

▷‘b▷‘r~rc ▷də~s~c  
‘n̄’r ɻ~s ~d~c ~m~s~c  
‘d~L m~d~c~n~y ɻ~s~m~c ~m~e~n~b~n~y~r~L~r~c  
m~f~x~t~r ~d~d~l~c~n~a~c ~b~n~L~g~v~r~c ~d~m~s~b  
‘n~b~n~c~y~s~c~l~c - ~L~n~d~n~d~n~c~n~s~c:  
“C~n~d~r~c~n~r~b ~d~G~n~r~b ~d~A~U~c~r~L~s~c ~C~n~d~L~J~c”  
~L~n~d~n~d~n~c~n~s~c ~C~b~y~n~d~n~c~n~s~c ~d~s~J~b~d~b ~d~J~b~d~c ~C~r~v~r~d~d~r  
~d~l~d~b~C~n~d~s~c~s

‘n~s~ 2023

*Presentation from*  
***Sayisi Dene First Nation and***  
***Northlands Denesuline First Nation***

**NIRB Public Hearing – Technical Session:**  
“Meliadine Extension” Project Proposal for  
**Agnico Eagle’s Meliadine Mine**

September 2023



*Photo: G. Bussidor*

- ለጥቅምና<ብር>ስርዓትና አንድሮች በፌዴራል የሚከተሉትን ማረጋገጫዎች
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  - ልማት ስርዓትና የሚከተሉትን ማረጋገጫዎች
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- Background on Sayisi and Northlands
  - Project features of concern
  - Agnico Eagle responses
  - Issues potentially resolved
  - Remaining concerns
  - Actions required
  - Recommendations



ՀԱՅՈՒԹ ՎԵՐԱԿԱՎ ԱԼ ՄԵՐԸ ՈՒԹ ՄԵՐ ԿԵՐ

# **Sayisi Dene First Nation & Northlands Denesuline First Nation**





SAYISI DENE FIRST NATION

સાયિ નેનું દેશ દેશના માટે નેનું દેશ દેશના માટે નેનું દેશ દેશના માટે



## *Sayisi Dene First Nation & Northlands Denesuline First Nation*



Photo: A. Thorassie

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## Background

- Caribou have been central to Sayisi and Northlands existence for thousands of years
- Caribou continue to be crucial to our ability to maintain our culture and our way of life
- Any negative impacts to the declining Qamanirjuaq caribou herd or its habitat could affect our people and our rights



Photo: M. Code



ጀጀՌՌ ላጥቃው ሳምርԐ ላL መፈርሱ ሥር ሳምርԐ መፈርሱ ሥር ሳምርԐ

Sayisi Dene First Nation & Northlands Denesuline First Nation



# መርመሪያ ደንብ

- 1) ተዕርጓዊነት ስራውን የሚያስፈልግ ነው፡፡ ይህንን  
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የሚያስፈልግ ነው፡፡
  - 3) የሚያስፈልግ ነው፡፡ ይህንን  
የሚያስፈልግ ነው፡፡

# Areas of Concern

- 1) Changing caribou calving, post-calving and summer distribution near the mine. Impacts diluted by size of caribou effects study area
  - 2) High uncertainty about negative long-term sensory impacts from windfarm in post-calving range
  - 3) Negative impacts to caribou crossing movements from waterline adjacent to Discovery Road



Photo: C. Werner



ՀՅՈՒՂԱԾ ՏԵՇԱԾ ԱԼ ԹԵՇԱԾ ՈՒԾԵՄ ԹՅ ԿԵԿԻ ԿԵՐԸ

# **Sayisi Dene First Nation & Northlands Denesuline First Nation**



4) ԵԵԿԸ ՄԱՏՐԵԼՄԱՆ ԲԱՐՄԱՐԱՄԸ  
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5) ԵԵԿԸ ԱՐԵՑՈՅԻՐԸ “ԳԵՂԵՐԵՑՄԱՆ ՄԱՅՈՎ  
▷ ԱՇԽԱՀԱՌՄԱՆ ԵՎ ՇԼԳԵՑՈՎԸ ՎԵՐԱՄԱՏ  
ԿԵՐԱՎՄԱՆ ՄԱՅՈՎ”

