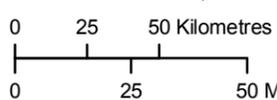


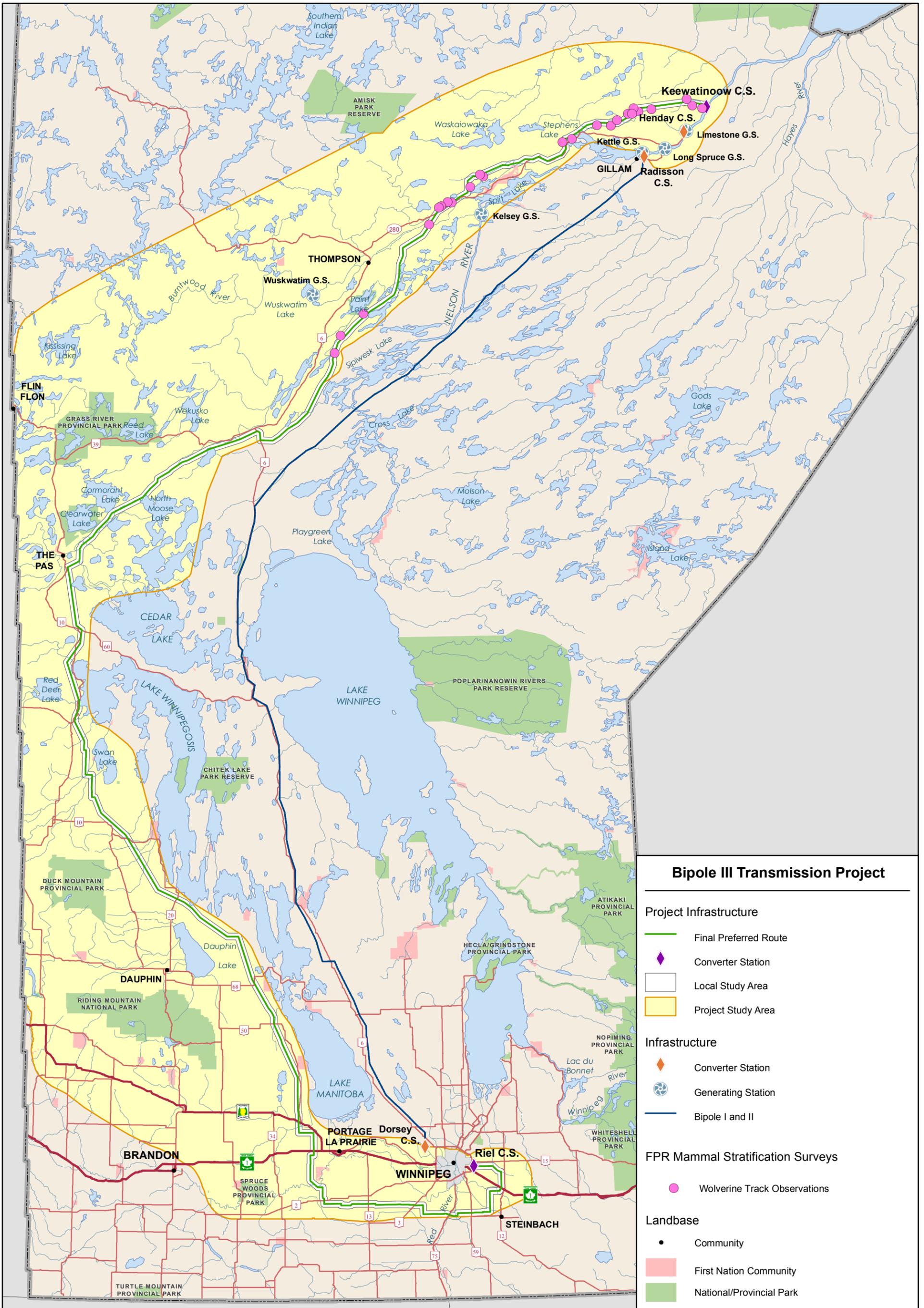
Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro  
 Date Created: June 24, 2011



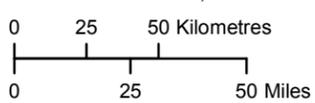
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## Wolverine Aerial Survey 2011 Tracks and Observations



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN  
 Date Created: June 21, 2011



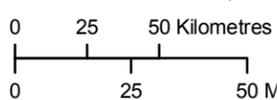
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# Final Preferred Route Mammal Stratification Surveys

2011 Wolverine Track Observations

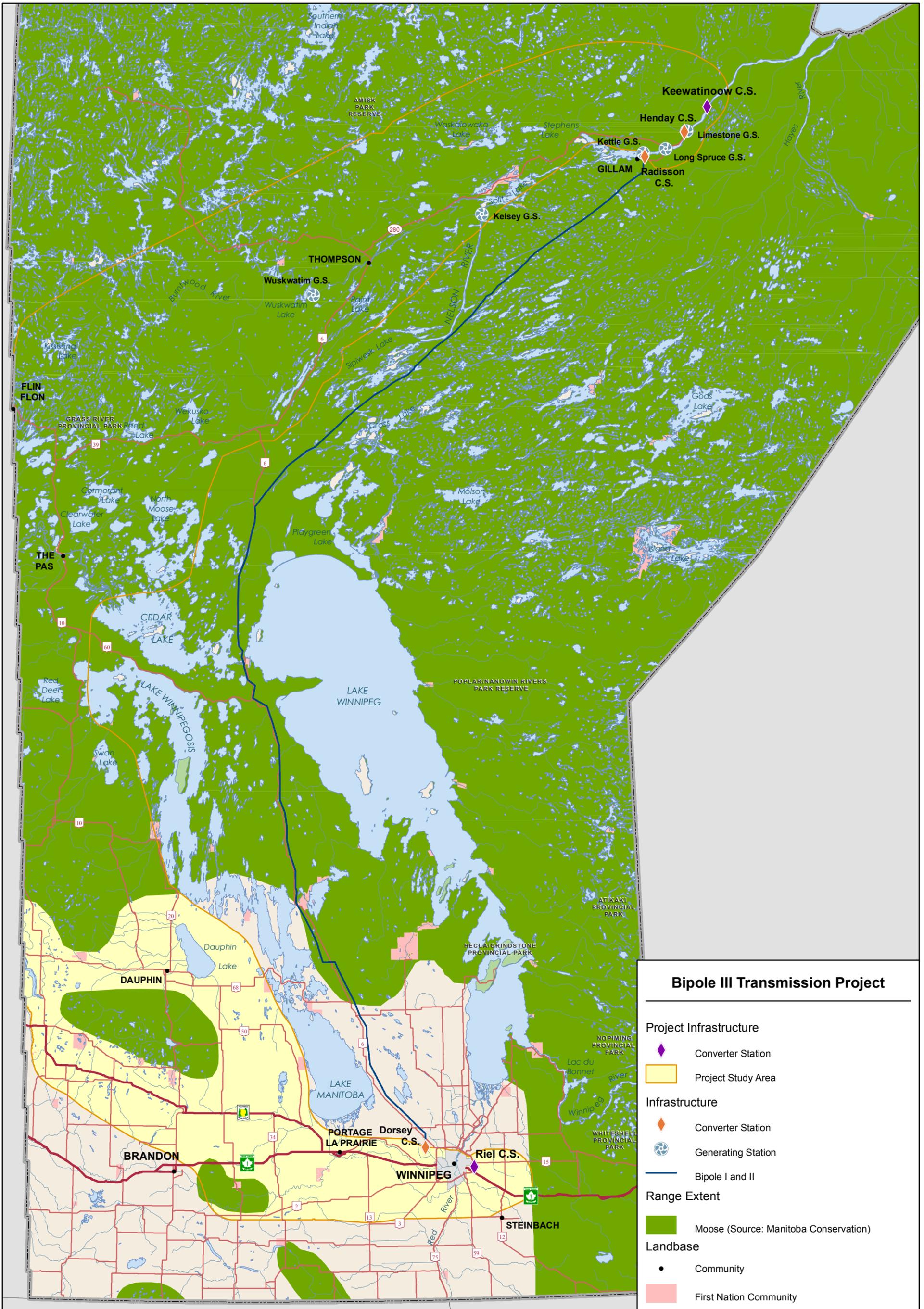


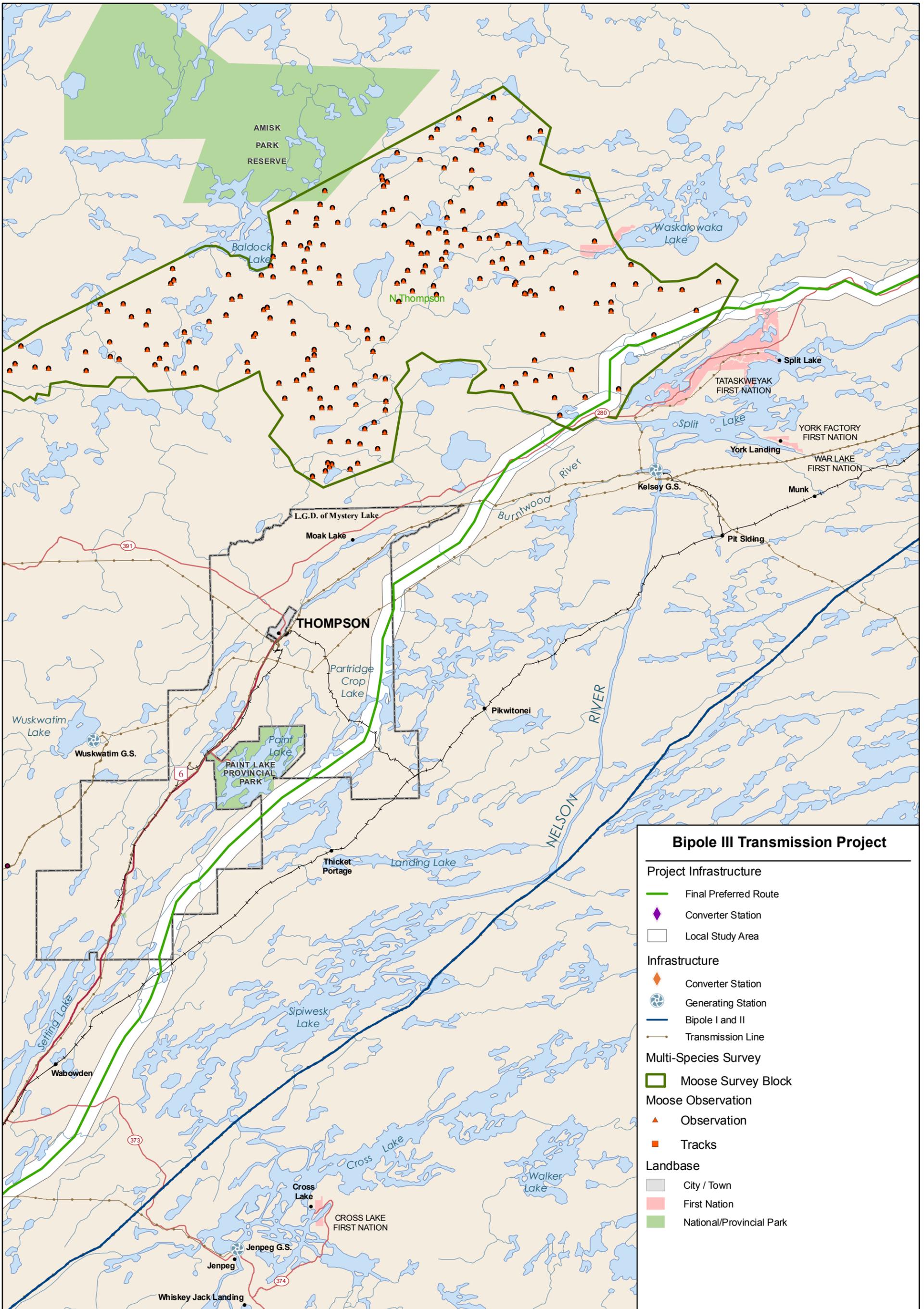
Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro  
 Date Created: October 24, 2011



