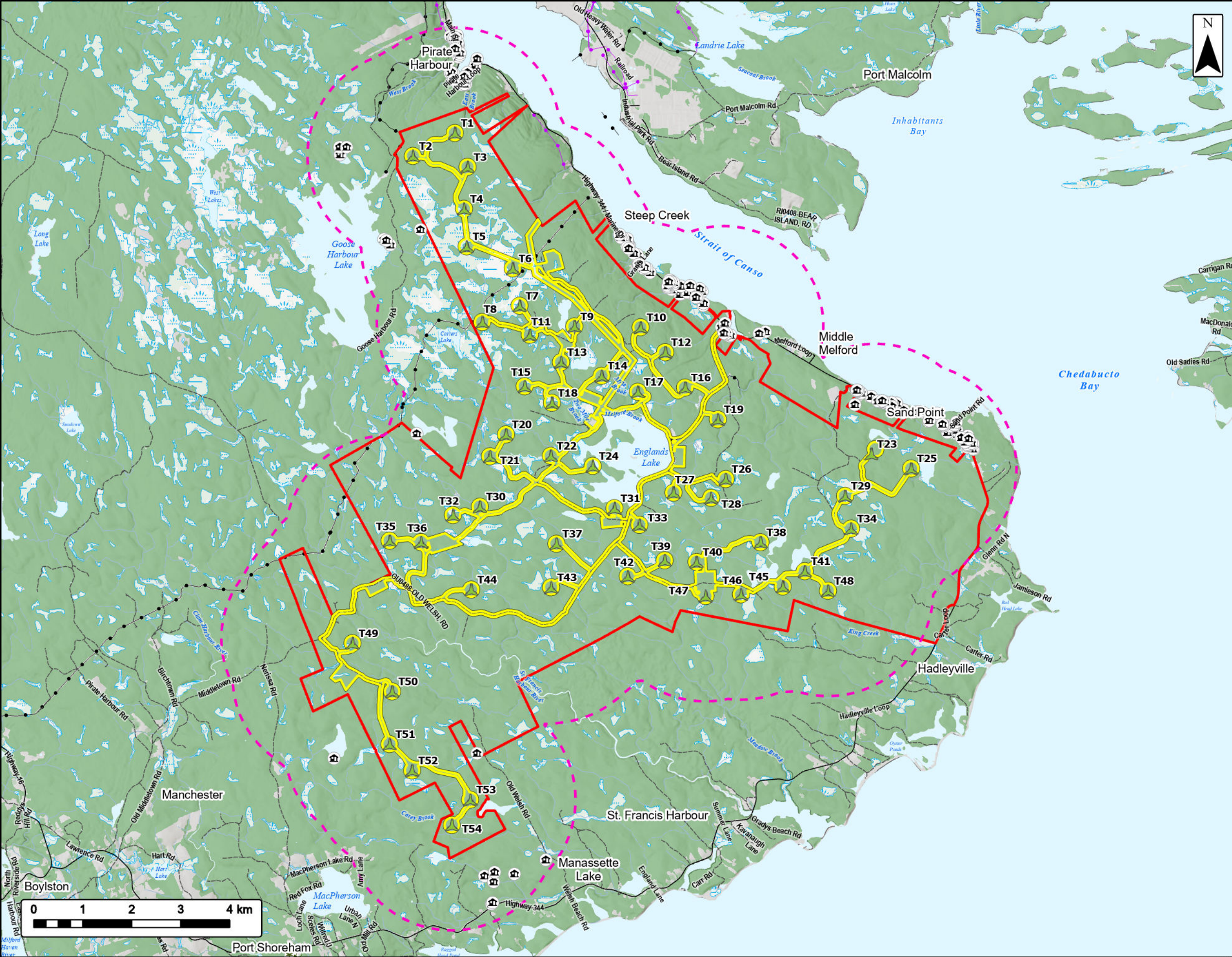




Setapuktuk Wind Project

Receptors



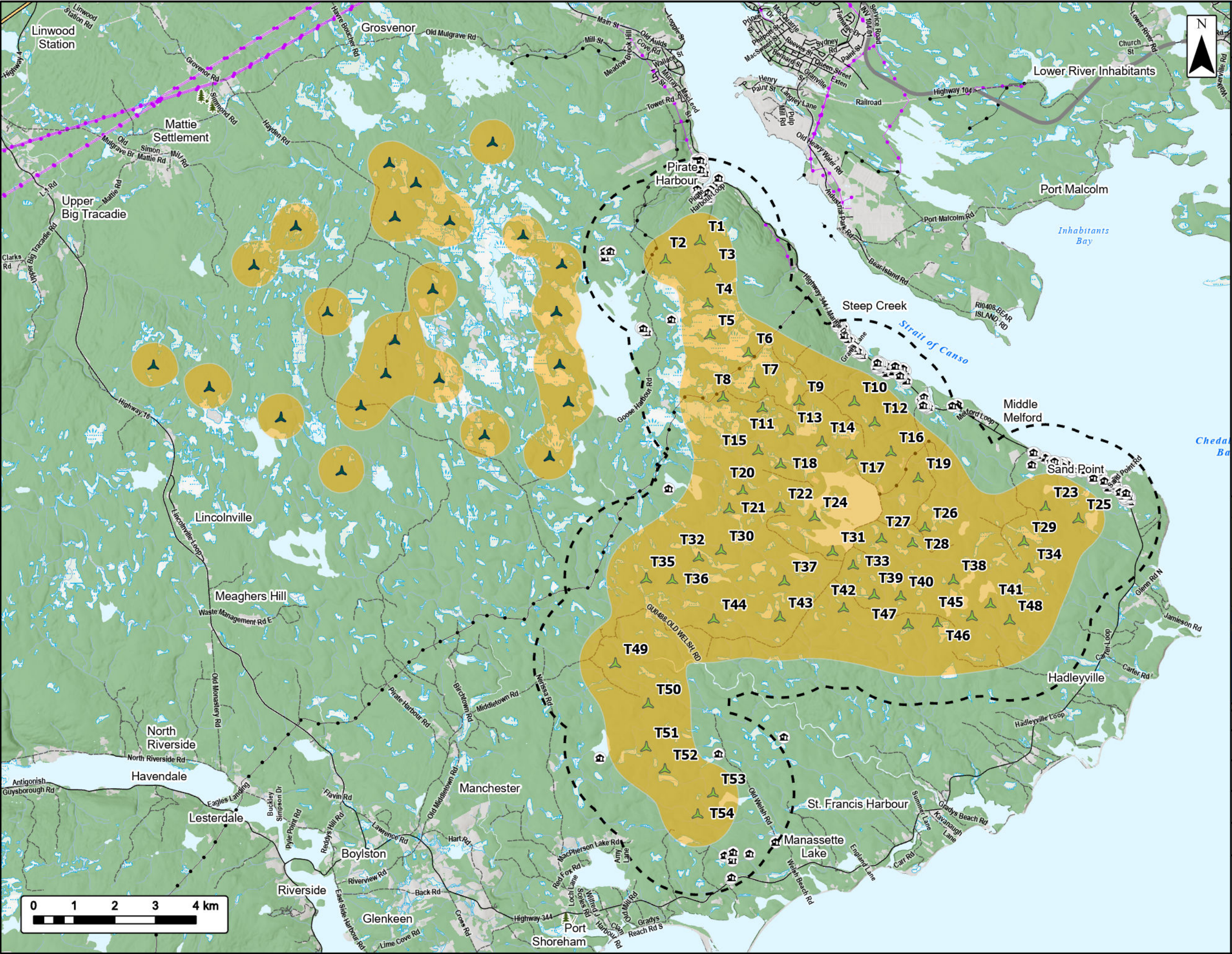
- Study Area
- Assessment Area
- Proposed Turbine Locations
- Sound LAA
- Potential Receptor
- Transportation**
- Road
- Unpaved Road
- Utilities (Line)**
- Existing Pipeline
- Existing Transmission Lines
- Water Features**
- Mapped Stream
- Mapped Indefinite Stream
- Mapped Lakes and Rivers
- Mapped Wetlands



Coordinate System: NAD 1983 UTM Zone 20N
Sources: Esri, NASA, NGA, USGS, Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-09-24	Project #:	23-9204
Scale:	1:75,000	Drawing #:	7.2
Drawn By:	K. Wallace		
Checked By:	A. Doane		





Setapuktuk Wind Project

Noise Model

Turbine Buffer (2 km)

Proposed Turbine Location

Goose Harbour Lake Wind Farm Turbine Location

Predicted Noise Level (dBA)

