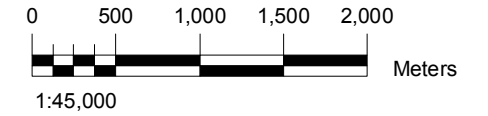
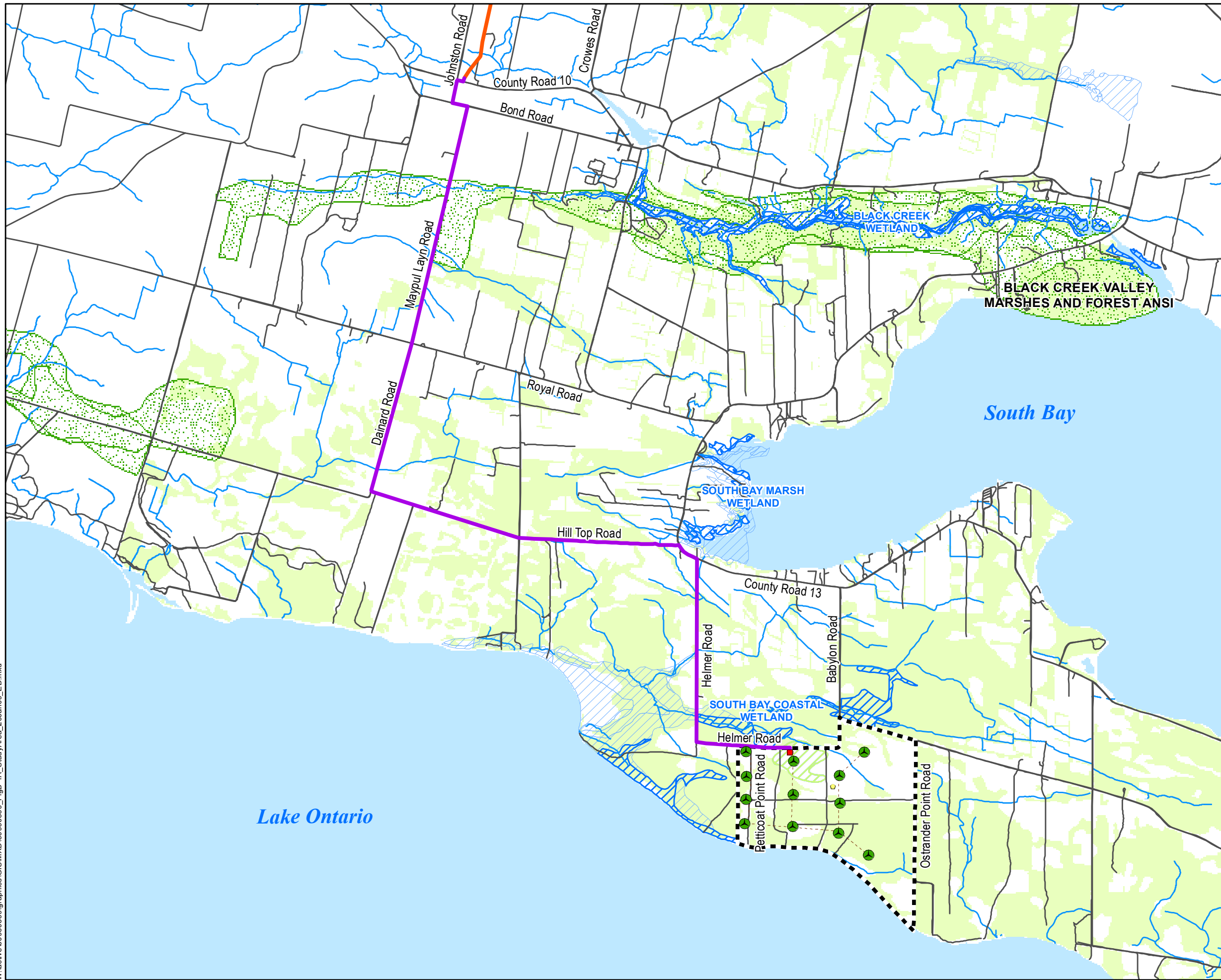


# **Appendix B**

## **Baseline Figures**

W:\active\60960369\graphics\GIS\MXD\60960369\_FigB-1A\_StudyArea\_20Jan09\_ED.mxd



- Study Area
- Existing Roads
- Existing Transmission Line
- Proposed Transmission Line
- Proposed Access Roads
- Watercourses
- Wetland - Mapped but not present (pending MNR confirmation)
- Wetlands - Provincial
- Wetlands - Unevaluated
- Waterbody
- ANSI
- Wooded Area
- MET Tower
- Turbine
- Transformer Station

