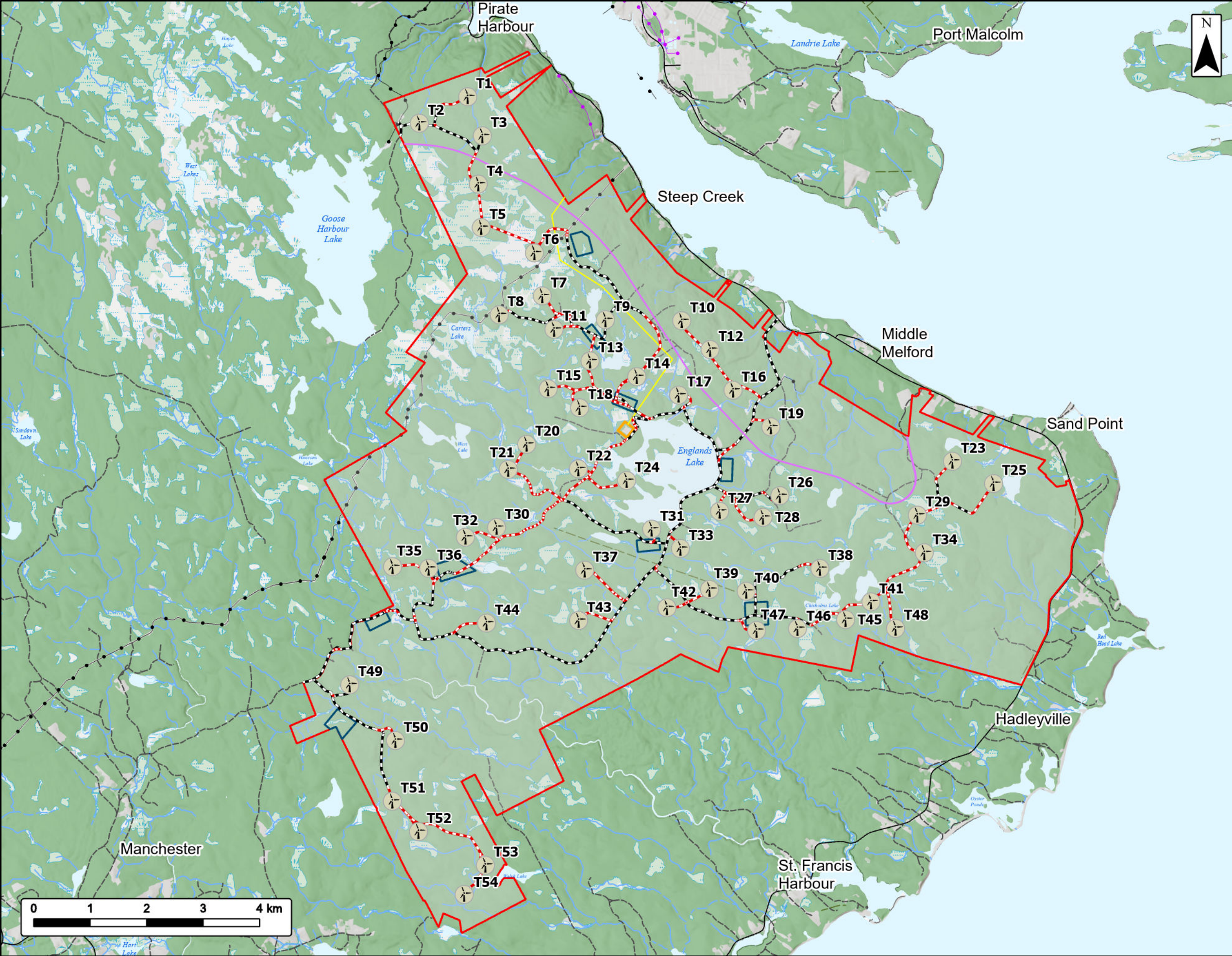




Wind Farm 1
Project Layout

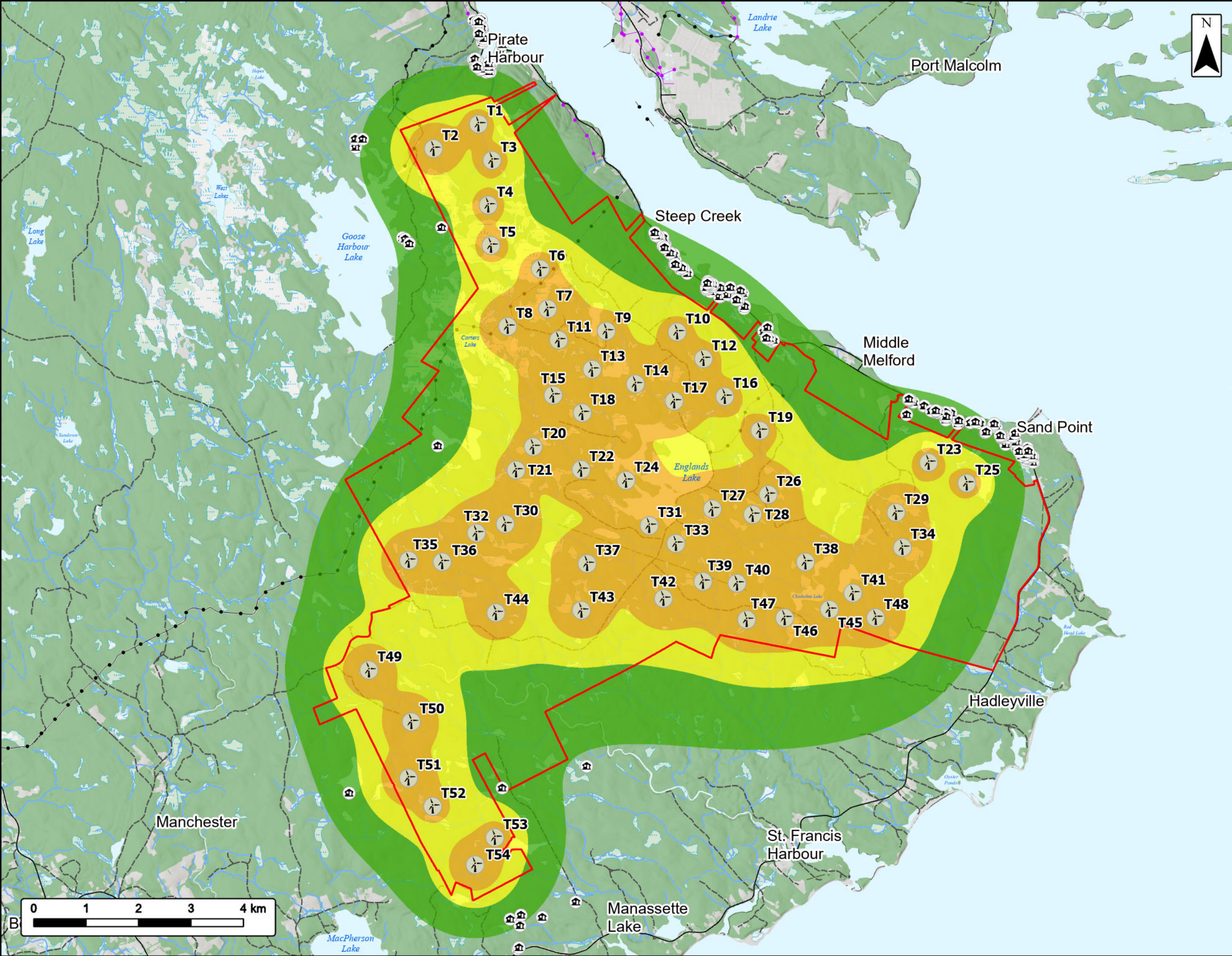


- Study Area *
- Proposed Turbine Location
- Existing Road to be Upgraded
- Proposed New Road
- High Voltage Transmission Line
- Substation
- Laydown Area
- Melford Rail Easement
- Utilities (line)**
- Existing Pipeline
- Existing Transmission Lines
- Transportation**
- Road
- Unpaved Road
- Water Features**
- Mapped Stream
- Mapped Indefinite Stream
- Mapped Lakes and Rivers
- Mapped Wet Areas



Sources: ESRI Basemaps, Google Basemaps, GeoNOVA, SNSIS, NSNRR, AGDC, IBA Canada, CNWI, HERE, Garmin, USGS	
Coordinate System: NAD83 UTM Zone 20N	
Date:	2025-06-19
Project #:	23-9204
Scale:	1:65,000
Drawn By:	K. Wallace
Checked By:	M. Savelle
Drawing #:	
1	





Wind Farm 1

Sound



Study Area

Proposed Turbine Location

Receptors within 2km of Turbines

Predicted Sound Level (dBA)

35-39

40-44

45+

Utilities (line)

Existing Pipeline

Existing Transmission Lines

Transportation

Road

Unpaved Road

Water Features

Mapped Stream

Mapped Indefinite Stream

Mapped Lakes and Rivers

Mapped Wet Areas

Note: Modelling was completed using the Goldwind GWH182 turbine model with a hub height of 120 metres. Noise was modelled using WindPRO v4.0 software using the ISO 9613-2 General noise model, with a ground attenuation factor of 0.7. Select turbines were modelled using SRM4s Low Sound Mode, as shown in the legend.

