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# Parks Canada

Public Hearing Presentation to the  
MVEIRB

*Proposed Prairie Creek Mine,  
Canadian Zinc Corporation*

EA 0809-002

June 23,24, 2011



Parks  
Canada

Parcs  
Canada

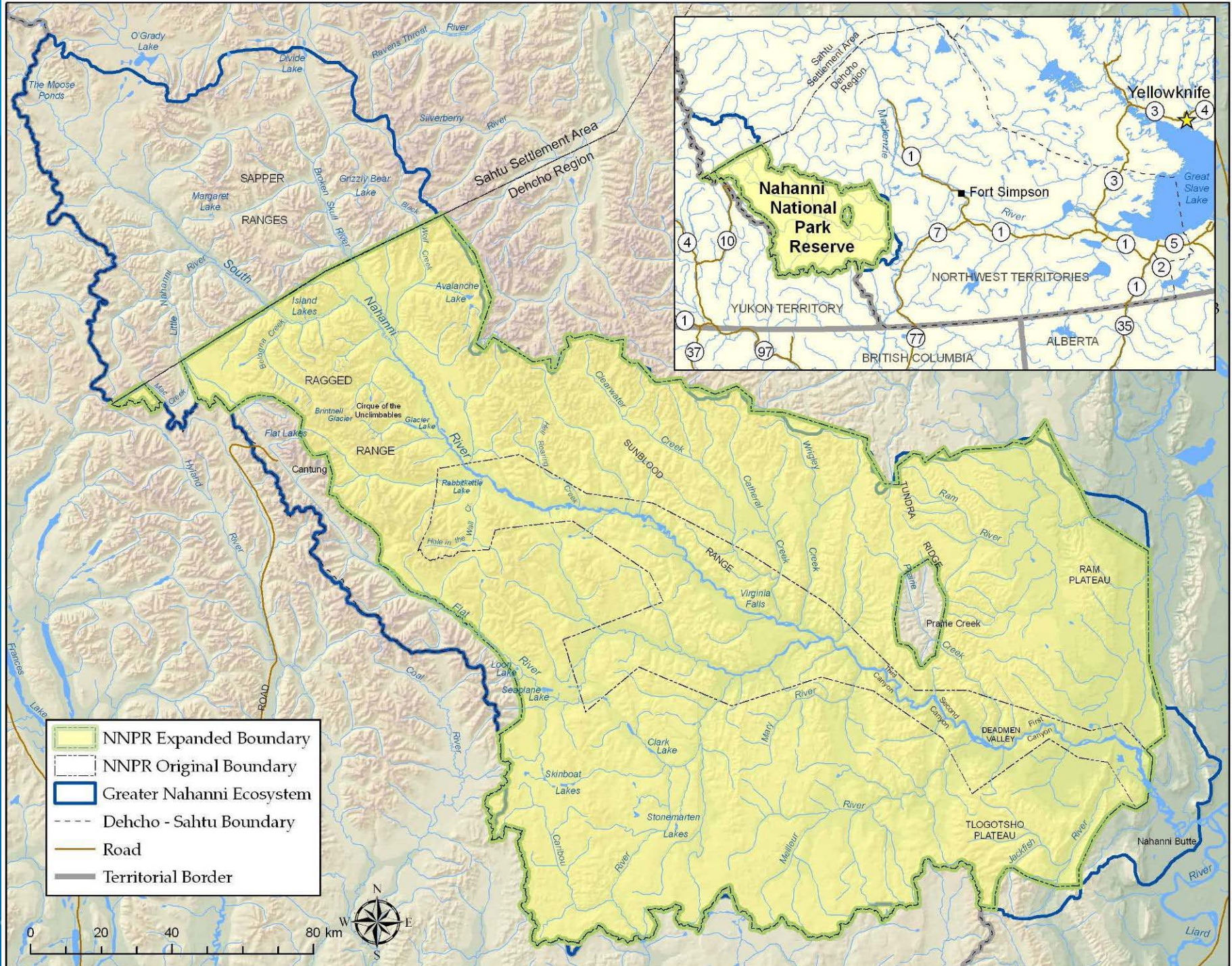
Canada

# Outline

- Introduction to Nahanni National Park Reserve of Canada
- Analysis of the potential impacts of the winter access road
- Analysis of the potential impacts of the mine site