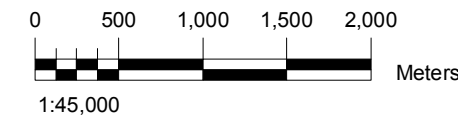
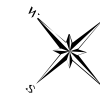
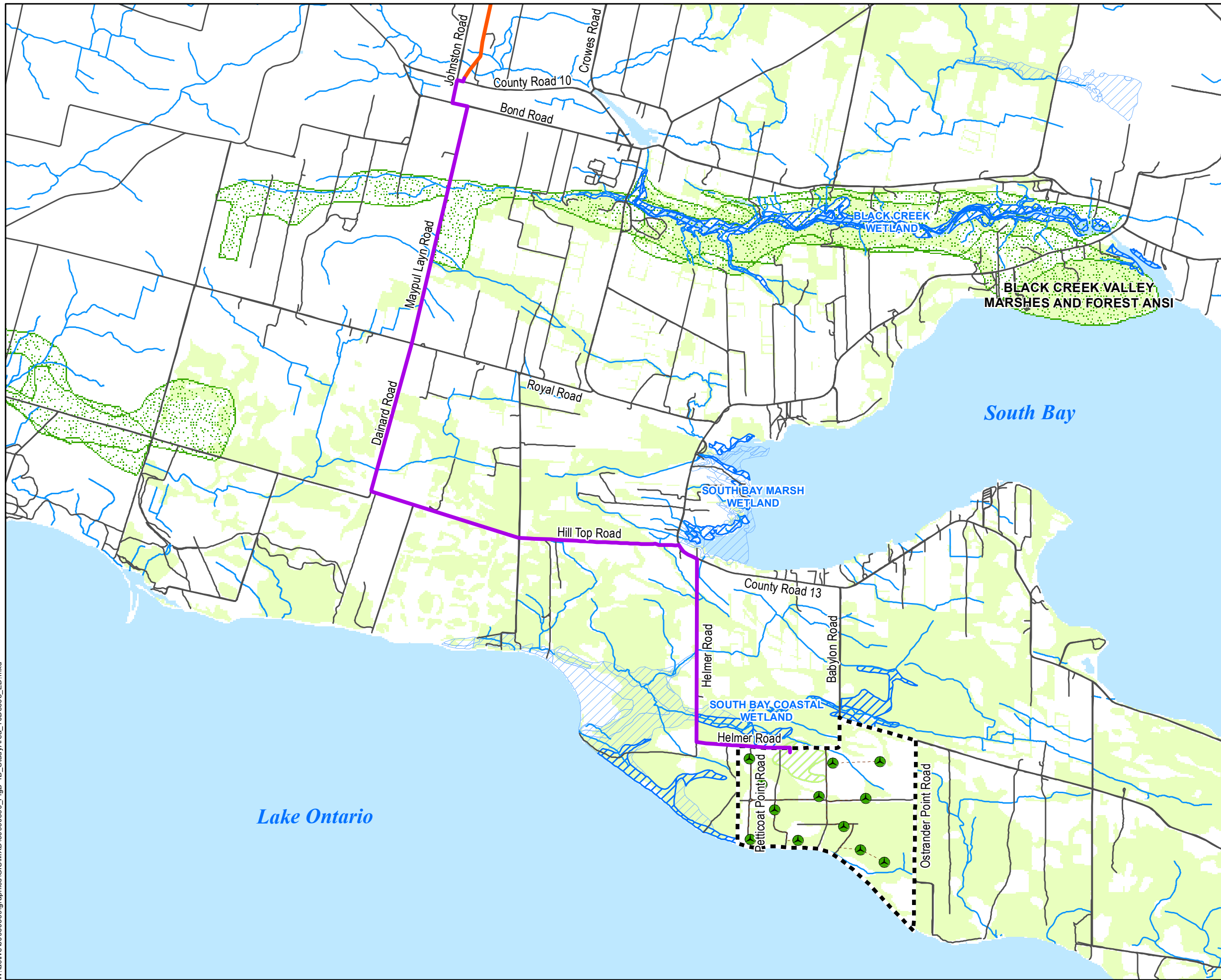
PREPARED FOR:  
GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

FIGURE NO. B - 1(A)

## STUDY AREA AND TURBINE LAYOUT #4 (Final Turbine Layout)

Initiated: April, 2008  
Revised: January 20, 2009

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- Study Area
- Existing Roads
- Existing Transmission Line
- Proposed Transmission Line
- Proposed Access Roads
- Watercourses
- Wetland - Mapped but not present (pending MNR confirmation)
- Wetlands - Provincial
- Wetlands - Unevaluated
- Waterbody
- ANSI
- Wooded Area
- Turbine (January 17, 2008)

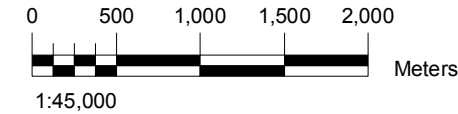
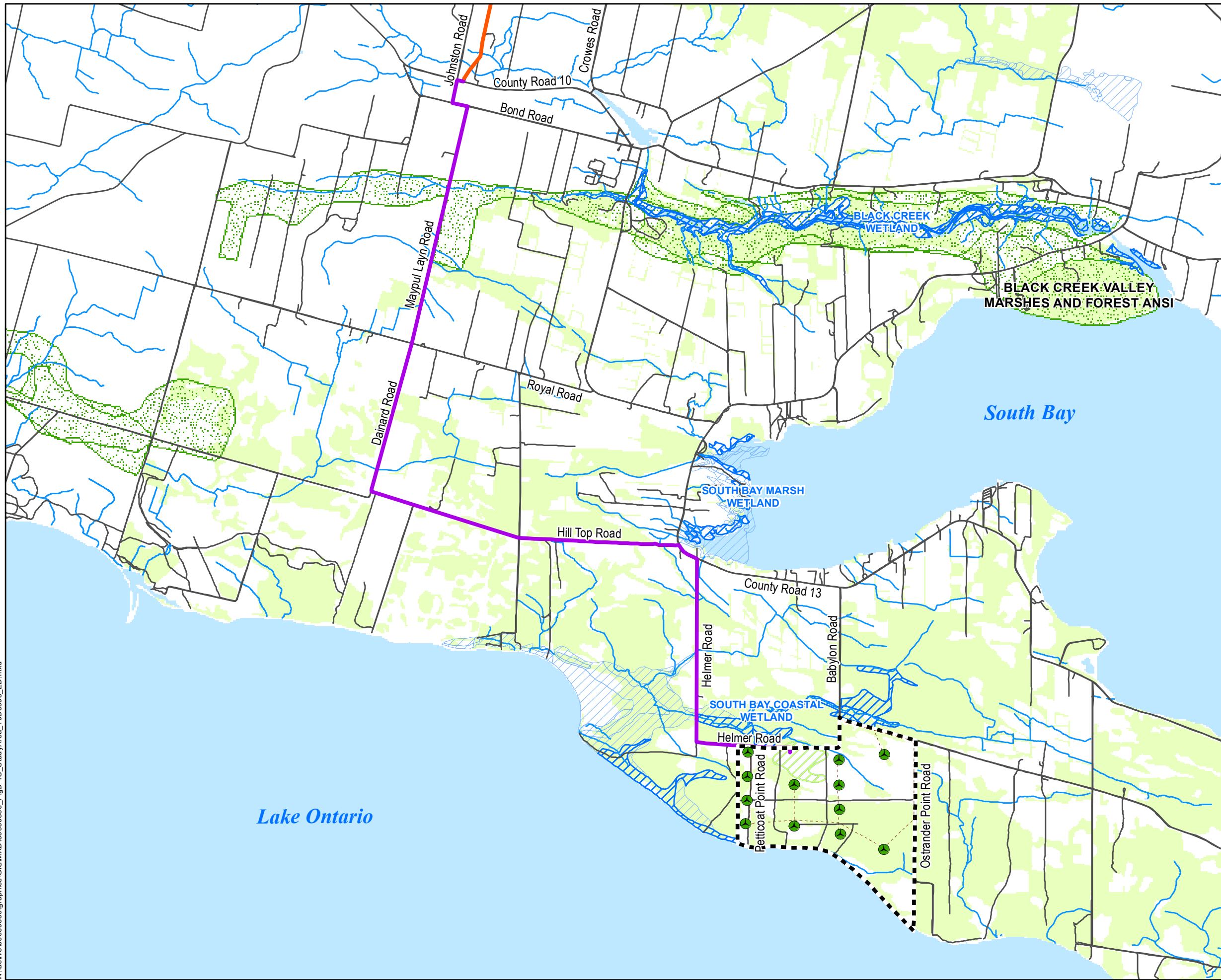
PREPARED FOR:  
GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