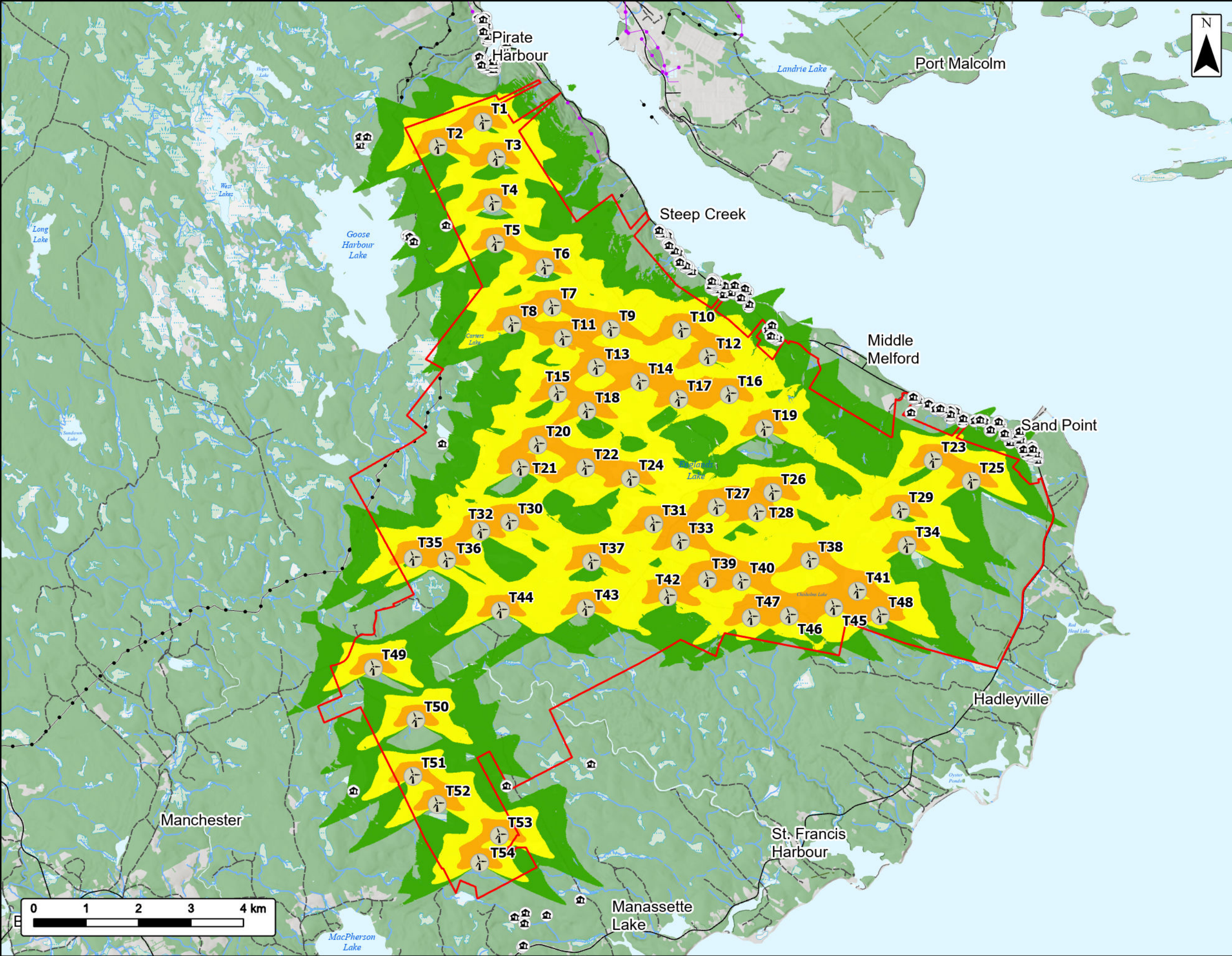


Coordinate System: NAD83 UTM Zone 20N

Sources: ESRI Basemaps, Google Basemaps, GeoNOVA, SNSIS, NSNRM, AGDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-06-19	Project #:	23-9204
Scale:	1:70,000	Drawing #:	5
Drawn By:	K. Wallace		
Checked By:	M. Savelle		





Wind Farm 1

Realistic Case - Shadow Flicker (Hours/Year)

Study Area

Proposed Turbine Location

Receptors within 2km of Turbines

Predicted Shadow Hours/Year

10-29

30-99

100+

Utilities (line)

Existing Pipeline

Existing Transmission Lines

Transportation

Road

Unpaved Road

Water Features

Mapped Stream

Mapped Indefinite Stream

Mapped Lakes and Rivers

Mapped Wet Areas

Note: Modelling was completed using the Goldwind GWH182 turbine model with a hub height of 120 metres, and total height of 211.7 metres. Historical sunlight data from the nearest Environment Canada weather station was used (Charlottetown).

Coordinate System: NAD83 UTM Zone 20N

Sources: ESRI Basemaps, Google Basemaps, GeoNOVA, SNSIS, NSNRR, AGDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-06-19	Project #:	23-9204
Scale:	1:70,000	Drawing #:	6
Drawn By:	K. Wallace		
Checked By:	M. Savelle		