> 40

Potential Receptor

Transportation

Trans-Canada Highway

Highway

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Existing Transmission Lines

Water Features

Mapped Stream

Mapped Indefinite Stream

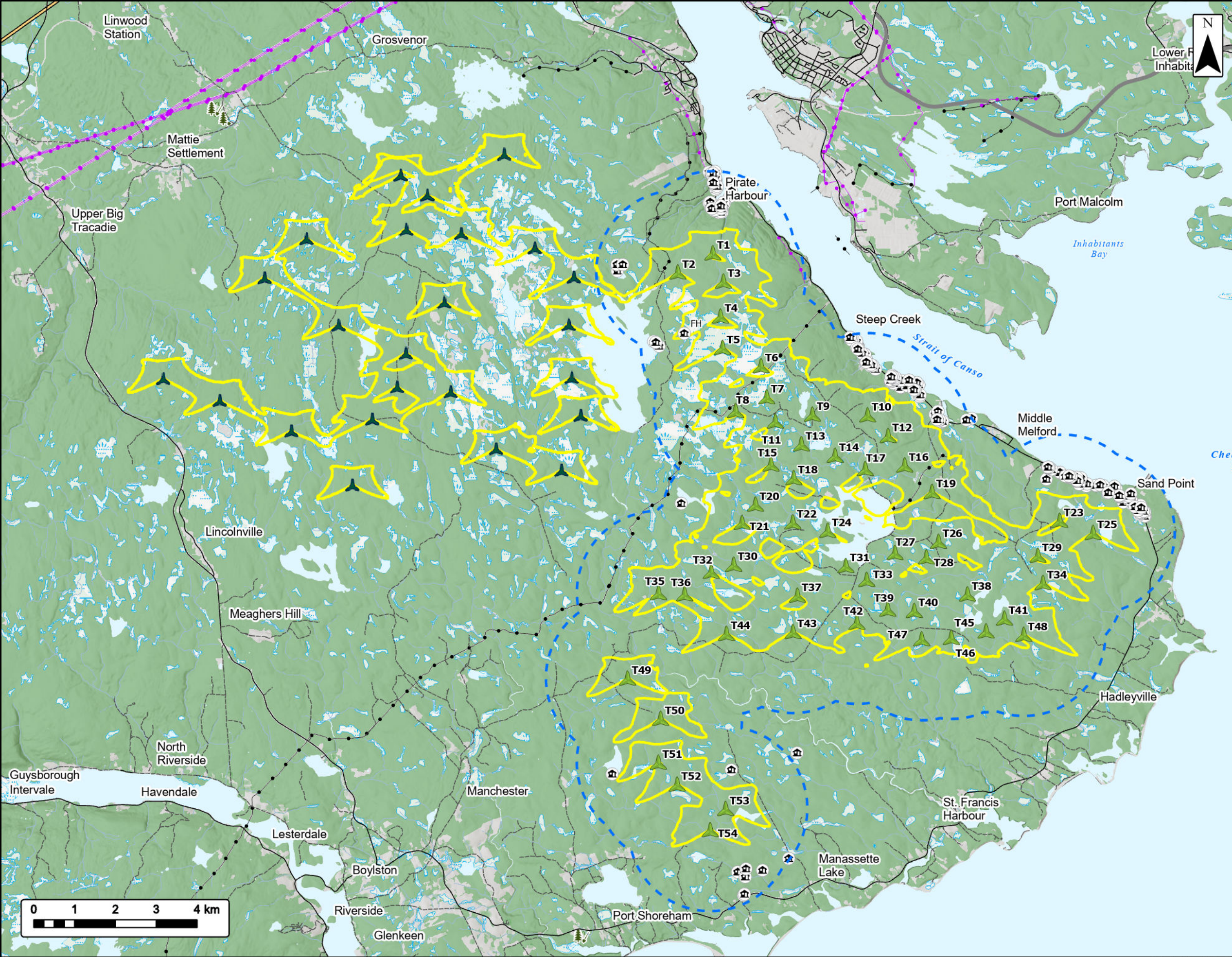
Mapped Lakes and Rivers

Mapped Wetlands

Coordinate System: NAD 1983 UTM Zone 20N

Sources: Esri, NASA, NGA, USGS, Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-09-25	Project #:	23-9204
Scale:	1:90,000	Drawing #:	7.3
Drawn By:	K. Wallace		
Checked By:	A. Doane		



Setapuktuk Wind Project

Shadow Flicker - Assessment Scenario B

Proposed Turbine Locations

Shadow Flicker LAA

Goose Harbour Lake Wind Farm Turbine Location

Potential Receptor

Predicted Shadow Hours/Year (Assessment Scenario B)

30+

Transportation

Trans-Canada Highway

Highway

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Existing Transmission Lines

Water Features

Mapped Stream

Mapped Indefinite Stream

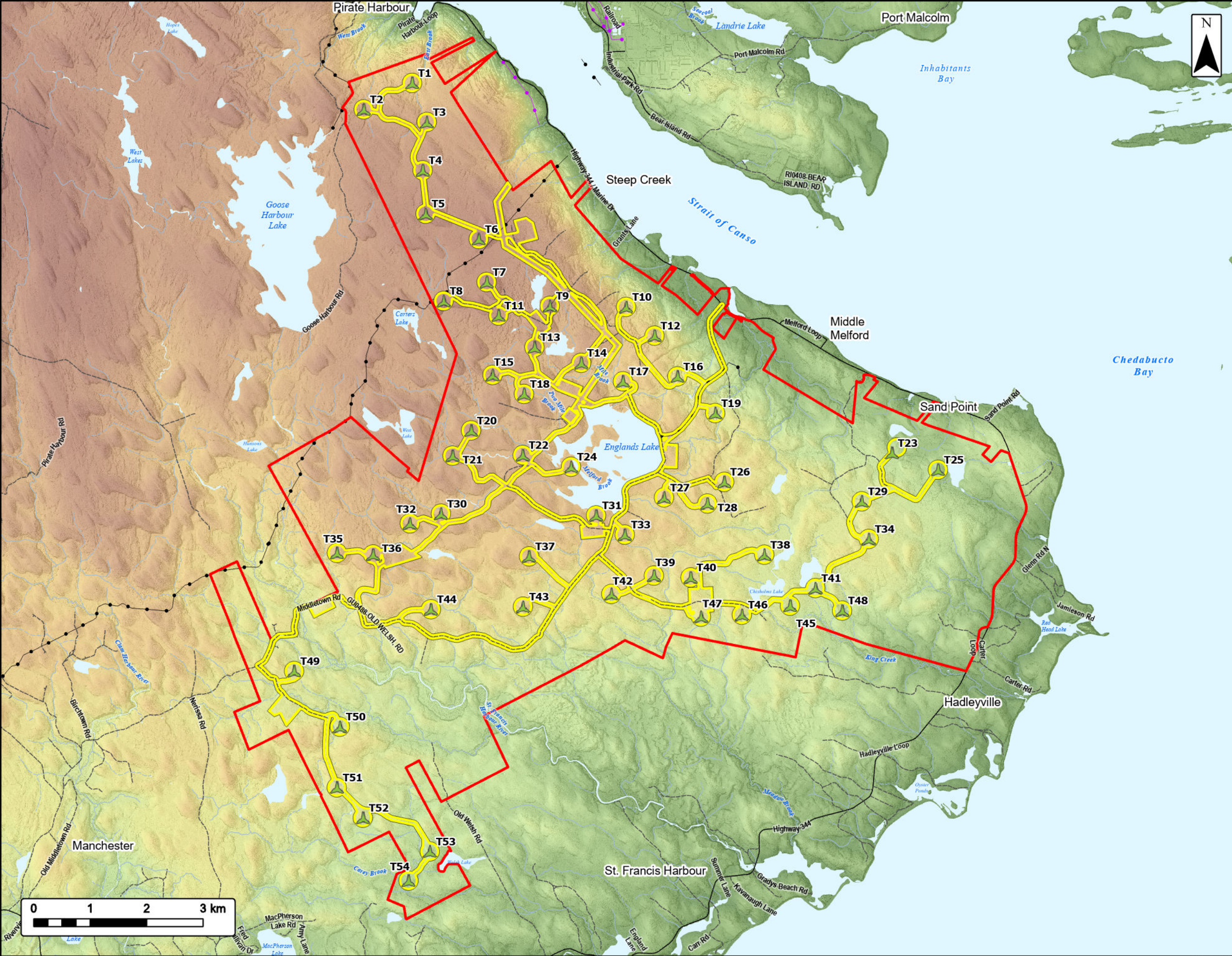
Mapped Lakes and Rivers

Mapped Wetlands

Coordinate System: NAD 1983 UTM Zone 20N

Sources: Esri, NASA, NGA, USGS, Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-09-25	Project #:	23-9204
Scale:	1:90,000	Drawing #:	7.4
Drawn By:	K. Wallace		
Checked By:	A. Doane		



Setapuktuk Wind Project

Geomorphology

Study Area

Assessment Area

Proposed Turbine Locations

Elevation (m)

190

-1

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Existing Transmission Lines

Water Features

Mapped Stream

Mapped Indefinite Stream

Mapped Lakes and Rivers

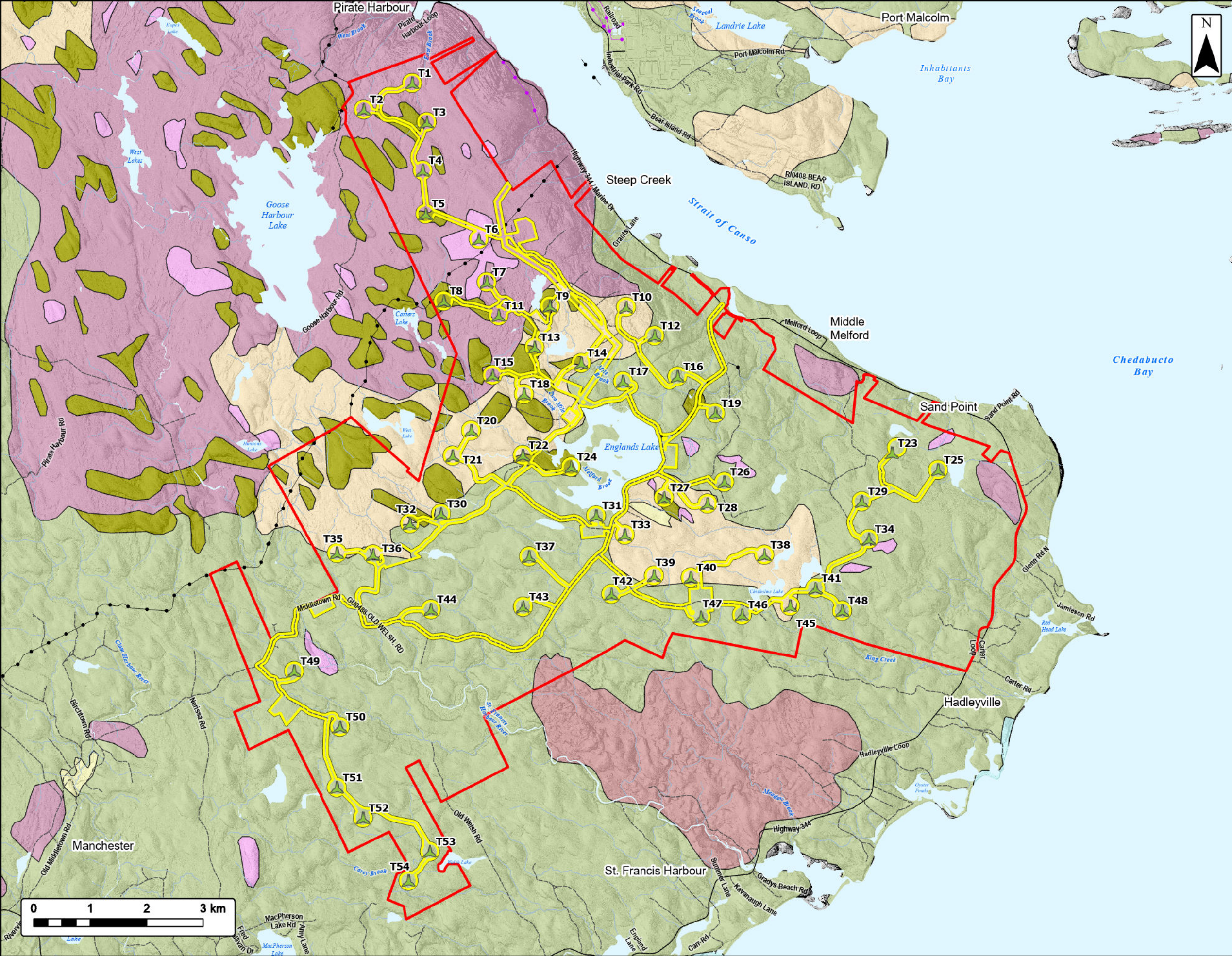
Coordinate System: NAD 1983 UTM Zone 20N

Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWL, HERE, Garmin, USGS

Date:	2025-09-22	Project #:	23-9204
Scale:	1:65,000	Drawing #:	7.5
Drawn By:	K. Wallace		
Checked By:	A. Doane		

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CONSULTING



Setapuktuk Wind Project

Surficial Geology

Study Area

Assessment Area

Proposed Turbine Locations

Surficial Geology By Unit

Alluvial Deposits

Bedrock

Hummocky Ground Moraine

Marine Deposits

Organic Deposits

Silty Drumlin

Silty Till Plain

Stony Till Plain

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Existing Transmission Lines

Water Features

Mapped Stream

Mapped Indefinite Stream

Mapped Lakes and Rivers

0100200 km

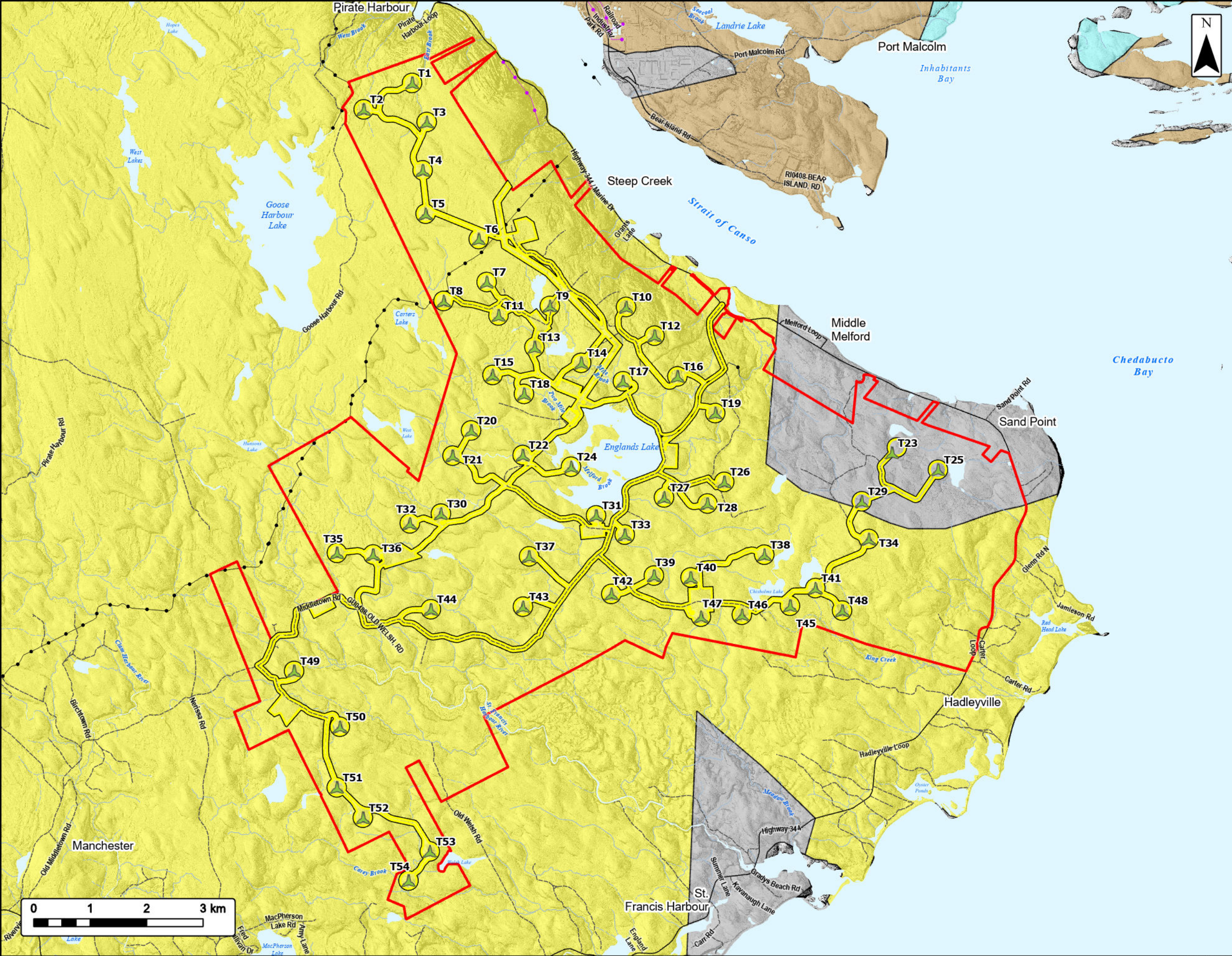
Coordinate System: NAD 1983 UTM Zone 20N

Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWL, HERE, Garmin, USGS

Date:	2025-09-22	Project #:	23-9204
Scale:	1:65,000	Drawing #:	7.6
Drawn By:	K. Wallace		
Checked By:	A. Doane		

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CONSULTING



Setapuktuk Wind Project

Bedrock Geology



Study Area

Assessment Area

Proposed Turbine Locations

Bedrock Geology By Formation

Cumberland Group

Mabou Group

Windsor Group: Cape Breton Island

Horton Group: Northern Mainland

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

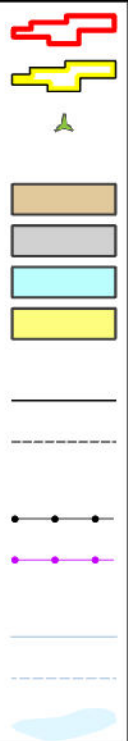
Existing Transmission Lines

Water Features

Mapped Stream

Mapped Indefinite Stream

Mapped Lakes and Rivers





Coordinate System: NAD 1983 UTM Zone 20N

Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWL, HERE, Garmin, USGS

Date: 2025-09-22

Scale: 1:65,000

Drawn By: K. Wallace

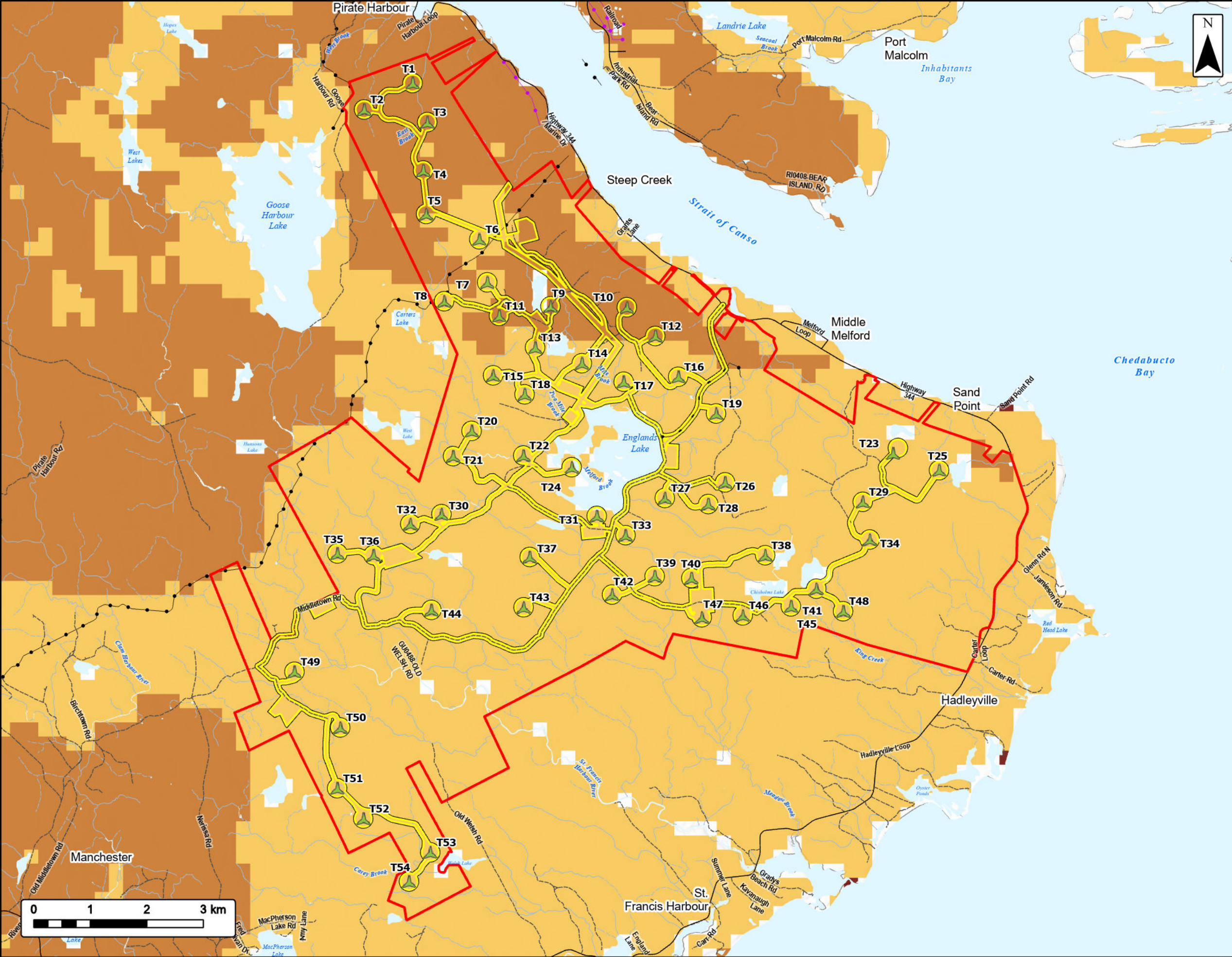
Checked By: A. Doane

Project #: 23-9204

Drawing #: 7.7



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Setapuktuk Wind Project

Radon Potential

Study Area

Assessment Area

Proposed Turbine Locations

Radon Potential

High

Medium

Low