1:2,500,000

## Wolverine Track Density Along The Final Preferred Route





**Bipole III Transmission Project**

**Project Infrastructure**

- Final Preferred Route
- Converter Station
- Local Study Area

**Infrastructure**

- Converter Station
- Generating Station
- Bipole I and II
- Transmission Line

**Multi-Species Survey**

- Moose Survey Block

**Moose Observation**

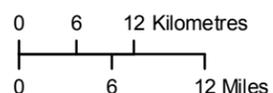
- Observation
- Tracks

**Landbase**

- City / Town
- First Nation
- National/Provincial Park



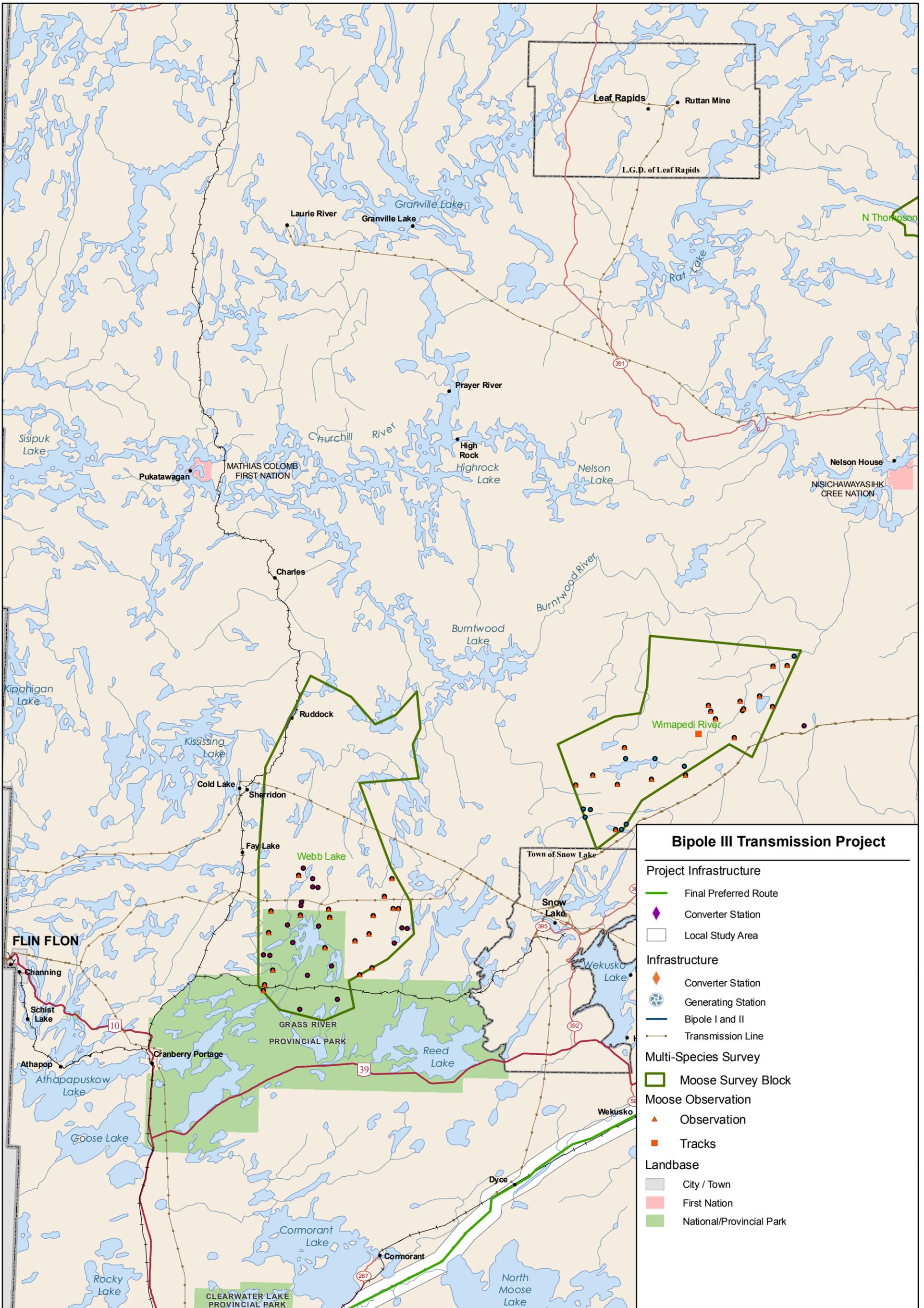
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 Date Created: October 25, 2011



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# High Quality Habitat Moose Surveys

2010 Survey Results

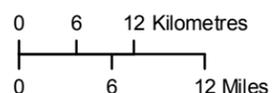


**Bipole III Transmission Project**

- Project Infrastructure**
- Final Preferred Route
- Converter Station
- Local Study Area
- Infrastructure**
- Converter Station
- Generating Station
- Bipole I and II
- Transmission Line
- Multi-Species Survey**
- Moose Survey Block
- Moose Observation**
- Observation
- Tracks
- Landbase**
- City / Town
- First Nation
- National/Provincial Park

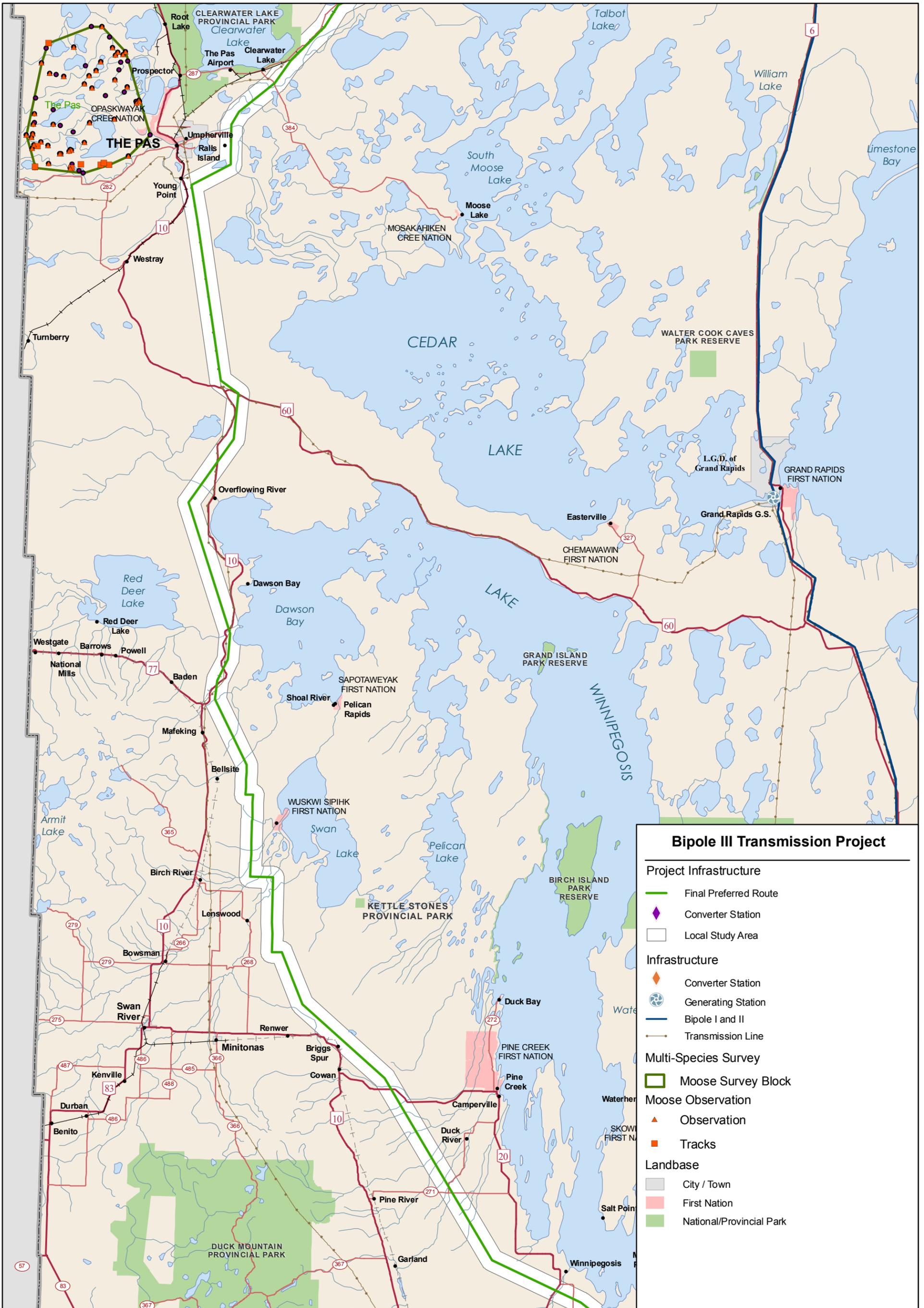


Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro  
 Date Created: October 25, 2011



**High Quality Habitat Moose Surveys**

**2010 Survey Results**



### Bipole III Transmission Project

**Project Infrastructure**

- Final Preferred Route
- Converter Station
- Local Study Area

**Infrastructure**

- Converter Station
- Generating Station
- Bipole I and II
- Transmission Line

**Multi-Species Survey**

- Moose Survey Block

**Moose Observation**

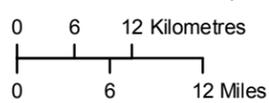
- Observation
- Tracks

**Landbase**

- City / Town
- First Nation
- National/Provincial Park



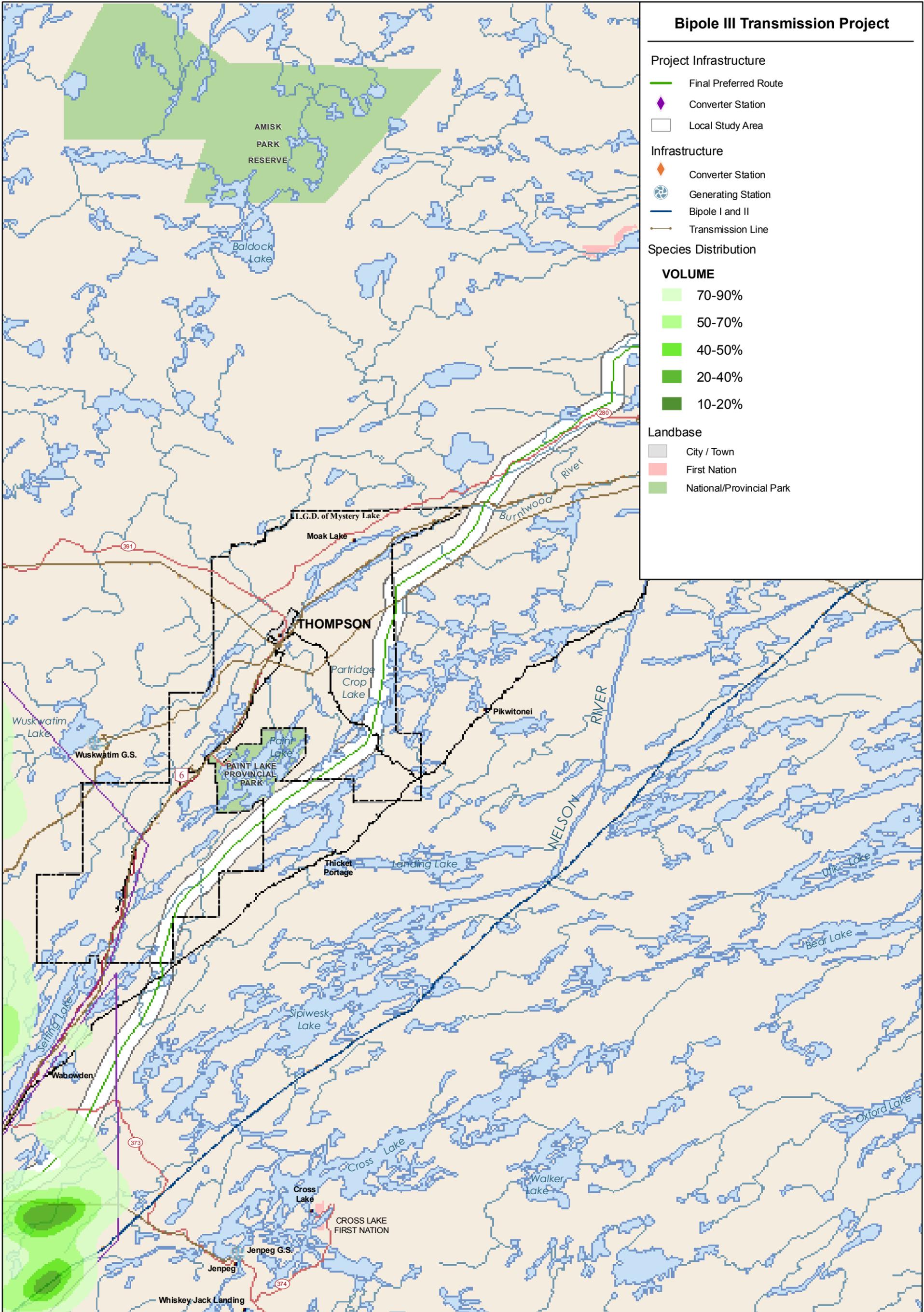
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 Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro  
 Date Created: October 25, 2011