**FIGURE NO. B - 1(B)**

## STUDY AREA AND TURBINE LAYOUT #1 - January 17, 2008

Initiated: April, 2008  
Revised: December 10, 2008

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- Study Area
- Existing Roads
- Existing Transmission Line
- Proposed Transmission Line
- Proposed Access Roads
- Watercourses
- Wetland - Mapped but not present (pending MNR confirmation)
- Wetlands - Provincial
- Wetlands - Unevaluated
- Waterbody
- ANSI
- Wooded Area
- Turbine (August 28, 2008)

PREPARED FOR:  
GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

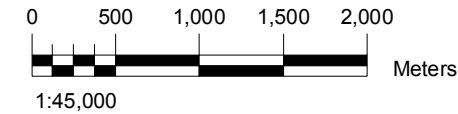
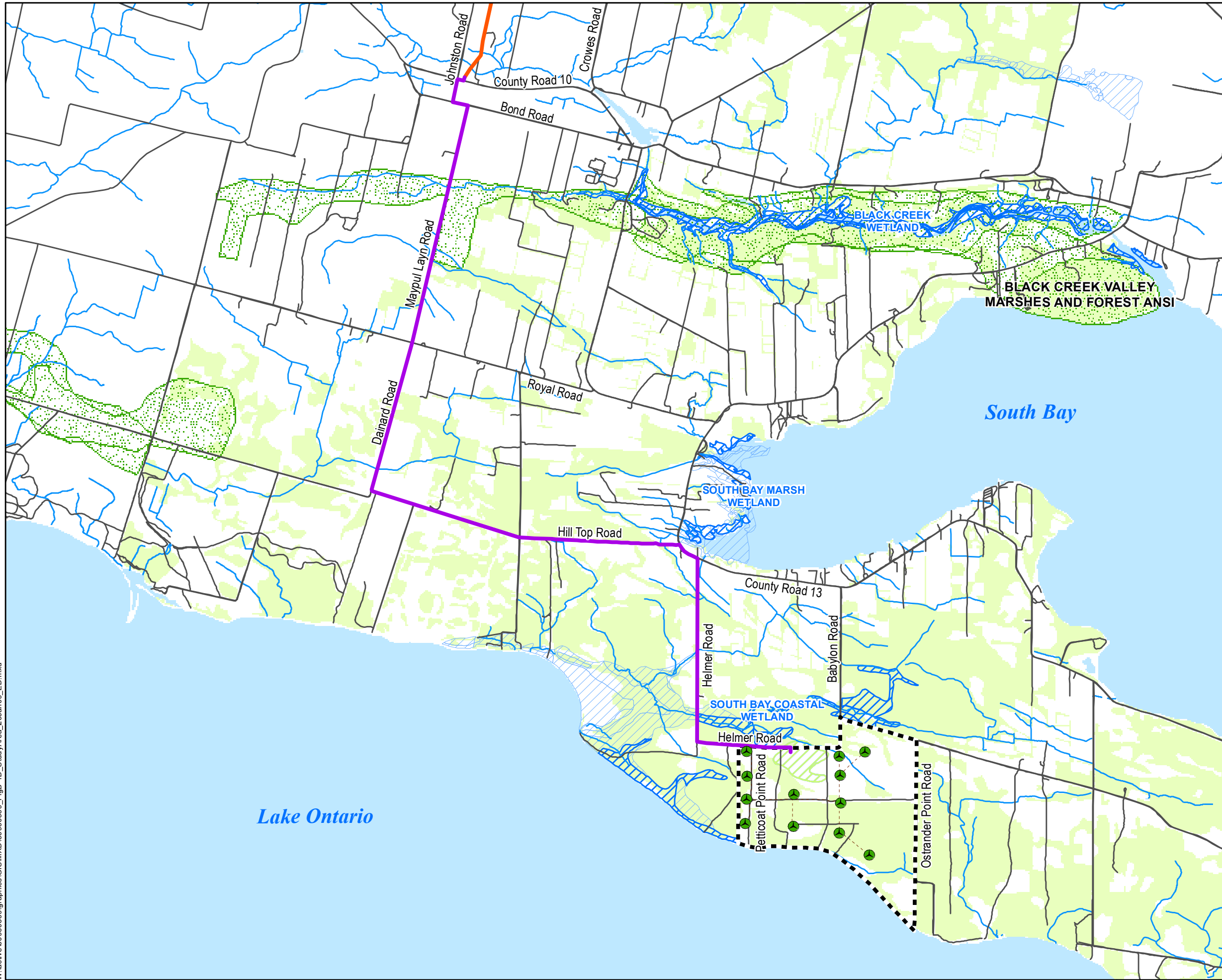
FIGURE NO. B - 1(C)

## STUDY AREA AND TURBINE LAYOUT #2 - August 28, 2008

Initiated: April, 2008  
Revised: December 10, 2008



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- Study Area
- Existing Roads
- Existing Transmission Line
- Proposed Transmission Line
- Proposed Access Roads
- Watercourses
- Wetland - Mapped but not present (pending MNR confirmation)
- Wetlands - Provincial
- Wetlands - Unevaluated
- Waterbody
- ANSI
- Wooded Area
- Turbine

