

Melvin Lake Wind Project
Radon Potential



Study Area

Assessment Area

Proposed Turbine Layout

Radon Potential

High (171-275)

Medium (121-170)

Low (11-120)

Water Feature/No Data (0-10)

Transportation

Highway

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Existing Transmission Lines

Water Features

Mapped Stream

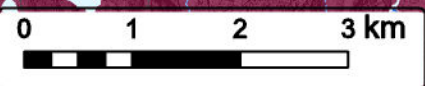
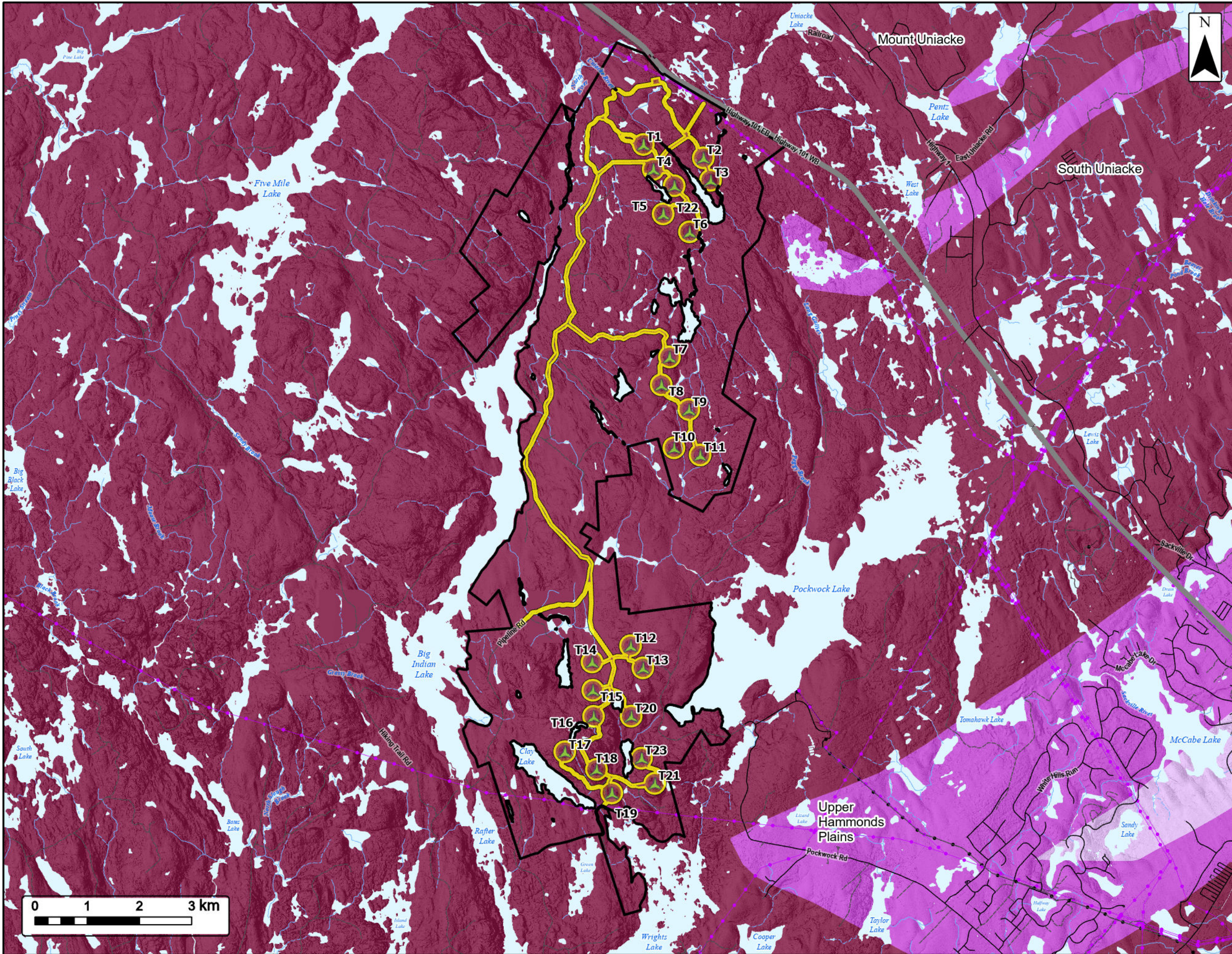
Mapped Indefinite Stream