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## High Quality Habitat Moose Surveys

2010 Survey Results



**Bipole III Transmission Project**

**Project Infrastructure**

- Final Preferred Route
- ◆ Converter Station
- Local Study Area

**Infrastructure**

- ◆ Converter Station
- ⊙ Generating Station
- Bipole I and II
- Transmission Line

**Species Distribution**

**VOLUME**

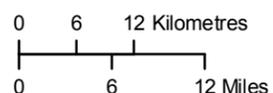
- 70-90%
- 50-70%
- 40-50%
- 20-40%
- 10-20%

**Landbase**

- City / Town
- First Nation
- National/Provincial Park

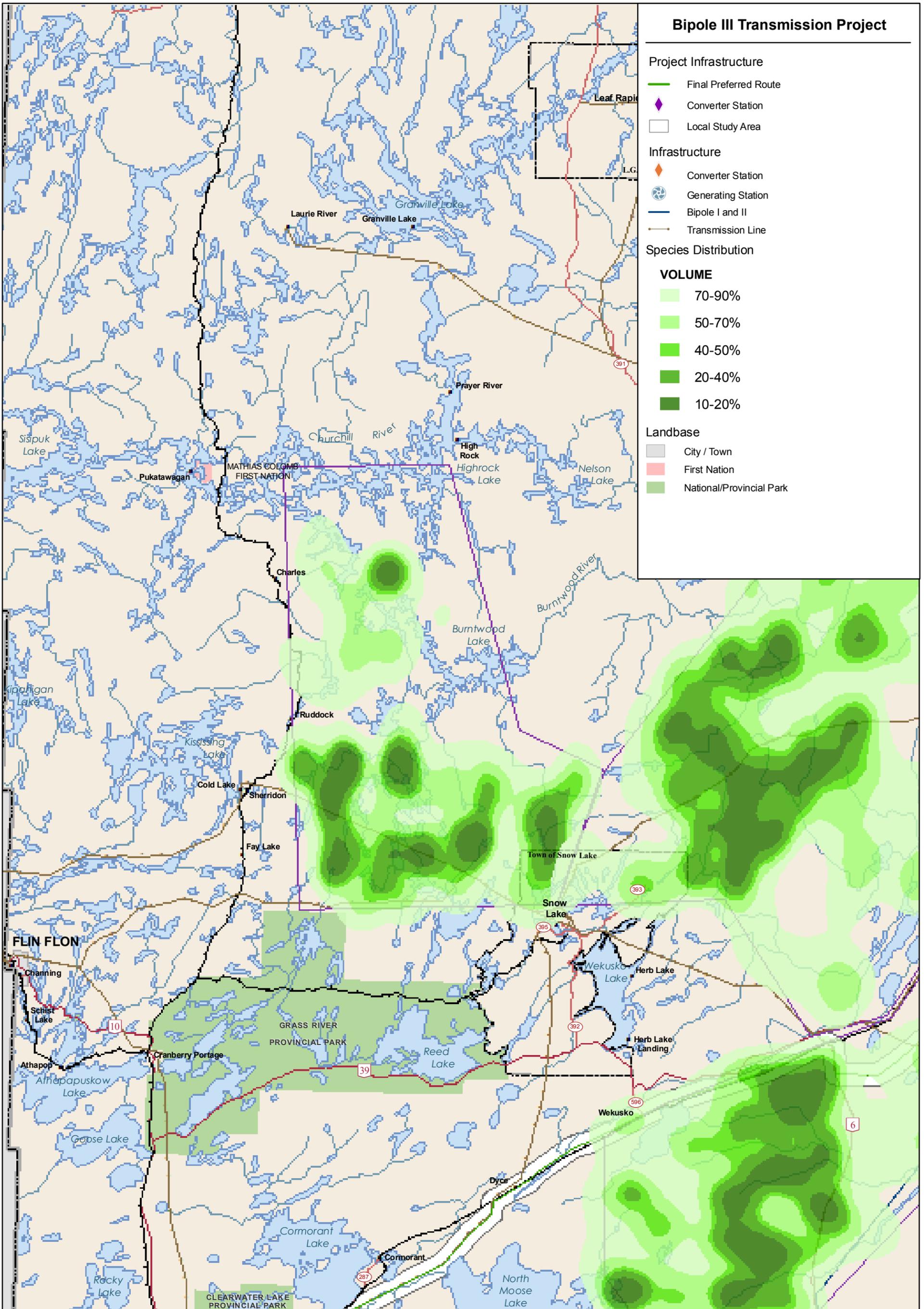


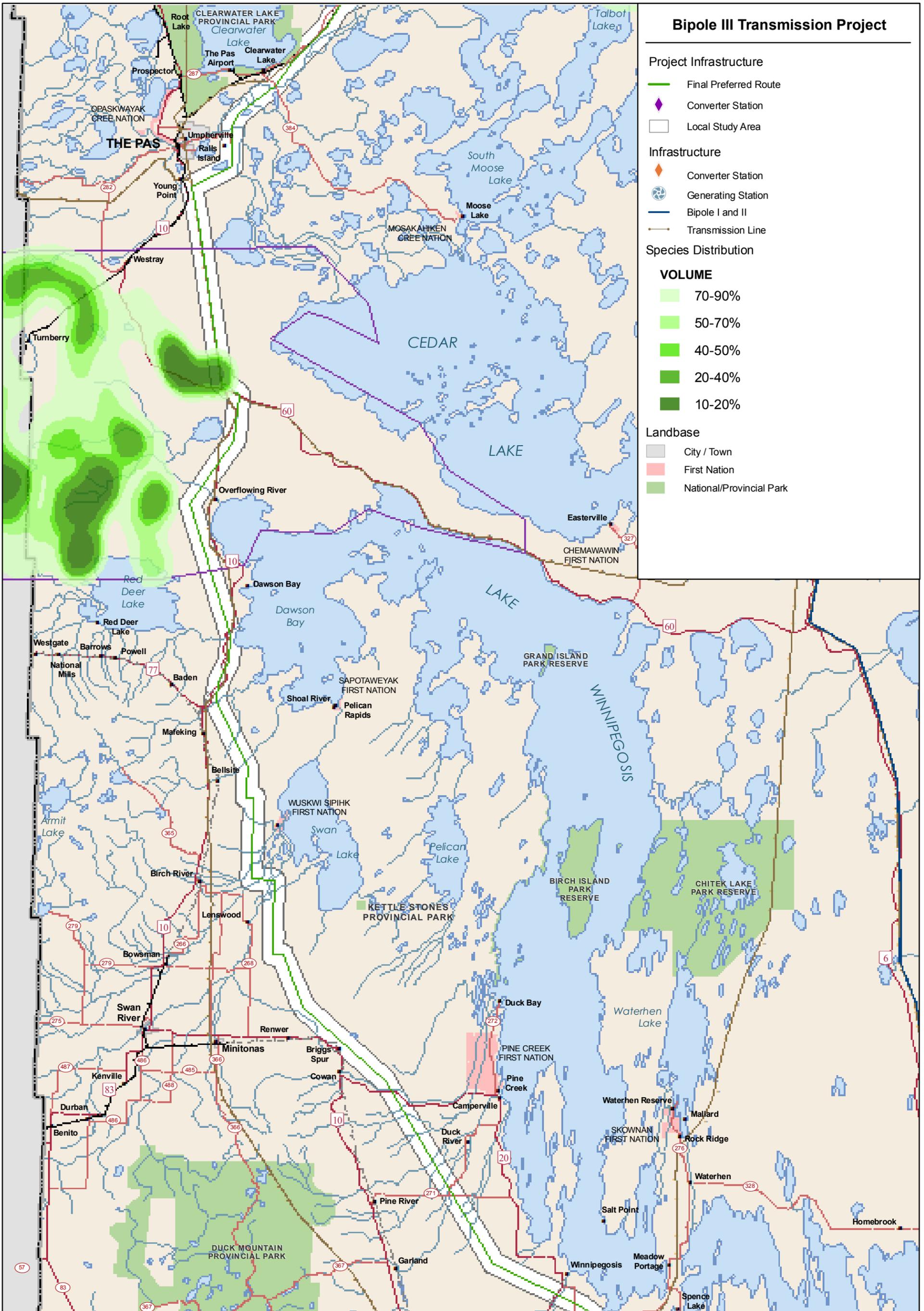
Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro  
 Date Created: October 25, 2011



1:750,000

**Density Kernel Estimate of Moose**  
 From Multispecies Aerial Survey





**Bipole III Transmission Project**

**Project Infrastructure**

- Final Preferred Route
- ◆ Converter Station
- Local Study Area

**Infrastructure**

- ◆ Converter Station
- ⊙ Generating Station
- Bipole I and II
- Transmission Line

**Species Distribution**

**VOLUME**

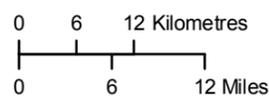
- 70-90%
- 50-70%
- 40-50%
- 20-40%
- 10-20%

**Landbase**

- City / Town
- First Nation
- National/Provincial Park



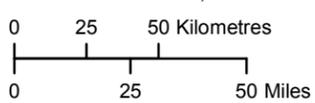
Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro  
 Date Created: October 25, 2011



**Density Kernel Estimate of Moose**  
 From Multispecies Aerial Survey



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN  
 Date Created: June 21, 2011