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Existing Transmission Lines

Water Features

Mapped Stream

Mapped Indefinite Stream

Mapped Lakes and Rivers

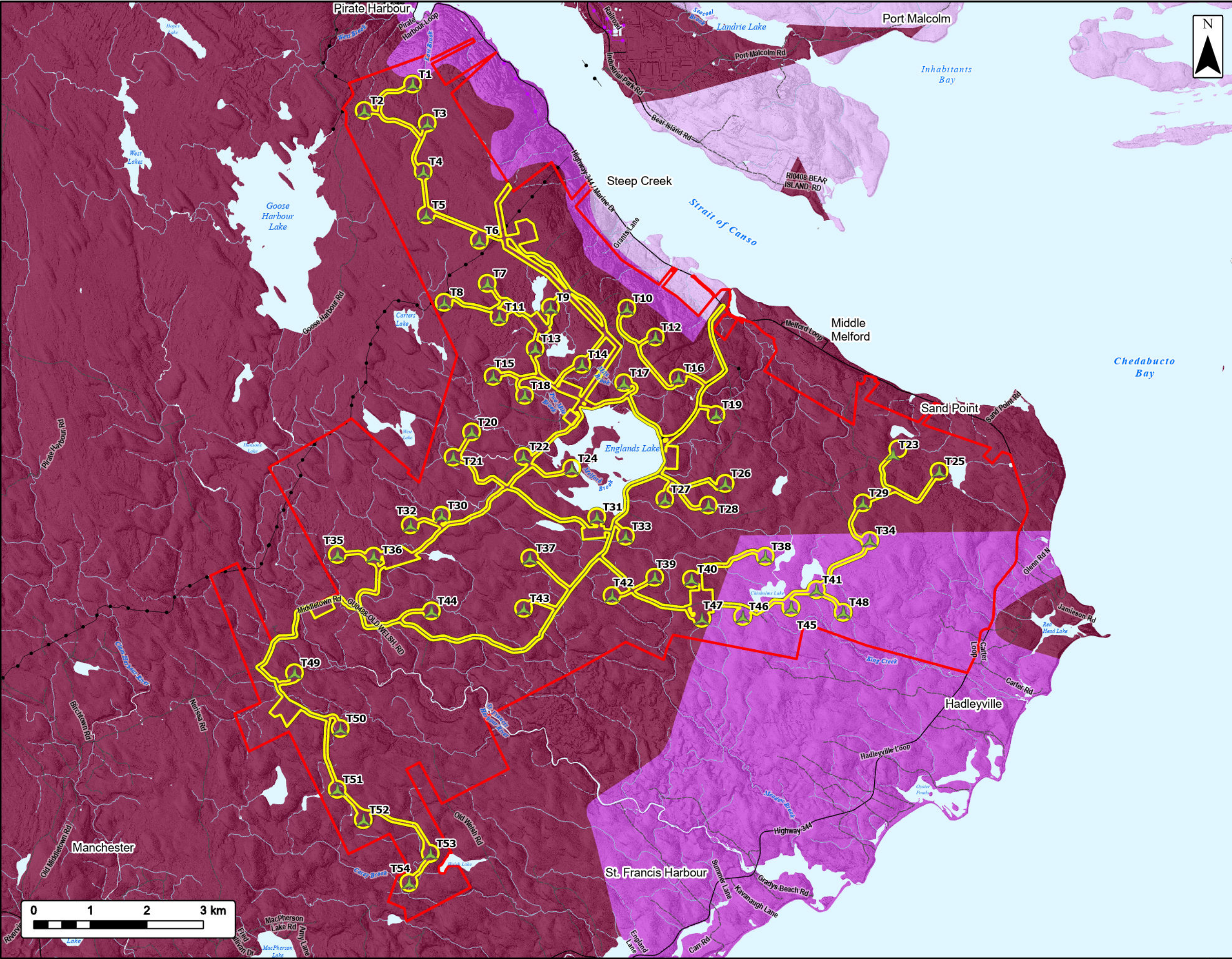
Coordinate System: NAD 1983 UTM Zone 20N

Sources: Esri, NASA, NGA, USGS, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-09-22	Project #:	23-9204
Scale:	1:65,000	Drawing #:	7.9
Drawn By:	K. Wallace		
Checked By:	A. Doane		

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CONSULTING



Setapuktuk Wind Project

Arsenic Risk in Bedrock Water Wells

Study Area

Assessment Area

Proposed Turbine Locations

Arsenic Risk in Bedrock Water Wells

High

Medium

Low

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Existing Transmission Lines

Water Features

Mapped Stream

Mapped Indefinite Stream

Mapped Lakes and Rivers

Coordinate System: NAD 1983 UTM Zone 20N

Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-09-22	Project #:	23-9204
Scale:	1:65,000	Drawing #:	7.10
Drawn By:	K. Wallace		
Checked By:	A. Doane		