Poplar River FN

Lake

Winnipeg

Berens River FN

Project 4 WTR

Ecoregion Number and Ecodistrict Name

- 90, Berens River
- 90, Wrong Lake
- Project 1: PR304 to Berens River

Proposed Road Alignments

- Project 4: Berens River FN to Poplar River FN
- Project 4 Study Area

Base Data

- Local Road
- Winter Road
- Transmission Line
- First Nation

Data Source:
Ecodistricts: Government of Canada,
Agriculture and Agri-Food Canada,
Ecological Stratification Working Group, 2002

MANITOBA East Side Road AUTHORITY

Joro Consultants

Coordinate System: UTM Zone 14N NAD83
Data Source: MESRA, Joro, MCWS
Date Created: March 08, 2016

0 2 4 Kilometres
0 2 4 Miles

N

1:225,000

Project 4 Wildlife Technical Report

Ecological Land Classification in the Project 4 Study Area

Map 04

Poplar River FN

Lake

Winnipeg

Berens River FN

Project 4 WTR

Surficial Geology

- Bedrock
- Deep Basin
- Organic Deposits
- Glacial Till, Paleozoic

Project 1: PR304 to Berens River FN

Proposed Road Alignments

- Project 4: Berens River FN to Poplar River FN
- Project 4 Study Area

Base Data

- Local Road
- Winter Road
- Transmission Line
- First Nation

Data Source:
Surficial Geology: Manitoba Land Initiative, 2000

MANITOBA East Side Road AUTHORITY

Joro Consultants

Coordinate System: UTM Zone 14N NAD83
Data Source: MESRA, Joro, MCWS
Date Created: March 08, 2016

0 2 4 Kilometres
0 2 4 Miles

N

1:225,000

Project 4 Wildlife Technical Report

Surficial Geology in the Project 4 Study Area

Map 05

Poplar River FN

Lake

Winnipeg

Berens River FN

Project 4 WTR

Soil Classification

- Acidic Bedrock
- Gleysolic
- Luvisolic
- Organic
- Regosolic
- Unclassified

Project 1: PR304 to Berens River FN

Proposed Road Alignments

- Project 4: Berens River FN to Poplar River FN
- Project 4 Study Area

Base Data

- Local Road
- Winter Road
- Transmission Line
- First Nation

Data Source:
Soils: Government of Canada, Agriculture and Agri-Food Canada, 2014

MANITOBA East Side Road AUTHORITY

Joro Consultants

Coordinate System: UTM Zone 14N NAD83
Data Source: MESRA, Joro, MCWS
Date Created: March 08, 2016

0 2 4 Kilometres

0 2 4 Miles

N

1:225,000

Project 4 Wildlife Technical Report

Soils in the Project 4 Study Area

Map 06

Poplar River FN

Lake Winnipeg

Berens River FN

Project 4 WTR

Land Cover Classification

- 20-Water
- 33-Exposed land
- 51-Shrub tall
- 81-Wetland - Treed
- 82-Wetland - Shrub
- 83-Wetland - Herb
- 211-Coniferous Dense
- 212-Coniferous Open
- 213-Coniferous Sparse
- 221-Broadleaf Dense
- 222-Broadleaf Open
- 223-Broadleaf Sparse
- 231-Mixedwood Dense

Project 1: PR304 to Berens River FN

Proposed Road Alignments

- Project 4: Berens River FN to Poplar River FN
- Project 4 Study Area

Base Data

- Local Road
- Winter Road
- Transmission Line
- First Nation

Data Source:
Land Cover Classification: Natural Resources Canada, Centre for Topographic Information, Earth Sciences Sector, 2009

MANITOBA East Side Road AUTHORITY

Joro Consultants

Coordinate System: UTM Zone 14N NAD83
Data Source: MESRA, Joro, MCWS
Date Created: March 08, 2016

0 2 4 Kilometres
0 2 4 Miles

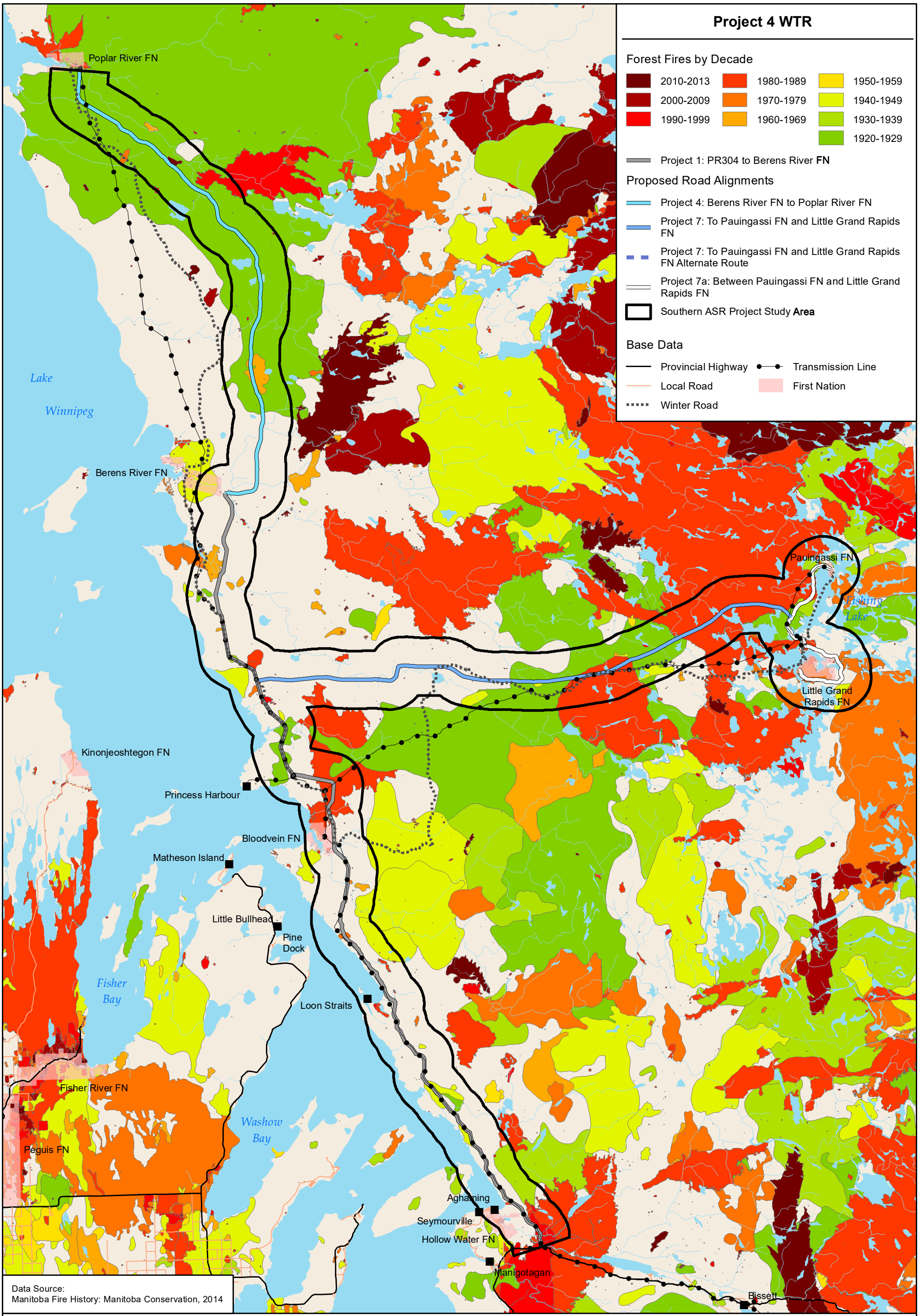
N

1:225,000

Project 4 Wildlife Technical Report

Land Cover Classification in the Project 4 Study Area

Map 07


Project 4 WTR
Forest Fires by Decade
2010-2013
2000-2009
1990-1999
1980-1989
1970-1979
1960-1969
1950-1959
1940-1949
1930-1939
1920-1929
Project 1: PR304 to Berens River FN
Proposed Road Alignments
Project 4: Berens River FN to Poplar River FN
Project 7: To Pauingassi FN and Little Grand Rapids FN
Project 7: To Pauingassi FN and Little Grand Rapids FN Alternate Route
Project 7a: Between Pauingassi FN and Little Grand Rapids FN
Southern ASR Project Study Area
Base Data
Provincial Highway
Transmission Line
Local Road
First Nation
Winter Road
Poplar River FN
Lake Winnipeg
Berens River FN
Pauingassi FN
Fishing Lake
Little Grand Rapids FN
Kinonjeoshtegon FN
Princess Harbour
Bloodvein FN
Matheson Island
Little Bullhead
Pine Dock
Fisher Bay
Loon Straits
Fisher River FN
Washow Bay
Peguis FN
Aghaming
Seymourville
Hollow Water FN
Manigotagan
Bissett
Data Source:
Manitoba Fire History: Manitoba Conservation, 2014
MANITOBA East Side Road AUTHORITY
Joro Consultants
Coordinate System: UTM Zone 14N NAD83
Data Source: MESRA, Joro, MCWS
Date Created: March 08, 2016
0 5 10 Kilometres
0 5 10 Miles
N
1:600,000
Project 4 Wildlife Technical Report
Historic Forest Fire Activity in the Southern Regional Project Study Area
Map 08

Poplar River FN

Poplar River

Lake

Winnipeg

Berens River

Berens River FN

Project 4 WTR

Predicted Caribou Calving Habitat

- Low
- Medium
- High

Proposed Road Alignments

- Project 1: PR304 to Berens River
- Project 4: Berens River to Poplar River
- Project 4 Study Area
- Project 4 January 2012 Initial Alignment

Base Data

- Local Road
- Winter Road
- Transmission Line
- First Nation

MANITOBA East Side Road AUTHORITY

Joro Consultants

Coordinate System: UTM Zone 14N NAD83
Data Source: MESRA, Joro, MCWS
Date Created: March 08, 2016

