



## Lanfine North and Lanfine South Wind Power Projects

### Proposed Project Map Option B: Vestas

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#### Notes and Data Sources:

Project Land provided by BowArk (updated 08 Sep 2017). Buildable Area derived by WSP (updated 15 May 2017). Populated places, roads, Alberta Township System, and municipal boundaries from AltaLIS, licensed under the Open Government Licence - Alberta. Existing transmission lines and substations derived by WSP based on AESO AIES map provided by BowArk. Shadow flicker estimates and sound level contours based on Vestas 3.6 MW turbine with rotor diameter of 136 m and hub height of 105 m using 83 turbine locations. Sound level contours provided by RWDI (third-party sound sources not shown).

Coordinate System: NAD 1983 UTM Zone 12N  
Scale: 1:120,000 when printed at 11" x 17"

- Project Land
- Buildable Area
- Proposed Turbine Location
- Proposed Underground Collector
- Proposed Collector Right-of-Way (Underground or Above ground)
- Proposed Road
- Proposed Substation
- Proposed Permanent Meteorological Tower
- Residence

- Existing ATCO Substation
- Existing Transmission Line (240 kV)
- Existing Transmission Line (138 kV)
- Major Highway
- Minor Highway
- Road
- Waterbody
- Township Line
- Section Line
- Municipal District and County Boundary

- #### Shadow Flicker (Worst Case) Hours per Year
- Less than 8 hours
  - Between 8 and 15 hours
  - Between 15 and 30 hours
  - More than 30 hours
  - Sound Level (38.3 dBA)