# Dehcho First Nations Traditional Territory

- Consensus Team
- Interim Park Management Arrangement



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# Other Designations

- Canadian Heritage River
- World Heritage Site





# Road Issues

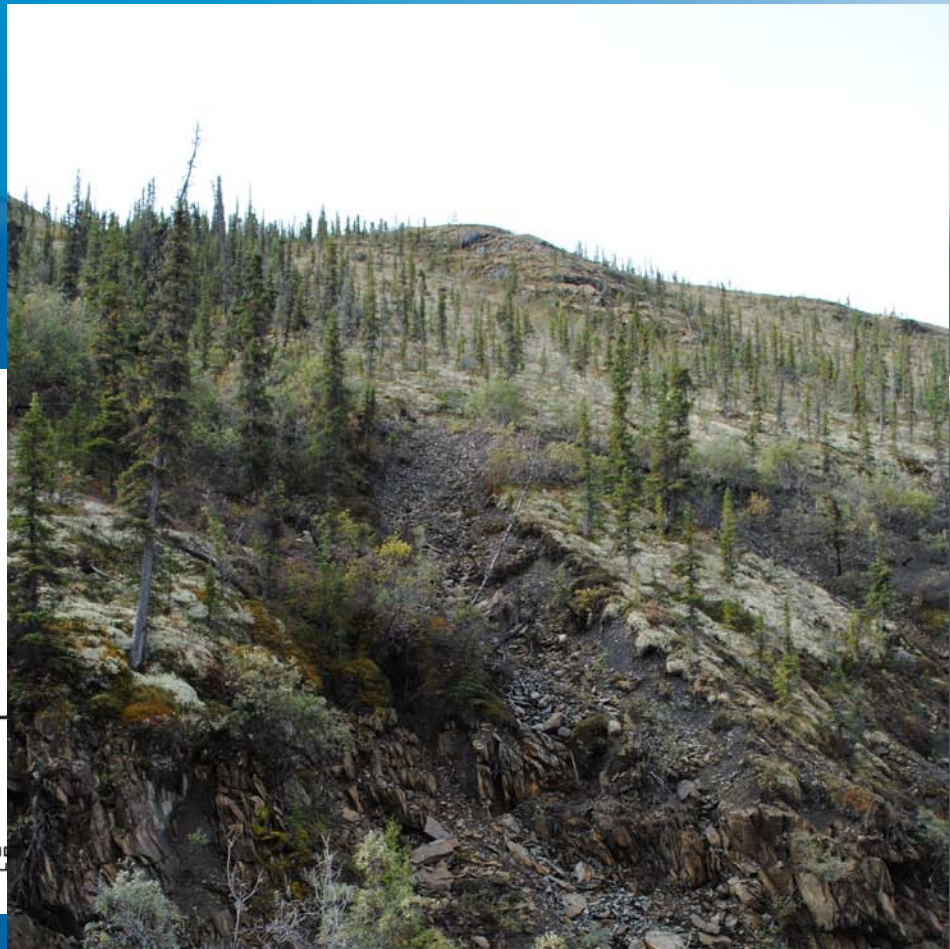
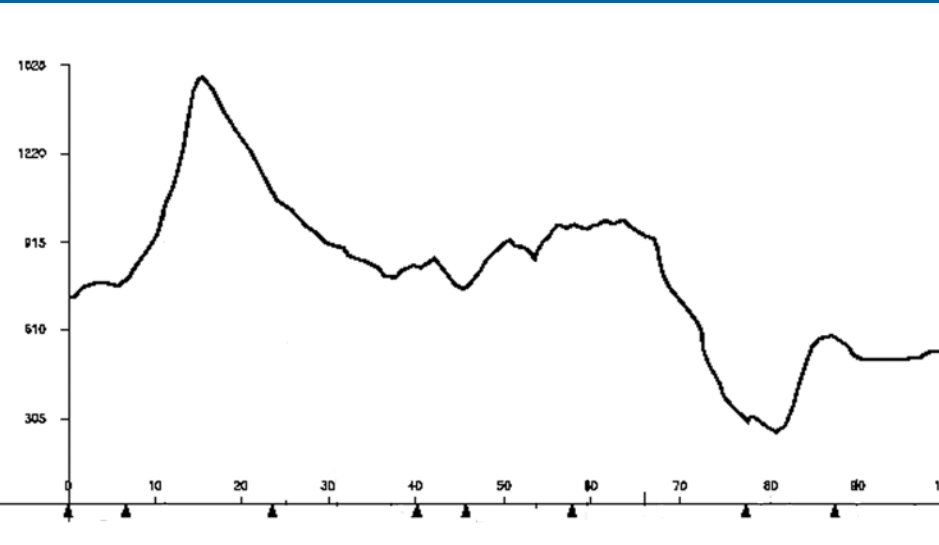
- Spills
- Road construction
- Karst
- Vegetation
- Wildlife
- Conclusions