Mapped Lakes and Rivers



Coordinate System: NAD83 UTM Zone 20N		Sources: Google Basemaps, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS	
Date:	Nov 2024	Project #:	24-9856
Scale:	1:70,000	Drawing #:	7.7
Drawn By:	M. Partridge		
Checked By:	H. Mosher		





Melvin Lake Wind Project
Arsenic Risk



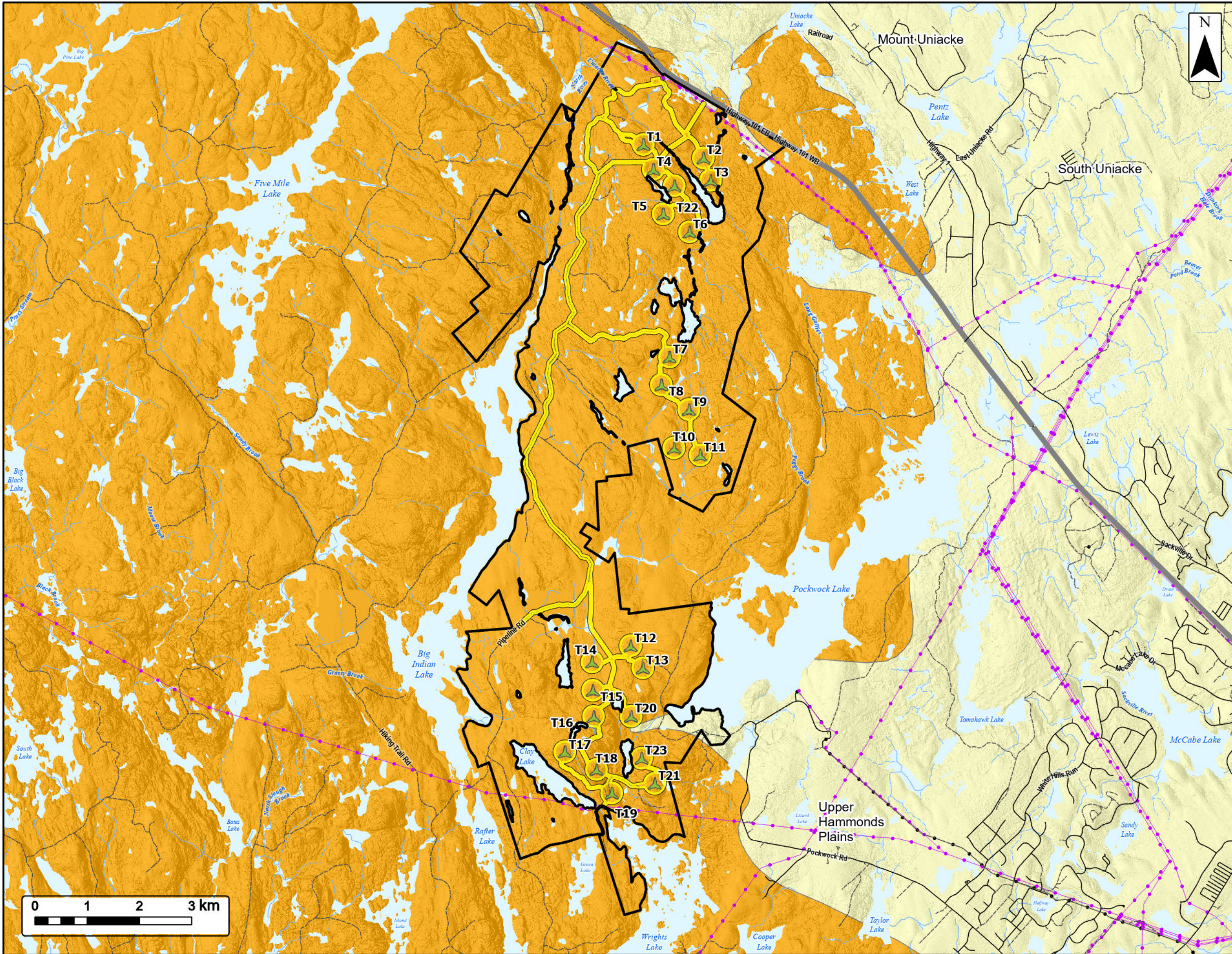
- Study Area
- Assessment Area
- Proposed Turbine Layout
- Arsenic Risk**
- High
- Medium
- Low
- Transportation**
- Highway
- Road
- Unpaved Road
- Utilities (Line)**
- Existing Pipeline
- Existing Transmission Lines
- Water Features**
- Mapped Stream
- Mapped Indefinite Stream
- Mapped Lakes and Rivers