## Areas of Concern

4) Caribou protection measures for group size and distance threshold shutdowns are not sufficient

5) Caribou movements while ‘approaching’ and ‘leaving’ the all-weather access road have not been adequately assessed



Photo: C. Werner



ԿԱՐՈՒՍ ՎԵԿԱՎ ԱԼ ՎԵԿՎ ՈՎՄՎ ՎԵ ԿԵՎԼՎ

Sayisi Dene First Nation & Northlands Denesuline First Nation





# ፳፻፲፭ የፌዴራል ማረጋገጫ አስተዳደር ቅጽ # ፧



# AEM Responses to Concern # 1

- Provided updated impact assessments & habitat selection of caribou during post-calving and summer periods near mine infrastructure between 2012 and 2022. Impacts not significant
  - Some concerns addressed at the Terrestrial Advisory Group included baseline noise monitoring and alternate wind turbine locations

ՀՐԱՄԱՆ ՊԵՏԱԿԱՆ ՎՐԱ ՔՐԵԱԿԱՆ ՀԱՆՐԱՊԵՏՈՒԹՅՈՒՆ

# **Sayisi Dene First Nation & Northlands Denesuline First Nation**



- ችግር እና አገልግሎት ማረጋገጫ የሚያስፈልግ ይችላል
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  - የሚያስፈልግ የሚያስፈልግ የሚያስፈልግ የሚያስፈልግ

# AEM Responses to Concern #2

- An additional caribou monitoring study will be added to the Windfarm Management Plan
  - Additional maps of increased caribou presence provided; continues to consult with Kivalliq Elders Advisory Board
  - Wind turbines shutdown when caribou at 5 km



Photo: CWC



ՀՅՈՒՂԱԾ ՎԵԿՏՈՐ ՎԵԿՏՈՐ ՎԵԿՏՈՐ ՎԵԿՏՈՐ ՎԵԿՏՈՐ ՎԵԿՏՈՐ ՎԵԿՏՈՐ ՎԵԿՏՈՐ

# **Sayisi Dene First Nation & Northlands Denesuline First Nation**





*Photo: CWC, 2003*

◀σJ ΔJd<sup>c</sup> P▷☒U▫G ΔJT▫JRL▷☒G<sup>c</sup> # 3

- የፌዴራል በርሃን እና ስራውን ማስረጃ ይፈጸማል  
በነፃተኛ ሰዓት የሚገኘውን ማስረጃ ይፈጸማል
  - ለመሆኑን የሚከተሉት ማስረጃዎች የሚያሳይ

# AEM Response to Concern # 3

- Provided schematic profiles of all-weather access road intersection with Discovery Road, waterline coverings and diagram of adjacent waterline near the road
  - Did not provide specific plan for southeast Meliadine Lake crossing or waterline markers to assess for potential caribou deflections

ՀՅՈՒՍՏ ՎԵՐԱԿՐՈՆ ՎԵՐԱԿՐՈՆ ՎԵՐԱԿՐՈՆ ՎԵՐԱԿՐՈՆ ՎԵՐԱԿՐՈՆ

# **Sayisi Dene First Nation & Northlands Denesuline First Nation**





Photo: CWC

◀ σJ ΔJd<sup>c</sup> P▷☒□▫ G ΔJT▫R▫L▷☒▫P<sup>c</sup> # 4



# AEM Response to Concern # 4

- Agnico Eagle maintains there is no evidence to show there is a need to change caribou protection measures and that current group size and distance thresholds are effective and conservative

ՀՅՈՒՍՏ ՎԵԿԱԾ ՎԼ ՔՎԵՀ ՈՒՄ ՄՐՋԱ ՔԳ Ե ԿԵԿ ԿԵՐԼ ՎԸ

# **Sayisi Dene First Nation & Northlands Denesuline First Nation**





Photo: CWC

◀σJ ΔJd<sup>c</sup> P▷xU<sup>a</sup>R ΔxT<sup>b</sup>zR▷x<sup>c</sup># 5

- የዚህናንፃያ በዚህ ማረጋገጫ ሲሆን እንደሚከተሉ ይመለከታል
  - የዚህናንፃያ የሚከተሉትን ማረጋገጫዎች የሚከተሉትን ማረጋገጫዎች የሚከተሉትን ማረጋገጫዎች የሚከተሉትን ማረጋገጫዎች