1:2,500,000

# Final Preferred Route Mammal Stratification Surveys 2011 Moose Track Observations



### Bipole III Transmission Project

#### Project Infrastructure

Final Preferred Route

#### Infrastructure

Transmission Line

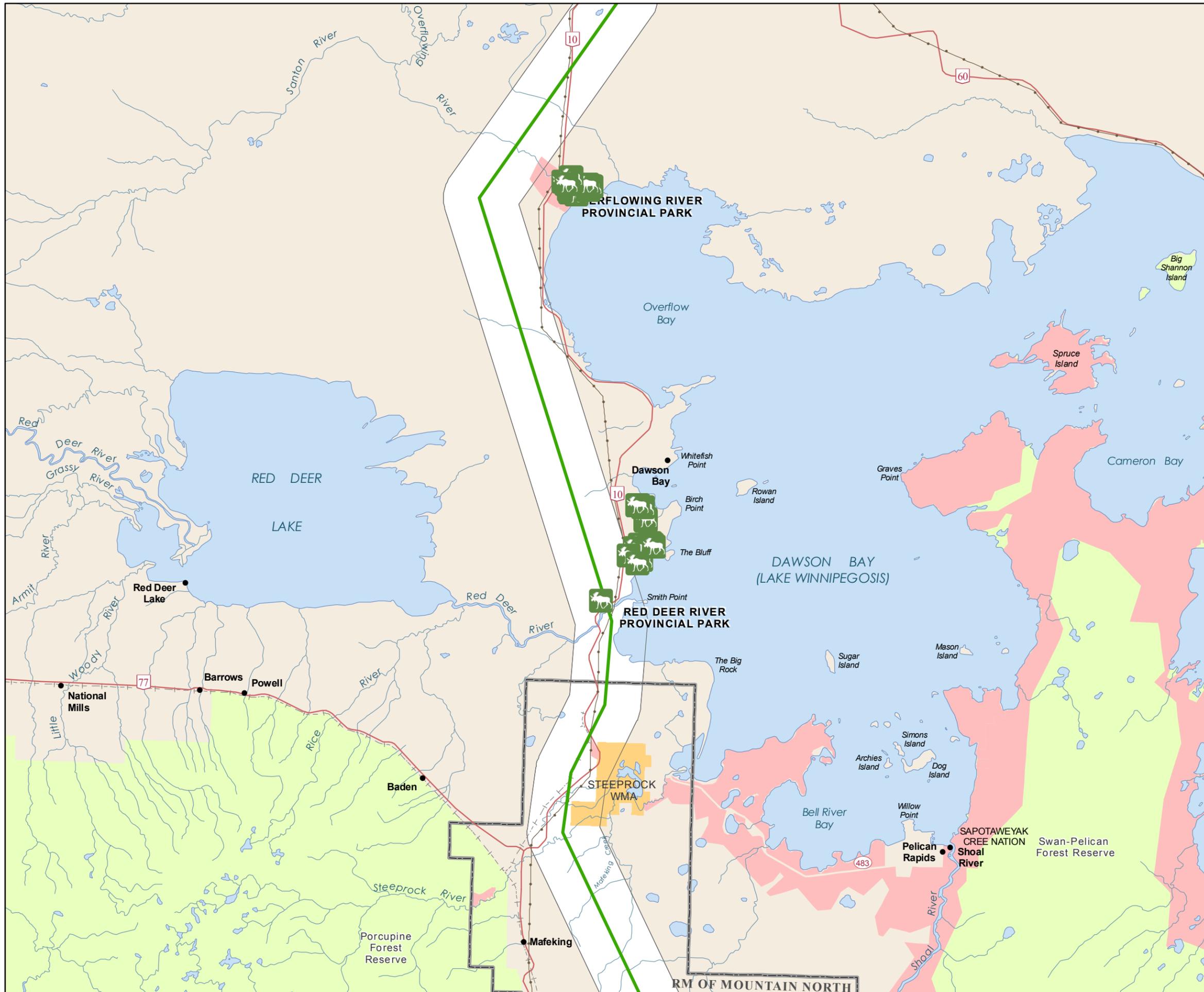
#### Summer Mammal Tracking

##### SPECIES

moos

#### Landbase

- Community
- City / Town
- Rural Municipality
- First Nation
- National/Provincial Park
- Provincial Forest
- Wildlife Management Area



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN, WRCS  
 Date Created: July 13, 2011

0 5 10 Kilometres  
 0 3 6 Miles  
 1:250,000

## Summer Mammal Tracking

### Moose Observations

## Bipole III Transmission Project

### Project Infrastructure

Final Preferred Route

### Infrastructure

Transmission Line

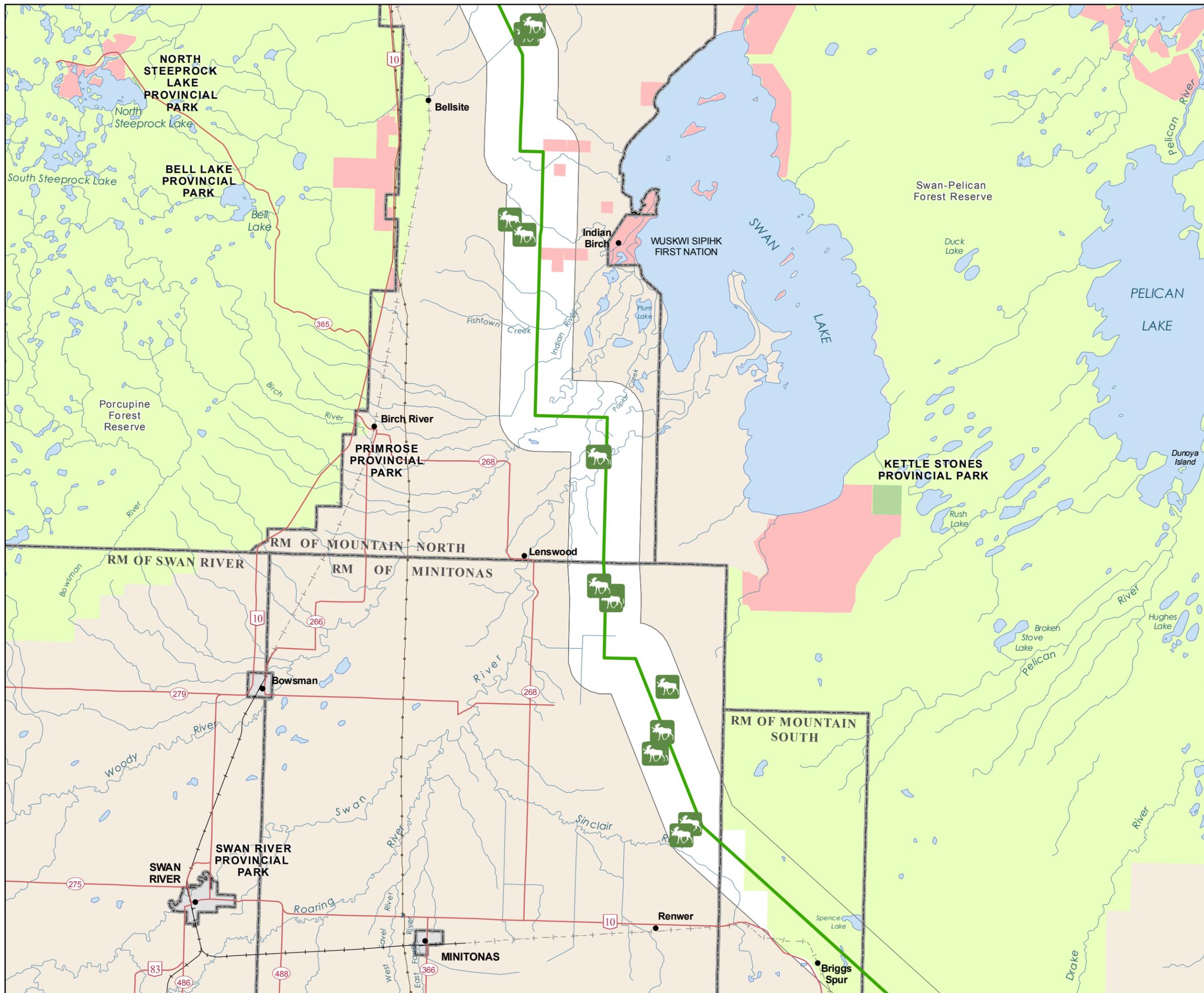
### Summer Mammal Tracking

#### SPECIES

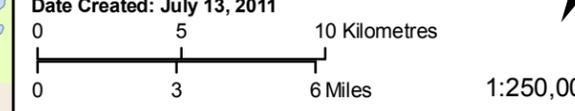
moos

### Landbase

- Community
- City / Town
- Rural Municipality
- First Nation
- National/Provincial Park
- Provincial Forest
- Wildlife Management Area



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN, WRCS



## Summer Mammal Tracking

Moose Observations





# Bipole III Transmission Project

## Project Infrastructure

-  Final Preferred Route
-  3 Mile Corridor

## Infrastructure

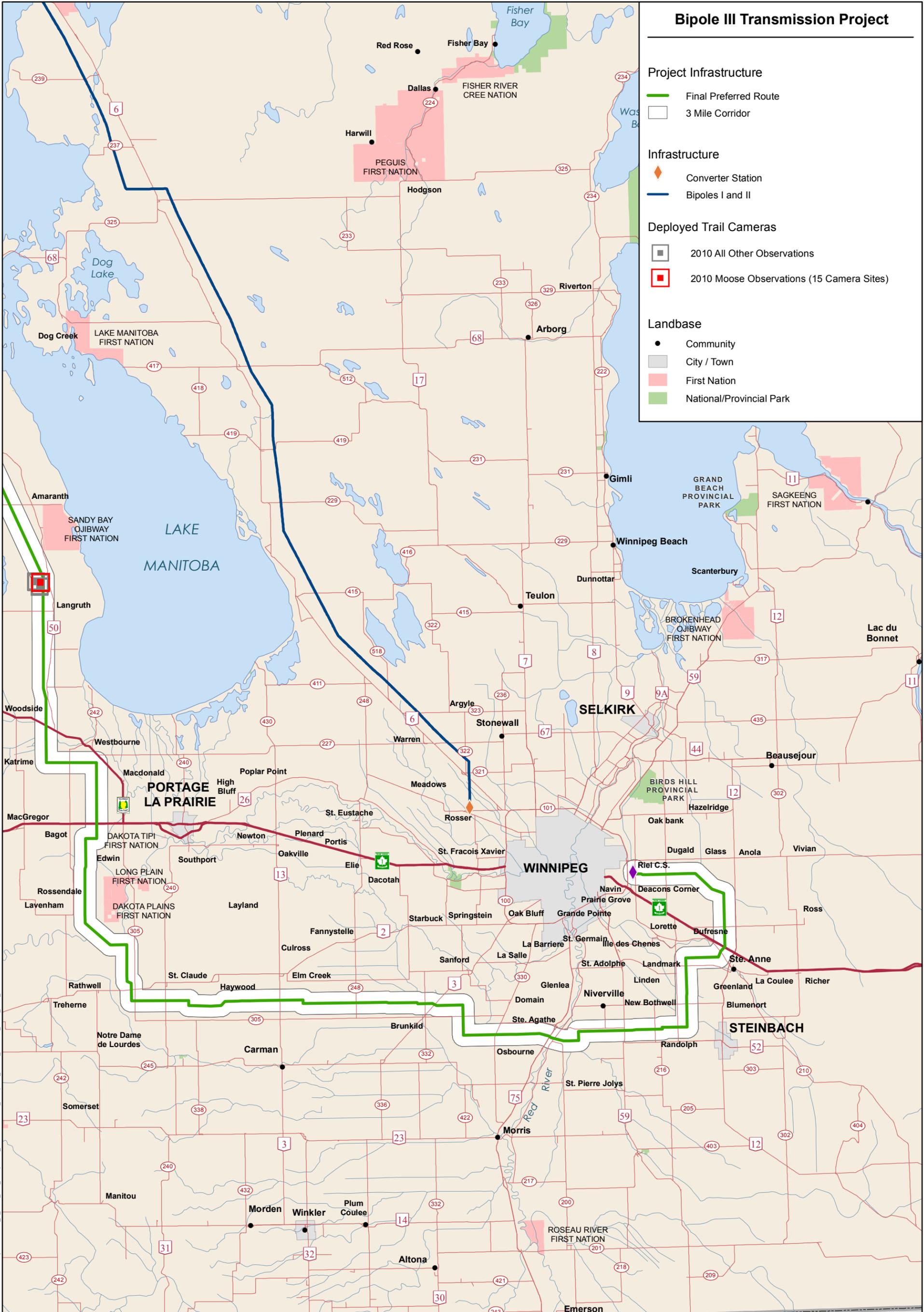
-  Converter Station
-  Bipoles I and II

## Deployed Trail Cameras

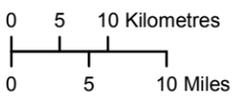
-  2010 All Other Observations
-  2010 Moose Observations (15 Camera Sites)

## Landbase

-  Community
-  City / Town
-  First Nation
-  National/Provincial Park



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS  
 Date Created: October 24, 2011



