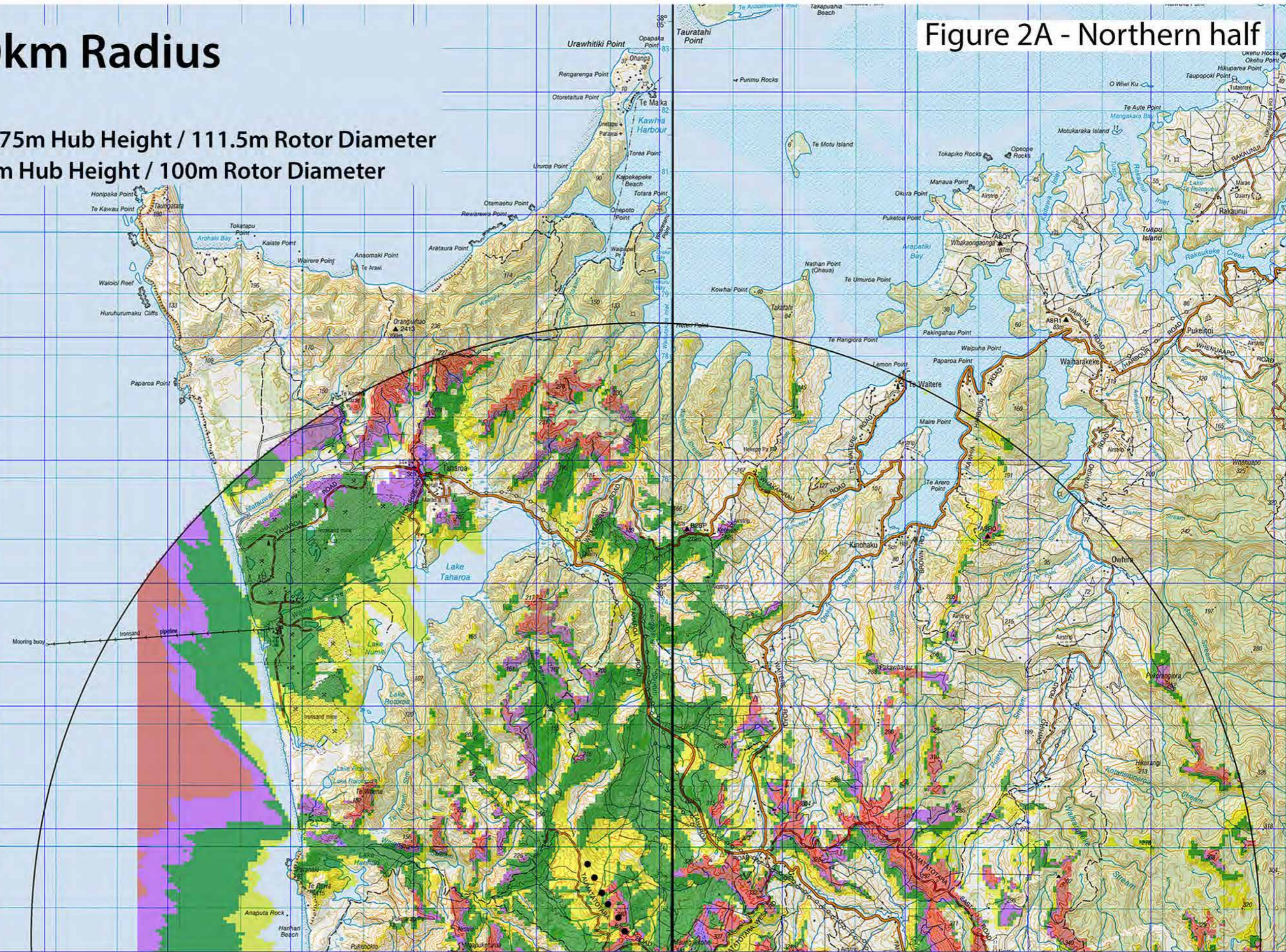
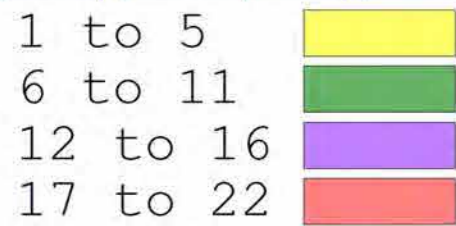
Southern 11 turbines - 60m Hub Height / 100m Rotor Diameter

Figure 2A - Northern half

ZTV Parameters

Grid Reference:
2665782 EAST
6330237 NORTH

ZTV Radius - 10km
ZTV Resolution - 50m
Turbines Visible - 22



Taumatotara Windfarm

Zone of Theoretical Visibility
Visibility Reference — Blade

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ZTV Map - 10km Radius

Figure 2A - Southern half

22 TURBINES OPTION





Northern 11 turbines - 65.75m Hub Height / 111.5m Rotor Diameter

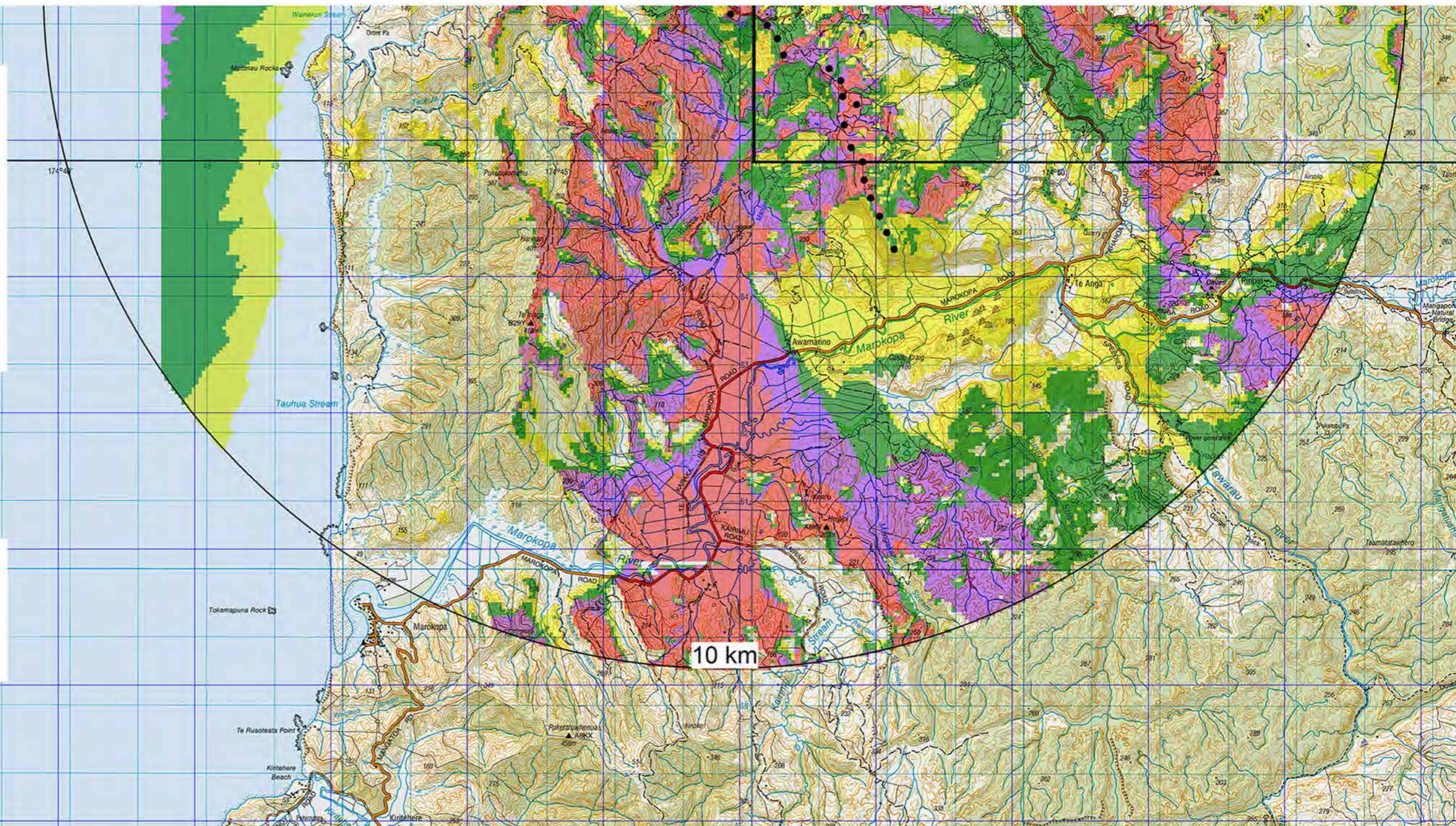
Southern 11 turbines - 60m Hub Height / 100m Rotor Diameter

ZTV Parameters

Grid Reference:
2665782 EAST
6330237 NORTH

ZTV Radius - 10km
ZTV Resolution - 50m
Turbines Visible - 22

| | |
|----------|---|
| 1 to 5 |  |
| 6 to 11 |  |
| 12 to 16 |  |
| 17 to 22 |  |



Taumatotara Windfarm

Zone of Theoretical Visibility
Visibility Reference — Blade

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ZTV Map - 10km Radius

11 TURBINES OPTION

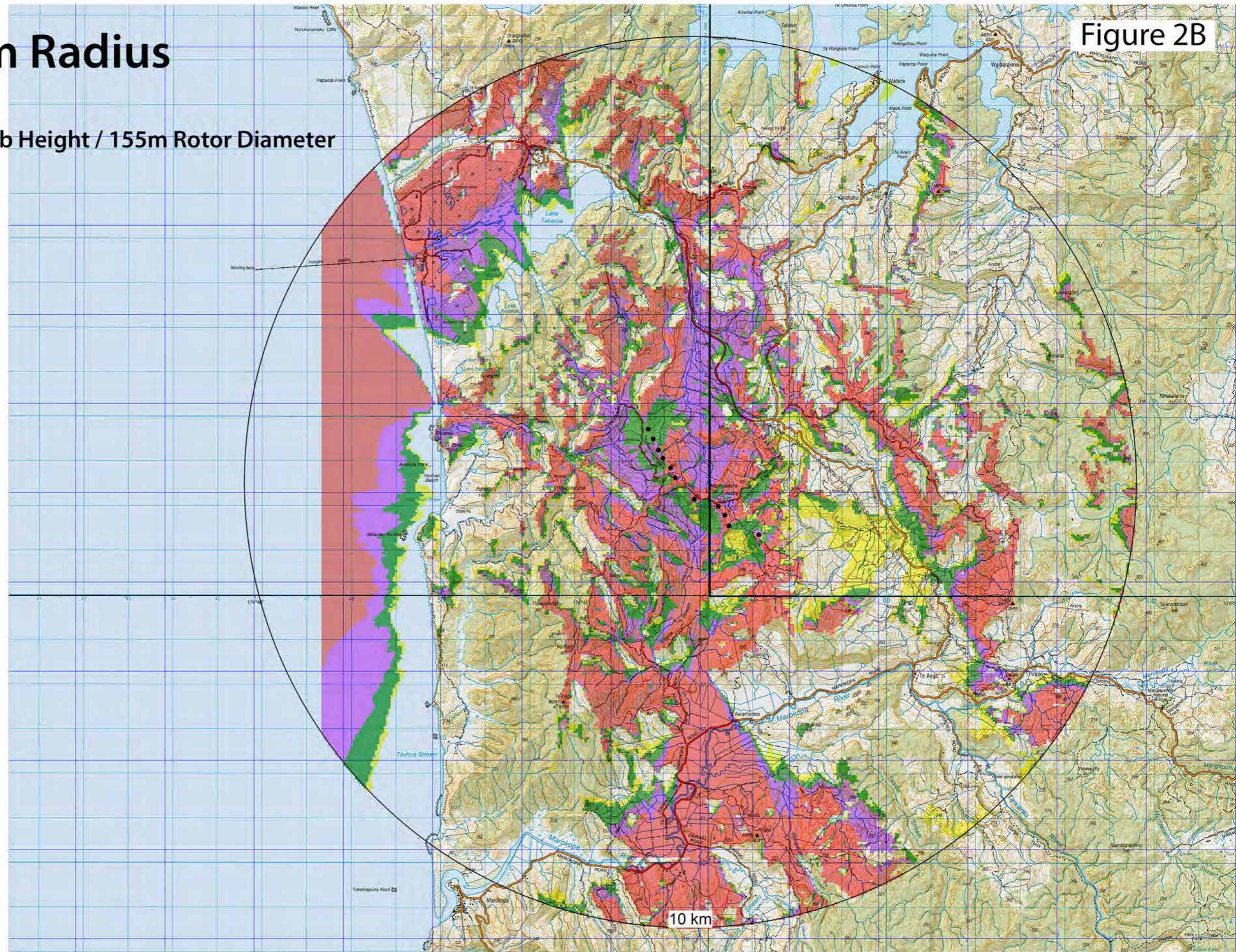
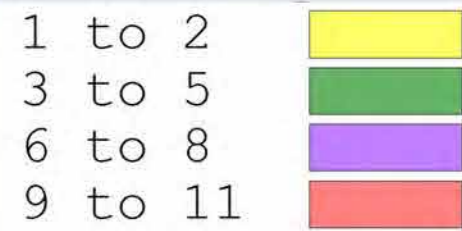
Northern 11 turbines - 95m Hub Height / 155m Rotor Diameter

Figure 2B

ZTV Parameters

Grid Reference:
2665782 EAST
6330237 NORTH

ZTV Radius - 10km
ZTV Resolution - 50m
Turbines Visible - 11



Taumatotara Windfarm

Zone of Theoretical Visibility
Visibility Reference — Blade

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ZTV Map - 10km Radius

11 TURBINES OPTION

Northern 11 turbines - 95m Hub Height / 155m Rotor Diameter

Figure 2B - Northern half

ZTV Parameters

Grid Reference:

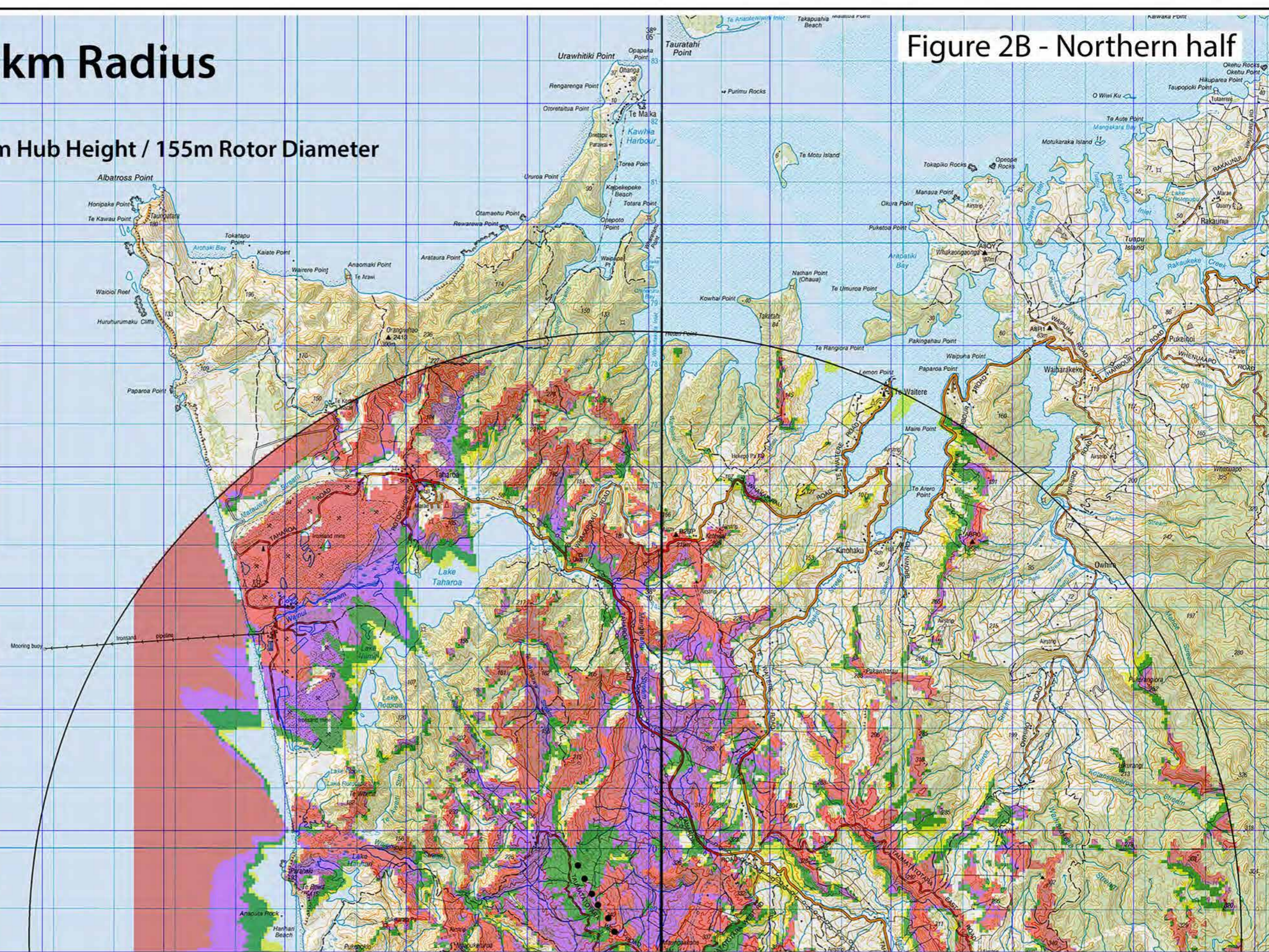
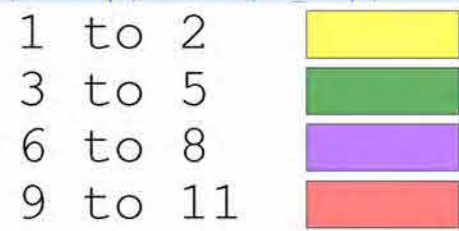
2665782 EAST

6330237 NORTH

ZTV Radius - 10km

ZTV Resolution - 50m

Turbines Visible - 11



Taumatotara Windfarm

Zone of Theoretical Visibility
Visibility Reference — Blade

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For:

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ZTV Map - 10km Radius

Figure 2B - Southern half

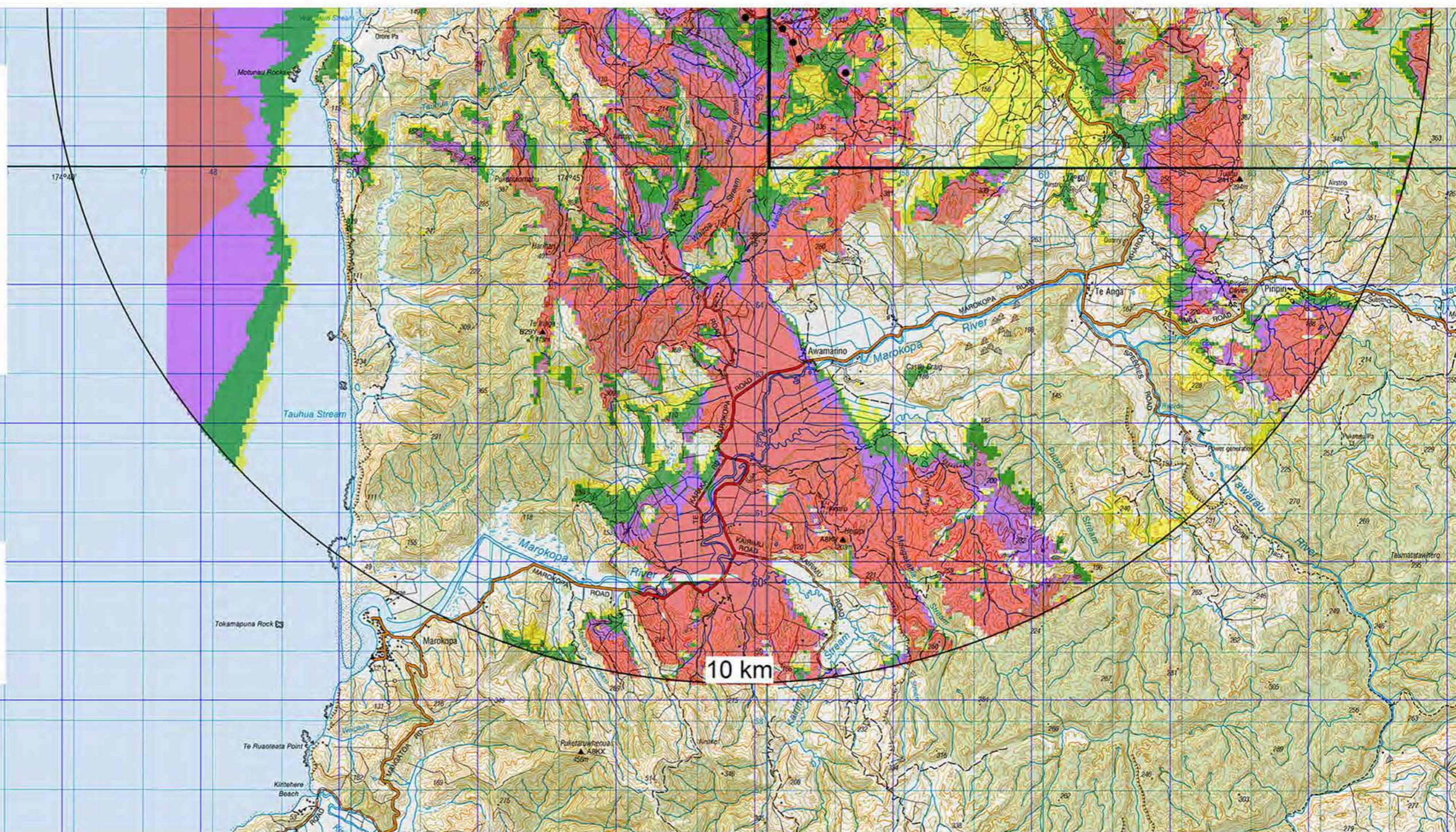
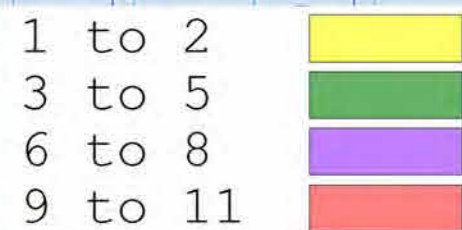
11 TURBINES OPTION

Northern 11 turbines - 95m Hub Height / 155m Rotor Diameter

ZTV Parameters

Grid Reference:
2665782 EAST
6330237 NORTH

ZTV Radius - 10km
ZTV Resolution - 50m
Turbines Visible - 11



Taumatotara Windfarm

Zone of Theoretical Visibility
Visibility Reference — Blade

Prepared By:

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For:

Taumatotara Windfarm Limited

ZTV Map - 10km Radius

8 TURBINES OPTION

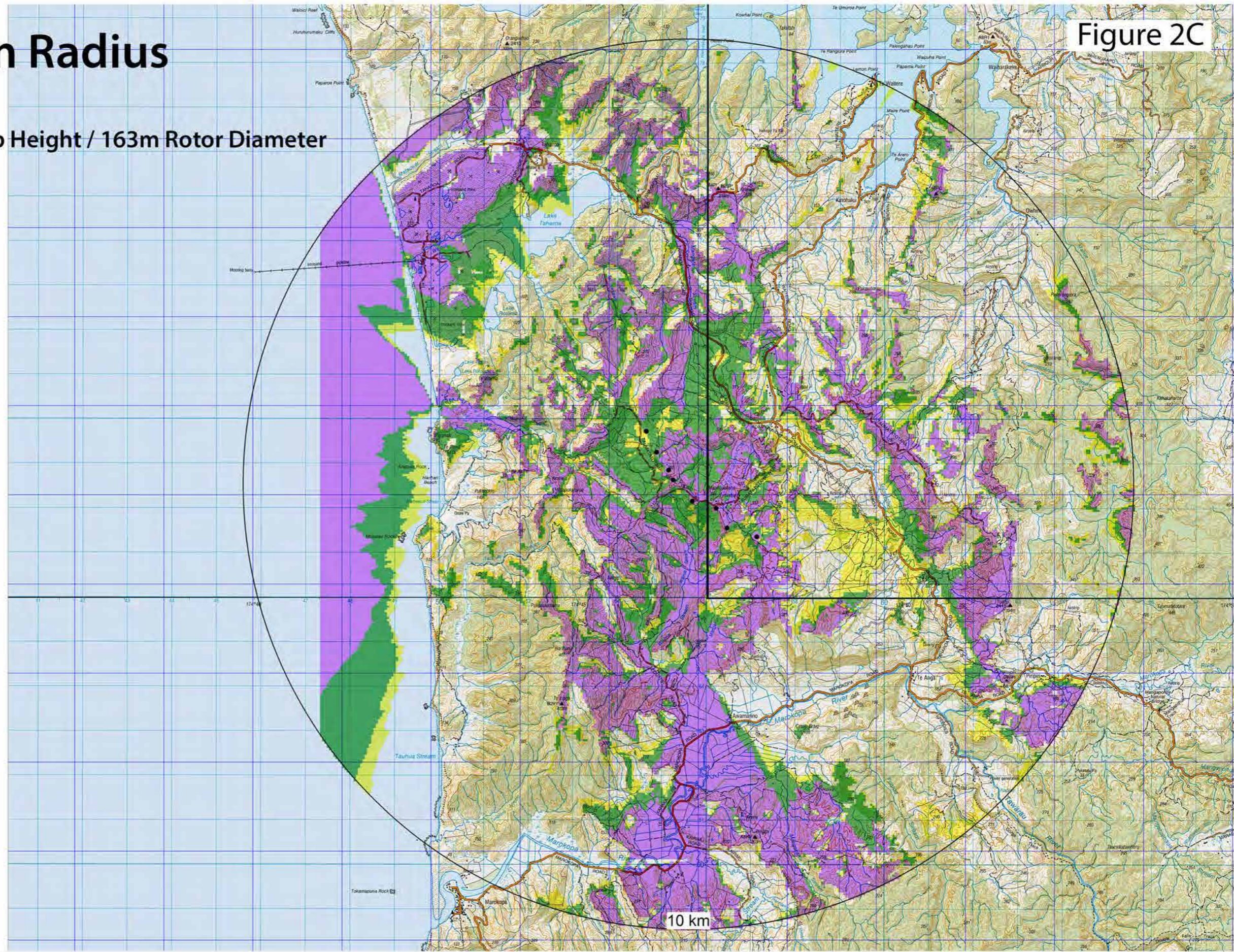
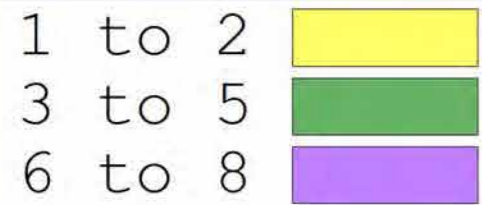
Northern 8 turbines - 99m Hub Height / 163m Rotor Diameter

Figure 2C

ZTV Parameters

Grid Reference:
2665782 EAST
6330237 NORTH

ZTV Radius - 10km
ZTV Resolution - 50m
Turbines Visible - 8



Taumatotara Windfarm

Zone of Theoretical Visibility
Visibility Reference — Blade

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ZTV Map - 10km Radius

8 TURBINES OPTION

Northern 8 turbines - 99m Hub Height / 163m Rotor Diameter

Figure 2C - Northern half

ZTV Parameters

Grid Reference:

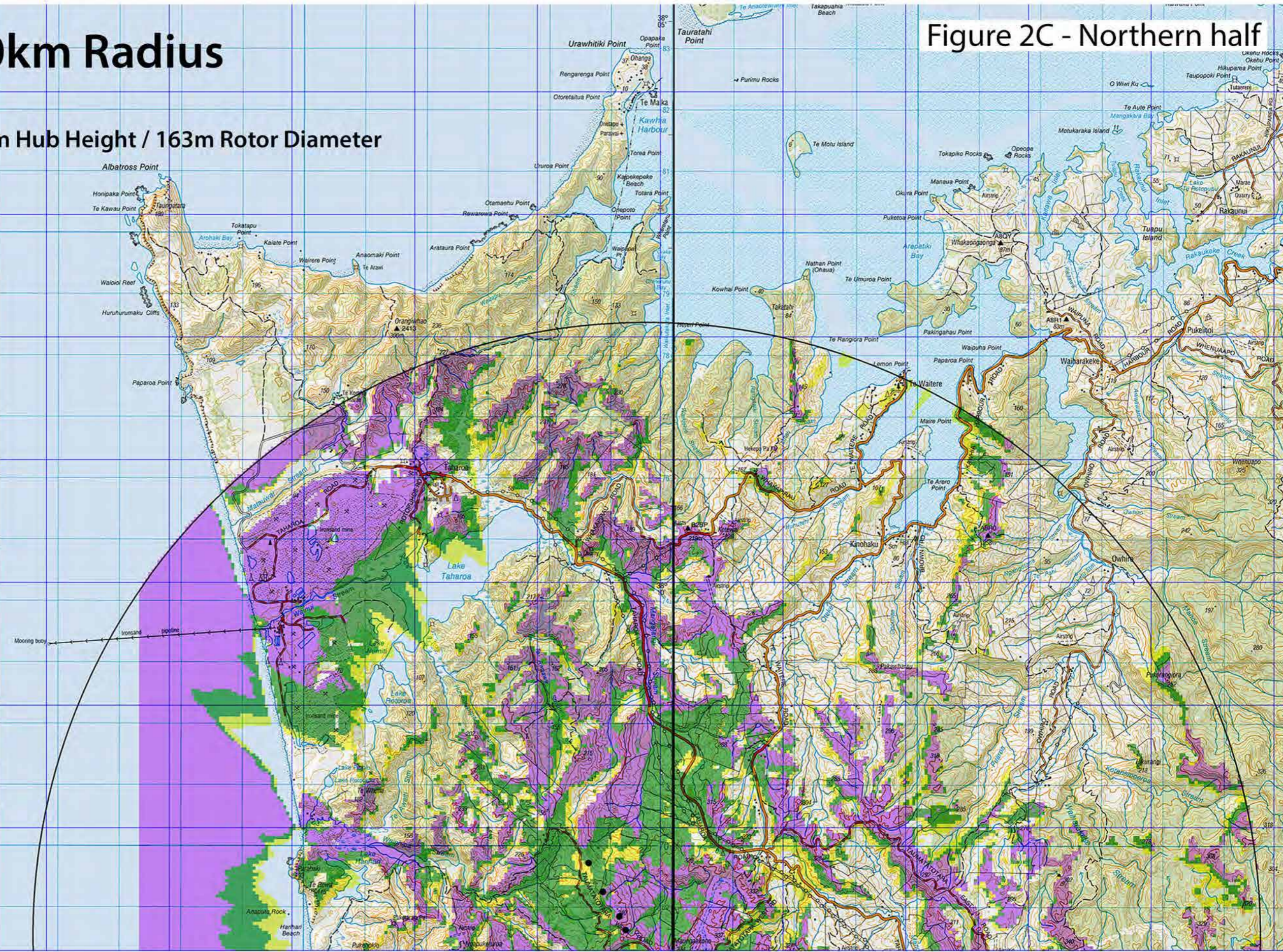
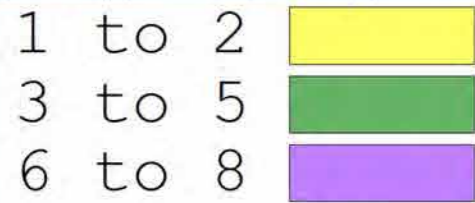
2665782 EAST

6330237 NORTH

ZTV Radius - 10km

ZTV Resolution - 50m

Turbines Visible - 8



Taumatotara Windfarm

Zone of Theoretical Visibility
Visibility Reference — Blade

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For:

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ZTV Map - 10km Radius

Figure 2C - Southern half

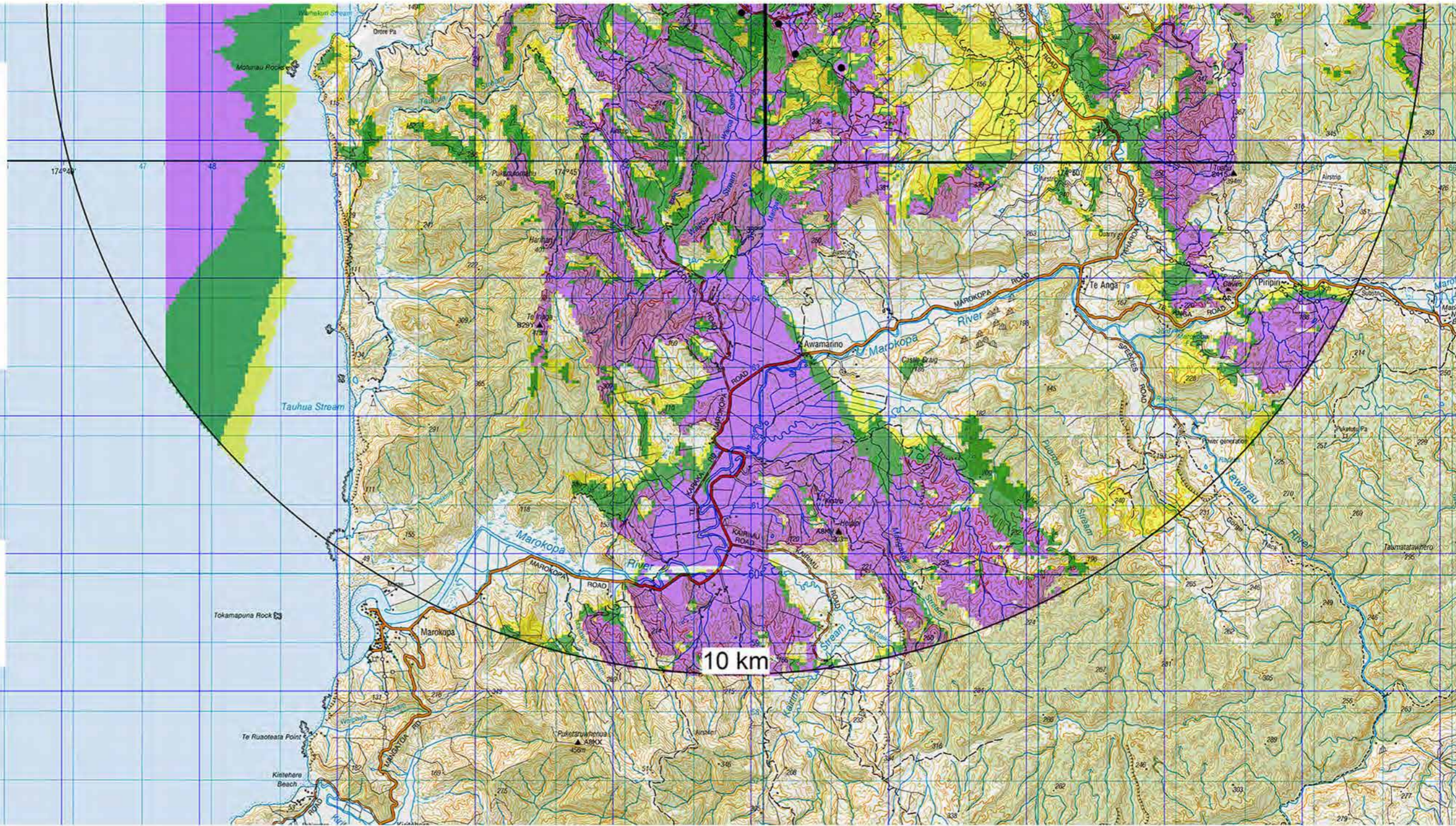
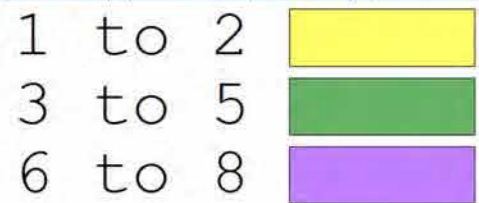
8 TURBINES OPTION

Northern 8 turbines - 99m Hub Height / 163m Rotor Diameter

ZTV Parameters

Grid Reference:
2665782 EAST
6330237 NORTH

ZTV Radius - 10km
ZTV Resolution - 50m
Turbines Visible - 8



Taumatotara Windfarm

Zone of Theoretical Visibility
Visibility Reference — Blade

Prepared By:

Energy3 Services Limited



For:

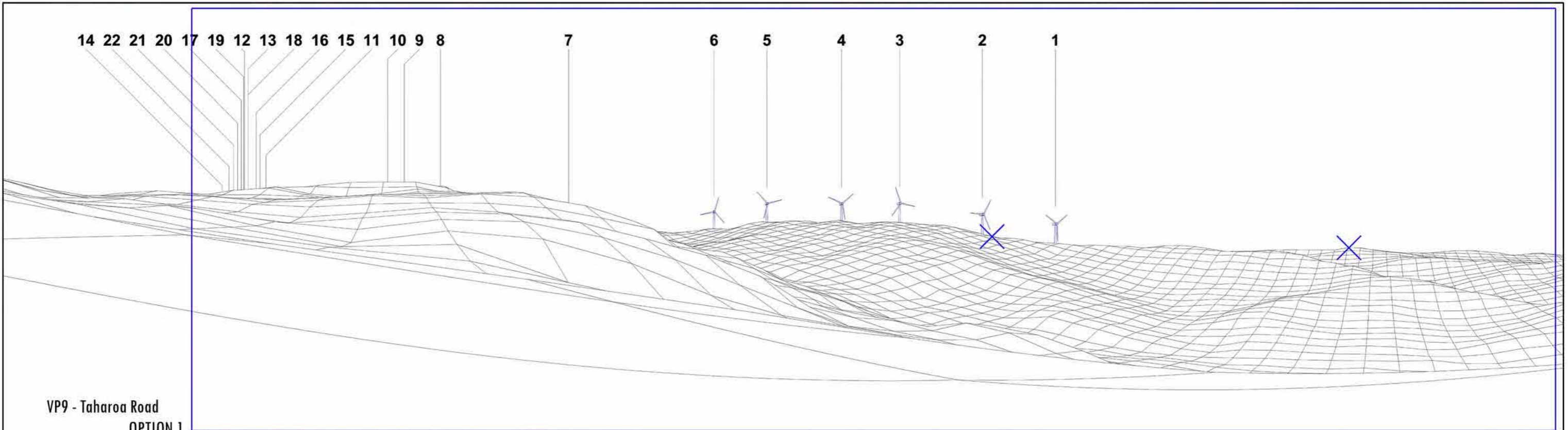
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Figure 3a

Recommended Viewing Distance 6.5cm when printed A3 Landscape (40cm image width)



Camera: Canon EOS 1000D, Image: Stitched photographs – focal length 50mm



VP9 - Taharoa Road
OPTION 1

Northern 11 turbines: 121.5m (tip height), 111.5m (rotor diam), 65.75m (hub height)
Southern 11 turbines: 110m (tip height), 100m (rotor diam), 60m (hub height)

Taumatototara Windfarm

Photomontages Sept 2023

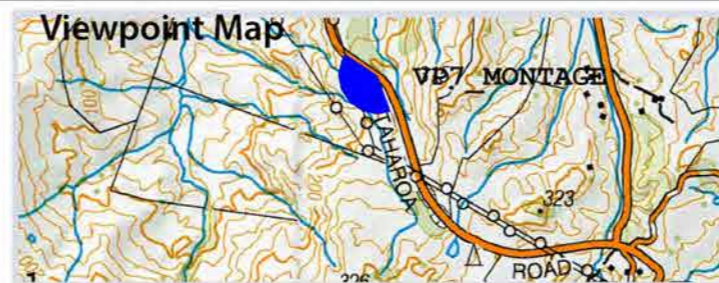
Viewpoint 9

Taharoa Road

(was called VP7 in previous years)

Photomontage details:

- | | |
|-------------------|------------------|
| N.Z.M.G Reference | - 2666575 East |
| | - 6332420 North |
| Nearest Turbine | - 2006m |
| Turbines Visible | - 6 (6 nacelles) |



Prepared By:

Energy3 Services Limited



For:

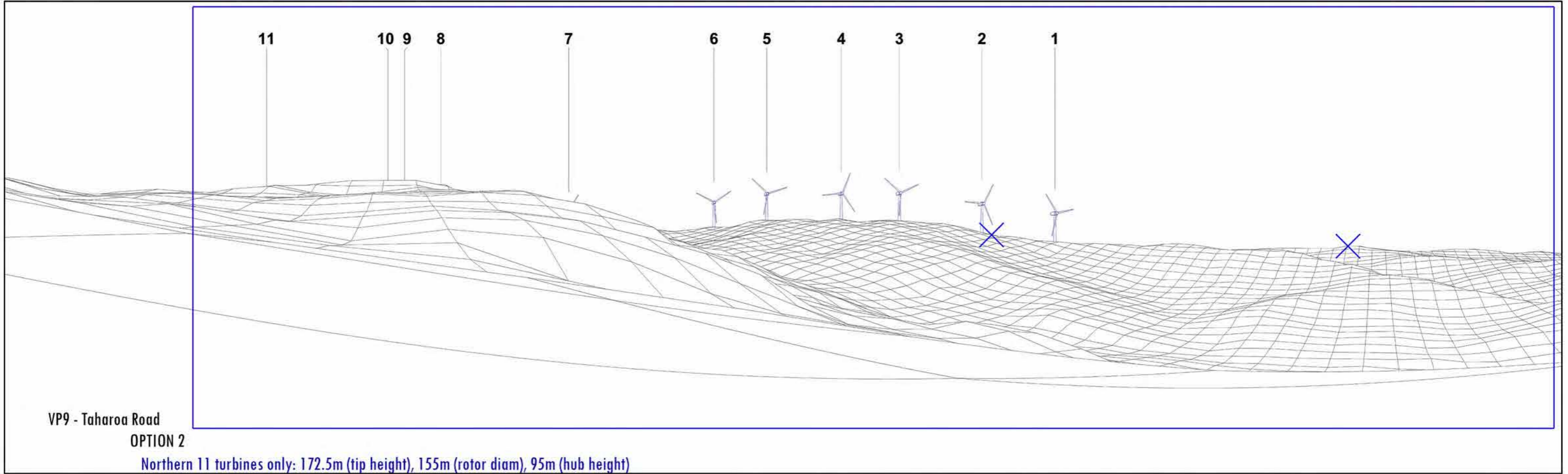
Taumatototara Windfarm Limited

Figure 3b

Recommended Viewing Distance 6.5cm when printed A3 Landscape (40cm image width)