Coordinate System: NAD83 UTM Zone 20N Sources: Google Basemaps, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date: Nov 2024	Project #: 24-9856
Scale: 1:70,000	Drawing #: 7.8
Drawn By: E. Johnson	7.8
Checked By: H. Mosher	





Melvin Lake Wind Project
Uranium Risk



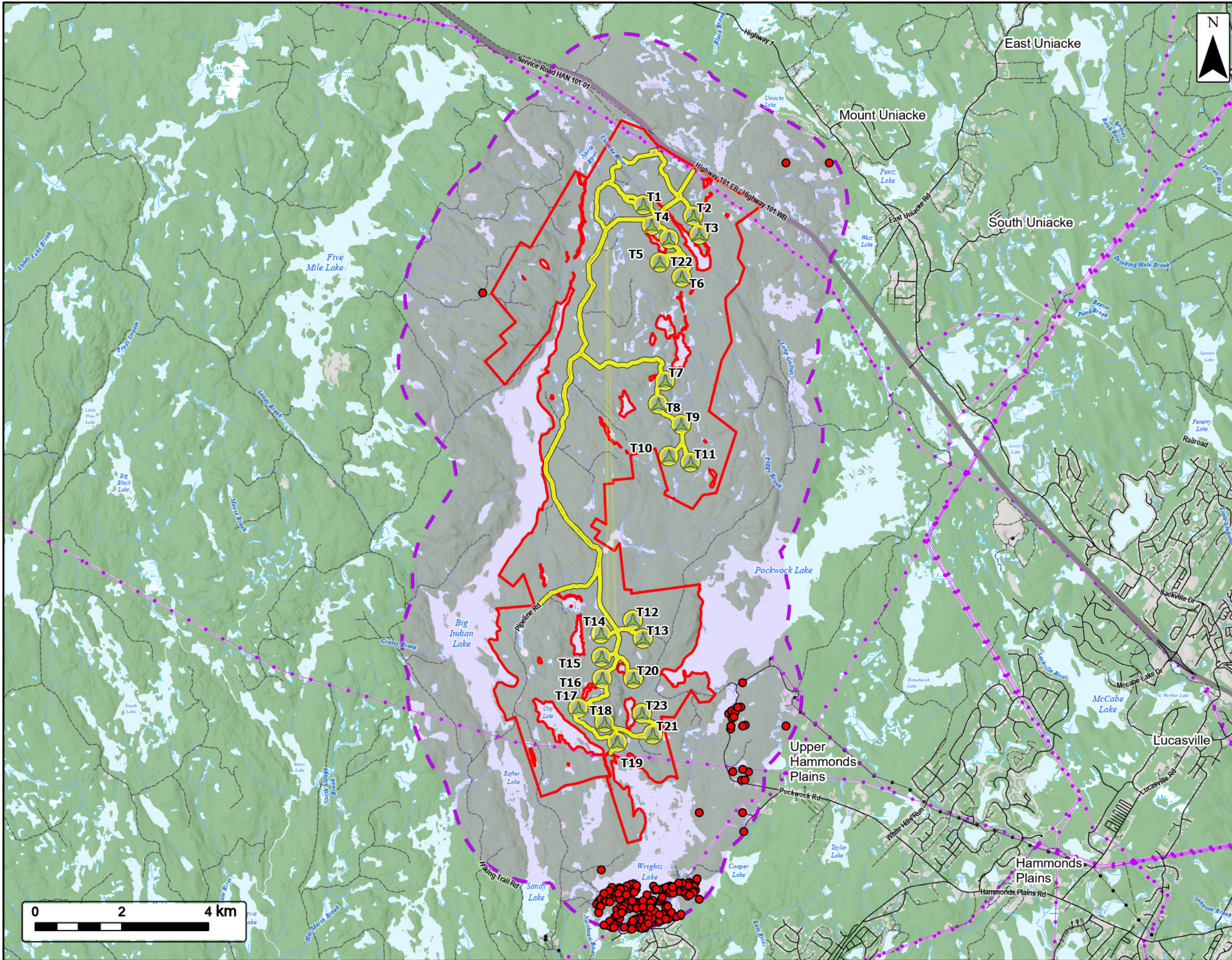
- Study Area
- Assessment Area
- Proposed Turbine Layout
- Relative Risk of Uranium in Bedrock Wells**
- High
- Low
- Transportation**
- Highway
- Road
- Unpaved Road
- Utilities (Line)**
- Existing Pipeline
- Existing Transmission Lines
- Water Features**
- Mapped Stream
- Mapped Indefinite Stream
- Mapped Lakes and Rivers