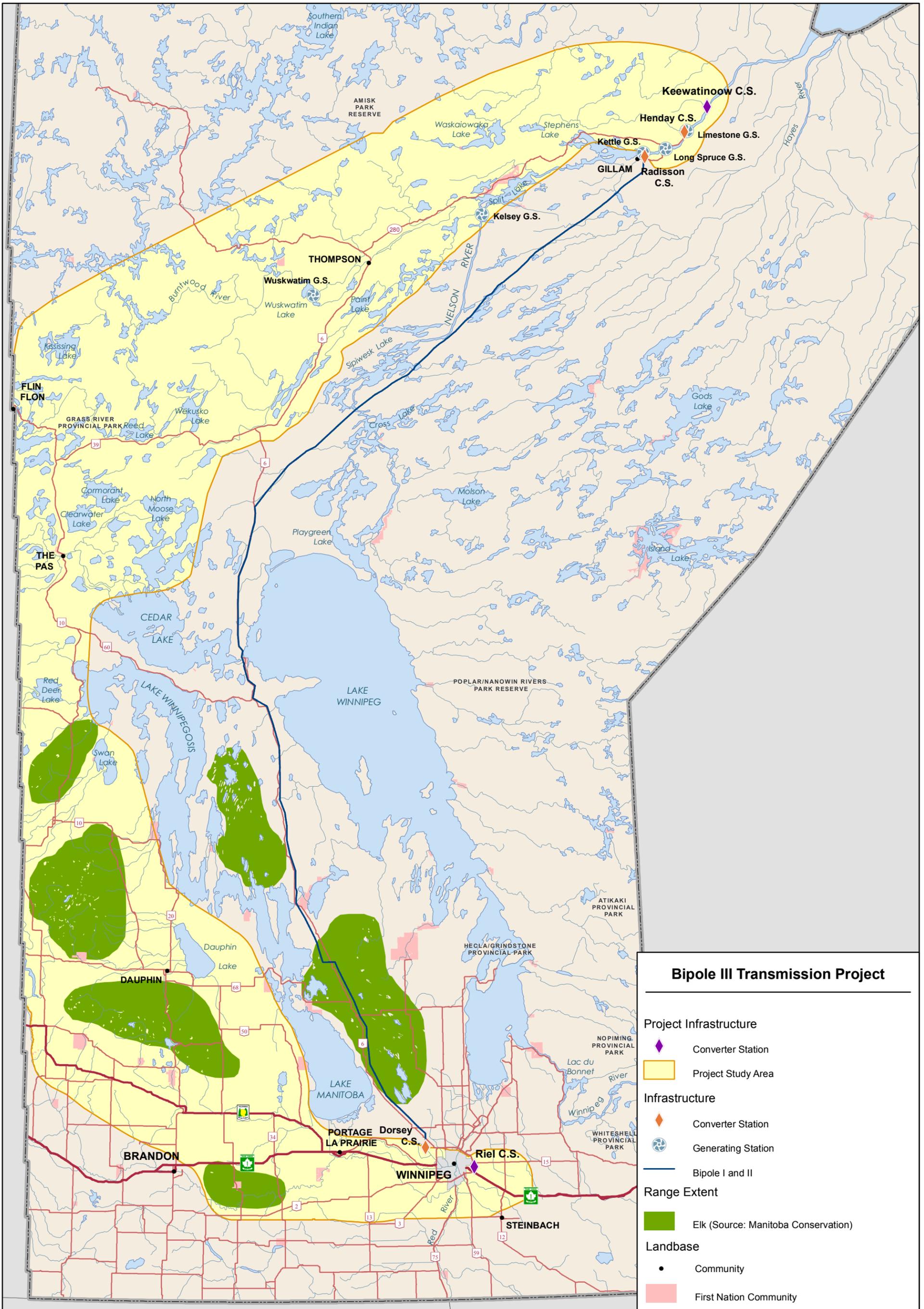
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## Trail Camera Deployments

Distribution of Moose Observations in 2010

Map Series 700-02





# Bipole III Transmission Project

## Project Infrastructure

-  Final Preferred Route
-  Converter Station
-  Local Study Area

## Infrastructure

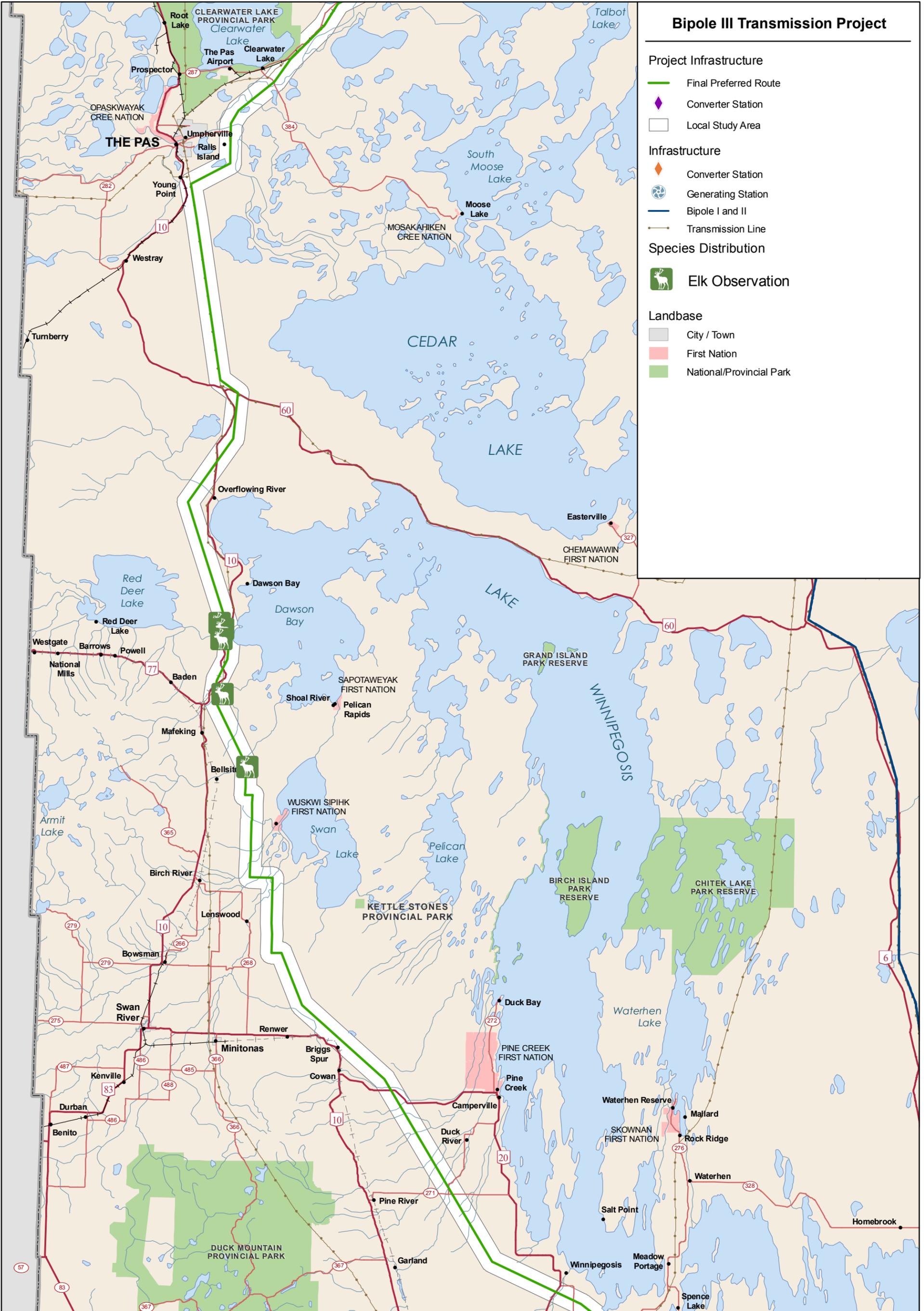
-  Converter Station
-  Generating Station
-  Bipole I and II
-  Transmission Line

## Species Distribution

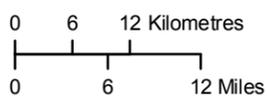
-  Elk Observation

## Landbase

-  City / Town
-  First Nation
-  National/Provincial Park



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro  
 Date Created: October 25, 2011



1:750,000

## Aerial Reconnaissance Survey For Elk

### Bipole III Transmission Project

#### Project Infrastructure

Final Preferred Route

#### Infrastructure

Transmission Line

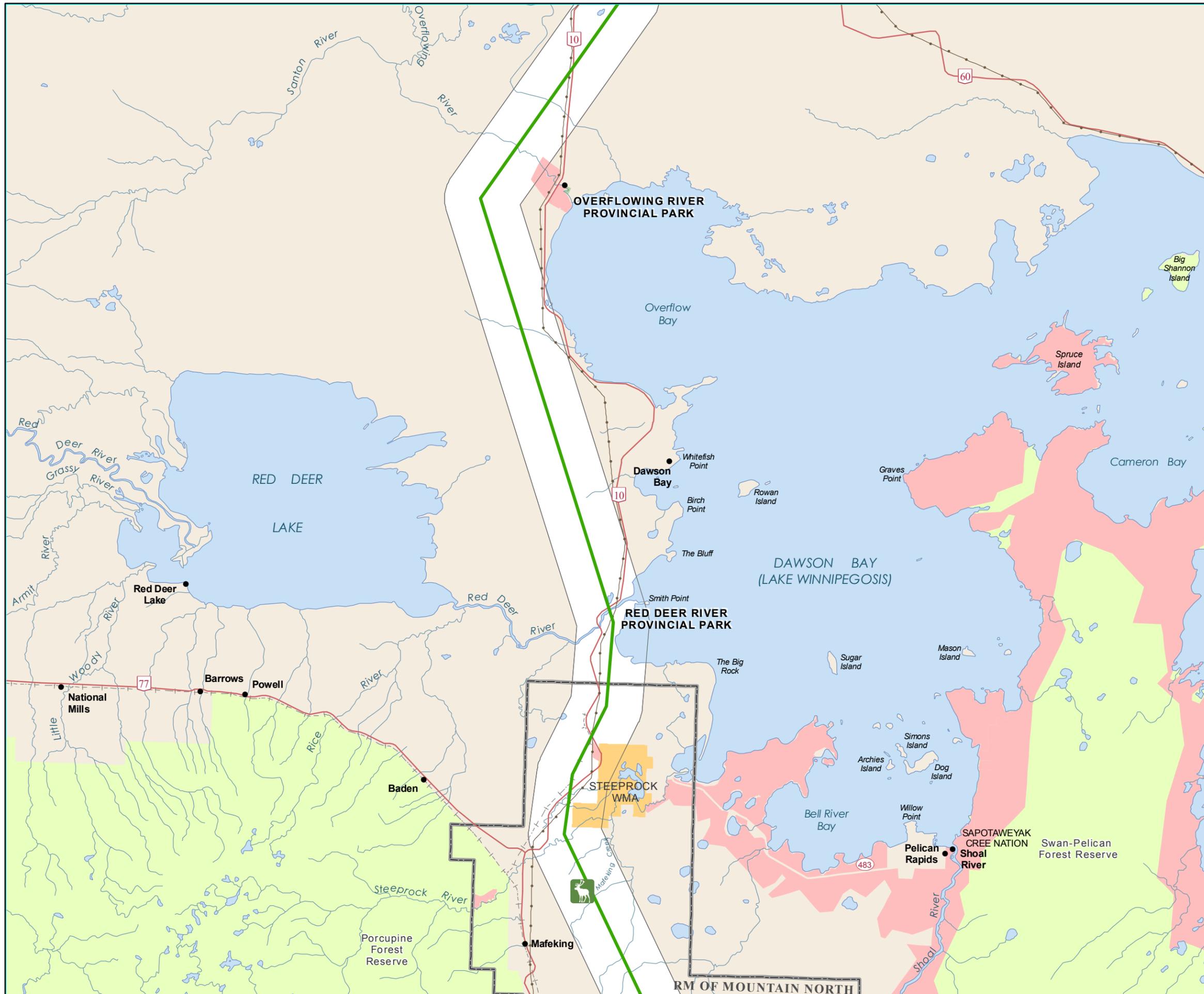
#### Summer Mammal Tracking

##### SPECIES

Elk Observation

#### Landbase

- Community
- City / Town
- Rural Municipality
- First Nation
- National/Provincial Park
- Provincial Forest
- Wildlife Management Area