# Spills

High probability



High  
consequences



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# Spills

Mitigation proposed by Proponent:

- Barriers, speed limits, run away lanes etc.
- Spill response plan

What we don't know:

- Where mitigations will be applied
- Whether some of the mitigations will be applied

Recommendation for learning and monitoring





# Road Construction Unknowns

- Water use
- Aggregate use
- Permafrost, stability, avalanches
- Stream crossings



# Karst

- Route alteration proposed to minimize impacts
- More detailed investigations will be needed to confirm this is the best route
- Recommendation for monitoring





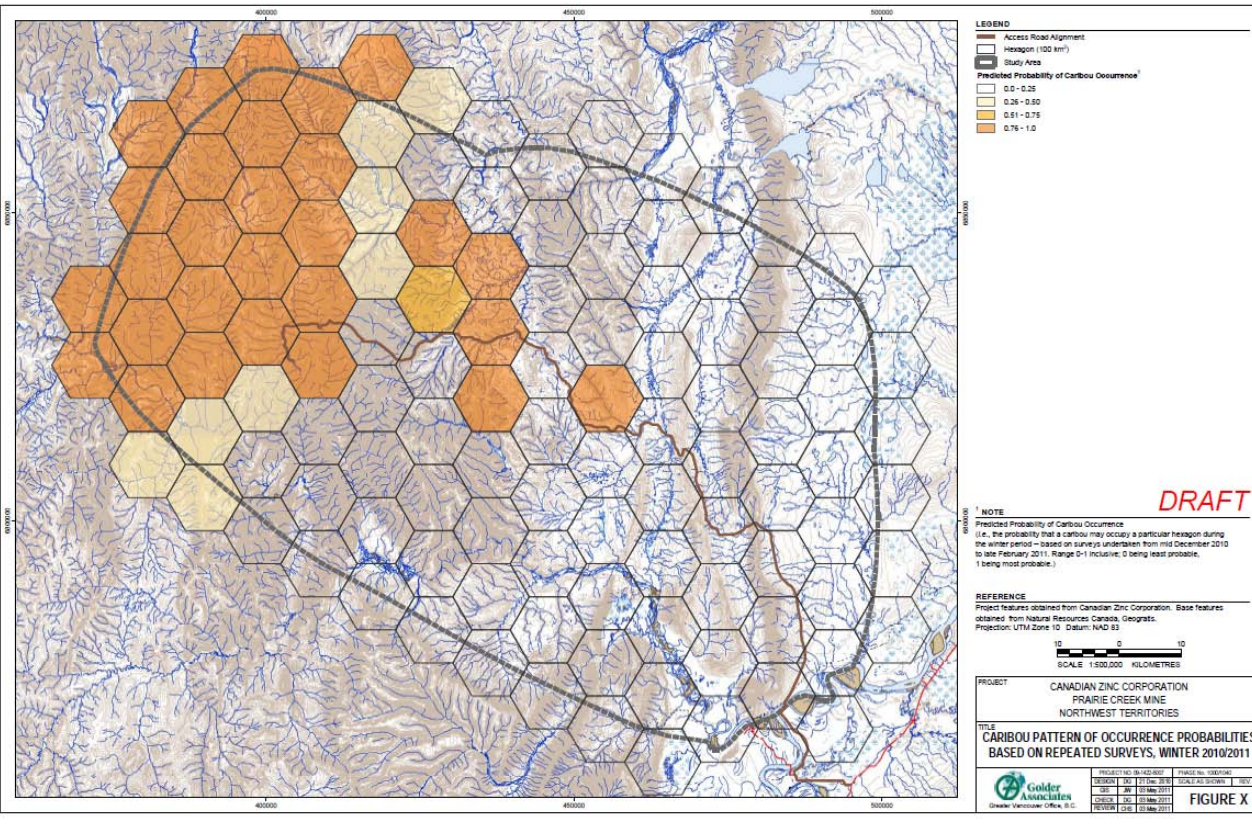
# Vegetation

- Invasive species, rare plants
- Proponent conducted surveys
- Recommend monitoring and incorporation of results into reclamation planning



# Wildlife

- Limited data
- Additional surveys winter 2010/2011





# Wildlife

- Proponent provided draft Wildlife Management Plan
- Some mitigations for wildlife along the road are missing, particularly with respect to locations
- Recommend traffic management procedures and monitoring



# Road Conclusions

- Road designed at a conceptual level
- Project design and details of mitigations unknown for many aspects
- Unknowns create uncertainty about the potential impacts.