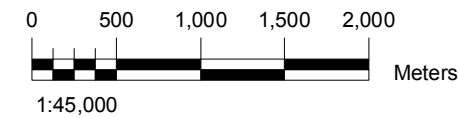
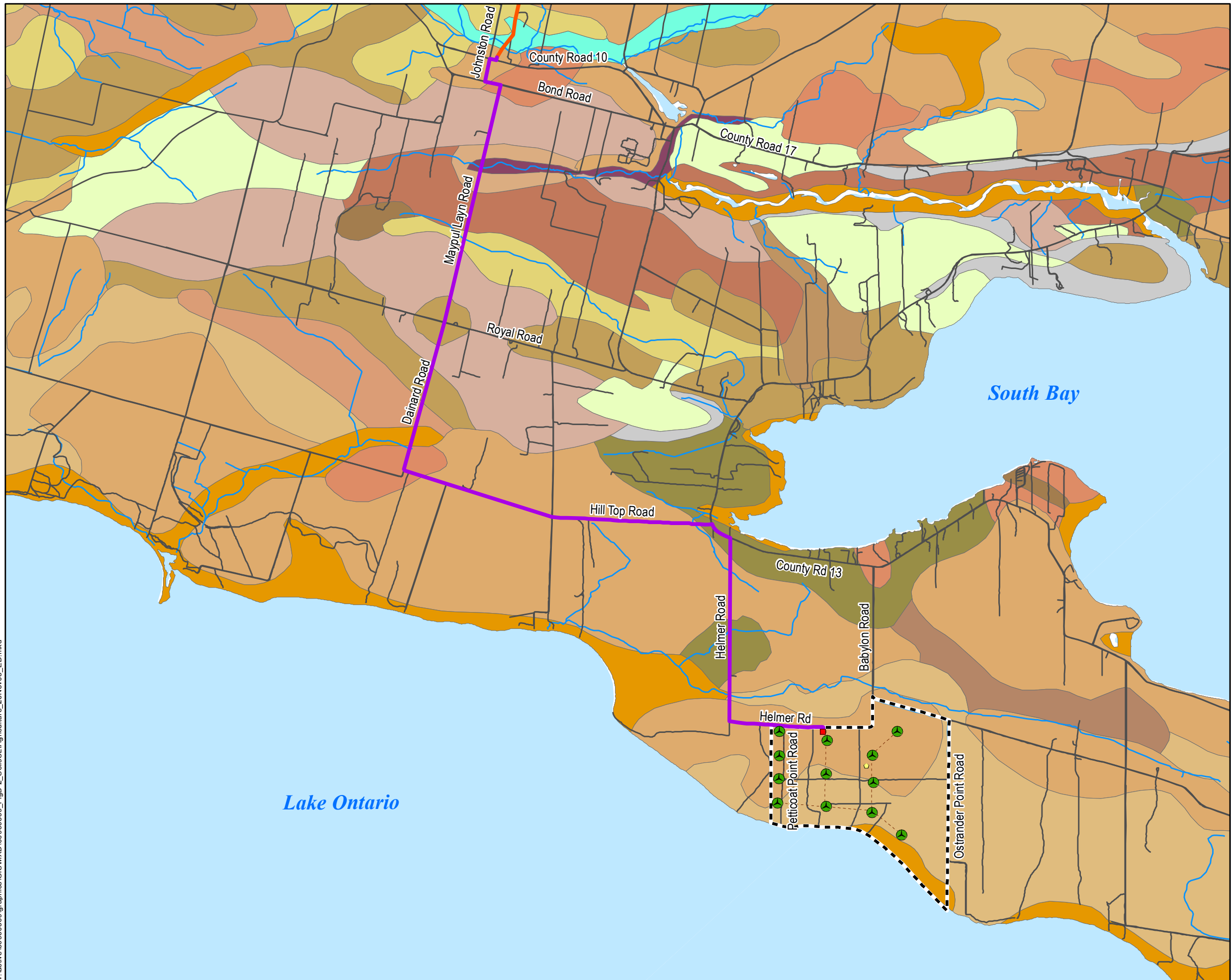
PREPARED FOR:  
GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

FIGURE NO. B - 1(D)

## STUDY AREA AND TURBINE LAYOUT #3 - November 2008

Initiated: April, 2008  
Revised: January 20, 2009

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- Study Area
  - Existing Roads
  - Existing Transmission Line
  - Proposed Transmission Line
  - Proposed Access Roads
  - Watercourses
  - Waterbody
  - MET Tower
  - Turbine
  - Transformer Station
- Soil Type - CLI Capability Class**
- AMELIASBURG CLAY LOAM - 2
  - AMELIASBURG LOAM - 2
  - ATHOL SANDY LOAM - 3
  - BOTTOM LAND - 6
  - BRIGHTON SANDY LOAM - 2
  - ELMBROOK CLAY - 1
  - FARMINGTON LOAM - 6
  - FARMINGTON LOAM - IMPERFECTLY DRAINED PHASE - 6
  - GEROW CLAY LOAM - 5
  - GRANBY SANDY LOAM - 4
  - MARSH - 0
  - MUCK - 0
  - PERCY FINE SANDY LOAM - 1
  - ROCK - 7
  - SOUTH BAY CLAY - 1
  - SOUTH BAY CLAY LOAM - 1
  - TECUMSETH SANDY LOAM - 2
  - WAUPOOS CLAY - 1

PREPARED FOR:  
GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

FIGURE NO. B - 2

## SOILS\*/CLI (AGRICULTURE)\*\*

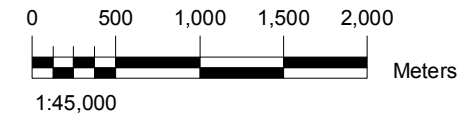
\* after Richards and Morwich 1948  
\*\* after ARDA 1964

Initiated: April, 2008  
Revised: January 20, 2009

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Stantec



- Study Area
- Existing Roads
- Existing Transmission Line
- Proposed Transmission Line
- Proposed Access Roads
- Watercourses
- Wetland - Mapped but not present (pending MNR confirmation)
- Wetlands - Provincial
- Wetlands - Unevaluated
- Waterbody
- ANSI
- Wooded Area
- MET Tower
- Turbine
- Transformer Station
- Aquatic Assessment Sampling Locations\*