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN, WRCS

Date Created: July 13, 2011

0 5 10 Kilometres

0 3 6 Miles

1:250,000



## Summer Mammal Tracking

### Elk Observations

### Bipole III Transmission Project

#### Project Infrastructure

Final Preferred Route

#### Infrastructure

Transmission Line

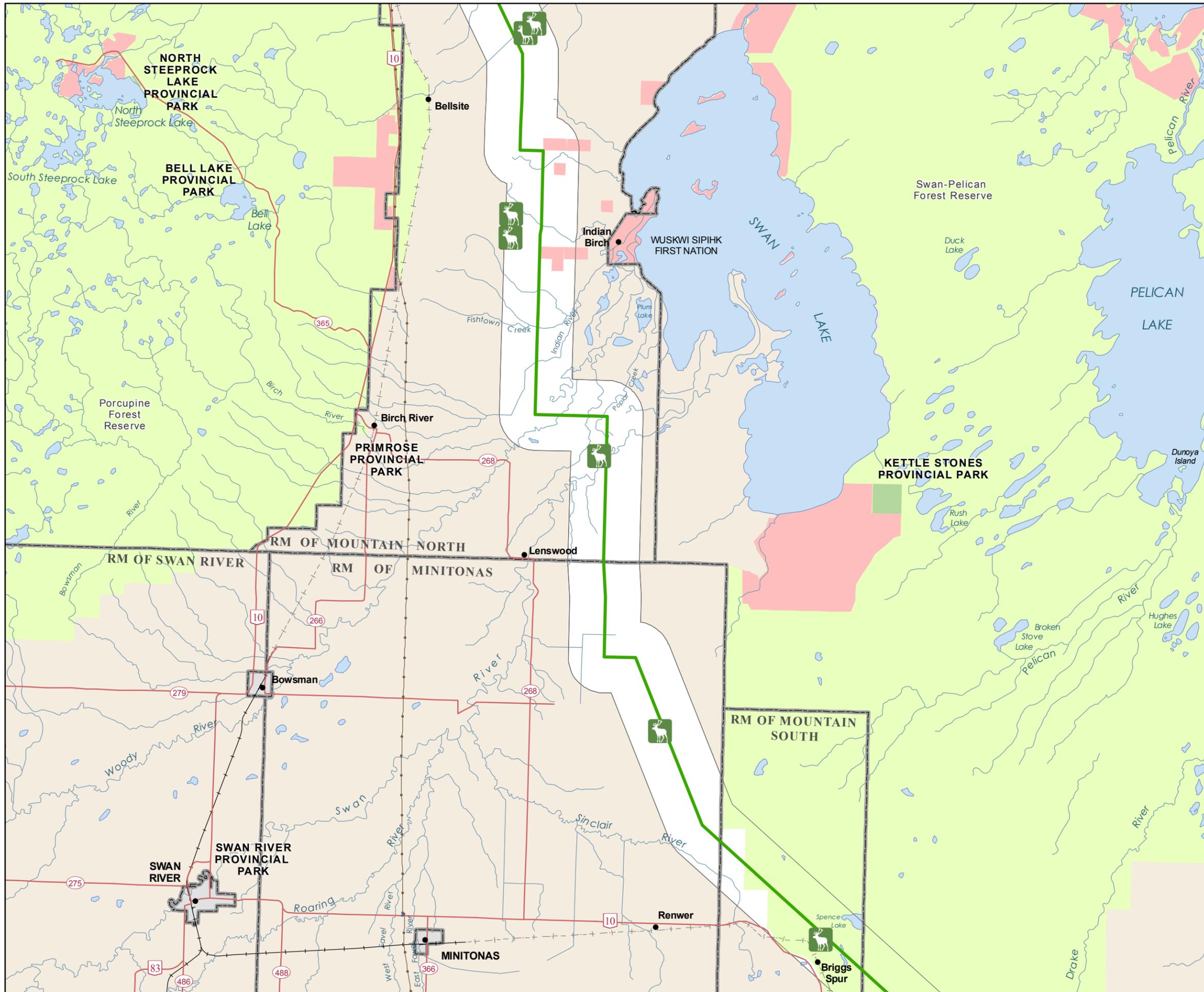
#### Summer Mammal Tracking

##### SPECIES

Elk Observation

#### Landbase

- Community
- City / Town
- Rural Municipality
- First Nation
- National/Provincial Park
- Provincial Forest
- Wildlife Management Area



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN, WRCS  
 Date Created: July 13, 2011

0 5 10 Kilometres  
 0 3 6 Miles  
 1:250,000

## Summer Mammal Tracking

### Elk Observations

### Bipole III Transmission Project

#### Project Infrastructure

Final Preferred Route

#### Infrastructure

Transmission Line

#### Summer Mammal Tracking

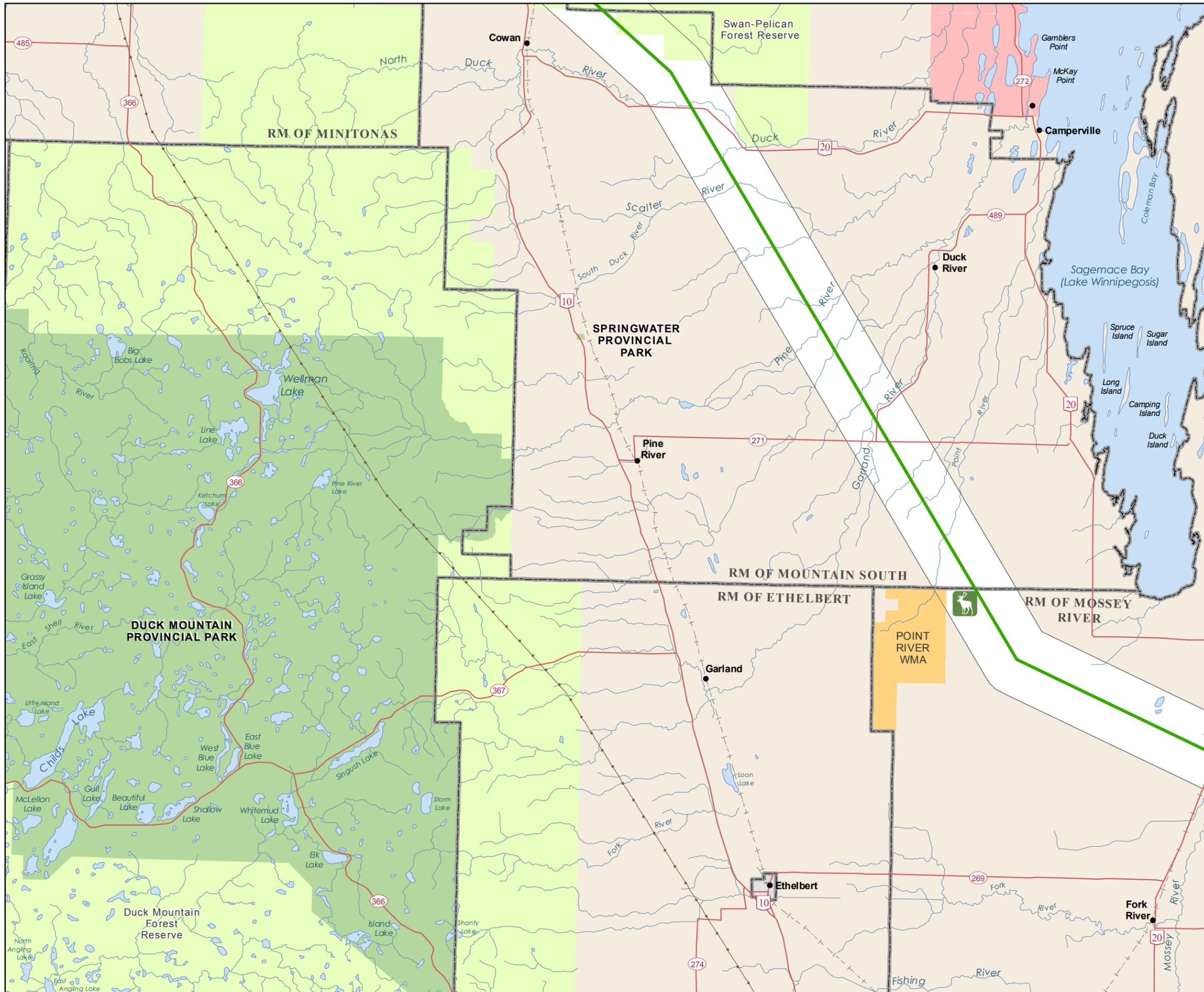
##### SPECIES



Elk Observation

#### Landbase

- Community
- City / Town
- Rural Municipality
- First Nation
- National/Provincial Park
- Provincial Forest
- Wildlife Management Area



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN, WRCS  
 Date Created: July 13, 2011

1:250,000

## Summer Mammal Tracking

### Elk Observations

# Bipole III Transmission Project

## Project Infrastructure

-  Final Preferred Route
-  3 Mile Corridor

## Infrastructure

-  Converter Station
-  Bipoles I and II

## Deployed Trail Cameras

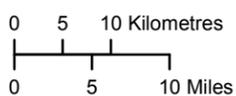
-  2010 Elk Observations (5 Camera Sites)

## Landbase

-  Community
-  City / Town
-  First Nation
-  National/Provincial Park



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS  
 Date Created: October 24, 2011

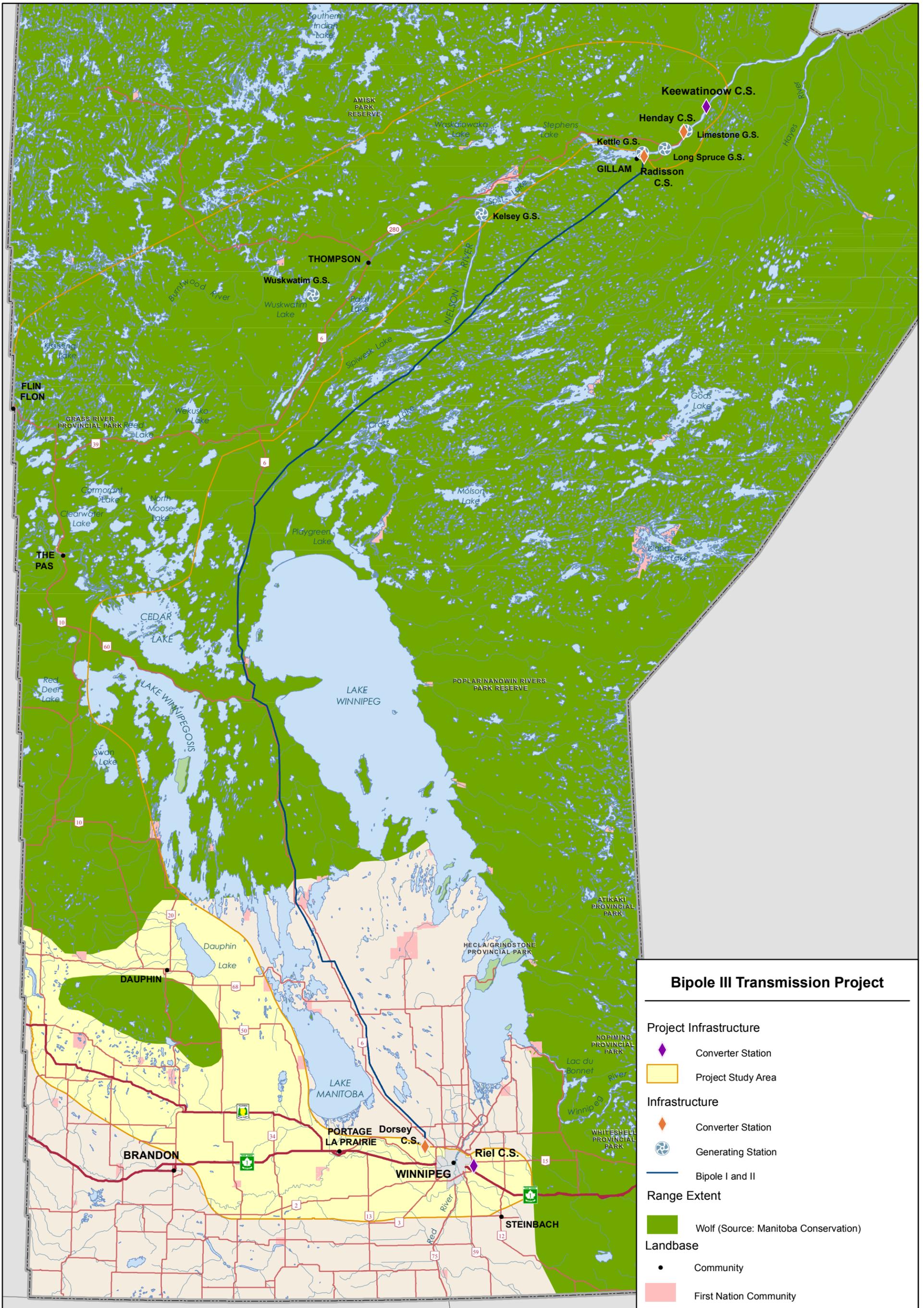


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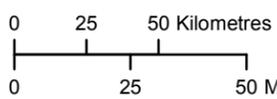
## Trail Camera Deployments

