

APPENDIX Q: VISUAL SIMULATIONS

Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven
Wind Project



Figure 1
Representative Viewpoint 1
Existing Conditions
and Project Simulations

BENTON COUNTY, WA



Viewpoint Location and
Photo Direction



Project Lease Boundary

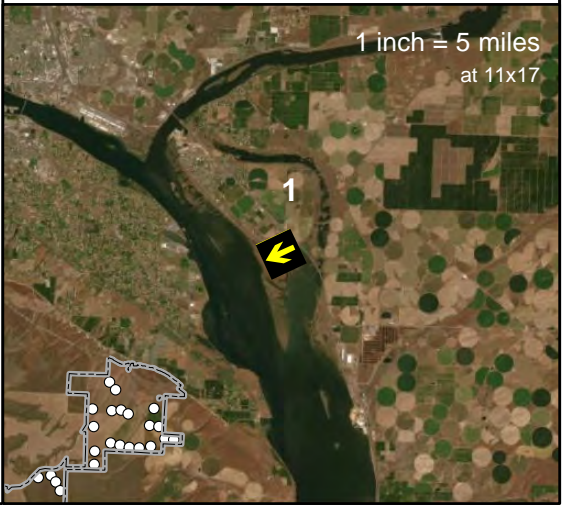


Proposed Turbine Location

View direction (deg): 244
Horizontal field of view (deg):..... 75
Vertical field of view (deg):..... 20
Max. WTGs within field of view:... 244 / 150
Max. Visible WTGs at tip height:... 199 / 137
Max. Visible WTGs at hub height: 148 / 107
Closest WTG (mi):..... 5.2 / 5.8
Furthest WTG (mi):.....26.8 / 26.5
Closest Solar Array (mi):..... No view
Closest Transmission Line (mi):..... No view

To approximate how the project will appear to a viewer in the natural setting, this sheet should be printed at 11 x 17 inches, full size with no scaling, and viewed at 6 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 6 inches from the eye.

NOT FOR CONSTRUCTION



Existing Conditions



Project Simulation Option 1

244 WTG



Project Simulation Option 2

150 WTG



Horse Heaven
Wind Project



Figure 2
Representative Viewpoint 2a
Existing Conditions
and Project Simulations

BENTON COUNTY, WA



Viewpoint Location and
Photo Direction



Project Lease Boundary



Proposed Turbine Location



Proposed Substation



Proposed Transmission Line



Solar Siting Area

| | |
|--------------------------------------|-------------|
| View direction (deg): | 132 |
| Horizontal field of view (deg):..... | 57 |
| Vertical field of view (deg):..... | 15 |
| Max. WTGs within field of view:... | 75 / 38 |
| Max. Visible WTGs at tip height:.. | 56 / 29 |
| Max. Visible WTGs at hub height: | 50 / 24 |
| Closest WTG (mi):..... | 3.9 / 4.8 |
| Furthest WTG (mi):..... | 13.4 / 13.0 |
| Closest Solar Array (mi):..... | No view |
| Closest Transmission Line (mi):..... | No view |

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Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven
Wind Project



Figure 3
Representative Viewpoint 2b
Existing Conditions
and Project Simulations

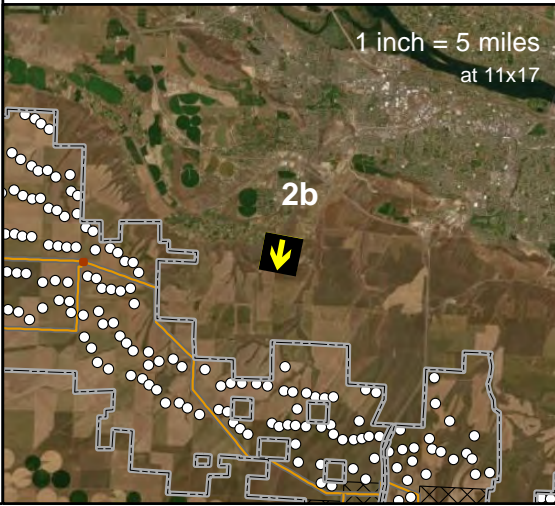
BENTON COUNTY, WA

- Viewpoint Location and Photo Direction
- Project Lease Boundary
- Proposed Turbine Location
- Proposed Substation
- Proposed Transmission Line
- Solar Siting Area