\* 1-7 - October 23, 2008  
A-V - October 16, 2008

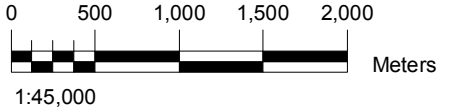
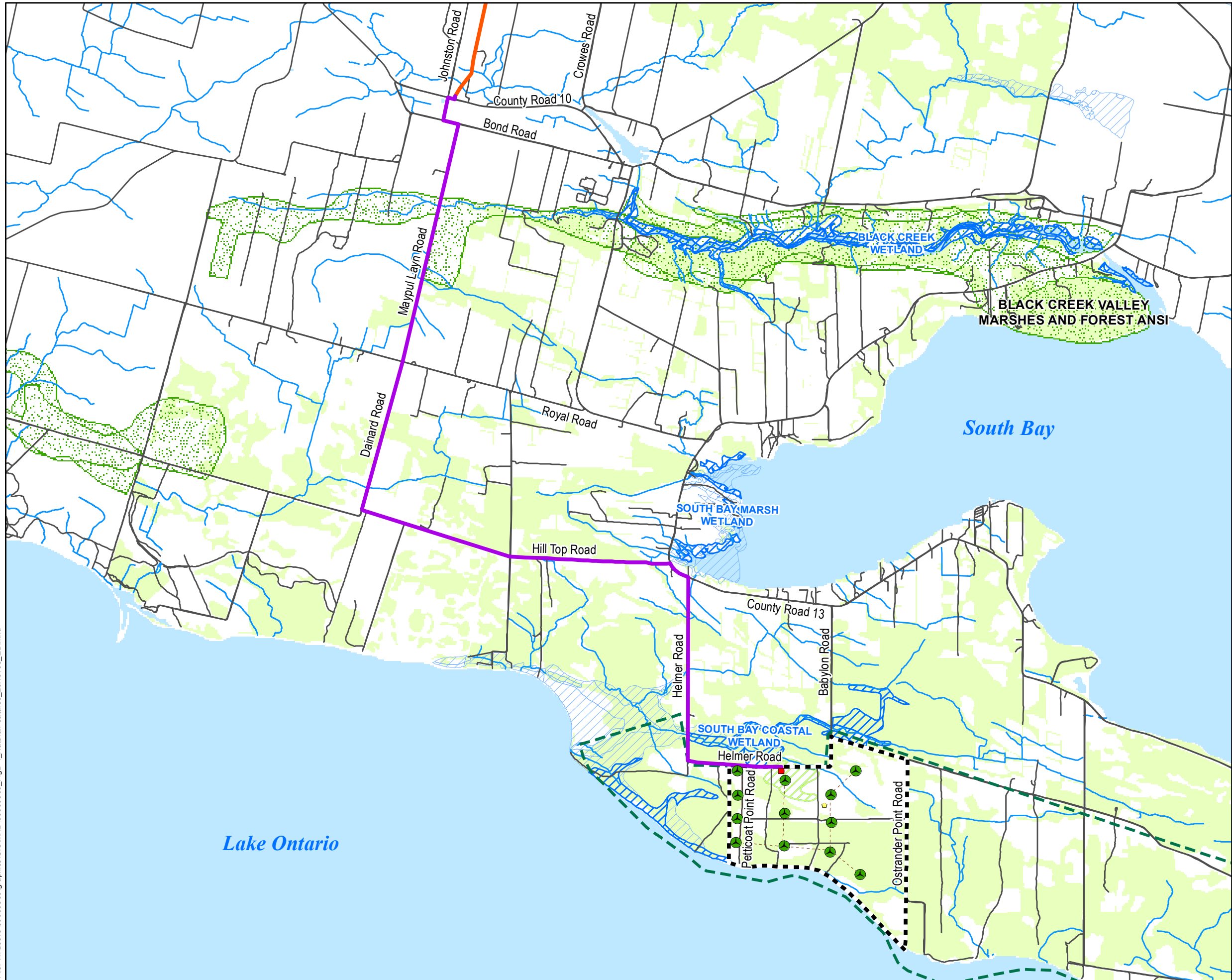
PREPARED FOR:  
GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

FIGURE NO. B - 3

## AQUATIC ASSESSMENT SAMPLING LOCATIONS

Initiated: April, 2008  
Revised: December 11, 2008





- Study Area
- Existing Roads
- Existing Transmission Line
- Proposed Transmission Line
- Proposed Access Roads
- Watercourses
- Wetland - Mapped but not present (pending MNR confirmation)
- Wetlands - Provincial
- Wetlands - Unevaluated
- Waterbody
- ANSI
- Wooded Area
- Candidate ANSI
- MET Tower
- Turbine
- Transformer Station

PREPARED FOR:  
GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

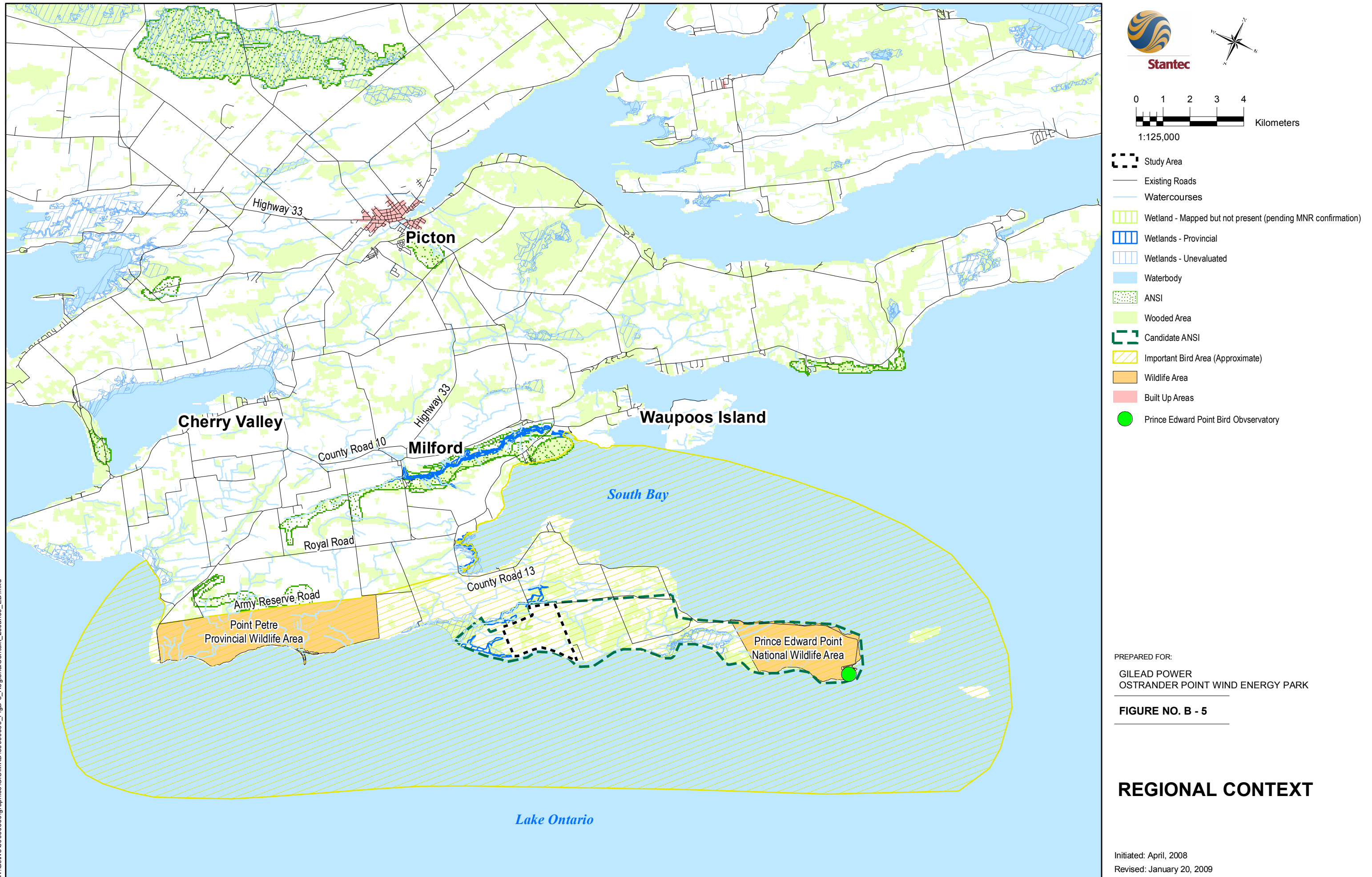
FIGURE NO. B - 4

## NATURAL FEATURES

Initiated: April, 2008  
Revised: January 20, 2009



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Stantec



- Study Area
- Existing Roads
- Proposed Transmission Line
- Proposed Access Roads
- Watercourses
- ELC Vegetation Communities
- MET Tower
- Turbine
- Transformer Station