### Distribution of Elk Observations in 2010

File Location: \\GIS\PROJECTS\BIPOLIII\Orientations\Templates\Draft\_2\_BP111\_EIS\_Templates\_20110331\BP111\_Template\_BSise\_Portrait\_750K\_BT1B\_20110407.mxd

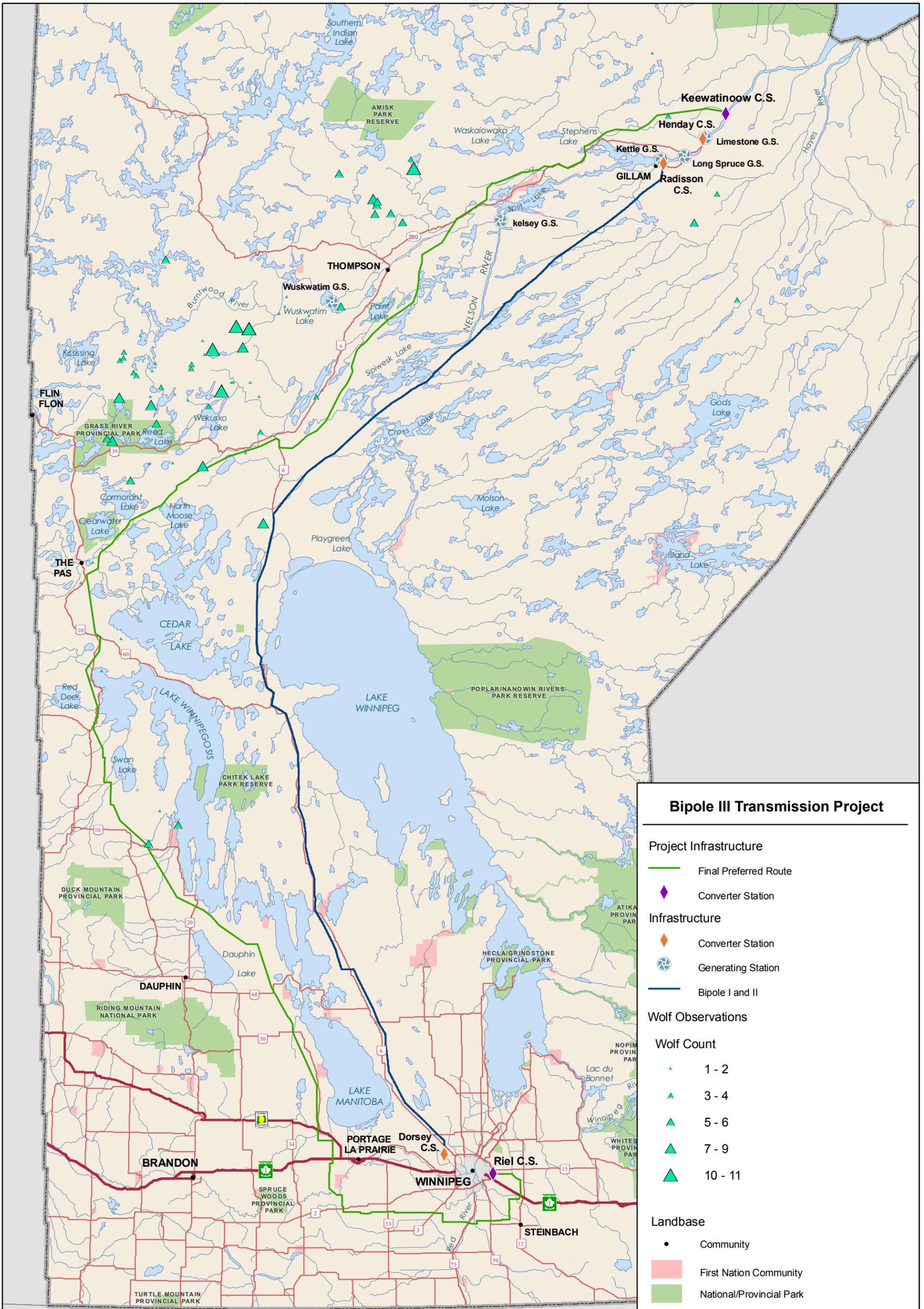


Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro  
 Date Created: July 12, 2011



1:2,500,000

**Extent of Wolf Range in Manitoba**

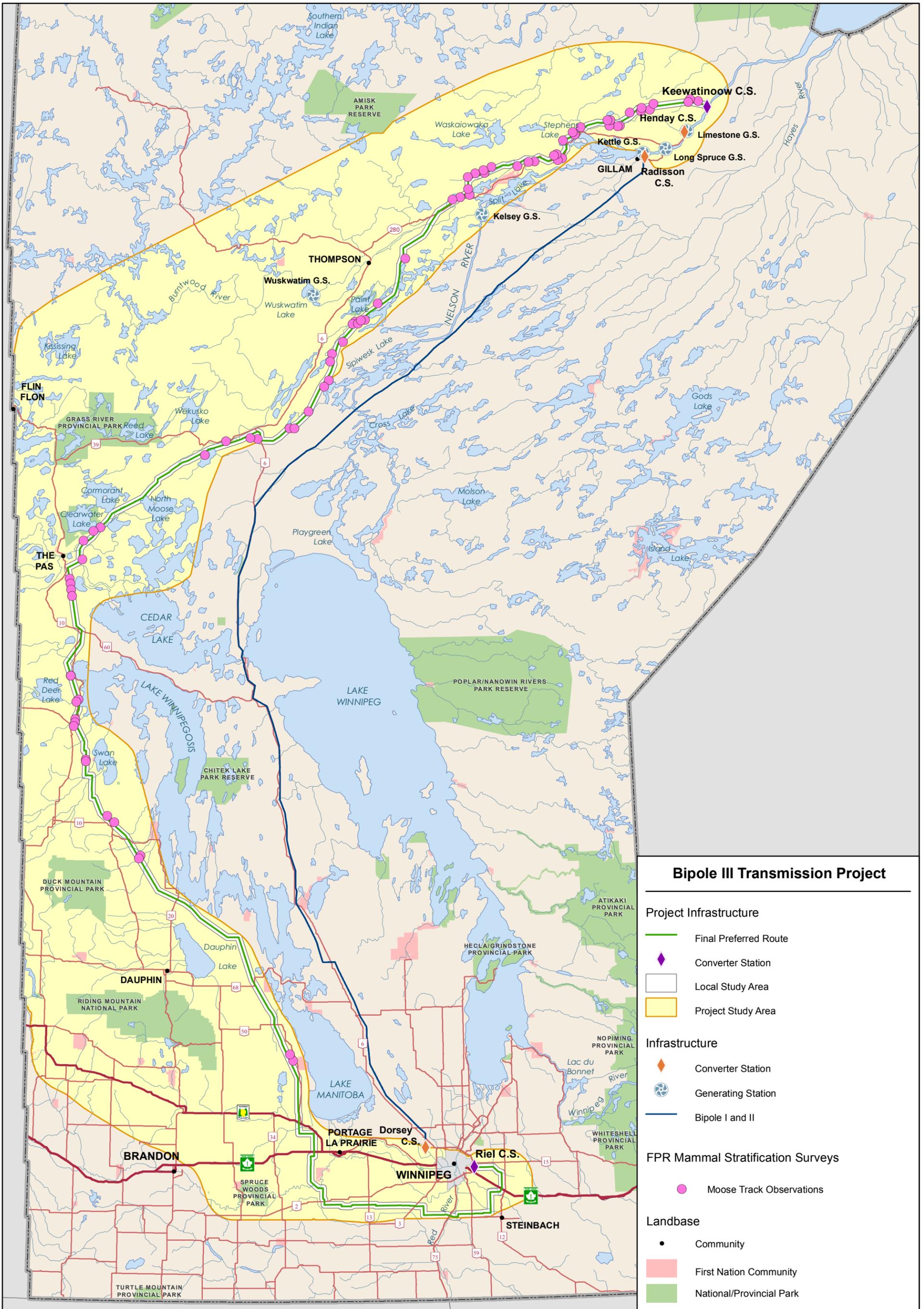


Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro  
 Date Created: October 24, 2011



1:2,500,000

## Wolf Observations From 2010 Aerial Surveys



**Bipole III Transmission Project**

**Project Infrastructure**

- Final Preferred Route
- ◆ Converter Station
- Local Study Area
- Project Study Area

**Infrastructure**

- ◆ Converter Station
- ⊙ Generating Station
- Bipole I and II

**FPR Mammal Stratification Surveys**

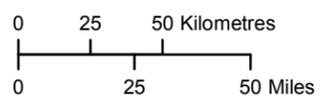
- Moose Track Observations

**Landbase**

- Community
- First Nation Community
- National/Provincial Park

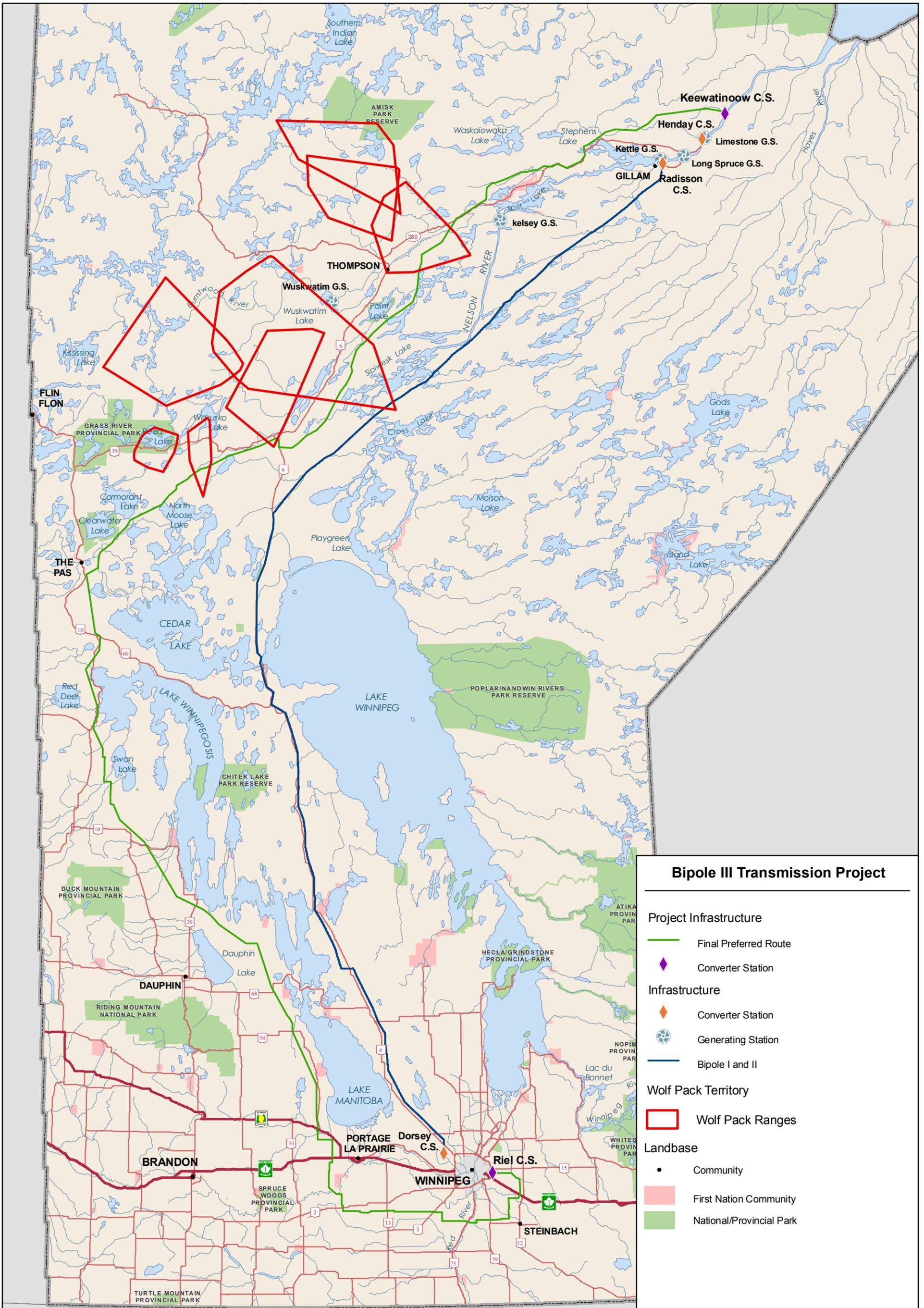


Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN  
 Date Created: June 21, 2011