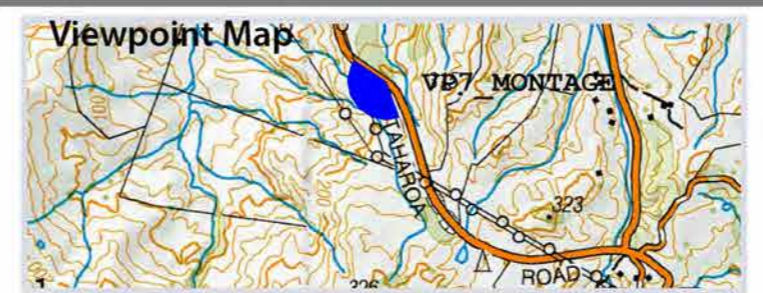


Camera: Canon EOS 1000D, Image: Stitched photographs – focal length 50mm



Taumatotara Windfarm
Photomontages Sept 2023
Viewpoint 9
Taharoa Road
(was called VP7 in previous years)

Photomontage details:
N.Z.M.G Reference - 2666575 East
- 6332420 North
Nearest Turbine - 2006m
Turbines Visible - 7 (6 nacelles)




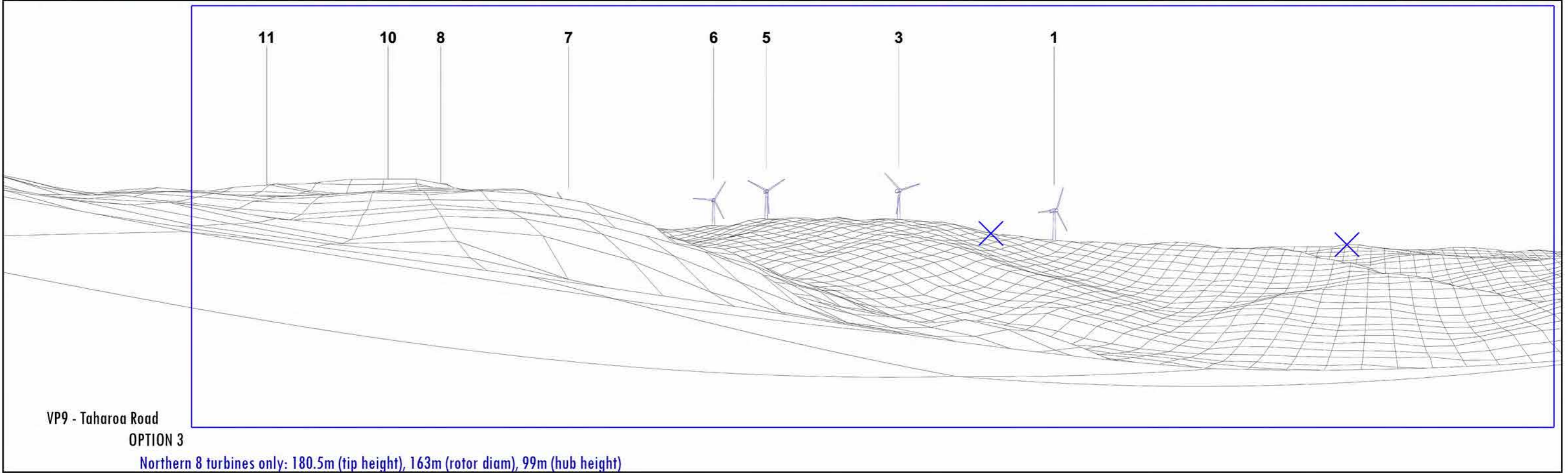
Prepared By:
Energy3 Services Limited 
For:
Taumatotara Windfarm Limited

Figure 3c

Recommended Viewing Distance 6.5cm when printed A3 Landscape (40cm image width)



Camera: Canon EOS 1000D, Image: Stitched photographs – focal length 50mm

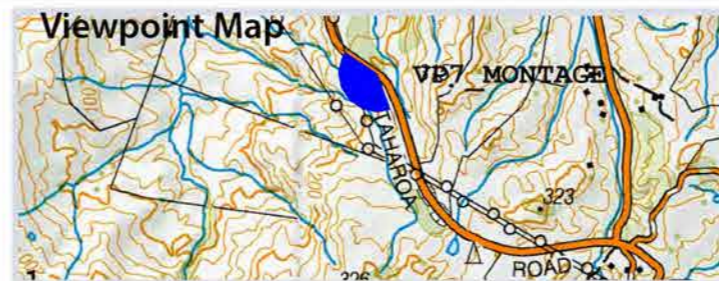


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Photomontages Sept 2023
Viewpoint 9
Taharoa Road
(was called VP7 in previous years)

Photomontage details:

- N.Z.M.G Reference - 2666575 East
- 6332420 North
- Nearest Turbine - 2006m
- Turbines Visible - 5 (4 nacelles)



Prepared By:

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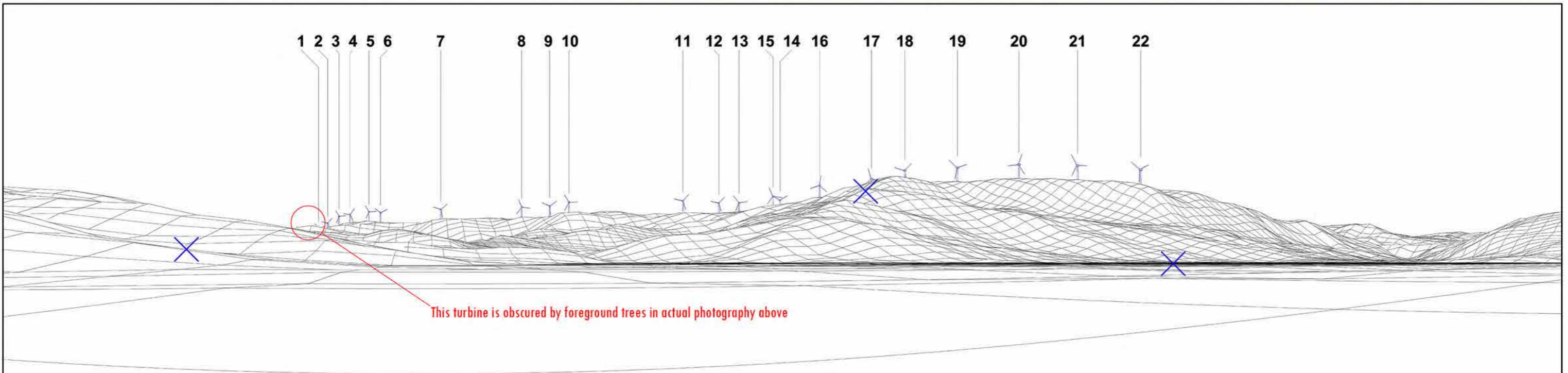


For:

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Figure 4a

Recommended Viewing Distance 13.9cm when printed A3 Landscape (40cm image width)



VP8 - Marakopa Road / Coutts Road corner

OPTION 1

Northern 11 turbines: 121.5m (tip height), 111.5m (rotor diam), 65.75m (hub height)

Southern 11 turbines: 110m (tip height), 100m (rotor diam), 60m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023

Viewpoint 8

Marakopa Road/Coutts Rd corner
(was called VP4 in previous years)

Photomontage details:

- N.Z.M.G Reference - 2665716 East
- 6324334 North
- Nearest Turbine - 4983m
- Turbines Visible - 22 (21 nacelles)



Prepared By:

Energy3 Services Limited

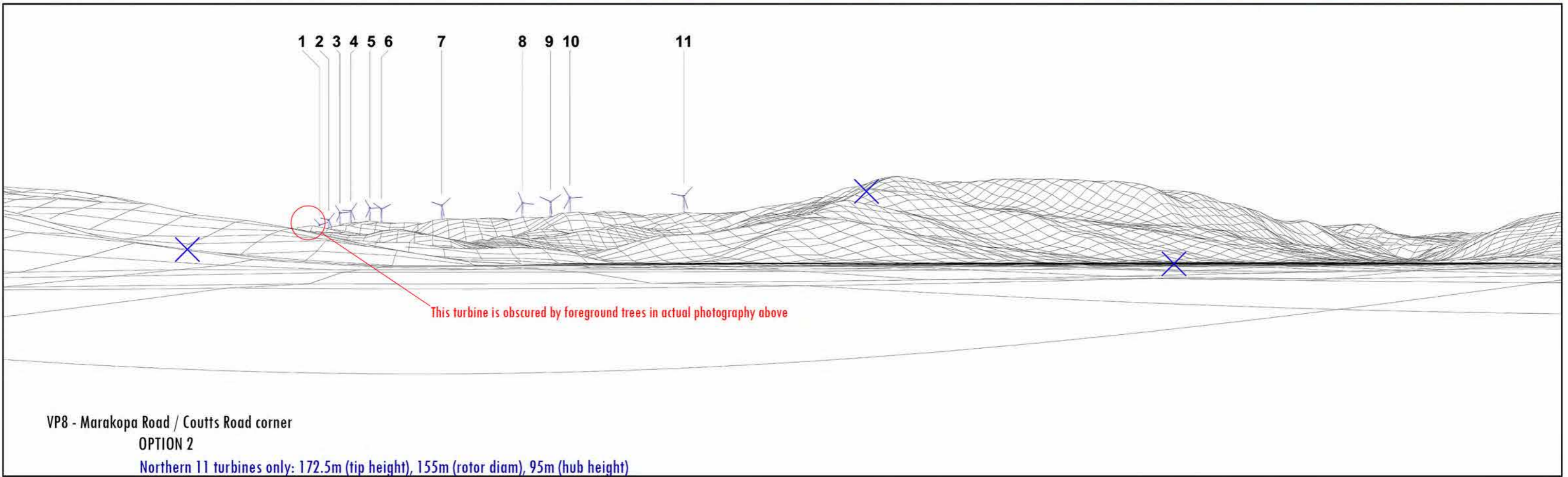


For:

Taumatotara Windfarm Limited

Figure 4b

Recommended Viewing Distance 13.9cm when printed A3 Landscape (40cm image width)




Taumatotara Windfarm
 Photomontages Sept 2023
 Viewpoint 8
 Marakopa Road/Coutts Rd corner
(was called VP4 in previous years)

Photomontage details:

| | | |
|-------------------|---|------------------|
| N.Z.M.G Reference | - | 2665716 East |
| | - | 6324334 North |
| Nearest Turbine | - | 4983m |
| Turbines Visible | - | 11 (11 nacelles) |



Prepared By:
 Energy3 Services Limited 

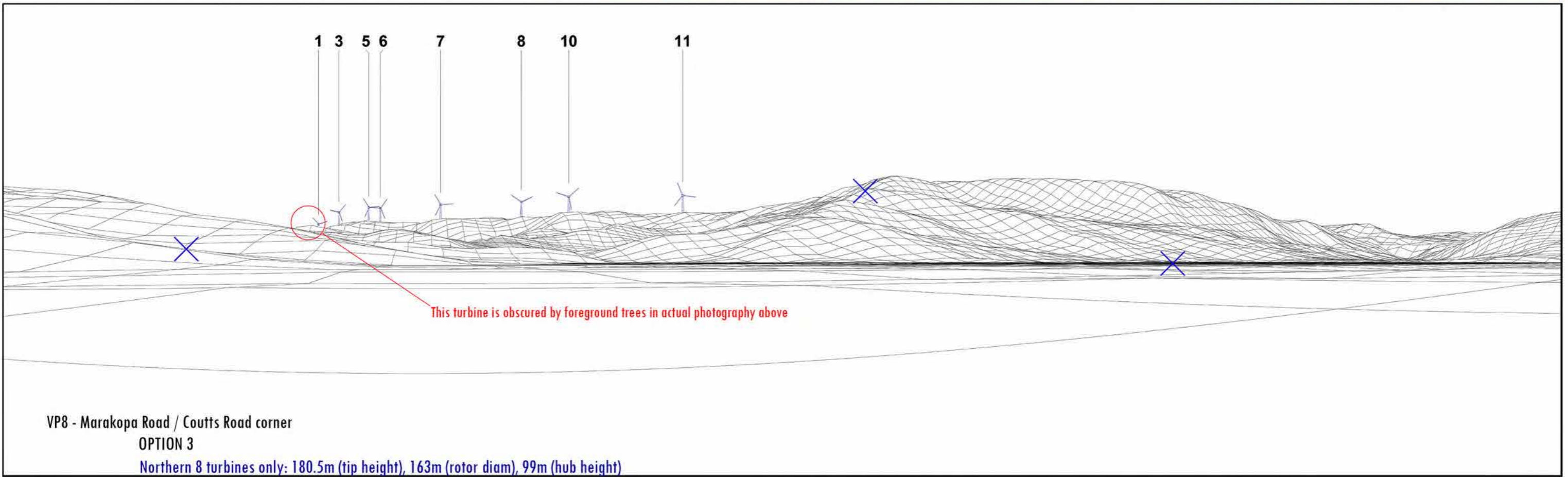
For:
 Taumatotara Windfarm Limited

Figure 4c

Recommended Viewing Distance 13.9cm when printed A3 Landscape (40cm image width)



Camera: Canon EOS 1000D, Image: Stitched photographs – focal length 50mm




Taumatotara Windfarm
 Photomontages Sept 2023
 Viewpoint 8
 Marakopa Road/Coutts Rd corner
(was called VP4 in previous years)

Photomontage details:

| | | |
|-------------------|---|----------------|
| N.Z.M.G Reference | - | 2665716 East |
| | - | 6324334 North |
| Nearest Turbine | - | 4983m |
| Turbines Visible | - | 8 (8 nacelles) |

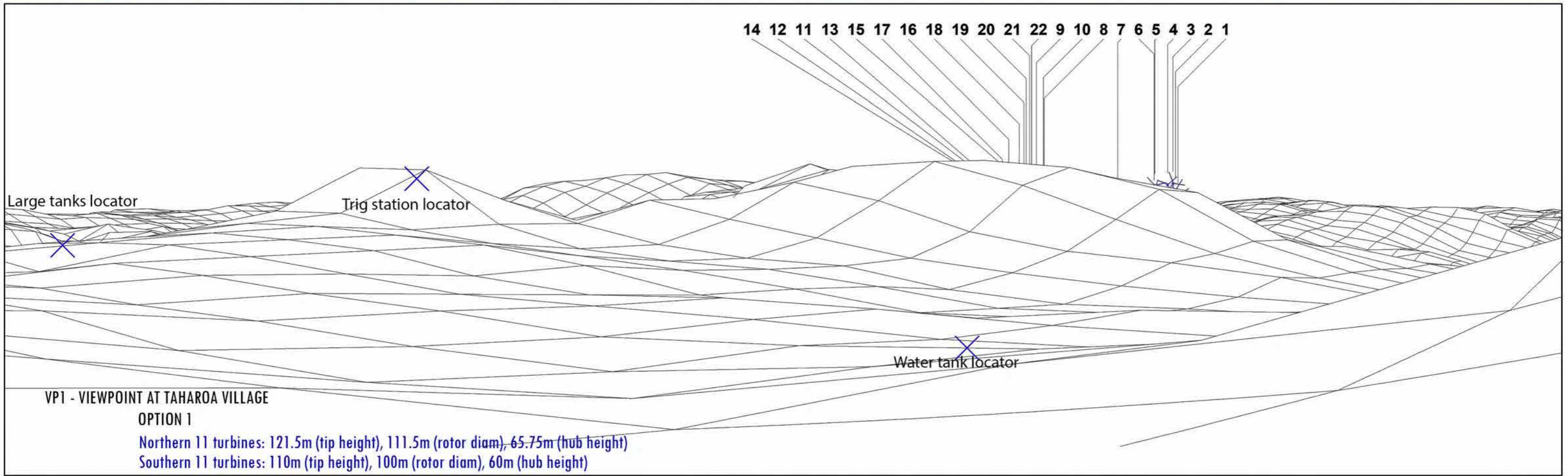


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Figure 5a

Camera: Canon EOS 1000D
 Image: Stitched photographs – focal length 50mm




Taumatotara Windfarm
 Photomontages Sept 2023
 Viewpoint 1
 Taharoa Village

Photomontage details:

| | | |
|-------------------|---|-------------------|
| N.Z.M.G Reference | - | 2662071.612 East |
| | - | 6337841.279 North |
| Nearest Turbine | - | 6983m |
| Turbines Visible | - | 20 (16 nacelles) |

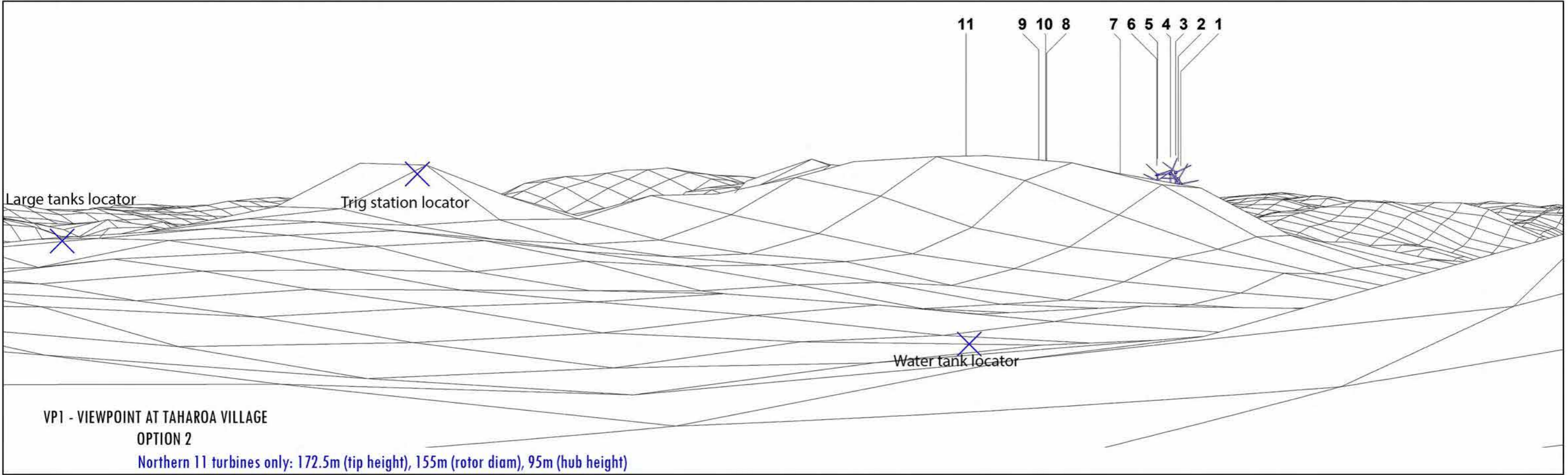


Prepared By:
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For:
 Taumatotara Windfarm Limited

Figure 5b

Camera: Canon EOS 1000D
Image: Stitched photographs – focal length 50mm



Taumatotara Windfarm

Photomontages Sept 2023
Viewpoint 1
Taharoa Village

Photomontage details:

- N.Z.M.G Reference - 2662071.612 East
- 6337841.279 North
- Nearest Turbine - 6983m
- Turbines Visible - 11 (11 nacelles)



Prepared By:

Energy3 Services Limited

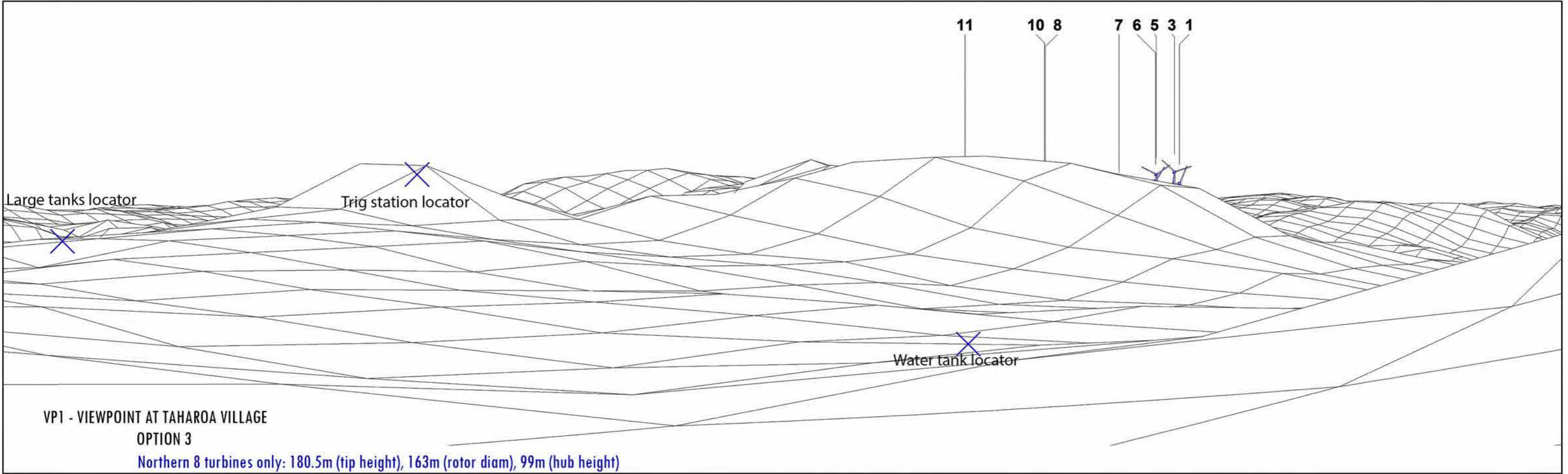


For:

Taumatotara Windfarm Limited

Figure 5c

Camera: Canon EOS 1000D
 Image: Stitched photographs – focal length 50mm



Taumatotara Windfarm
 Photomontages Sept 2023
 Viewpoint 1
 Taharoa Village

Photomontage details:
 N.Z.M.G Reference - 2662071.612 East
 - 6337841.279 North
 Nearest Turbine - 6983m
 Turbines Visible - 8 (8 nacelles)




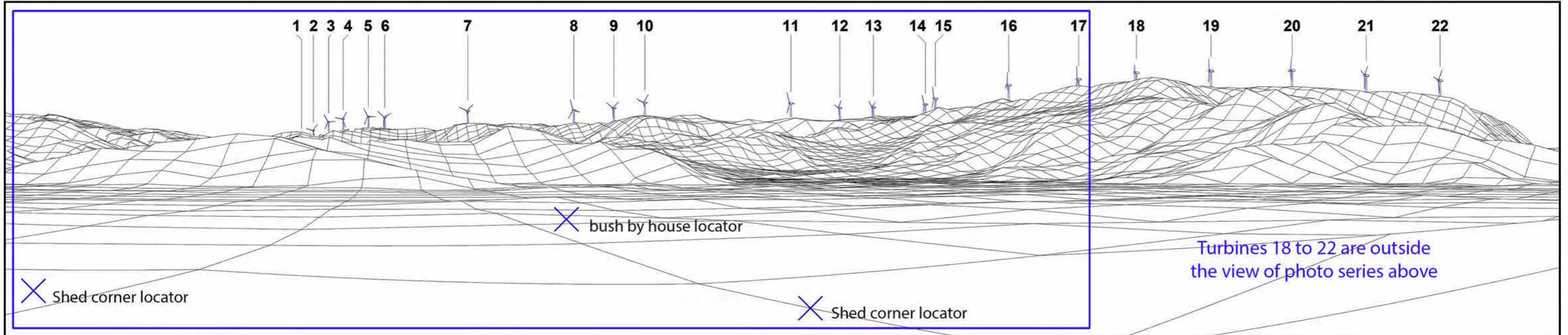
Prepared By:
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For:
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Figure 6a

Camera: Canon EOS 1000D
 Image: Stitched photographs – focal length 50mm



VP2 - COUTTS ROAD, VIEWPOINT1
 OPTION 1

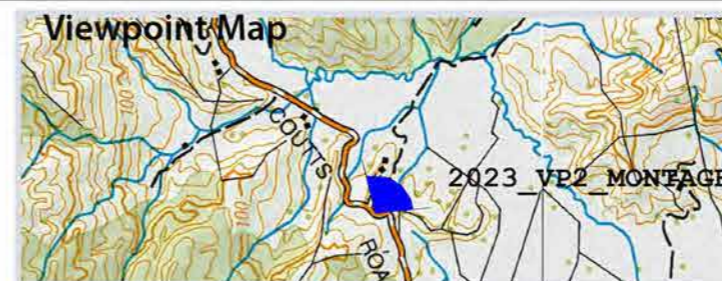
Northern 11 turbines: 121.5m (tip height), 111.5m (rotor diam), 65.75m (hub height)
 Southern 11 turbines: 110m (tip height), 100m (rotor diam), 60m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
 Viewpoint 2
 Coutts Rd View 1

Photomontage details:

- N.Z.M.G Reference - 2665418.240 East
- 6325622.913 North
- Nearest Turbine - 2917m
- Turbines Visible - 22 (21 nacelles)



Prepared By:

Energy3 Services Limited

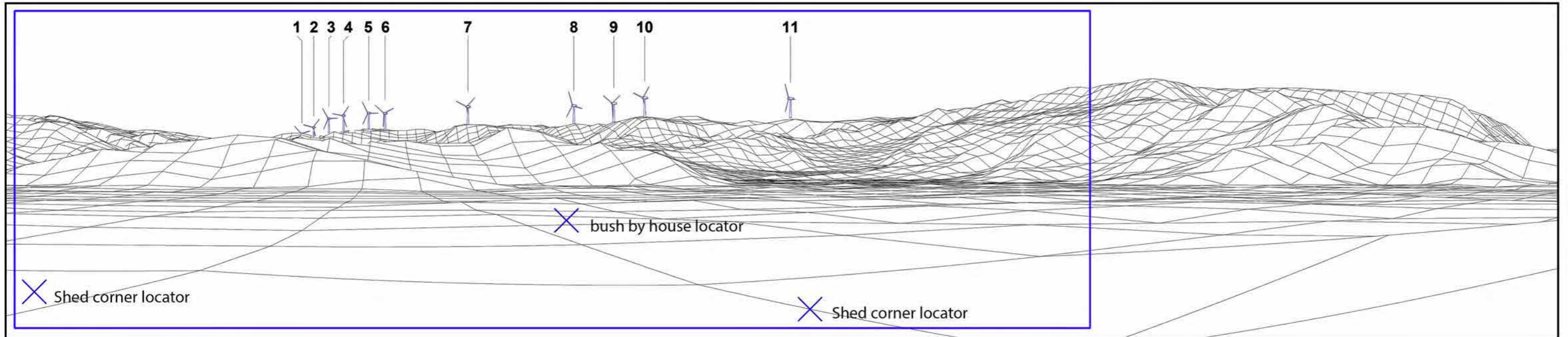


For:

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Figure 6b

Camera: Canon EOS 1000D
 Image: Stitched photographs – focal length 50mm



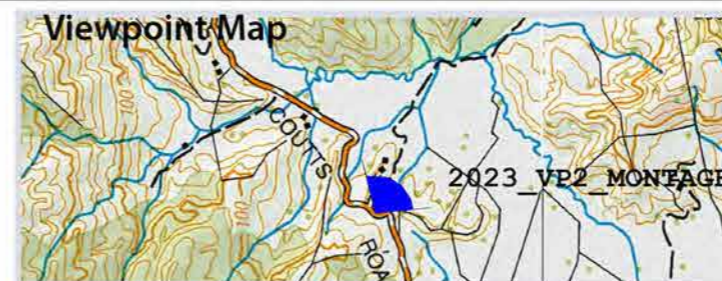
VP2 - COUTTS ROAD, VIEWPOINT1
 OPTION 2
 Northern 11 turbines only: 172.5m (tip height), 155m (rotor diam), 95m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
 Viewpoint 2
 Coutts Rd View 1

Photomontage details:

| | | |
|-------------------|---|-------------------|
| N.Z.M.G Reference | - | 2665418.240 East |
| | - | 6325622.913 North |
| Nearest Turbine | - | 2917m |
| Turbines Visible | - | 11 (10 nacelles) |



Prepared By:

Energy3 Services Limited

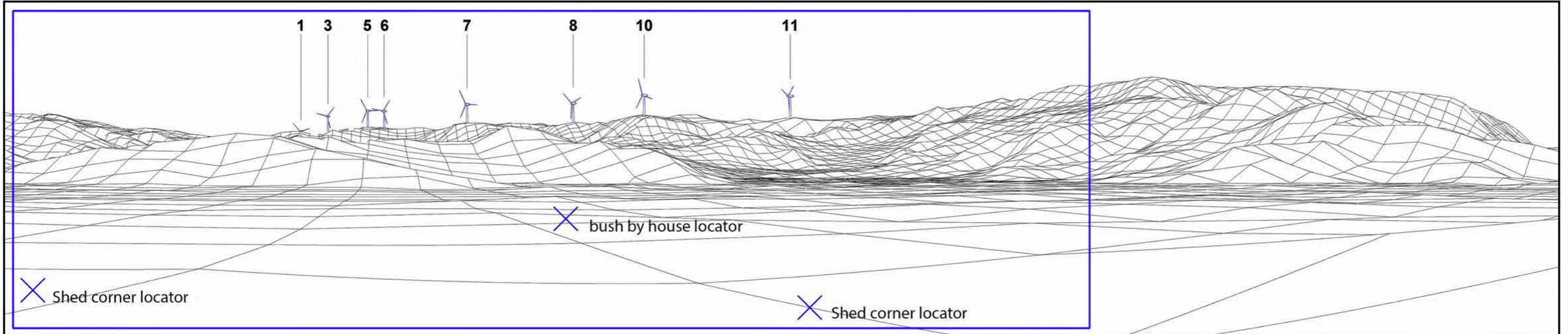


For:

Taumatotara Windfarm Limited

Figure 6c

Camera: Canon EOS 1000D
 Image: Stitched photographs – focal length 50mm



VP2 - COUTTS ROAD, VIEWPOINT1
 OPTION 3

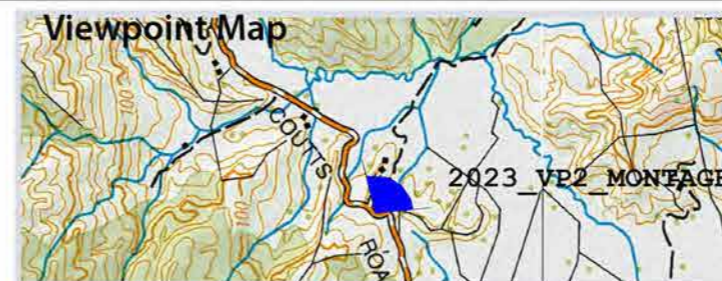
Northern 8 turbines only: 180.5m (tip height), 163m (rotor diam), 99m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
 Viewpoint 2
 Coutts Rd View 1

Photomontage details:

- N.Z.M.G Reference - 2665418.240 East
- 6325622.913 North
- Nearest Turbine - 3837m
- Turbines Visible - 8 (8 nacelles)



Prepared By:

Energy3 Services Limited

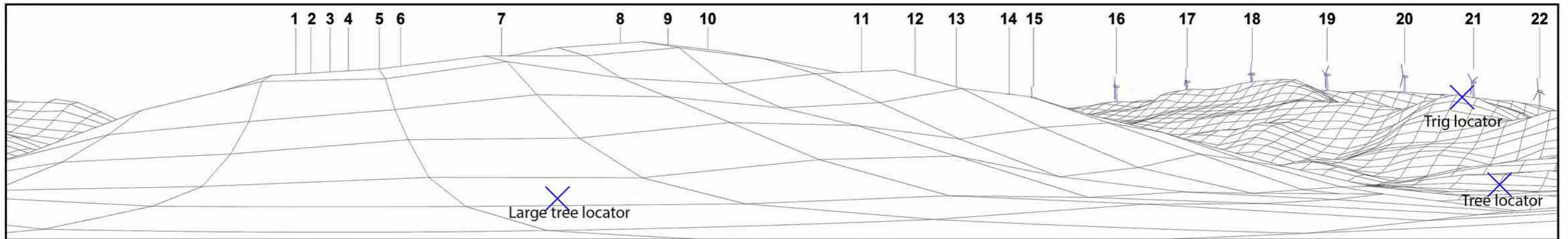


For:

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Figure 7a

Camera: Canon EOS 1000D
 Image: Stitched photographs – focal length 50mm



VP3 - COUTTS ROAD, VIEWPOINT 2
 OPTION 1

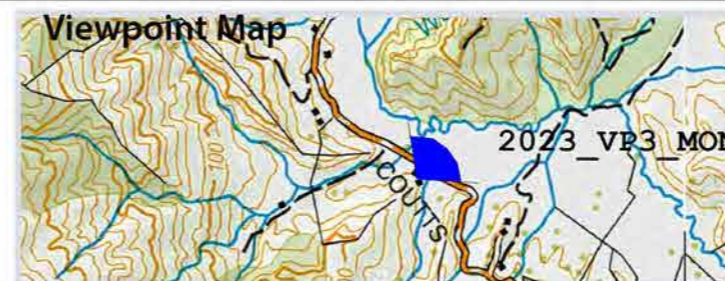
Northern 11 turbines: 121.5m (tip height), 111.5m (rotor diam), 65.75m (hub height)
 Southern 11 turbines: 110m (tip height), 100m (rotor diam), 60m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
 Viewpoint 3
 Coutts Rd View 2

Photomontage details:

N.Z.M.G Reference - 2665100.716 East
 - 6326035.358 North
 Nearest Turbine - 3034m
 Turbines Visible - 9 (7 nacelles)



Prepared By:

Energy3 Services Limited

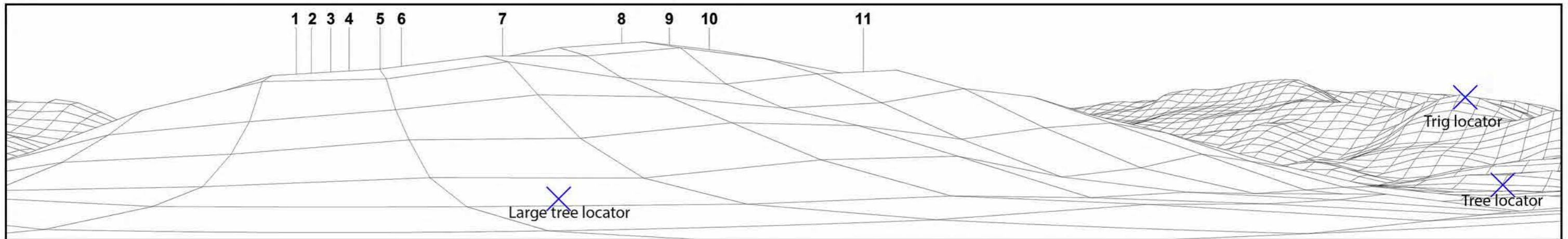


For:

Taumatotara Windfarm Limited

Figure 7b

Camera: Canon EOS 1000D
Image: Stitched photographs – focal length 50mm



VP3 - COUTTS ROAD, VIEWPOINT2
OPTION 2

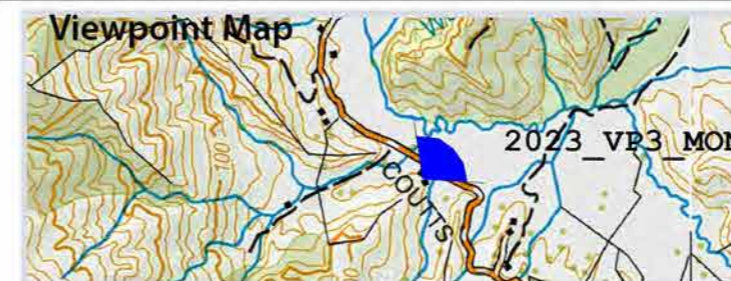
Northern 11 turbines only: 172.5m (tip height), 155m (rotor diam), 95m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
Viewpoint 3
Coutts Rd View 2

Photomontage details:

| | | |
|-------------------|---|-------------------|
| N.Z.M.G Reference | - | 2665100.716 East |
| | - | 6326035.358 North |
| Nearest Turbine | - | 3572m |
| Turbines Visible | - | 0 |



Prepared By:

Energy3 Services Limited

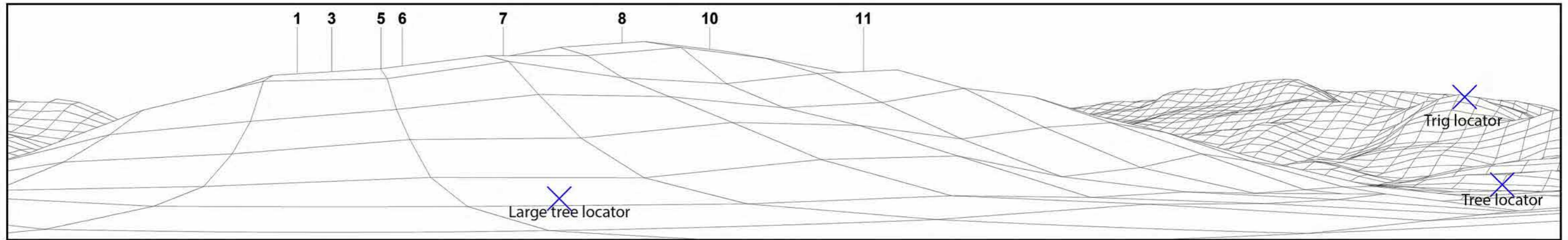


For:

Taumatotara Windfarm Limited

Figure 7c

Camera: Canon EOS 1000D
Image: Stitched photographs – focal length 50mm



VP3 - COUTTS ROAD, VIEWPOINT2
OPTION 3

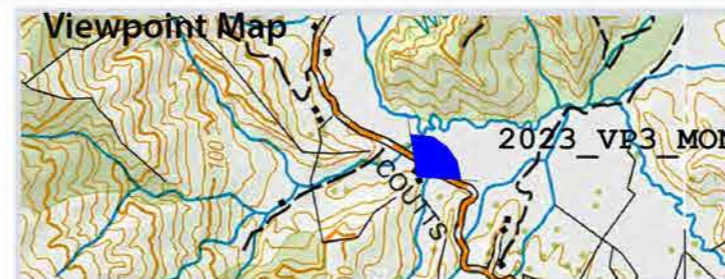
Northern 8 turbines only: 180.5m (tip height), 163m (rotor diam), 99m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
Viewpoint 3
Coutts Rd View 2

Photomontage details:

| | | |
|-------------------|---|-------------------|
| N.Z.M.G Reference | - | 2665100.716 East |
| | - | 6326035.358 North |
| Nearest Turbine | - | 3572m |
| Turbines Visible | - | 0 |



Prepared By:

Energy3 Services Limited

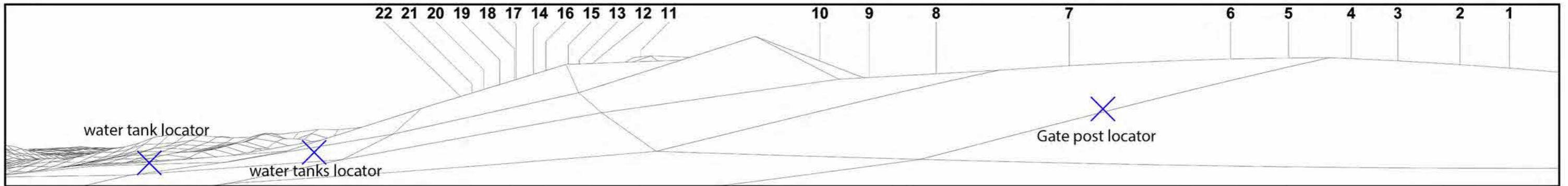


For:

Taumatotara Windfarm Limited

Figure 8a

Camera: Canon EOS 1000D
 Image: Stitched photographs – focal length 50mm



VP5 - Y.ARMSTRONG HOUSE
 OPTION 1

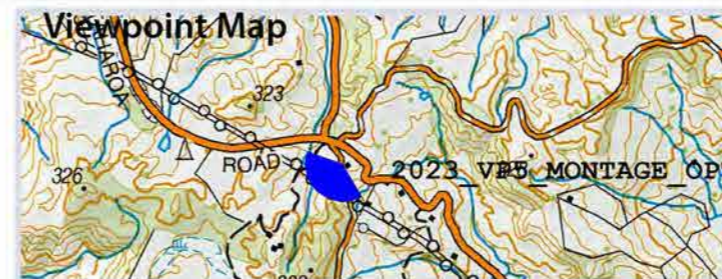
Northern 11 turbines: 121.5m (tip height), 111.5m (rotor diam), 65.75m (hub height)
 Southern 11 turbines: 110m (tip height), 100m (rotor diam), 60m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
 Viewpoint 5
 Y.Armstrong House Site

Photomontage details:

N.Z.M.G Reference - 2667765.130 East
 - 6331521.928 North
 Nearest Turbine - 2277m
 Turbines Visible - 0



Prepared By:

Energy3 Services Limited

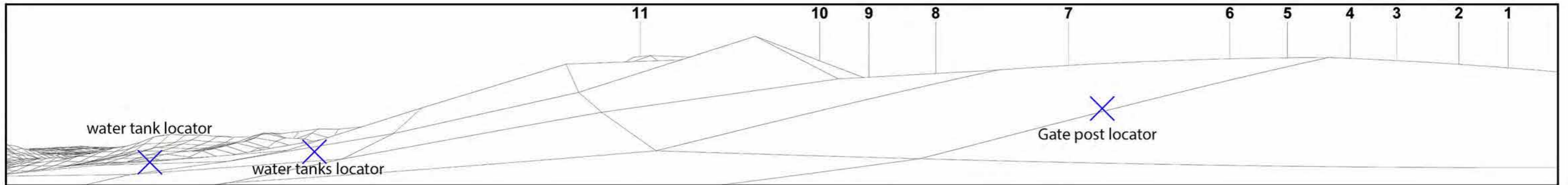


For:

Taumatotara Windfarm Limited

Figure 8b

Camera: Canon EOS 1000D
Image: Stitched photographs – focal length 50mm



VP5 - Y.ARMSTRONG HOUSE
OPTION 2

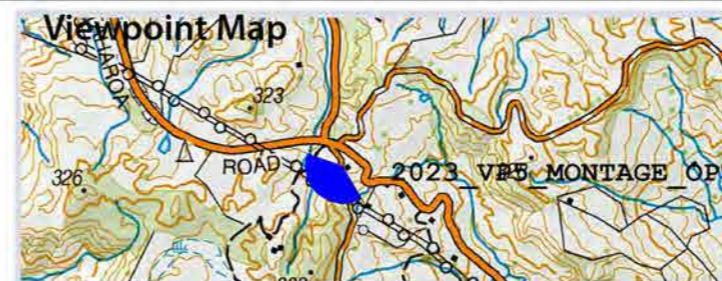
Northern 11 turbines only: 172.5m (tip height), 155m (rotor diam), 95m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
Viewpoint 5
Y.Armstrong House Site