0 2 4 Kilometres

0 2 4 Miles

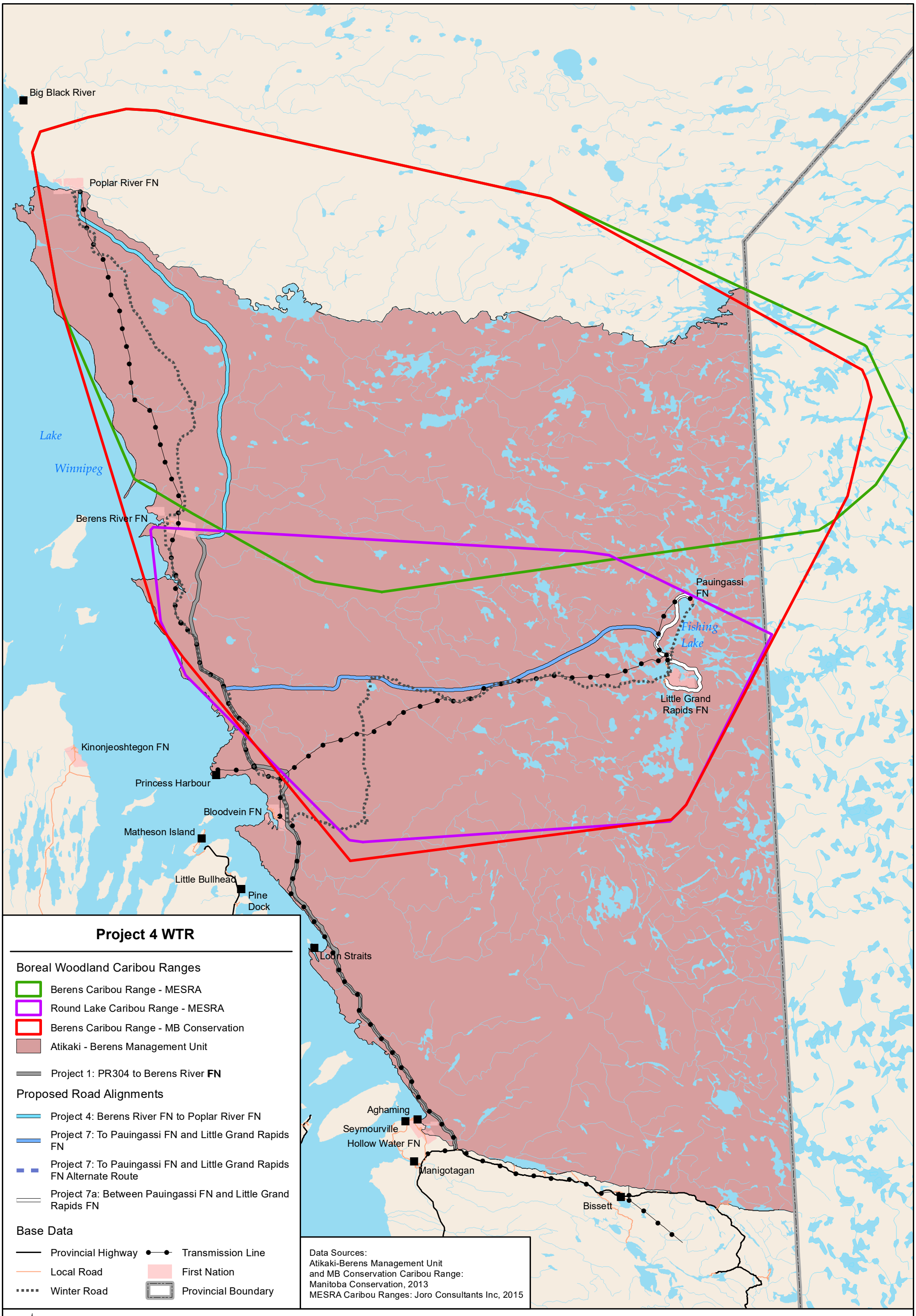
N

1:250,000

Project 4 Wildlife Technical Report

Caribou Calving Predicted High Quality Habitat - P4 Area

Map 09



Project 4 Wildlife Technical Report

Delineation of the Caribou Ranges in the Southern Regional Project Study Area

Map 10

Poplar River FN
Lake
Winnipeg
Berens River FN
Pauingassi FN
Fishing Lake
Little Grand Rapids FN
Kinonjeoshtegon FN
Princess Harbour
Bloodvein FN
Matheson Island
Little Bullhead
Pine Dock
Fisher Bay
Loon Straits
Fisher River First Nation
Washow
Aghaming
Seymourville
Hollow Water FN
Manigotagan
Bissett

Project 4 WTR

Atikaki - Berens Management Unit

Cumulative Effects Disturbances

- Roads (500m Buffer)
- Winter Roads (500m Buffer)
- Transmission Lines (500m Buffer)
- Drill Holes 1920-1960 (250m Buffer)
- Mines (500m Buffer)
- Fires 1920-1960

Base Data

- Provincial Highway
- Local Road
- Winter Road
- Transmission Line
- First Nation
- Provincial Boundary

Data Sources:
Atikaki-Berens Management Unit: Manitoba Conservation, Wildlife Branch, 2013.
Roads, Winter Roads, Transmission Lines: MESRA, 2015.
Drill Holes, Mines: Manitoba Mineral Resources, 2015.
Fires: Manitoba Conservation, 2014.

MANITOBA East Side Road AUTHORITY

Joro Consultants

Coordinate System: UTM Zone 14N NAD83
Data Source: MESRA, Joro, MCWS
Date Created: March 08, 2016

0 5 10 Kilometres
0 5 10 Miles

N

1:650,000

Project 4 Wildlife Technical Report

1960 Cumulative Effects Analysis for the Atikaki-Berens Management Unit

Map 11