1:2,500,000

**Final Preferred Route  
 Mammal Stratification Surveys  
 2011 Wolf Track Observations**



### Bipole III Transmission Project

**Project Infrastructure**

- Final Preferred Route
- Converter Station

**Infrastructure**

- Converter Station
- Generating Station
- Bipole I and II

**Wolf Pack Territory**

- Wolf Pack Ranges

**Landbase**

- Community
- First Nation Community
- National/Provincial Park



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro  
 Date Created: October 24, 2011



1:2,500,000

## Wolf Pack Range Delineation

### Minimum Convex Polygons From GPS Collar Data

# Bipole III Transmission Project

## Project Infrastructure

-  Final Preferred Route
-  3 Mile Corridor

## Infrastructure

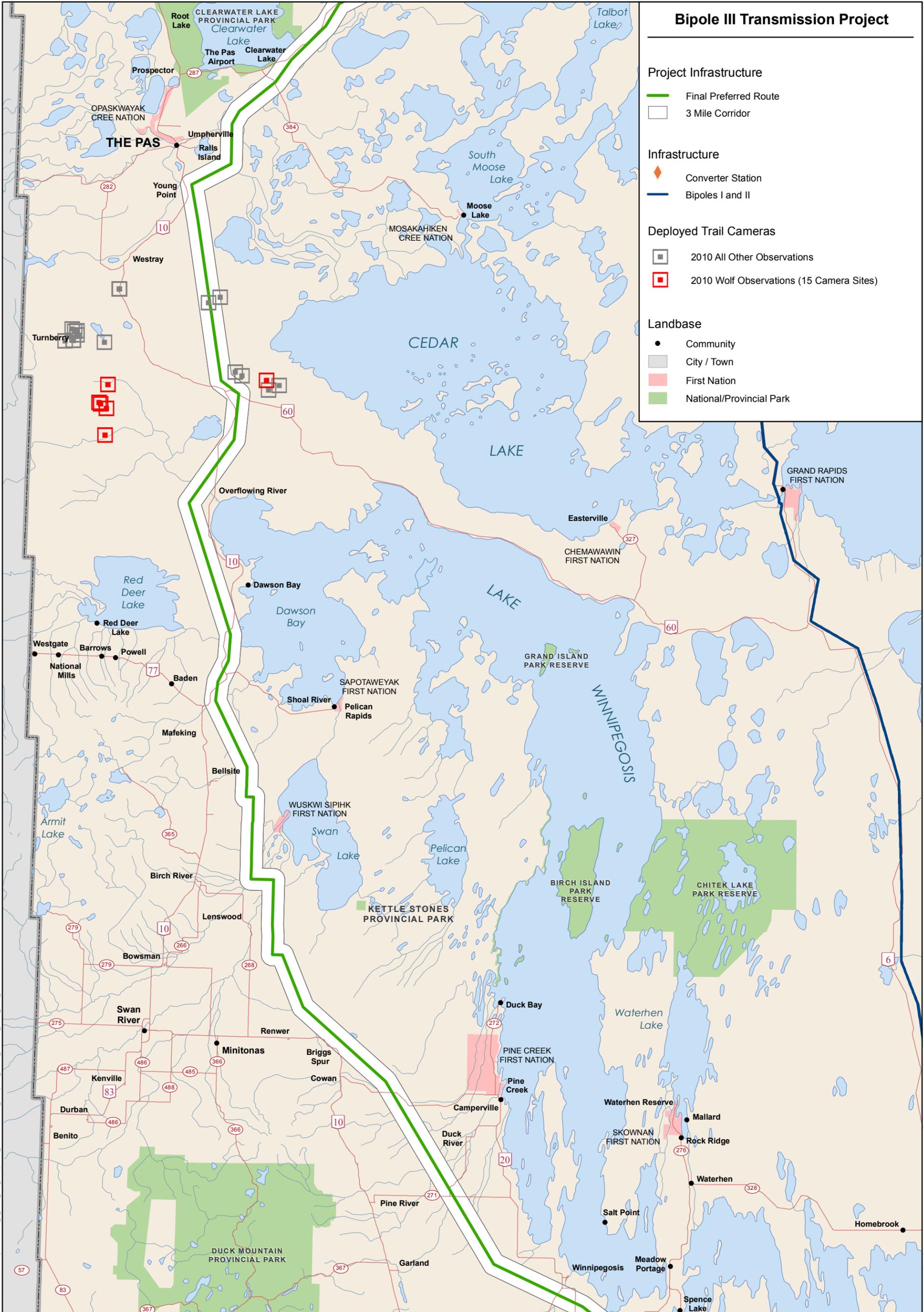
-  Converter Station
-  Bipoles I and II

## Deployed Trail Cameras

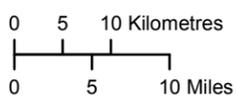
-  2010 All Other Observations
-  2010 Wolf Observations (15 Camera Sites)

## Landbase

-  Community
-  City / Town
-  First Nation
-  National/Provincial Park



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS  
 Date Created: October 24, 2011



1:750,000

## Trail Camera Deployments

### Distribution of Wolf Observations in 2010

Map Series 900-01

# Bipole III Transmission Project

## Project Infrastructure

-  Final Preferred Route
-  3 Mile Corridor

## Infrastructure

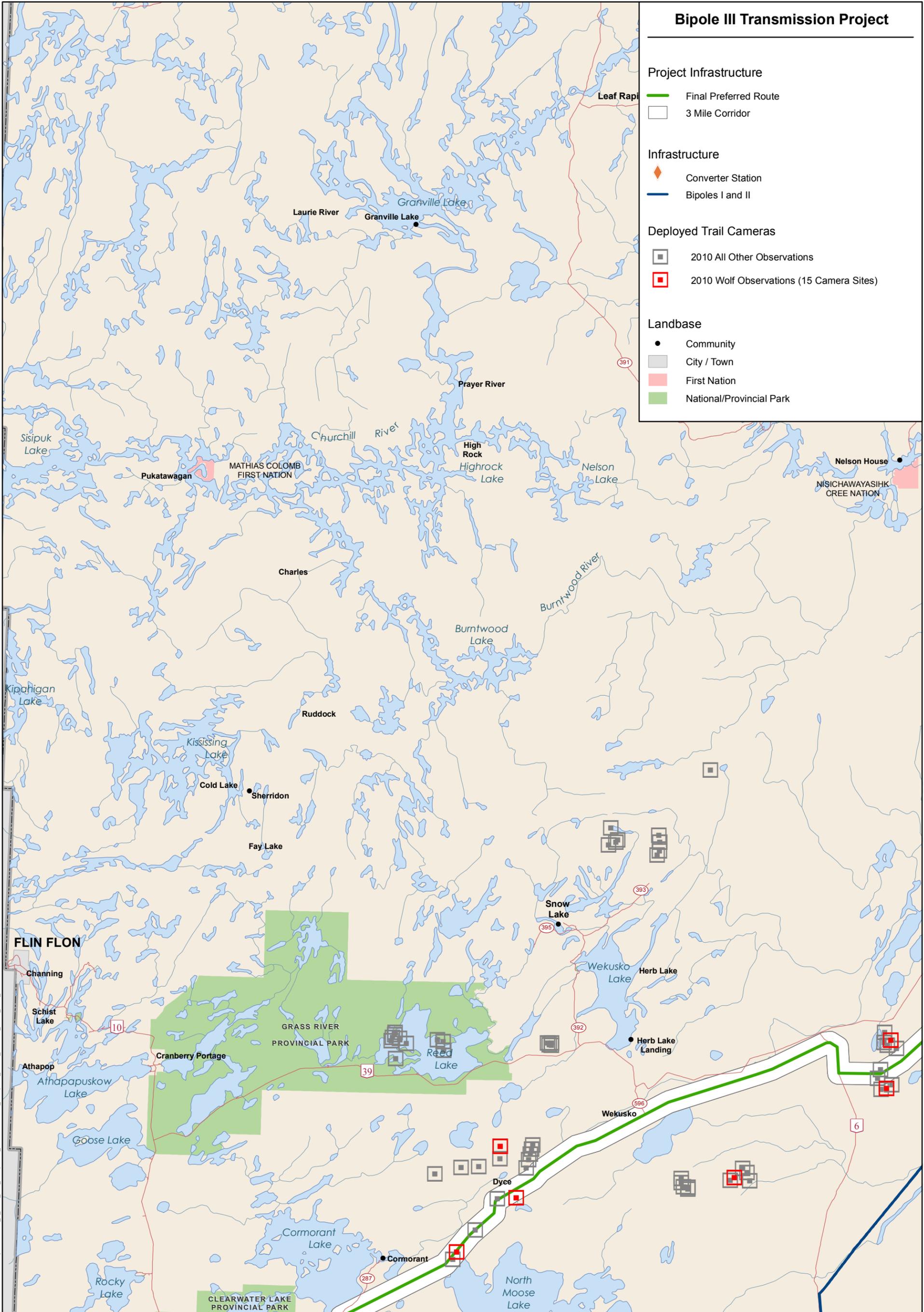
-  Converter Station
-  Bipoles I and II

## Deployed Trail Cameras

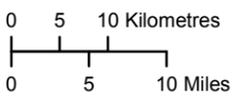
-  2010 All Other Observations
-  2010 Wolf Observations (15 Camera Sites)

## Landbase

-  Community
-  City / Town
-  First Nation
-  National/Provincial Park



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS  
 Date Created: October 24, 2011



1:750,000

## Trail Camera Deployments

### Distribution of Wolf Observations in 2010

Map Series 900-02

File Location: \\GIS\PROJECTS\BIPOLIII\Orientations\Templates\Draft\_2\_BPIII\_EIS\_Templates\_20110331\BPIII\_Template\_BSise\_Porrait\_750K\_BT\_20110407.mxd

# Bipole III Transmission Project

## Project Infrastructure

-  Final Preferred Route
-  3 Mile Corridor

## Infrastructure

-  Converter Station
-  Bipoles I and II

## Deployed Trail Cameras

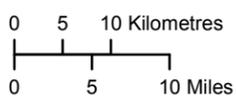
-  2010 All Other Observations
-  2010 Wolf Observations (15 Camera Sites)

## Landbase

-  Community
-  City / Town
-  First Nation
-  National/Provincial Park



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS  
 Date Created: October 24, 2011



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## Trail Camera Deployments

### Distribution of Wolf Observations in 2010

Map Series 900-03

File Location: \\GIS\PROJECTS\BIPOLIII\Orientations\Templates\Draft\_2\_BPIII\_EIS\_Templates\_20110331\BPIII\_Template\_BS\see\_Porrait\_750K\_BT\_20110407.mxd