

Topics: overview

Manitoba Hydro Bipole III Hearing

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The suitability of Manitoba Hydro's baseline data for use in follow-up and monitoring programs.

The decline of moose populations in the Project Study Area.

The predicted Project impact on moose.

Determining the effectiveness of any measures taken to mitigation the adverse environmental effects.

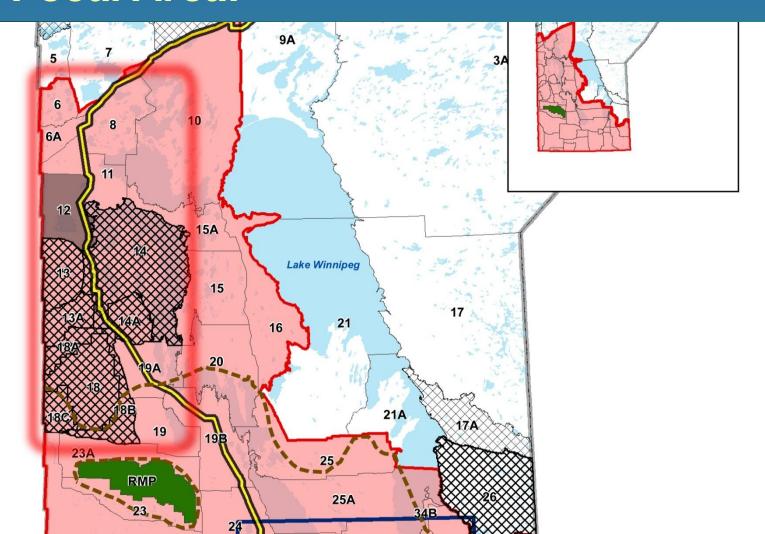
Moose response to management.

Alternative Routes.

Topic: Overview

Focal Area:

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Topic: Baseline Data

Key Findings:

Data collected in the Metis area of concern are not adequate

- Aerial surveys qualitative.
- Surveys not in area of concern.
- Sample size too low.

Cannot quantitatively compare alternative route options.

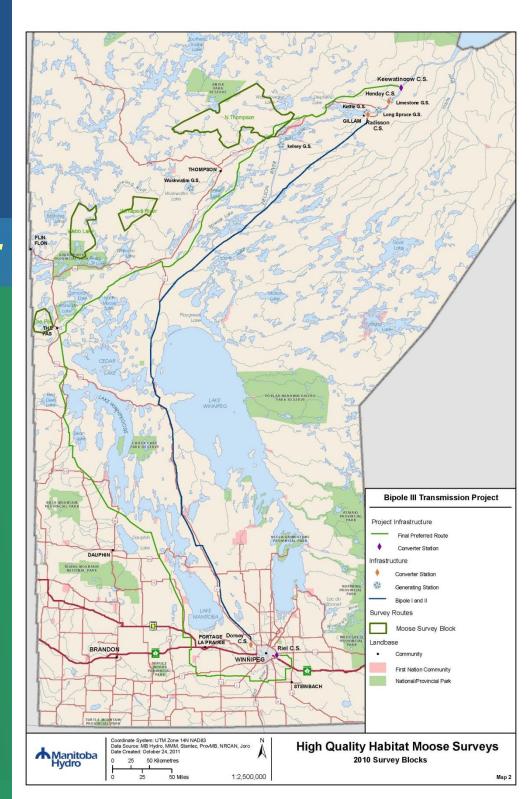
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Topic: Baseline Data

Key Findings:

No High Quality
Habitat Moose
Surveys South of
The Pas.

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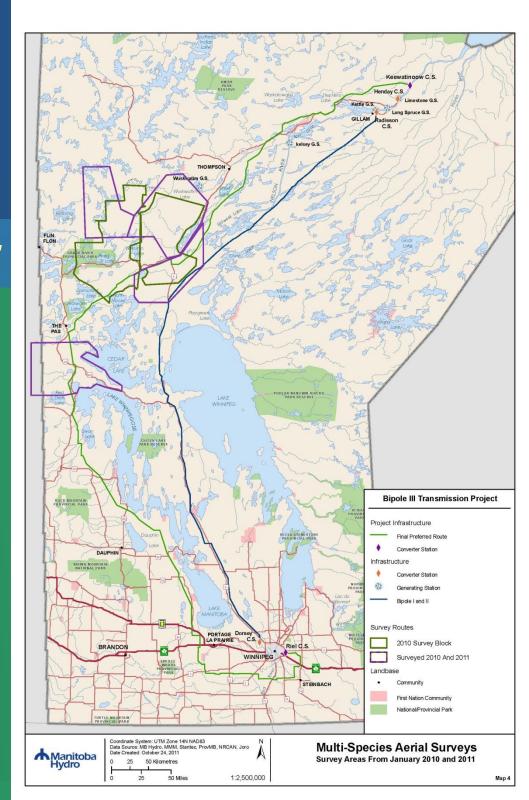


Topic: Baseline Data

Key Findings:

No Multi-Species
Aerial Surveys
South of Red
Deer Lake.