ALO1-4 Poverty Grass Open Alvar Meadow  
ALS1-1 Common Juniper Shrub Alvar

ALT/SWD Bur Oak Treed Alvar / Red Ash Deciduous Swamp Complex

FOC2-1 Red Cedar Coniferous Forest  
FOM Red Cedar / Bur Oak Mixed Forest

SWD2-2 Red Ash Mineral Deciduous Swamp  
SWD4-1 Crack Willow Mineral Deciduous Swamp  
SWT Mineral Thicket Swamp

MAS2-4 Broad-leaved Sedge Mineral Shallow Marsh

PREPARED FOR:  
GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

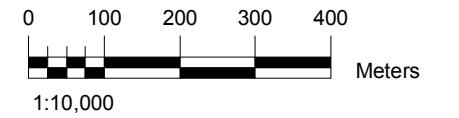
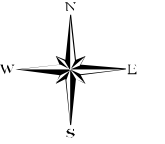
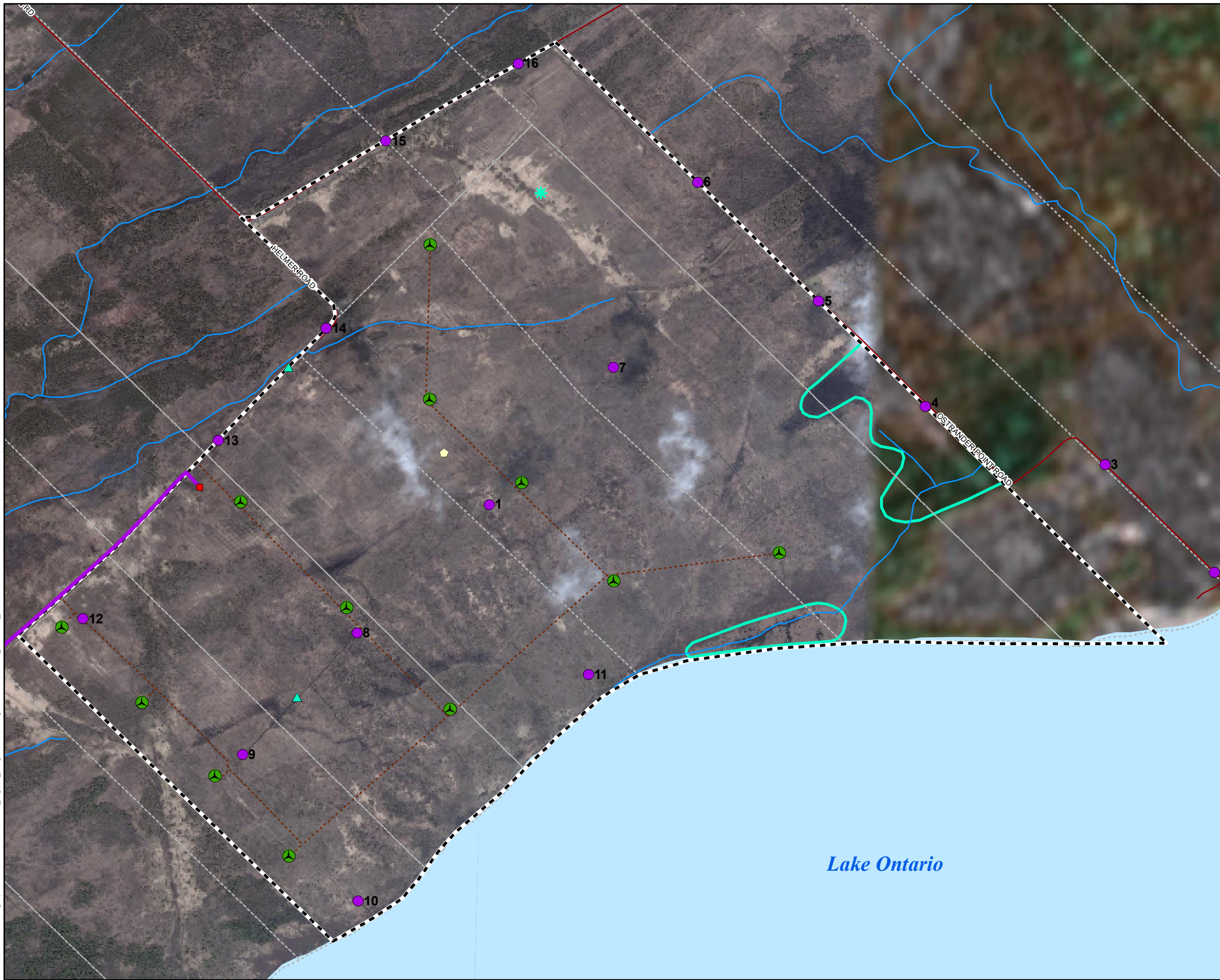
FIGURE NO. B-6

## ELC VEGETATION COMMUNITIES

Initiated: April, 2008  
Revised: January 20, 2009



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- Study Area
- Existing Roads
- Proposed Transmission Line
- Proposed Access Roads
- Watercourses
- Waterbody
- Property Line
- Year Round Blanding's Turtle Habitat (Including Over Wintering and Summer Refuge)
- MET Tower
- Turbine
- Transformer Station
- Frog Monitoring Stations
- Blanding's Turtle Nest
- Blanding's Turtle Observation