| | |
|--------------------------------------|-----------|
| View direction (deg): | 189 |
| Horizontal field of view (deg):..... | 57 |
| Vertical field of view (deg):..... | 15 |
| Max. WTGs within field of view:... | 37 / 19 |
| Max. Visible WTGs at tip height:.. | 36 / 19 |
| Max. Visible WTGs at hub height: | 30 / 17 |
| Closest WTG (mi):..... | 3.0 / 3.5 |
| Furthest WTG (mi):..... | 6.2 / 5.9 |
| Closest Solar Array (mi):..... | No view |
| Closest Transmission Line (mi):..... | No view |

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Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven
Wind Project



Figure 4
Representative Viewpoint 2c
Existing Conditions
and Project Simulations

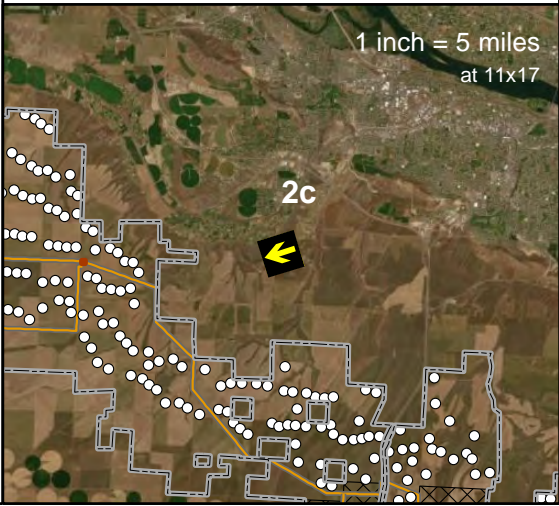
BENTON COUNTY, WA

- Viewpoint Location and Photo Direction
- Project Lease Boundary
- Proposed Turbine Location
- Proposed Substation
- Proposed Transmission Line
- Solar Siting Area

| | |
|--------------------------------------|-------------|
| View direction (deg): | 251 |
| Horizontal field of view (deg):..... | 56 |
| Vertical field of view (deg):..... | 15 |
| Max. WTGs within field of view:... | 85 / 60 |
| Max. Visible WTGs at tip height:.. | 46 / 39 |
| Max. Visible WTGs at hub height: | 24 / 21 |
| Closest WTG (mi):..... | 3.7 / 3.7 |
| Furthest WTG (mi):..... | 10.8 / 10.8 |
| Closest Solar Array (mi):..... | No view |
| Closest Transmission Line (mi):..... | 3.4 |

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Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven
Wind Project



Figure 5
Representative Viewpoint 3
Existing Conditions
and Project Simulations

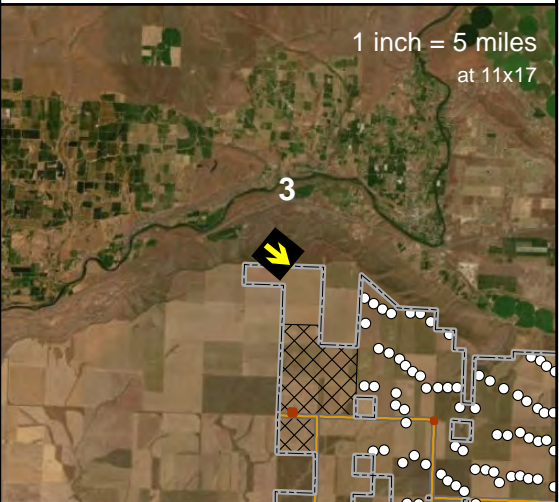
BENTON COUNTY, WA

- Viewpoint Location and Photo Direction
- Project Lease Boundary
 - Proposed Turbine Location
- Proposed Substation
- Proposed Transmission Line
- Solar Siting Area

| | |
|--------------------------------------|-------------|
| View direction (deg): | 128 |
| Horizontal field of view (deg):..... | 56 |
| Vertical field of view (deg):..... | 15 |
| Max. WTGs within field of view:... | 244 / 150 |
| Max. Visible WTGs at tip height:.. | 239 / 150 |
| Max. Visible WTGs at hub height: | 219 / 139 |
| Closest WTG (mi):..... | 2.5 / 2.8 |
| Furthest WTG (mi):..... | 28.1 / 27.6 |
| Closest Solar Array (mi):..... | 2.1 |
| Closest Transmission Line (mi):..... | 4.2 |

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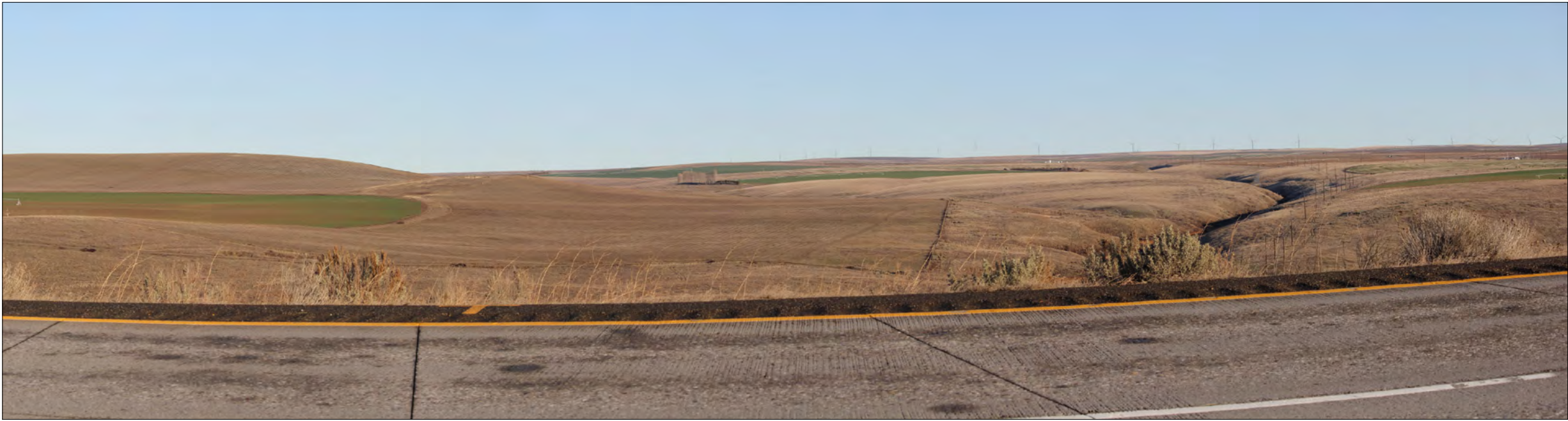


Existing Conditions



Project Simulation Option 1

244 WTG



Project Simulation Option 2

150 WTG



Horse Heaven
Wind Project



Figure 6
Representative Viewpoint 4a
Existing Conditions
and Project Simulations

BENTON COUNTY, WA



Viewpoint Location and
Photo Direction



Project Lease Boundary



Proposed Turbine Location



Proposed Substation



Proposed Transmission Line

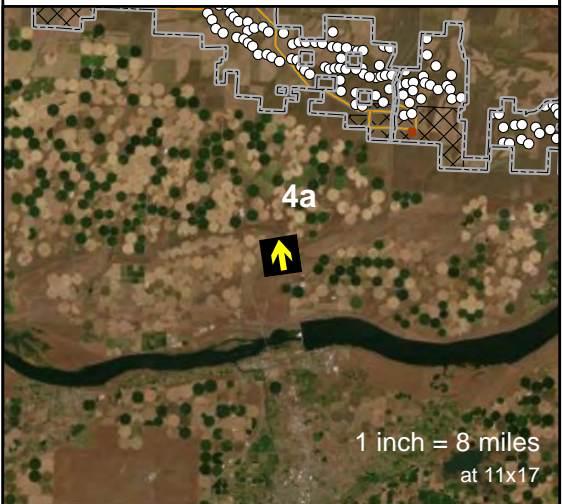


Solar Siting Area

View direction (deg): 350
Horizontal field of view (deg):..... 57
Vertical field of view (deg):..... 15
Max. WTGs within field of view:... 163 / 110
Max. Visible WTGs at tip height:.. 51 / 40
Max. Visible WTGs at hub height: 34 / 26
Closest WTG (mi):..... 7.3 / 7.3
Furthest WTG (mi):.....19.6 / 19.4
Closest Solar Array (mi):..... No view
Closest Transmission Line (mi):..... 6.5

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Existing Conditions



Project Simulation Option 1

244 WTG



Project Simulation Option 2

150 WTG



Horse Heaven
Wind Project



Figure 7
Representative Viewpoint 4b
Existing Conditions
and Project Simulations

BENTON COUNTY, WA



Viewpoint Location and
Photo Direction



Project Lease Boundary



Proposed Turbine Location



Proposed Substation



Proposed Transmission Line

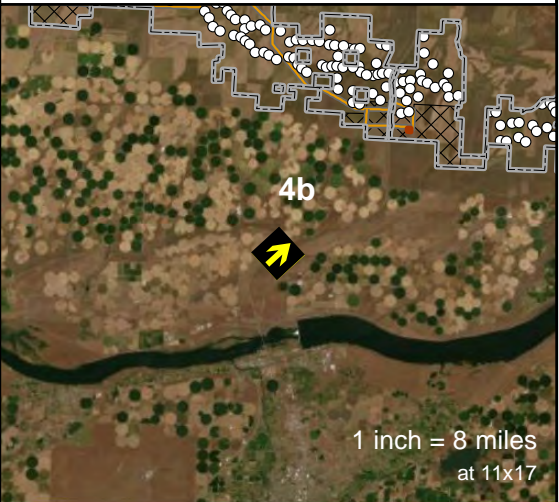


Solar Siting Area

| | |
|--------------------------------------|-------------|
| View direction (deg): | 46 |
| Horizontal field of view (deg):..... | 57 |
| Vertical field of view (deg):..... | 15 |
| Max. WTGs within field of view:... | 85 / 42 |
| Max. Visible WTGs at tip height:.. | 66 / 37 |
| Max. Visible WTGs at hub height: | 58 / 33 |
| Closest WTG (mi):..... | 7.0 / 7.3 |
| Furthest WTG (mi):..... | 16.2 / 15.6 |
| Closest Solar Array (mi):..... | 6.0 |
| Closest Transmission Line (mi):..... | 6.5 |

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Existing Conditions



Project Simulation Option 1

244 WTG



Project Simulation Option 2

150 WTG



Horse Heaven
Wind Project



Figure 8
Representative Viewpoint 5
Existing Conditions
and Project Simulations

BENTON COUNTY, WA



Viewpoint Location and
Photo Direction



Project Lease Boundary



Proposed Turbine Location



Proposed Substation

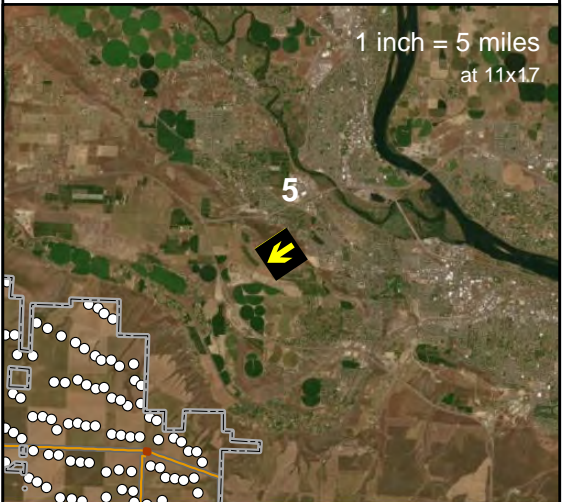


Proposed Transmission Line

View direction (deg): 236
Horizontal field of view (deg):..... 58
Vertical field of view (deg):..... 15
Max. WTGs within field of view:... 101 / 76
Max. Visible WTGs at tip height:.. 101 / 76
Max. Visible WTGs at hub height: 101 / 76
Closest WTG (mi):..... 4.7 / 4.7
Furthest WTG (mi):..... 9.9 / 9.8
Closest Solar Array (mi):..... No view
Closest Transmission Line (mi):..... No view

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Existing Conditions



Project Simulation Option 1

244 WTG



Project Simulation Option 2

150 WTG



Horse Heaven
Wind Project



Figure 9
Representative Viewpoint 6
Existing Conditions
and Project Simulations

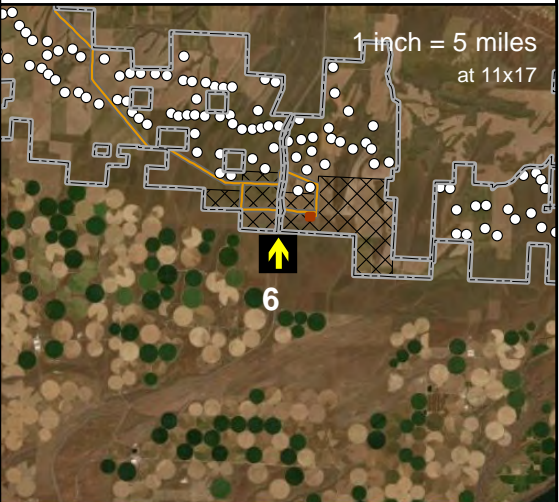
BENTON COUNTY, WA

- Viewpoint Location and Photo Direction
- Project Lease Boundary
- Proposed Turbine Location
- Proposed Substation
- Proposed Transmission Line
- Solar Siting Area

| | |
|--|-----------|
| View direction (deg): | 360 |
| Horizontal field of view (deg):..... | 60 |
| Vertical field of view (deg):..... | 15 |
| Max. WTGs within field of view:... | 41 / 17 |
| Max. Visible WTGs at tip height:.. | 37 / 17 |
| Max. Visible WTGs at hub height: 29 / 17 | |
| Closest WTG (mi):..... | 1.7 / 1.8 |
| Furthest WTG (mi):..... | 5.7 / 5.0 |
| Closest Solar Array (mi):..... | 0.6 |
| Closest Transmission Line (mi):..... | 1.2 |

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NOT FOR CONSTRUCTION



Existing Conditions



Project Simulation Option 1

244 WTG



Project Simulation Option 2

150 WTG



Horse Heaven
Wind Project



Figure 10
Representative Viewpoint 7
Existing Conditions
and Project Simulations

BENTON COUNTY, WA

- Viewpoint Location and Photo Direction
- Project Lease Boundary
 - Proposed Turbine Location
- Proposed Substation
- Proposed Transmission Line
- Solar Siting Area

| | |
|--|-------------|
| View direction (deg): | 60 |
| Horizontal field of view (deg):..... | 58 |
| Vertical field of view (deg):..... | 15 |
| Max. WTGs within field of view:... | 122 / 90 |
| Max. Visible WTGs at tip height:.. | 118 / 87 |
| Max. Visible WTGs at hub height: 110 / | 85 |
| Closest WTG (mi):..... | 5.8 / 5.8 |
| Furthest WTG (mi):..... | 11.9 / 11.8 |
| Closest Solar Array (mi):..... | 3.1 |
| Closest Transmission Line (mi):..... | 2.2 |

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