# AEM Response to Concern # 5

- Analysis of caribou movements near mine and potential windfarm are completed
  - Analysis did not adequately explain or interpret caribou movements 'approaching' and 'leaving' all-weather access road and conflicted with other evidence



ՀԱՅՈՒԹՎԻ ՏԵՍԱԿԱՆ ԱՌԱՋՎԱՐԱԿԱՆ ՄԱՍԻՆ ՀԱՅՈՒԹՎԻ ՏԵՍԱԿԱՆ ԱՌԱՋՎԱՐԱԿԱՆ ՄԱՍԻՆ

# **Sayisi Dene First Nation & Northlands Denesuline First Nation**



# Δર୍ଲଜ୍‌ନ୍ଦା ଏଣ୍ଟର୍‌ପ୍ରିକ୍‌ର୍ଚ୍

- ଶୁଭେ ଆଜିଦିରେ ଅର୍ଲଜ୍‌ନ୍ଦାରେ ଲେନ୍‌ଦେଣ୍ଟିଫିନ୍‌ର୍କ୍‌ରେ, ଡାକ୍‌ରେଜିଷ୍ଟ୍ରେସନ୍‌ସିସ୍‌ଟ୍‌ମ୍‌ଟ୍‌ରେ ପାଇଁ ପାଇଁର୍ଗ୍‌ରେ
- ଅର୍ଲଜ୍‌ନ୍ଦା ଲେନ୍‌ଦେଣ୍ଟିଫିନ୍‌ର୍କ୍‌ରେ ପର୍ଯ୍ୟାନ୍‌ତ ବର୍ତ୍ତମାନରେ, ଅର୍ଲଜ୍‌ନ୍ଦାରେ ରୁହି

## Issues Potentially Resolved

- Agnico Eagle has committed to resolve some of our concerns, such as spill response and noise monitoring
- Some commitments have not yet been fulfilled, so concerns remain



Photo: M. Code



ନୀରୁନ୍‌ଦେଣ୍ଟିଫିନ୍‌ର୍କ୍‌ରେ ଅର୍ଲଜ୍‌ନ୍ଦା ଏଣ୍ଟର୍‌ପ୍ରିକ୍‌ର୍ଚ୍

**Sayisi Dene First Nation & Northlands Denesuline First Nation**



# አዲስ ዘመን



# Remaining Concerns

- 1) Increased caribou movements near the mine have been re-assessed for significance, but conflict with observed impacts
  - 2) High uncertainty and risk of negative impacts to caribou from windfarm location
  - 3) Road and waterline structures may have negative impacts on movements of caribou at water crossings



*Photo: CWC*



ՀՀՐՈՒԹ ՎԵՐԱԿԱՎ ՏԼ ՔՎԵՎՆ ՈՒԹՎԵՎ ՔՋ ԿԵՐՆ ՀԵՐԼ ՀԸ

# **Sayisi Dene First Nation & Northlands Denesuline First Nation**



# አዲስ አበባ

- 4) ችግር የሚከተሉት ስምዎች የሚከፈል የሚመለከት ነው  
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# Remaining Concerns

- 4) Caribou protection measures are not sufficient to mitigate potential negative impacts to caribou migration patterns
  - 5) An analysis of caribou movements ‘approaching’ and ‘leaving’ the all-weather access road before waterline installation, is still needed



Photo: CWC



ՀՅՈՒՍՏ ՎԵՐԱԿՐՈՆ ՎԵՐԱԿՐՈՆ ՎԵՐԱԿՐՈՆ ՎԵՐԱԿՐՈՆ ՎԵՐԱԿՐՈՆ

## **Sayisi Dene First Nation & Northlands Denesuline First Nation**



# Λርቦና ሌሎች አገልግሎት

ለጠናቂያዎች ማረጋገጫ ተደርሱ ይችላል ልማት

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- 1) ቅርቡ በ ሪፖርት ለማርመራ
- 2) ልማት በ ሪፖርት ለማርመራ
- 3) ዲጂት ለማርመራ