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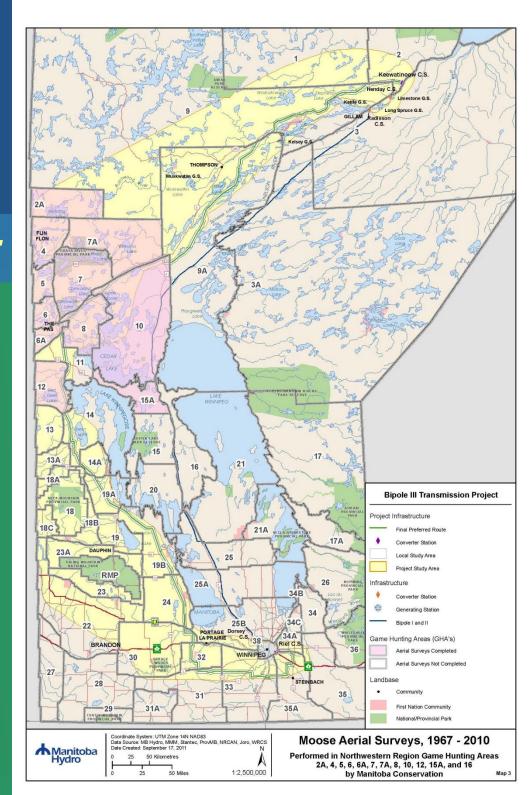
Topic: Baseline Data

Key Findings:

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No Manitoba
Conservation
Aerial Survey
data presented
for South of Red
Deer Lake.

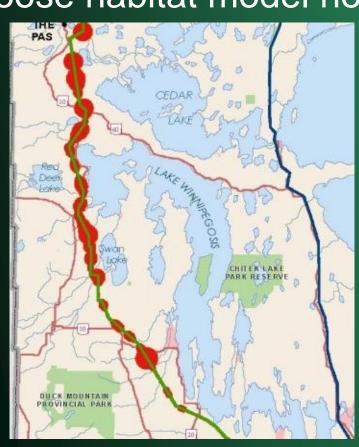


Topic: Baseline Data

Key Findings:

Moose habitat model not validated.

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Topic: Decline of Moose Populations

Key Findings:

Manitoba Metis moose harvesting areas (TLUKS) include several GHA's

Lake Winnipeg 15 21A

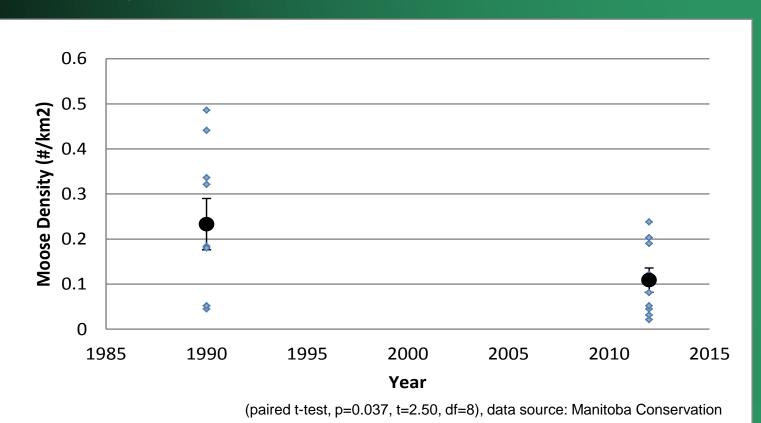
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Topic: Decline of Moose Populations

Key Findings:

Significant decrease in moose populations over last ~20 years (~53% decrease)

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Topic: Decline of Moose Populations

Key Findings:

GHA's closed for moose hunting: 13, 13A, 14, 14A (2012), and 18-18C (2010).

5 7 3A 15A Lake Winnipeg 15 17 17 16 21 17 17 186 186 188 198 21A

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Topic: Magnitude of Impact

Key Findings:

Large Magnitude: "Effects that are ...outside normal range of variation, or exceeds established threshold of acceptable change"

Manitoba Hydro does not have sufficient data to outline the natural range of variability.

Thresholds for moose populations not established in the EIS.

Acceptable to whom?

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Topic: Magnitude of Impact

Key Findings:

Acceptable to Metis? MCWS?

Moose populations already under stress.

Management action implemented.

Project and cumulative effects assessments are not informed by quantitative data or evidence to support conclusions.

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Topic: Follow-up and Monitoring

Key Findings:

Mitigation and monitoring strategies still undetermined.