Coordinate System: NAD83 UTM Zone 20N Sources: Google Basemaps, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date: Nov 2024	Project #: 24-9856
Scale: 1:70,000	Drawing #: 7.9
Drawn By: K. Wallace	7.9
Checked By: H. Mosher	





Melvin Lake Wind Project

Nearby Wells



- Study Area
- Assessment Area
- Proposed Turbine Layout
- Groundwater Wells**
- Drilled Groundwater Well
- 2 km Assessment Area Buffer
- Transportation**
- Highway
- Road
- Unpaved Road
- Utilities (Line)**
- Existing Pipeline
- Existing Transmission Lines
- Water Features**
- Mapped Stream
- Mapped Indefinite Stream
- Mapped Lakes and Rivers
- Mapped Wetlands

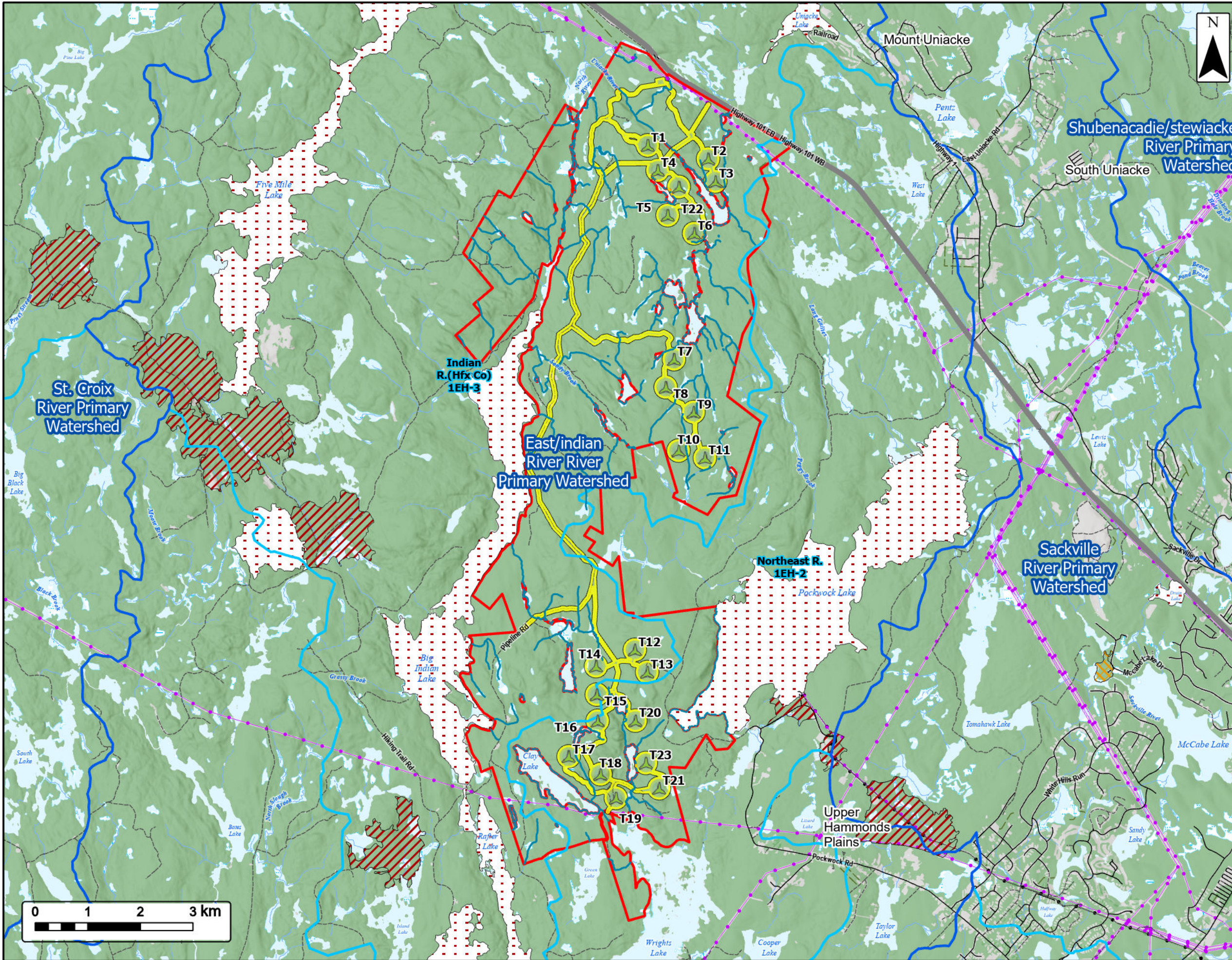


Coordinate System: NAD83 UTM Zone 20N Sources: Google Basemaps, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date: Nov 2024	Project #: 24-9856
Scale: 1:85,000	Drawing #: 7.10
Drawn By: E. Johnson	7.10
Checked By: H. Mosher	



Melvin Lake Wind Project
Desktop Freshwater



Study Area	
Assessment Area	
Proposed Turbine Layout	
Mapped Watercourses within Study Area	
Primary Watershed Boundary	
Secondary Watershed Boundary	
Significant Species and Habitats	
Other Habitat	
Species at Risk	
Species of Concern	
Utilities (Line)	
Existing Pipeline	
Existing Transmission Lines	
Transportation	
Highway	
Road	
Unpaved Road	
Water Features	
Mapped Stream	
Mapped Indefinite Stream	
Mapped Lakes and Rivers	
Mapped Wetlands	

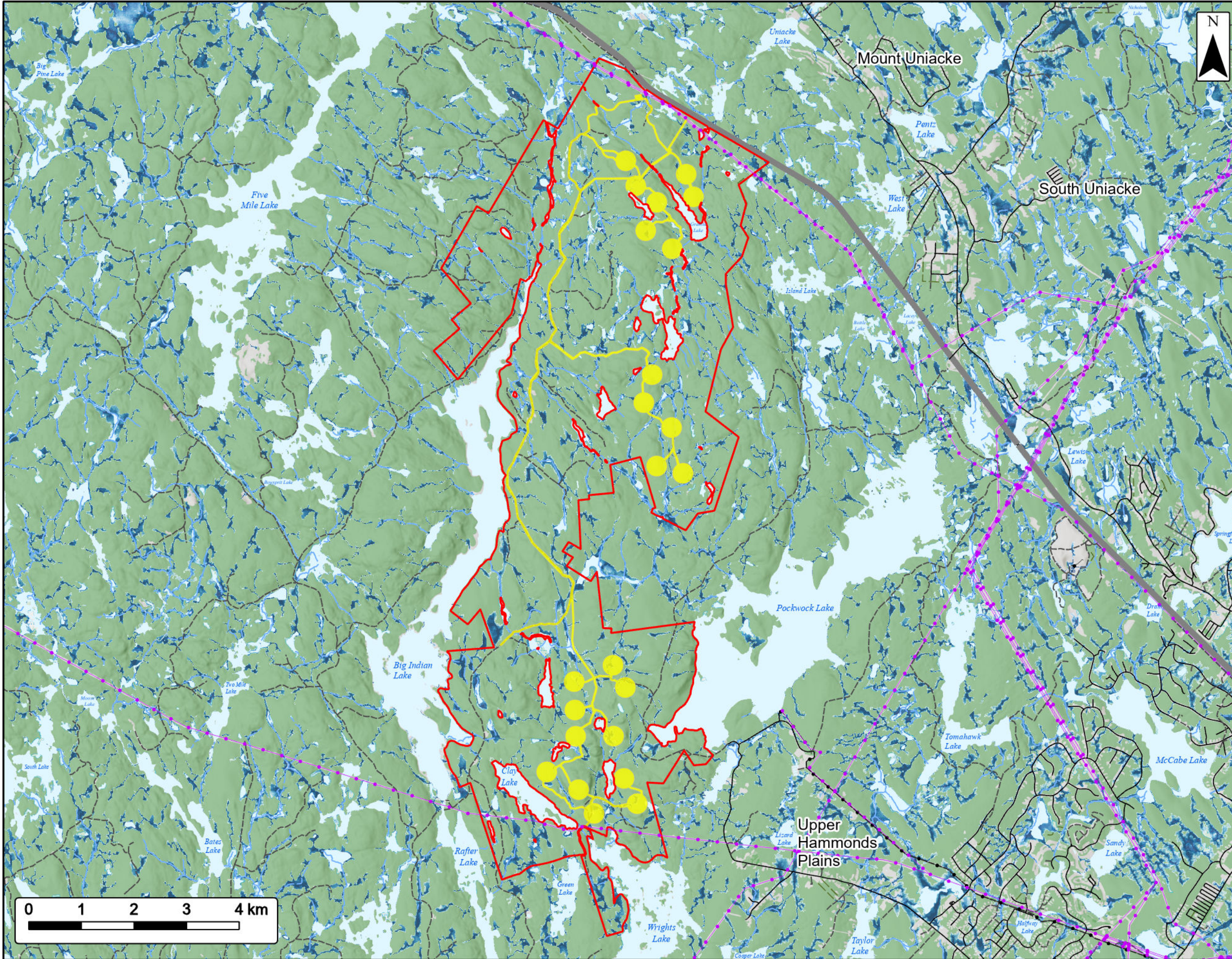


Coordinate System: NAD83 UTM Zone 20N Sources: Google Basemaps, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date: Nov 2024	Project #: 24-9856
Scale: 1:70,000	Drawing #: 7.11
Drawn By: K. Wallace	
Checked By: H. Mosher	



Melvin Lake Wind Project
Wet Area Mapping



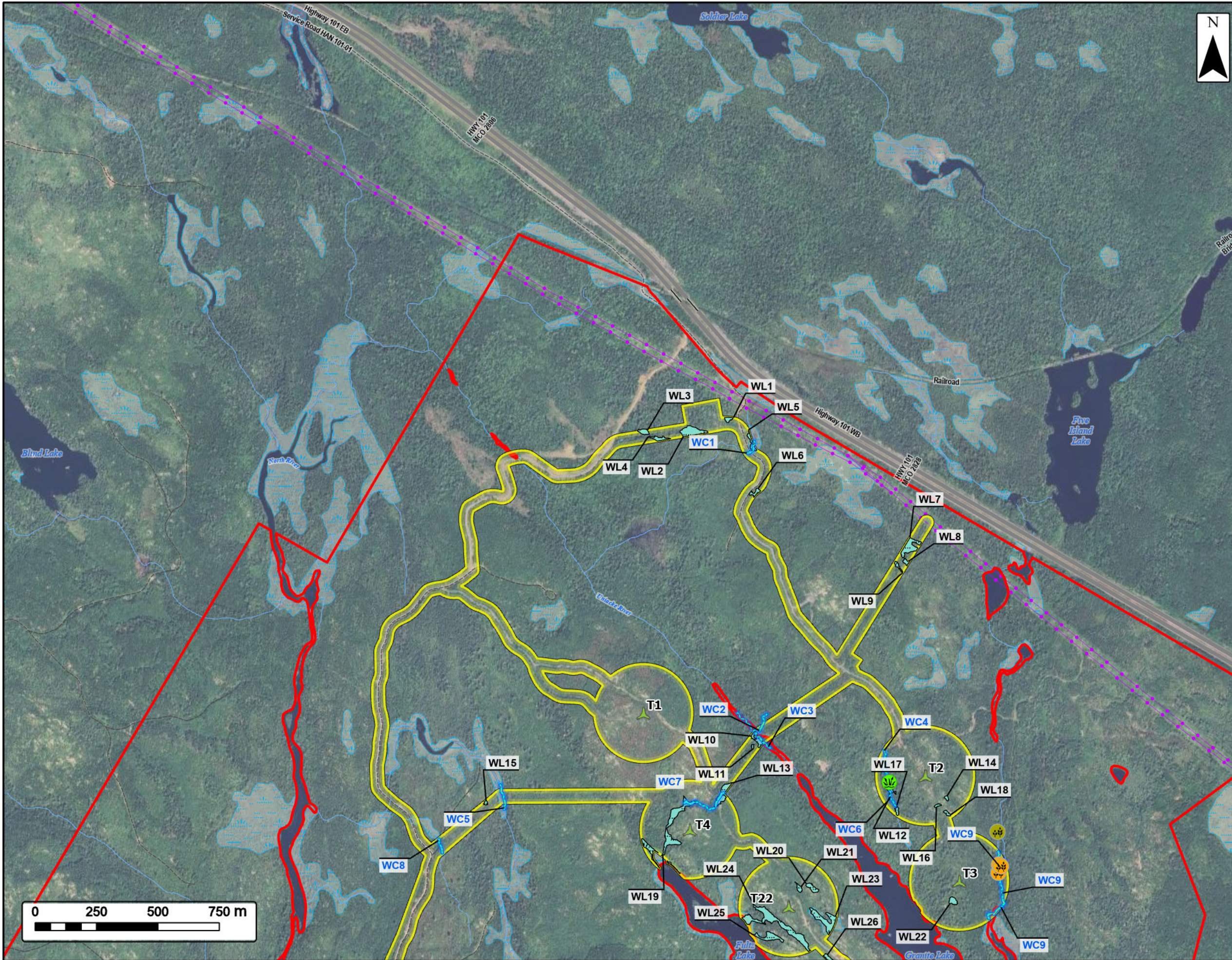
Study Area		Depth to Water (cm)	
Assessment Area		0 - 10	
Utilities (line)		10 - 20	
Existing Pipeline		20 - 30	
Existing Transmission Lines		30 - 40	
Transportation		40 - 50	
Highway		50 - 60	
Road		60 - 70	
Unpaved Road		70 - 80	
Water Features		80 - 90	
Mapped Stream		90 - 100	
Mapped Indefinite Stream			
Mapped Lakes and Rivers			
Mapped Wet Areas			



Coordinate System: NAD83 UTM Zone 20N Sources: ESRI Basemaps, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	Nov 2024	Project #:	24-9856
Scale:	1:70,000	Drawing #:	7.12