# Mine site

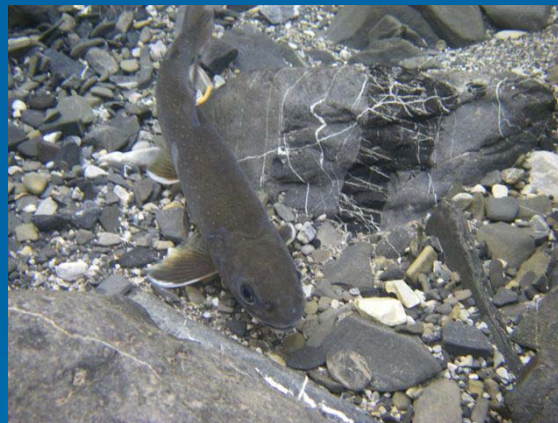
- During mine operation
- Post-closure



# Mine operations

## Ecological integrity of Prairie Creek Aquatic Ecosystem

- In the park, physical processes that influence aquatic ecosystems will operate within the natural range of variation.
- Aquatic invertebrate and algal communities inside the park are characteristic of the natural region.





# Mine operations

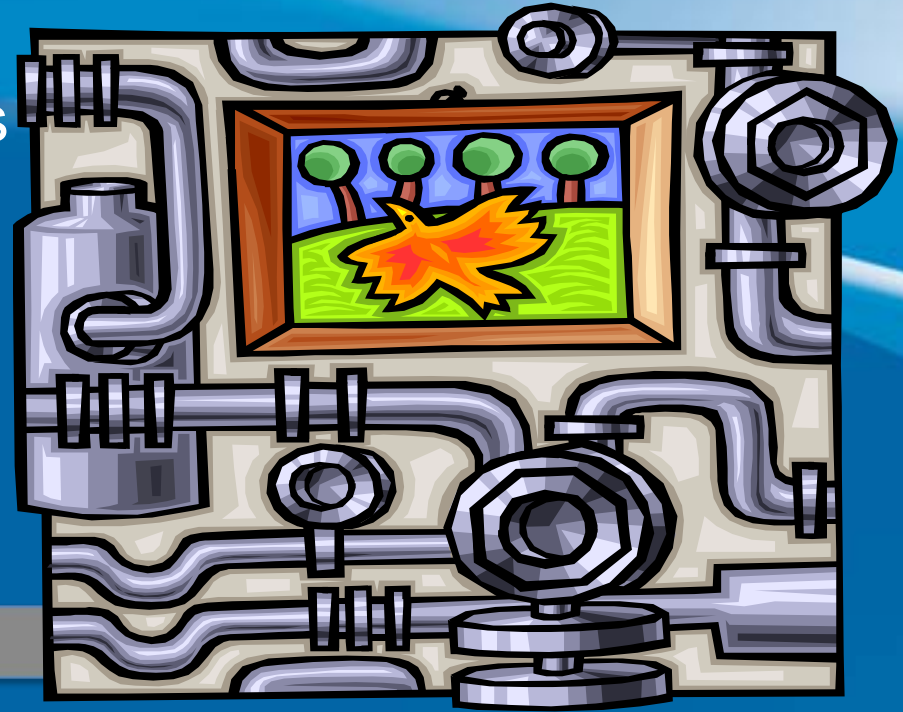
Mine Operations



Effluent Quality  
Criteria/Water licence limits



Prairie Creek Site Specific Water Quality Objectives



# Mine operations

Recommendation to include monitoring site within the park and a decision response system with thresholds





# Post closure

No plans for tailings that may not fit below ground create uncertainties about potential impacts on the Prairie Creek Aquatic Ecosystem.



# Mine Site Conclusions

The existing information does not provide confidence that the proposed approach will mitigate any potentially significant impacts to Prairie Creek's aquatic ecosystem.





# Questions?



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