## Actions Required

Additional actions are needed to avoid negative impacts and to minimize project effects that could:

- 1) Change caribou migration patterns
- 2) Cause negative impacts to caribou while in calving, post-calving and summer habitats
- 3) Negatively impact caribou herd productivity and health



Photo: M. Code



ኋሩ ማረጋገጥ ልማት የሚከተሉ ስም

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- 1) Agnico Eagle reconsider and revise existing impact predictions and significance determinations related to caribou, based on detected impacts, such as impacts to known caribou crossings, and the proposed extended mine life. This should be done prior to the approval/recommended approval of the Meliadine Extension proposal
  - 2) The proposed wind farm should not proceed



ՀՃՐ Ո՞՛Ս ՎՇՎԱԾ ՎԼ ՄՎՎՀ Ո՞՛Ս ՎՇՎԱԾ ՄՋ ԿԵՋ ԿԵՎԼ ՎԾ

## **Sayisi Dene First Nation & Northlands Denesuline First Nation**



3) የዕድገትዎችንበር ተደርጓል ለማርመራው ማረዳው  
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- 3) Further assessment of caribou movement and behavior monitoring at the southeast Meliadine Lake caribou crossing should be conducted prior to the installation of the Discovery Road waterline
  - 4) The caribou group size threshold for migration protocols be reduced to allow more small groups to experience protection measures and increase the distance threshold for the mine operations and all-weather access road
  - 5) Key analysis of caribou movements ‘approaching’ and ‘leaving’ the all-weather access road be completed prior to approval/recommended approval of the Meliadine Extension proposal



ՀԱՅՈՒԹ ՎԵՐԱԿԱՎ ՎԵՐԱԿԱՎ ՎԵՐԱԿԱՎ ՎԵՐԱԿԱՎ ՎԵՐԱԿԱՎ

# **Sayisi Dene First Nation & Northlands Denesuline First Nation**



# ᐊᑕጀጀ ପିଲାର୍ସନ୍ (ବେରିଫିକ୍ସନ୍)

ଲେଖା ଅନୁଷ୍ଠାନିକ ଉତ୍ସବ:

- କାନ୍ଦାର୍ ପିଲାର୍ସନ୍ ଉପରେ ଲେଖା ଅନୁଷ୍ଠାନିକ ଉତ୍ସବ 43 ମାତ୍ରାଙ୍କ ପାଇଁ ପାଇଁ - ମାତ୍ରାଙ୍କ  
- କାନ୍ଦାର୍ ପିଲାର୍ସନ୍ ଉପରେ ଲେଖା ଅନୁଷ୍ଠାନିକ ଉତ୍ସବ  
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- କାନ୍ଦାର୍ ପିଲାର୍ସନ୍ ଉପରେ ଲେଖା ଅନୁଷ୍ଠାନିକ 54  
ମାତ୍ରାଙ୍କ ପାଇଁ
- ବେରିଫିକ୍ସନ୍ ପିଲାର୍ସନ୍ ଉପରେ ଲେଖା ଅନୁଷ୍ଠାନିକ ଉତ୍ସବ  
ମାତ୍ରାଙ୍କ ଏବଂ ପାଇଁ
- ବେରିଫିକ୍ସନ୍ ପିଲାର୍ସନ୍ ଉପରେ ଲେଖା ଅନୁଷ୍ଠାନିକ ଉତ୍ସବ  
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## Recommendations (continued)

Two additions to the Project Certificate:

- Revise Term and Condition # 43-Terrestrial Wildlife and Wildlife Habitat – General
  - Revise caribou protection group size and distance thresholds based on recent changes to caribou distribution
- Revise Term and Condition # 54-'Movement of Wildlife'
  - Conduct a study of the major caribou crossing at the southeast end of Meliadine Lake to implement specific mitigations

No information provided in the 2022 Annual Report changed these recommendations



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Sayisi Dene First Nation & Northlands Denesuline First Nation



# ◀ΛӮԾՐՅԿԸ՞?

# Questions?



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**Sayisi Dene First Nation & Northlands Denesuline First Nation**



*Photo: G. Bussidor*