Photomontage details:

| | | |
|-------------------|---|-------------------|
| N.Z.M.G Reference | - | 2667765.130 East |
| | - | 6331521.928 North |
| Nearest Turbine | - | 2277m |
| Turbines Visible | - | 0 |



Prepared By:

Energy3 Services Limited

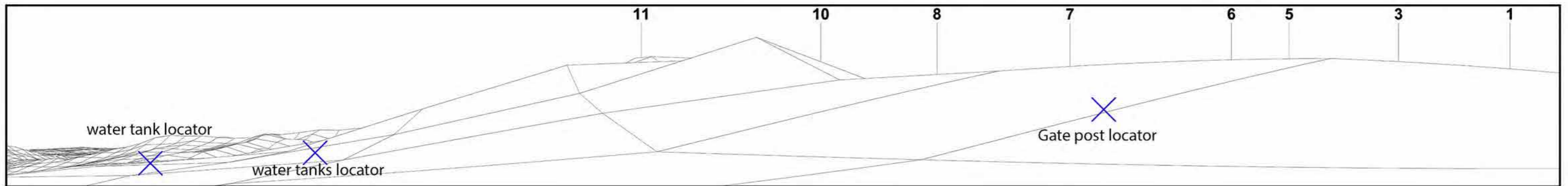


For:

Taumatotara Windfarm Limited

Figure 8c

Camera: Canon EOS 1000D
Image: Stitched photographs – focal length 50mm



VP5 - Y.ARMSTRONG HOUSE
OPTION 3

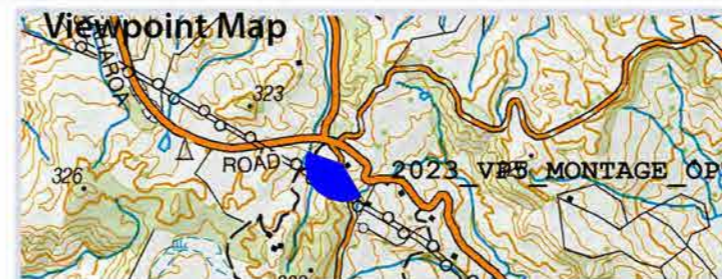
Northern 8 turbines only: 180.5m (tip height), 163m (rotor diam), 99m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
Viewpoint 5
Y.Armstrong House Site

Photomontage details:

| | | |
|-------------------|---|-------------------|
| N.Z.M.G Reference | - | 2667765.130 East |
| | - | 6331521.928 North |
| Nearest Turbine | - | 2277m |
| Turbines Visible | - | 0 |



Prepared By:

Energy3 Services Limited

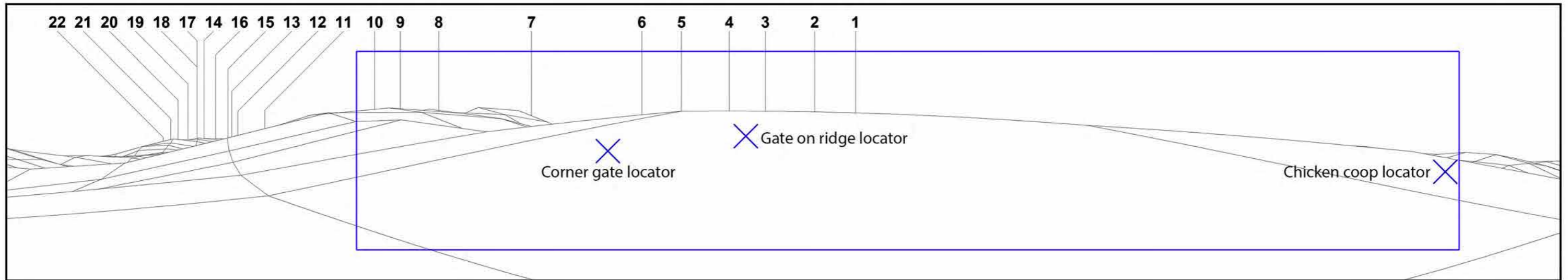


For:

Taumatotara Windfarm Limited

Figure 9a

Camera: Canon EOS 1000D
 Image: Stitched photographs – focal length 50mm



VP4 - R.IRONS HOUSE

OPTION 1

Northern 11 turbines: 121.5m (tip height), 111.5m (rotor diam), 65.75m (hub height)

Southern 11 turbines: 110m (tip height), 100m (rotor diam), 60m (hub height)

Taumatotara Windfarm

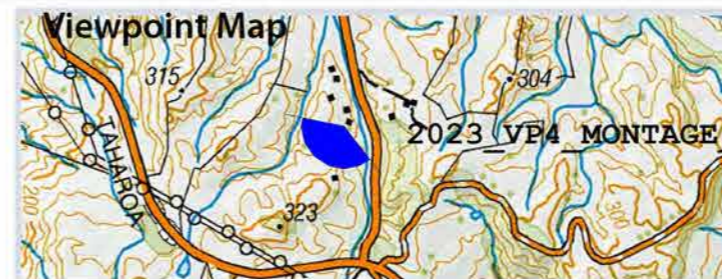
Photomontages Sept 2023

Viewpoint 4

R.Irons House Site

Photomontage details:

- N.Z.M.G Reference - 2667604.982 East
- 6332240.687 North
- Nearest Turbine - 2784m
- Turbines Visible - 0



Prepared By:

Energy3 Services Limited

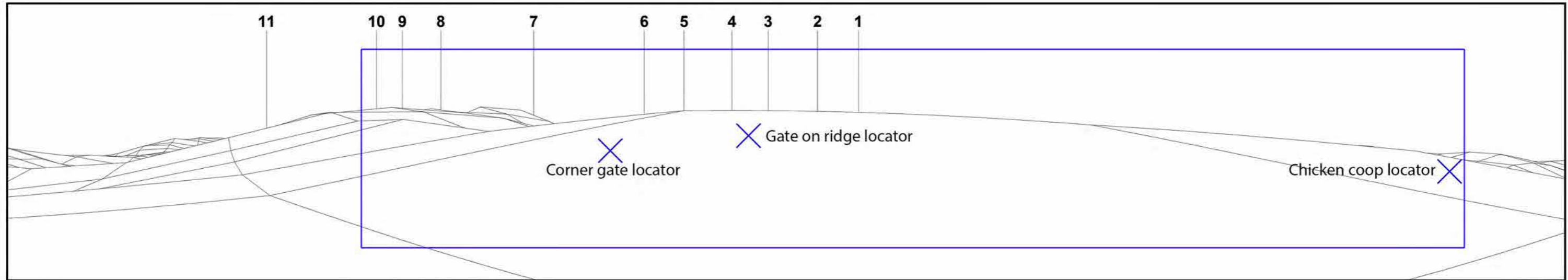


For:

Taumatotara Windfarm Limited

Figure 9b

Camera: Canon EOS 1000D
 Image: Stitched photographs – focal length 50mm



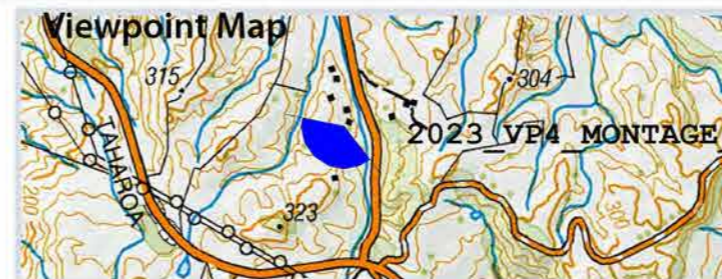
VP4 - R.IRONS HOUSE
 OPTION 2
 Northern 11 turbines only: 172.5m (tip height), 155m (rotor diam), 95m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
 Viewpoint 4
 R.Irons House Site

Photomontage details:

- N.Z.M.G Reference - 2667604.982 East
- 6332240.687 North
- Nearest Turbine - 2784m
- Turbines Visible - 0



Prepared By:

Energy3 Services Limited

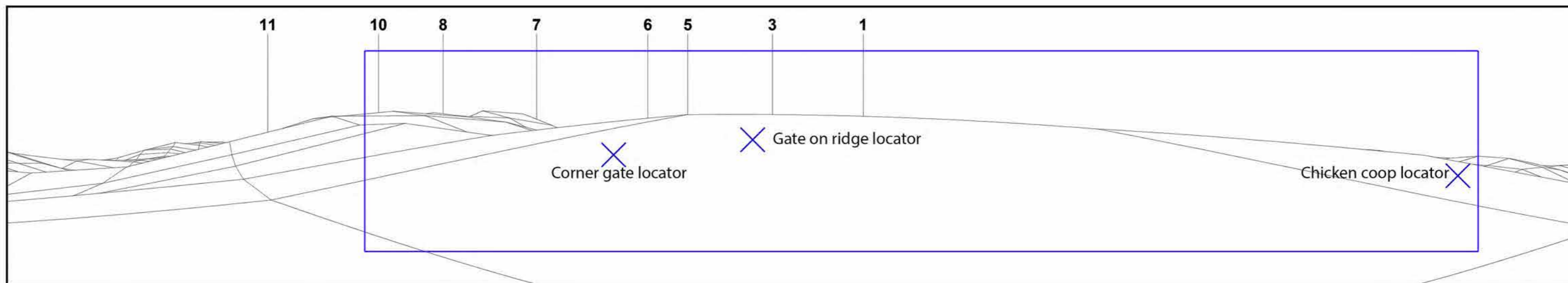


For:

Taumatotara Windfarm Limited

Figure 9c

Camera: Canon EOS 1000D
 Image: Stitched photographs – focal length 50mm



VP4 - R.IRONS HOUSE

OPTION 3

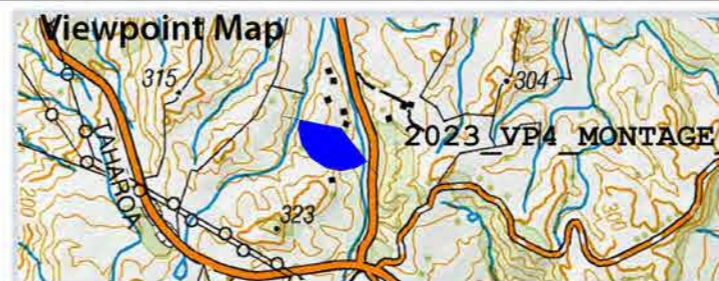
Northern 8 turbines only: 180.5m (tip height), 163m (rotor diam), 99m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
 Viewpoint 4
 R.Irons House Site

Photomontage details:

| | | |
|-------------------|---|-------------------|
| N.Z.M.G Reference | - | 2667604.982 East |
| | - | 6332240.687 North |
| Nearest Turbine | - | 2784m |
| Turbines Visible | - | 0 |



Prepared By:

Energy3 Services Limited

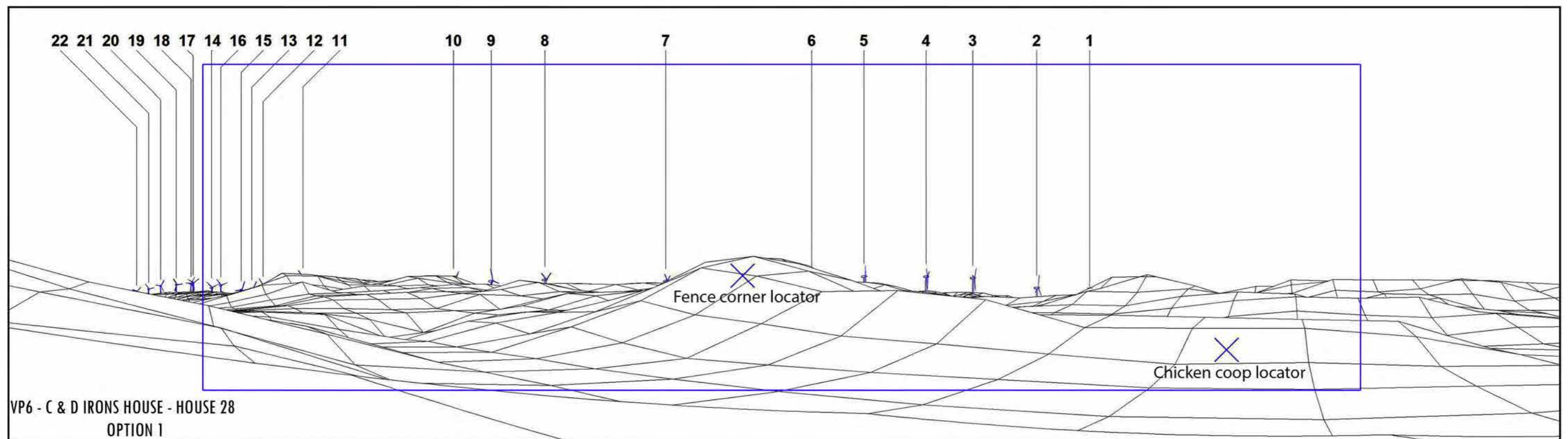


For:

Taumatotara Windfarm Limited

Figure 10a

Camera: Canon EOS 1000D, Image: Stitched photographs – focal length 50mm



Northern 11 turbines: 121.5m (tip height), 111.5m (rotor diam), 65.75m (hub height)
 Southern 11 turbines: 110m (tip height), 100m (rotor diam), 60m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
 Viewpoint 6
 C & D Irons House Site (house 28)

Photomontage details:

- N.Z.M.G Reference - 2667860.777 East
- 6332291.563 North
- Nearest Turbine - 2975m
- Turbines Visible - 21 (16 nacelles)



Prepared By:

Energy3 Services Limited

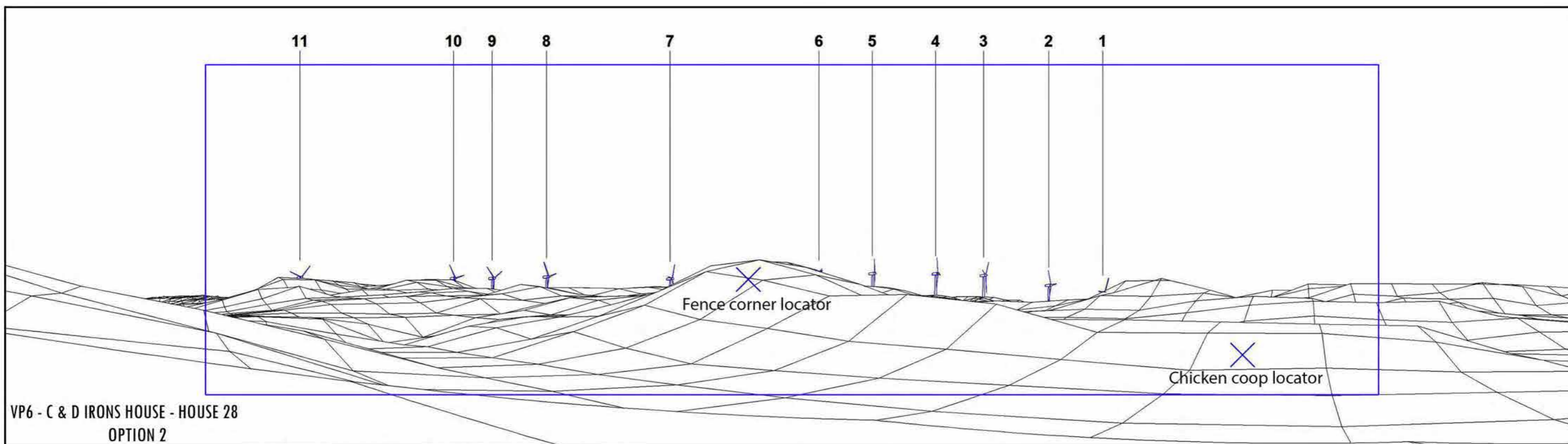


For:

Taumatotara Windfarm Limited

Figure 10b

Camera: Canon EOS 1000D, Image: Stitched photographs – focal length 50mm



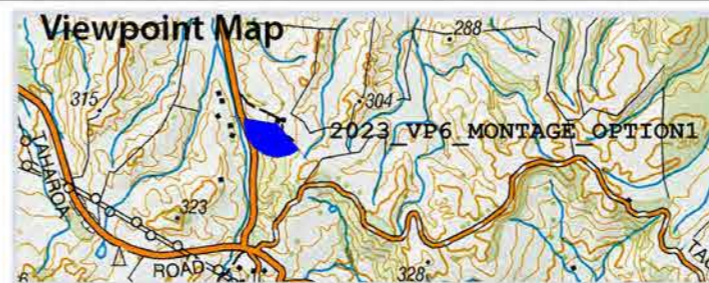
Northern 11 turbines only: 172.5m (tip height), 155m (rotor diam), 95m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
Viewpoint 6
C & D Irons House Site (house 28)

Photomontage details:

- N.Z.M.G Reference - 2667860.777 East
- 6332291.563 North
- Nearest Turbine - 2975m
- Turbines Visible - 11 (9 nacelles)



Prepared By:

Energy3 Services Limited

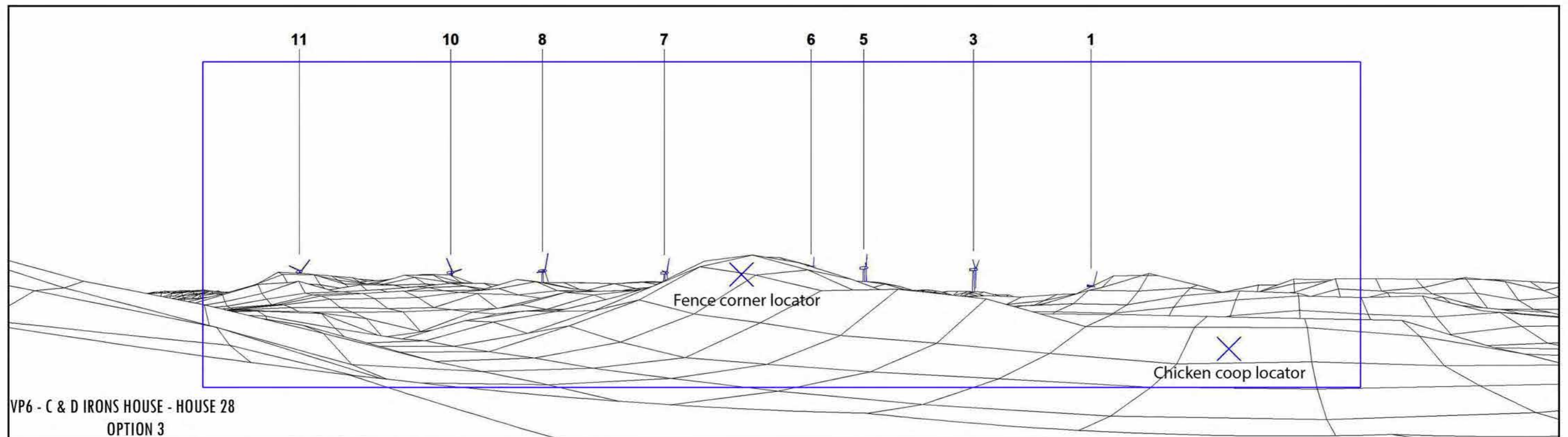


For:

Taumatotara Windfarm Limited

Figure 10c

Camera: Canon EOS 1000D, Image: Stitched photographs – focal length 50mm



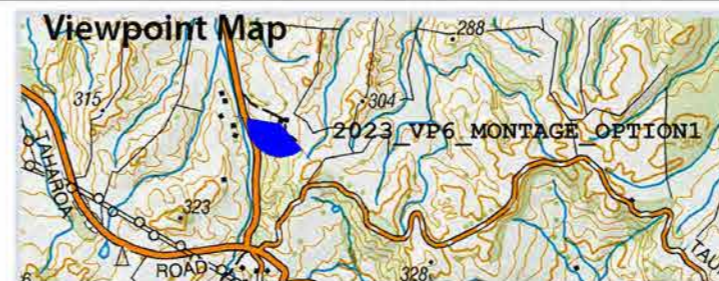
Northern 8 turbines only: 180.5m (tip height), 163m (rotor diam), 99m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
Viewpoint 6
C & D Irons House Site (house 28)

Photomontage details:

- N.Z.M.G Reference - 2667860.777 East
- 6332291.563 North
- Nearest Turbine - 2975m
- Turbines Visible - 8 (7 nacelles)



Prepared By:

Energy3 Services Limited

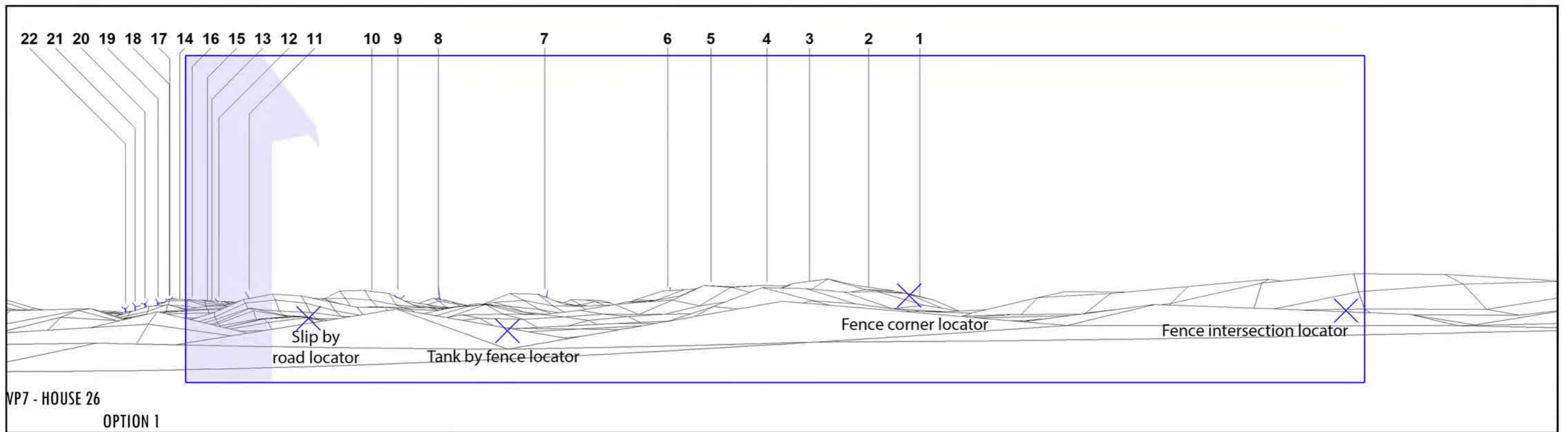


For:

Taumatotara Windfarm Limited

Figure 11a

Camera: Canon EOS 1000D, Image: Stitched photographs – focal length 50mm



Northern 11 turbines: 121.5m (tip height), 111.5m (rotor diam), 65.75m (hub height)
 Southern 11 turbines: 110m (tip height), 100m (rotor diam), 60m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
 Viewpoint 7
 House 26 Site

Photomontage details:

- N.Z.M.G Reference - 2667639.888 East
- 6333183.086 North
- Nearest Turbine - 3311m
- Turbines Visible - 18 (5 nacelles)



Prepared By:

Energy3 Services Limited

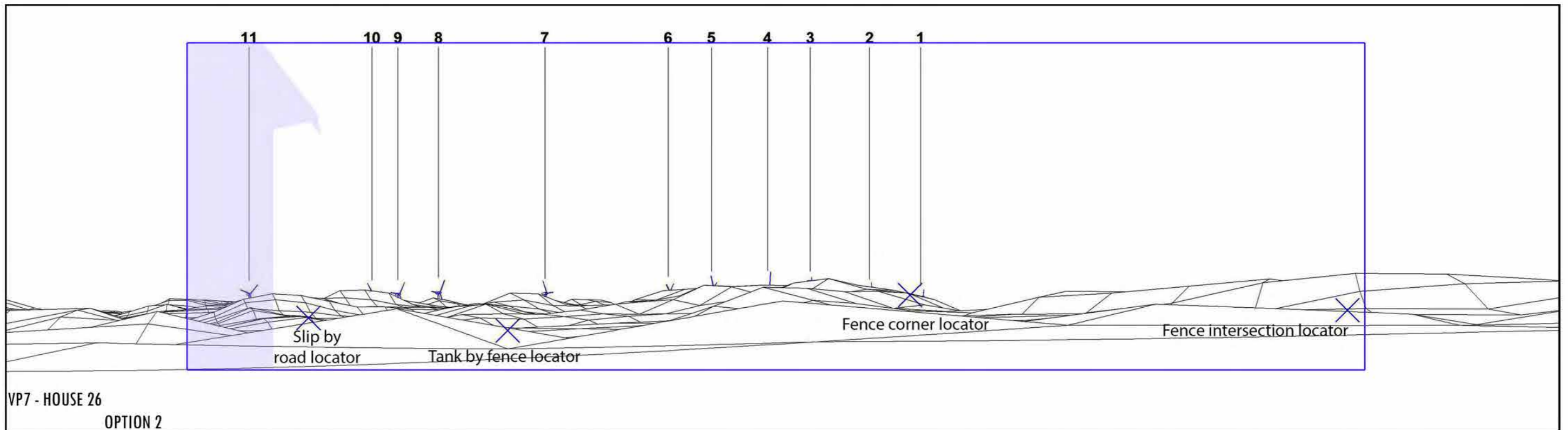


For:

Taumatotara Windfarm Limited

Figure 11b

Camera: Canon EOS 1000D, Image: Stitched photographs – focal length 50mm



VP7 - HOUSE 26

OPTION 2

Northern 11 turbines only: 172.5m (tip height), 155m (rotor diam), 95m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
Viewpoint 7
House 26 Site

Photomontage details:

| | | |
|-------------------|---|-------------------|
| N.Z.M.G Reference | - | 2667639.888 East |
| | - | 6333183.086 North |
| Nearest Turbine | - | 3311m |
| Turbines Visible | - | 11 (4 nacelles) |



Prepared By:

Energy3 Services Limited

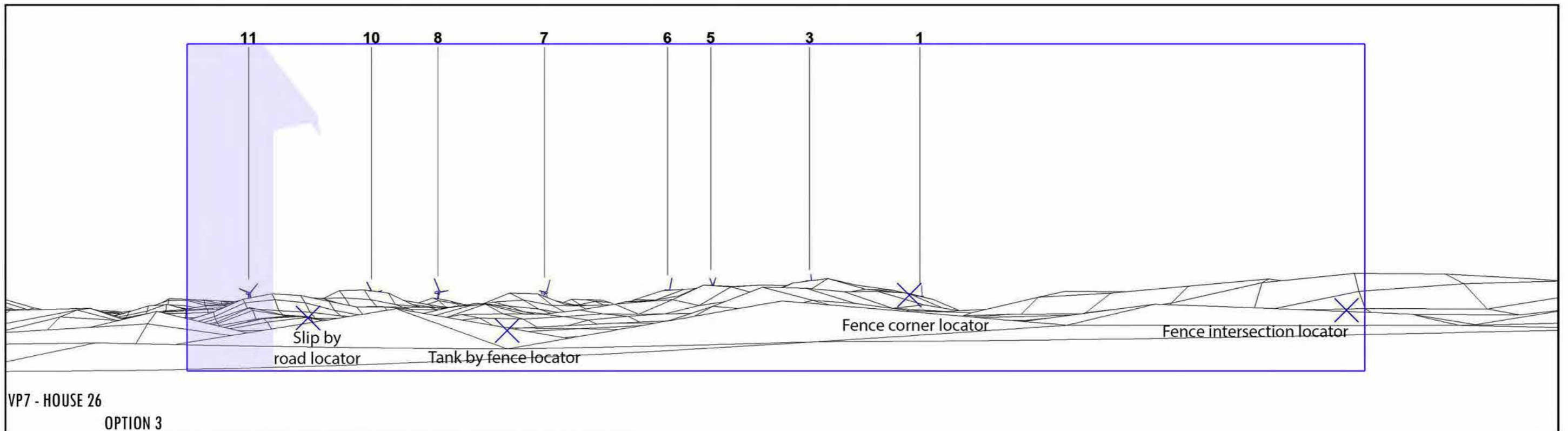


For:

Taumatotara Windfarm Limited

Figure 11c

Camera: Canon EOS 1000D, Image: Stitched photographs – focal length 50mm



Northern 8 turbines only: 180.5m (tip height), 163m (rotor diam), 99m (hub height)

Taumatotara Windfarm

Photomontages Sept 2023
Viewpoint 7
House 26 Site

Photomontage details:

- N.Z.M.G Reference - 2667639.888 East
- 6333183.086 North
- Nearest Turbine - 3311m
- Turbines Visible - 8 (3 nacelles)



Prepared By:

Energy3 Services Limited



For:

Taumatotara Windfarm Limited

Taumatotara Windfarm

Extent of shadow flicker effects

Figure 12