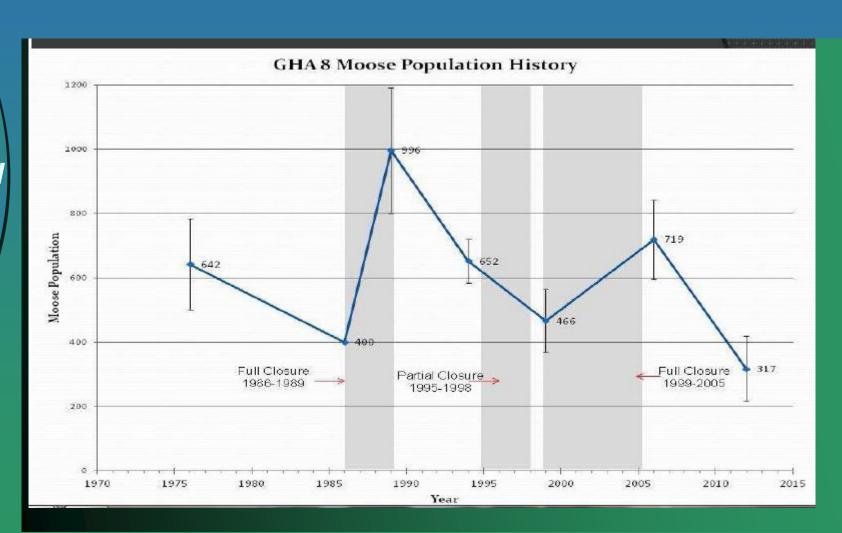
No targets or definitions of mitigation success provided.

No evidence that proposed mitigation will be successful.

Detailed follow-up program information should be available prior to Project construction (CEAA 2011).

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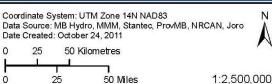
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Multiple factors at play:

- Hunting control
- Predator control
- Fire and vegetation
- Additional linear disturbance

Need baseline data to measure against. Need to demonstrate that management will be successful.

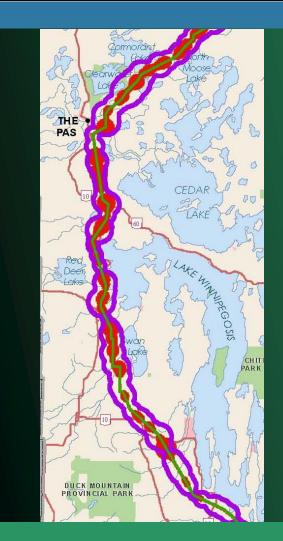




Moose Density Relative To Access Density Along The Final Preferred Route

Map 6

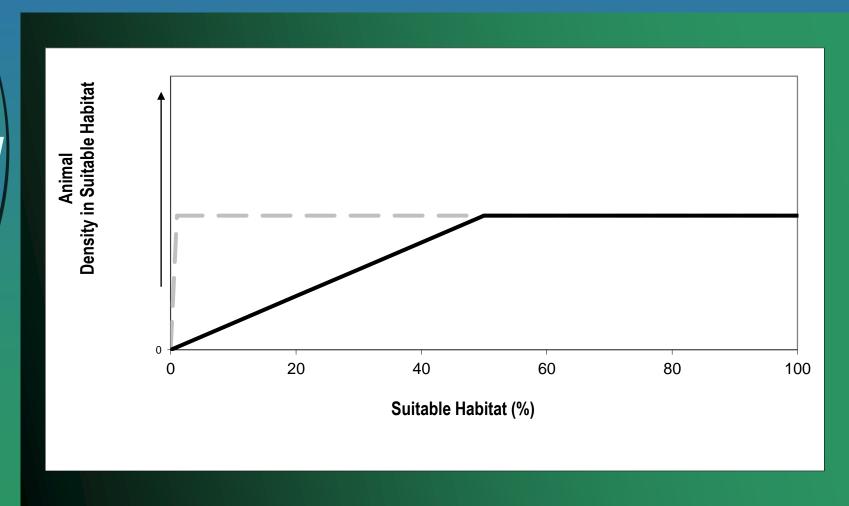
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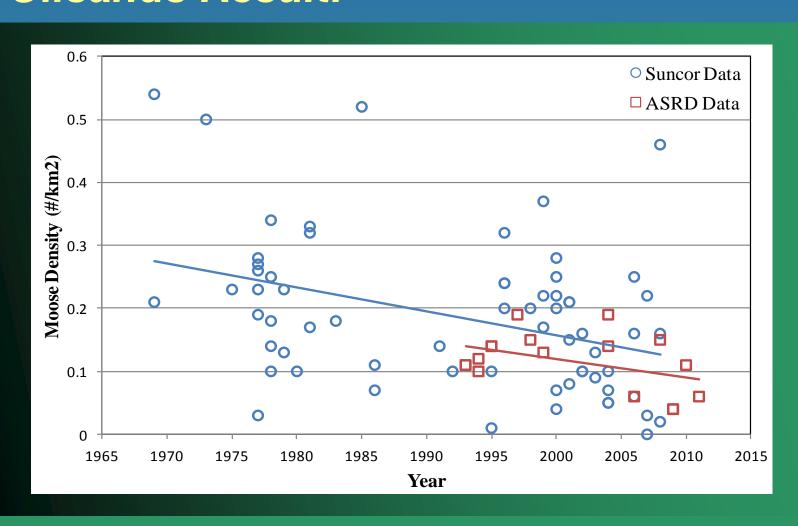
Research Result:

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Oilsands Result:

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Topic: Re-route Option

Key Findings:

Route changed in Section 7:

- Alternate route in Section 7 still does not follow existing linear disturbance.
- Map 22 of MTR shows high moose track densities in Section 7.
- Moose habitat model missed important area.
- Route should follow existing linear disturbance.

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Thank-you.