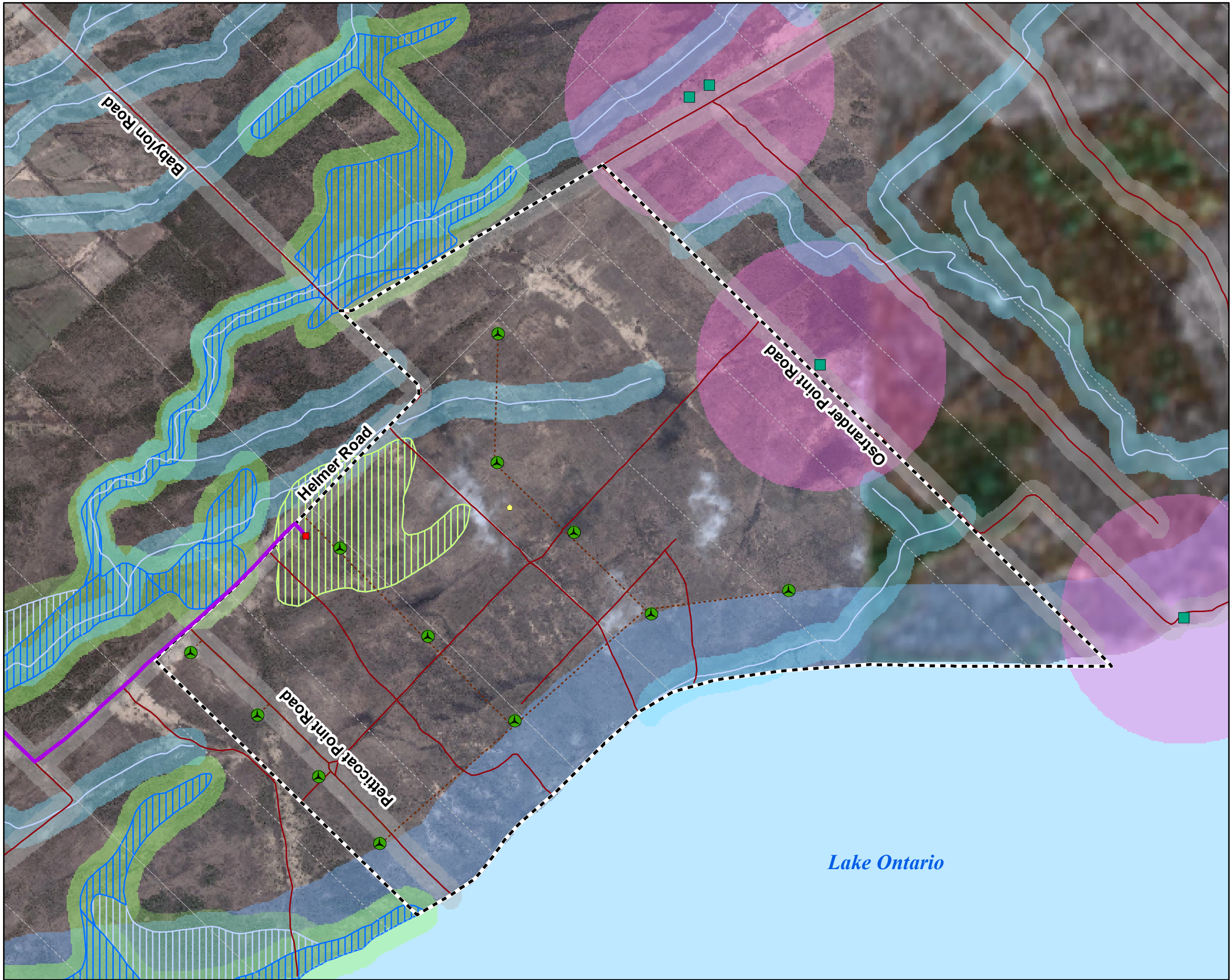
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GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

**FIGURE NO. B-7**

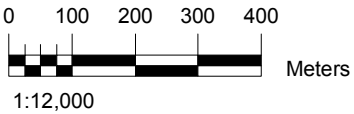
## FROG AND BLANDING'S TURTLE LOCATIONS

Initiated: November 21, 2008  
Revised: January 20, 2009

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- Study Area
- Existing Roads
- Proposed Access Roads
- Proposed Transmission Line
- Property Lines
- Watercourses
- MET Tower
- Turbine
- Transformer Station
- Buildings
- Wetland - Mapped but not present (pending MNR confirmation)
- Wetlands - Provincial
- Wetlands - Unevaluated
- Waterbody
- Lake Ontario - 250 m Setback
- Buildings - 400 m Setback
- Wetlands - 60 m Setback
- Watercourse - 60 m Setback
- Existing Roads - 50 m Setback