Drawn By:	K. Wallace		
Checked By:	H. Mosher		



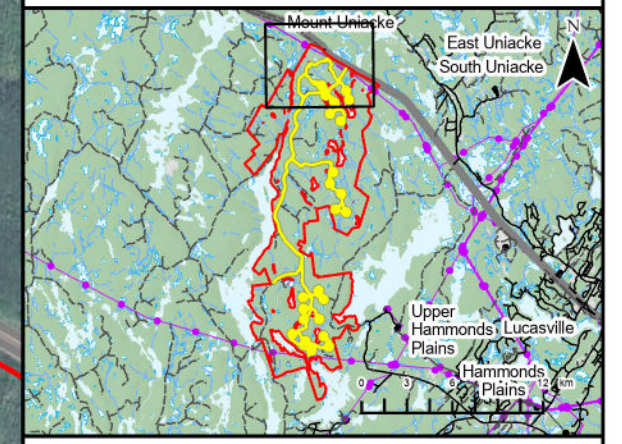


Melvin Lake Wind Project

Field Results



Study Area	Transportation	Utilities (Line)
Assessment Area	Highway	Existing Transmission Lines
Proposed Turbine Layout	Road	Mapped Wetlands
Field Delineated Watercourse	Unpaved Road	
Field Delineated Wetland		
Fringe Lichen		
Powdered Fringe Lichen		
Southern Twayblade		



Coordinate System: NAD83 UTM Zone 20N
 Sources: Google Basemaps, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date: Nov 2024	Project #: 24-9856
Scale: 1:15,000	Drawing #: 7.13A
Drawn By: K. Wallace	
Checked By: H. Mosher	