PREPARED FOR:  
GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

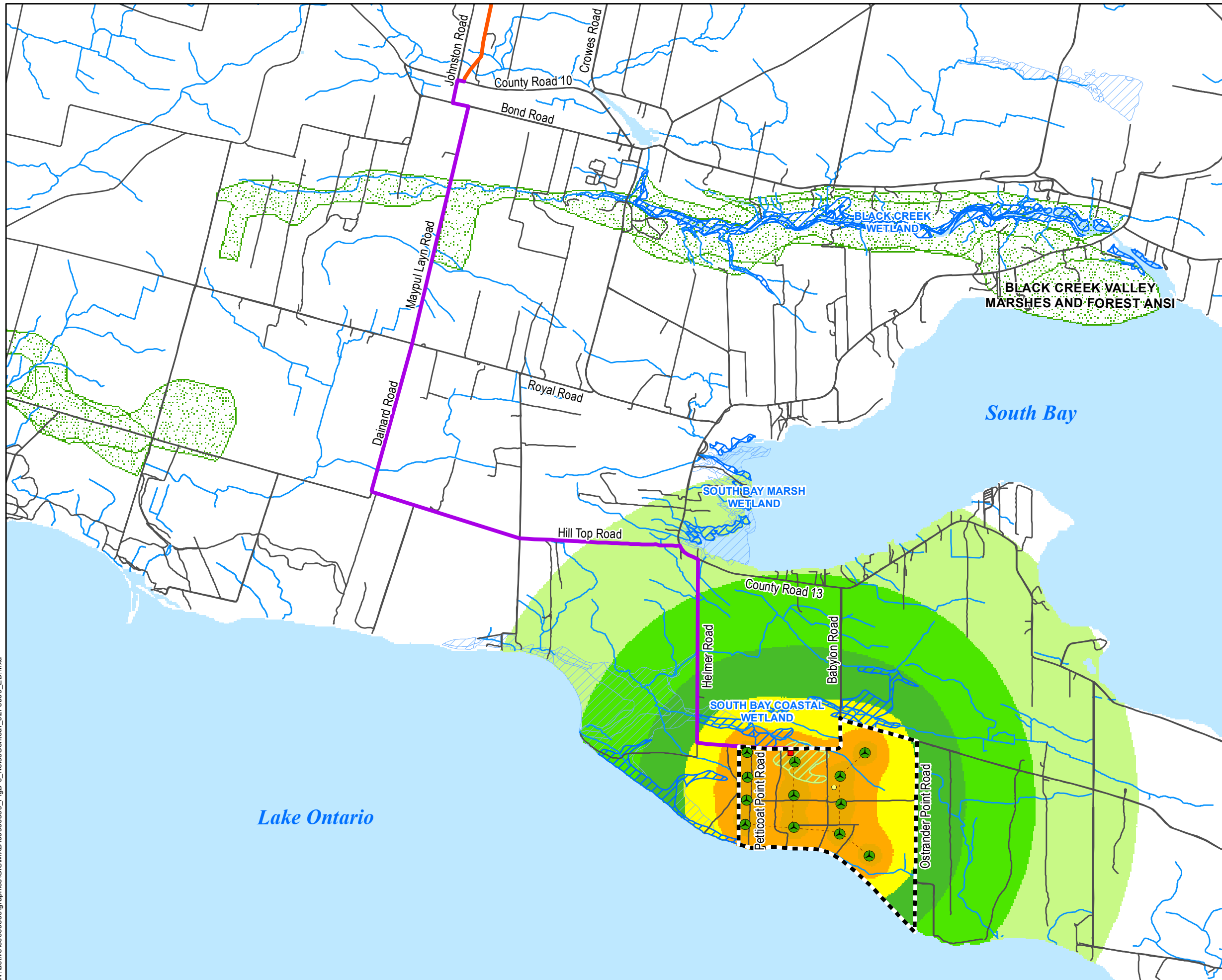
FIGURE NO. B-8

## CONSTRAINTS MAP

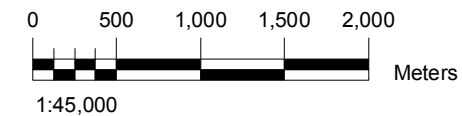
Initiated: November 21, 2008  
Revised: January 20, 2009



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Stantec



- Study Area
- Existing Roads
- Existing Transmission Line
- Proposed Transmission Line
- Proposed Access Roads
- Watercourses
- Wetland - Mapped but not present (pending MNR confirmation)
- Wetlands - Provincial
- Wetlands - Unevaluated
- Waterbody
- ANSI
- MET Tower
- Turbine
- Transformer Station
- Noise (6 m/s at 10 m height)**
  - 0 - 25 dB(A)
  - 25 - 30 dB(A)
  - 30 - 35 dB(A) \*
  - 35 - 40 dB(A)
  - 40 - 45 dB(A)
  - 45 - 50 dB(A)
  - 50 - 60 dB(A)
  - 60 - 110 dB(A)

\* Wind induced background sound level (6 m/s at 10 m height)

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GILEAD POWER  
OSTRANDER POINT WIND ENERGY PARK

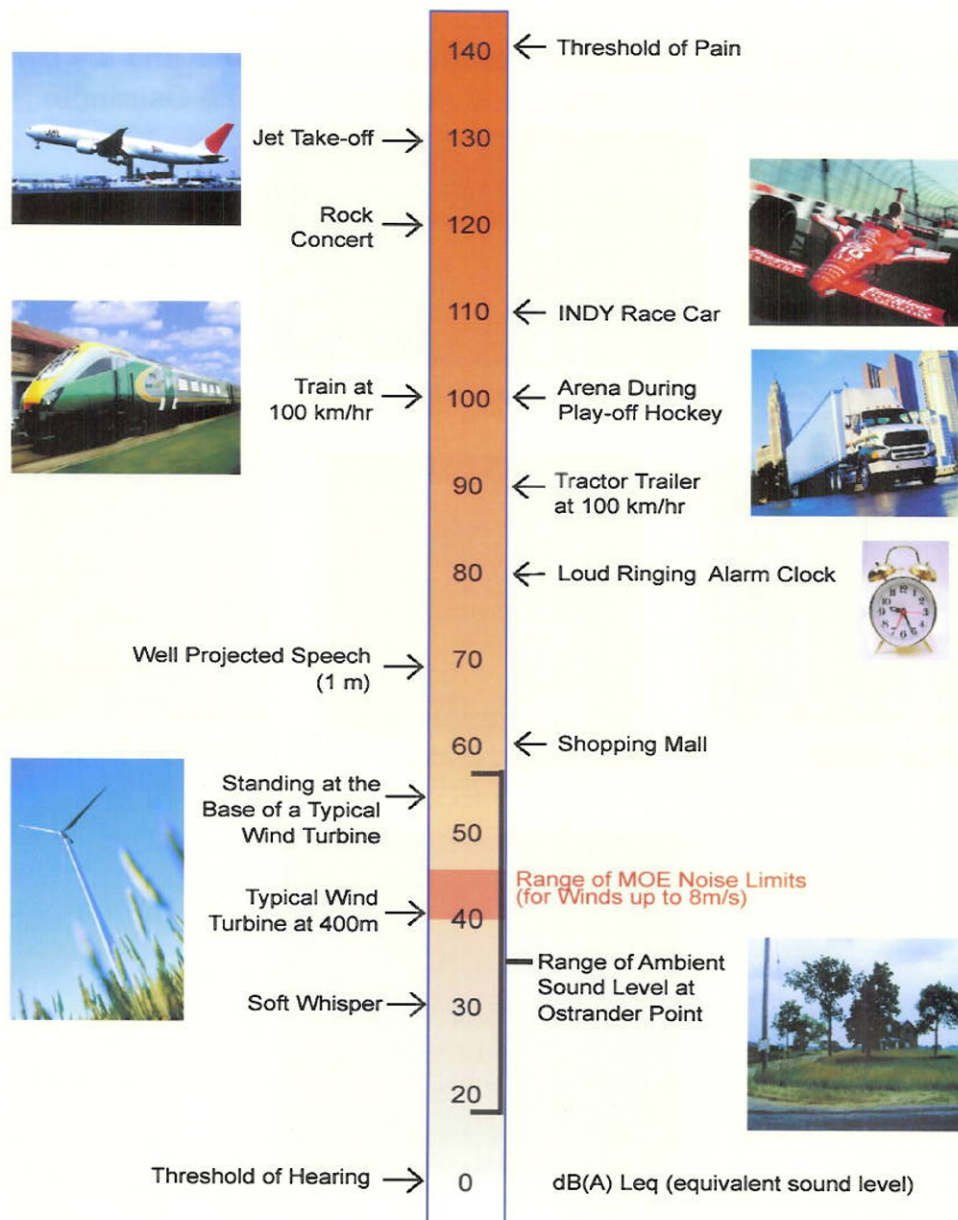
**FIGURE NO. B-9**

## NOISE CONTOUR

Initiated: April, 2008  
Revised: January 21, 2009

If you were to stand 400 metres from the kind of wind turbine we are proposing to build at Ostrander Point, the sound coming from the blades would be softer than normal conversation (typically 60 to 70 decibels).

This chart shows sound levels in several other common applications.



PREPARED FOR:

GILEAD POWER  
OSTRANDER POINT WINDER ENERGY PARK

**FIGURE NO. B-10**

## NOISE COMPARISON

Initiated: January 21, 2009

Revised: