



NioBay
METALS

Our Future is Green

James Bay Niobium Project

TSXV: **NBY** | OTCQB: **NBYCF**

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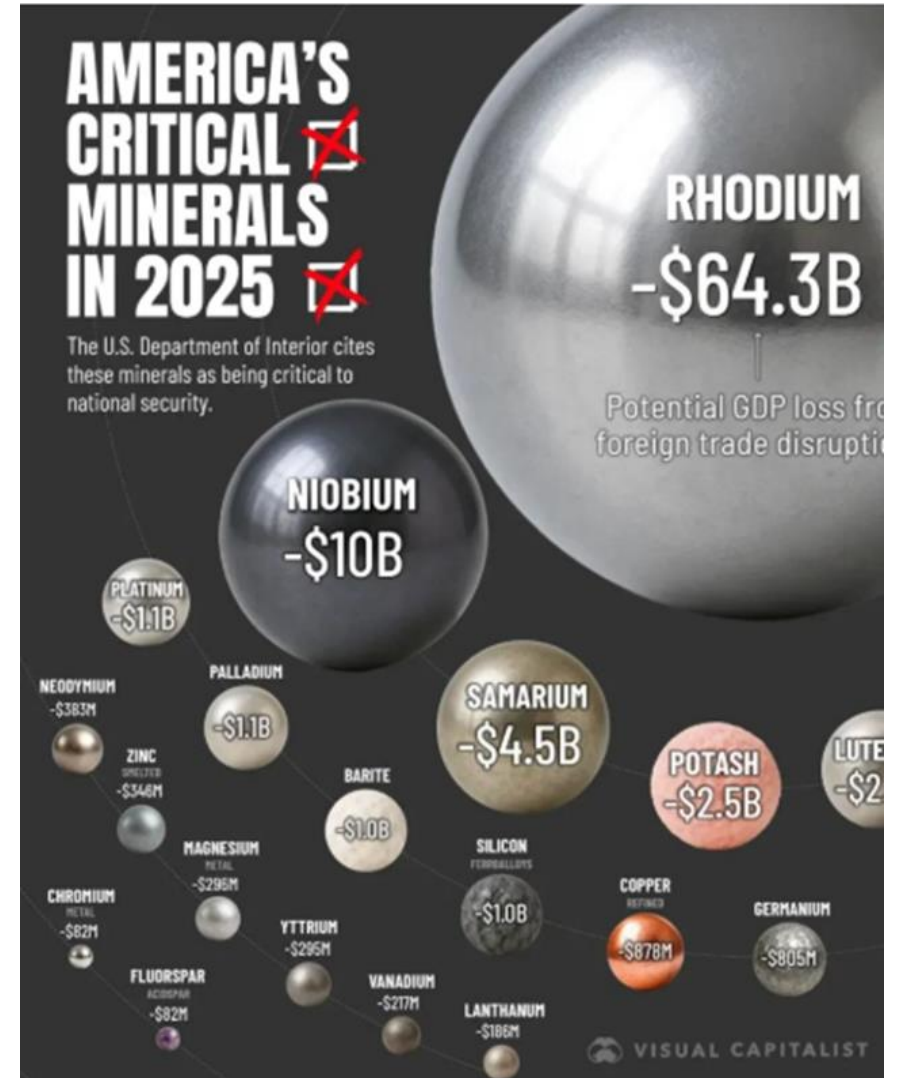
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Acknowledgement: NioBay acknowledges that our exploration project is located on Crown land situated within the traditional territory of the Moose Cree First Nation.

Who we are

NIOBAY IS:

- A Canadian critical minerals explorer
- Advancing niobium-focused assets in Québec & Ontario
- Multiple NI 43-101 resources with positive PEAs
- Exposure to steel, EV, and advanced technology markets
- Collaborating with universities to advance end-products and niobium research
- Backed by Québec government & Osisko as a major shareholder



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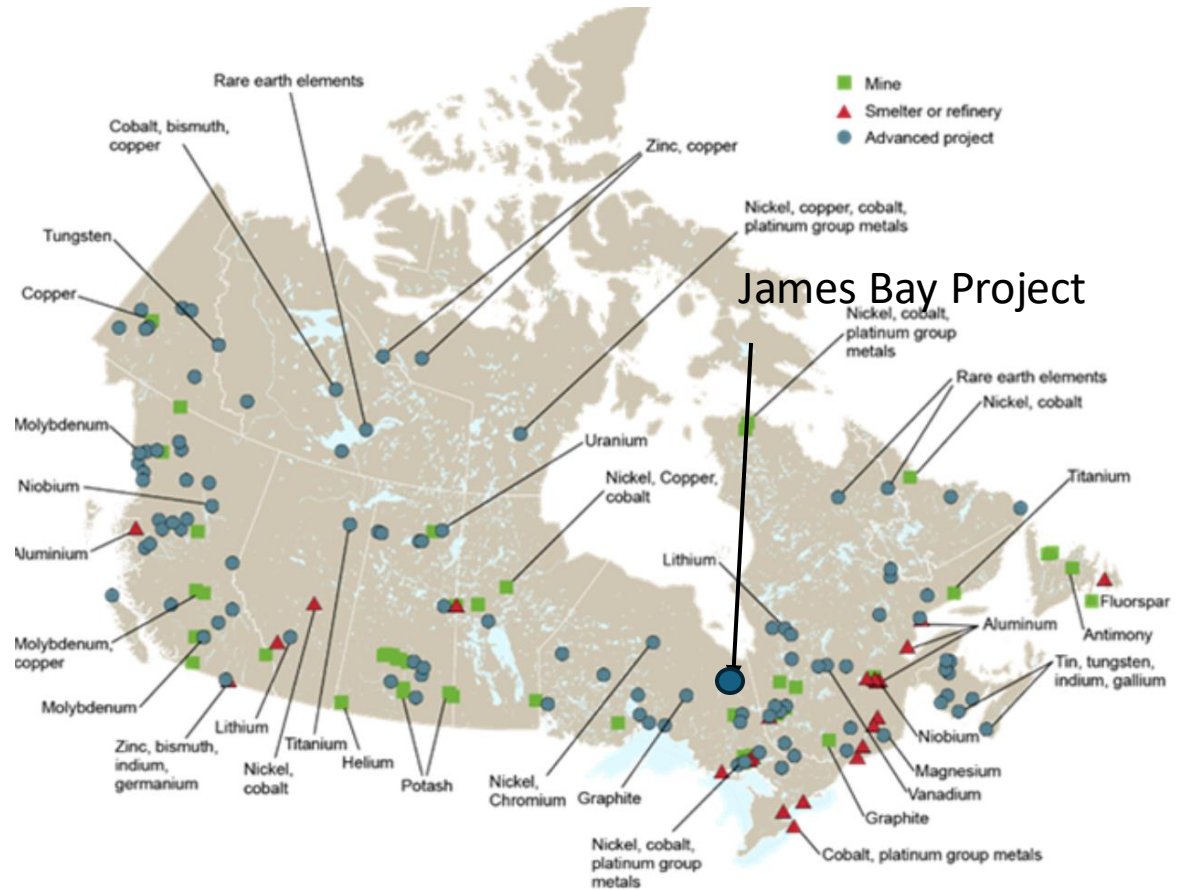


L. Paul Bédard, Eng., Ph.D.
Strategic Advisor, Geology
Professor at UQAC & Director of the Centre for Studies on
Mineral Resources (CERM)

The Critical Minerals Strategy in Canada

Our goal: to become part of the future Canadian supply chain

- Critical minerals present a **generational** opportunity for Canada in many areas: exploration, extraction, processing, downstream product manufacturing, and recycling. The federal government is committed to seizing this opportunity to benefit every region across the country.
- The Canadian Critical Minerals Strategy will increase the supply of **responsibly sourced** critical minerals and support the development of domestic and global value chains for the green and digital economy.



Critical Minerals are Fundamental to the Clean Energy Transition



Automotive
(structure, body)



Bridges
(beams, rods)



High-rise
buildings



Aerospace
(jet engine, rivets)



Stainless steel
(Exhaust)



Tools



Medical
(MR, implants)



Electronics
(semiconductors)

Niobium is:

- A metal used to make steel *lighter* and *stronger*
- Used to make lighter and safer vehicles, which contribute to reduce the global carbon footprint
- A component that helps to reduce emissions of Greenhouse gases/Carbon footprint

Niobium's Contribution to the Environment

Niobium helps to make lighter and safer structures which contributes to reduce global carbon footprint



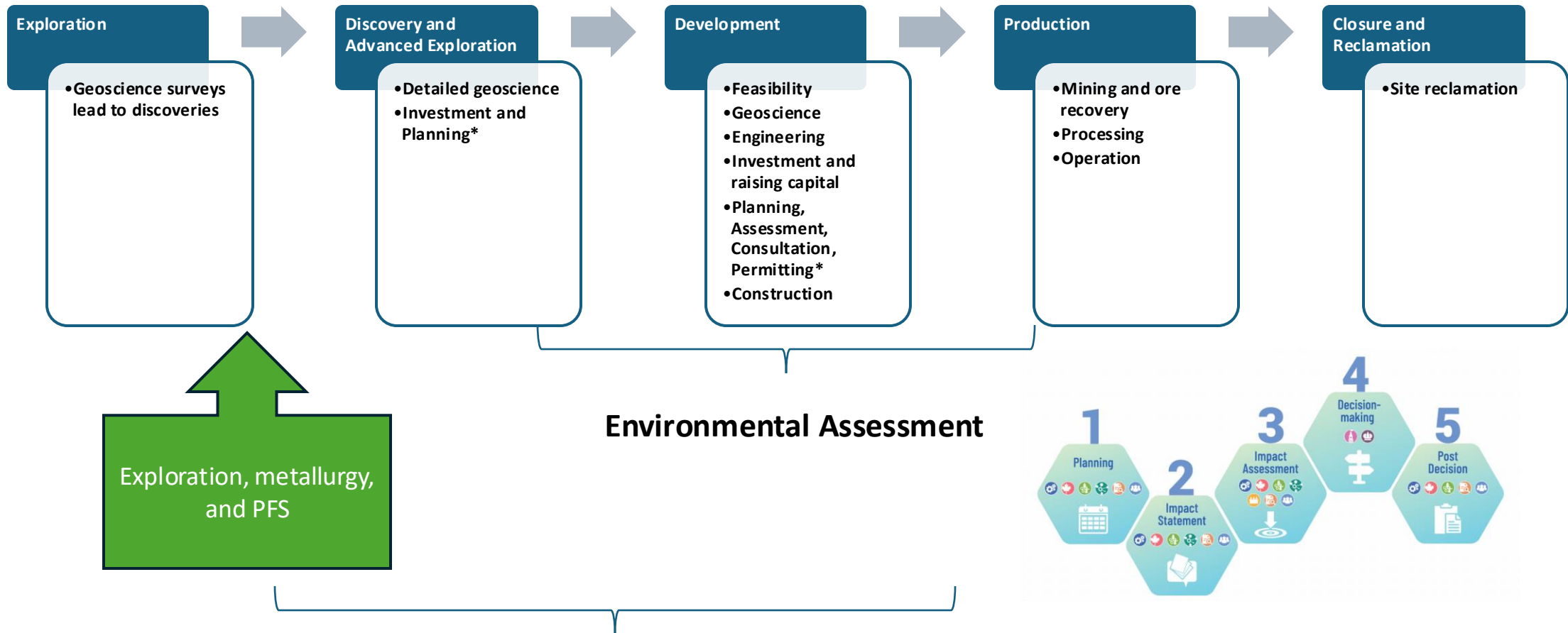
0.02% of Niobium in a bridge



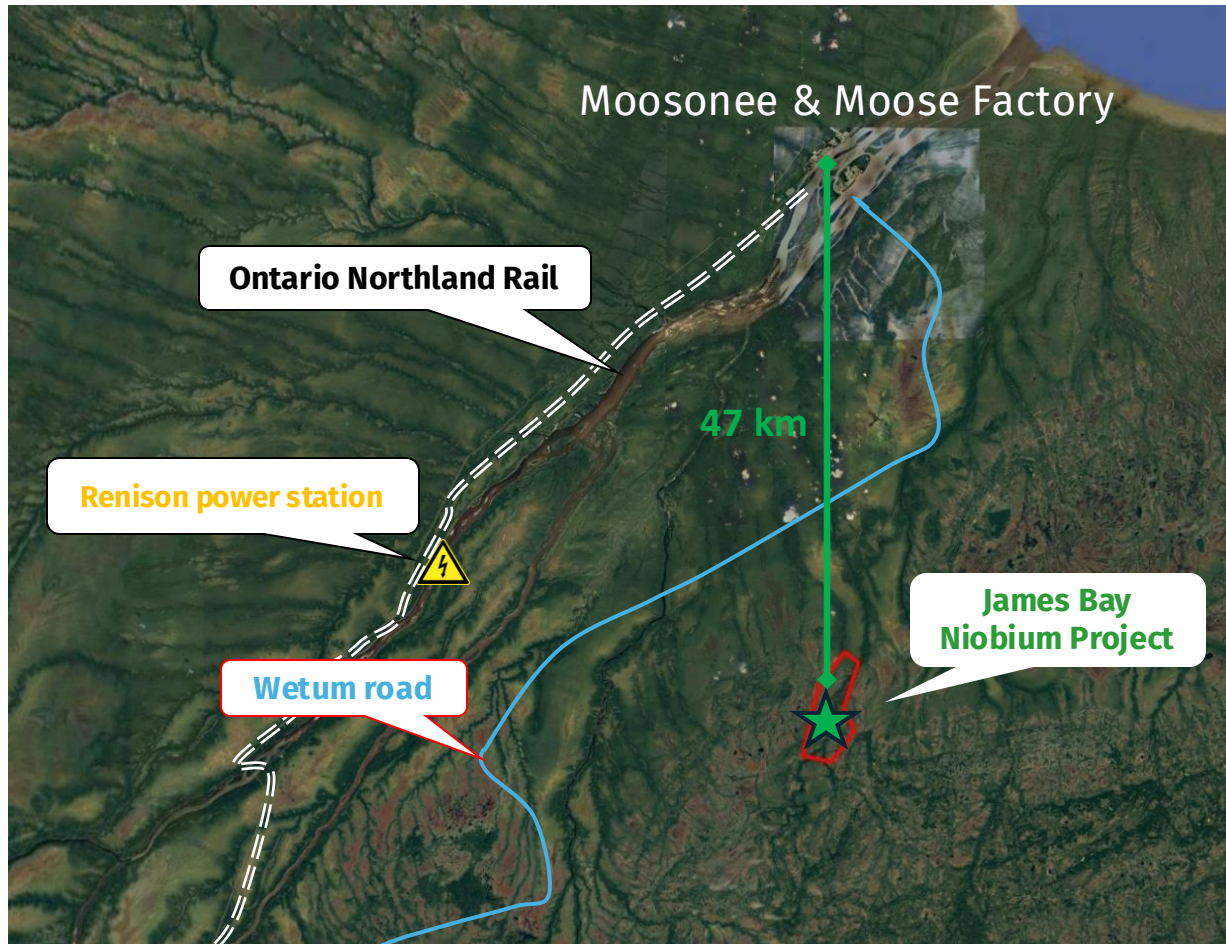
\$25M &
15,000 tons of
steel savings



What are the main stages of project development? At what stage is the James Bay Project?

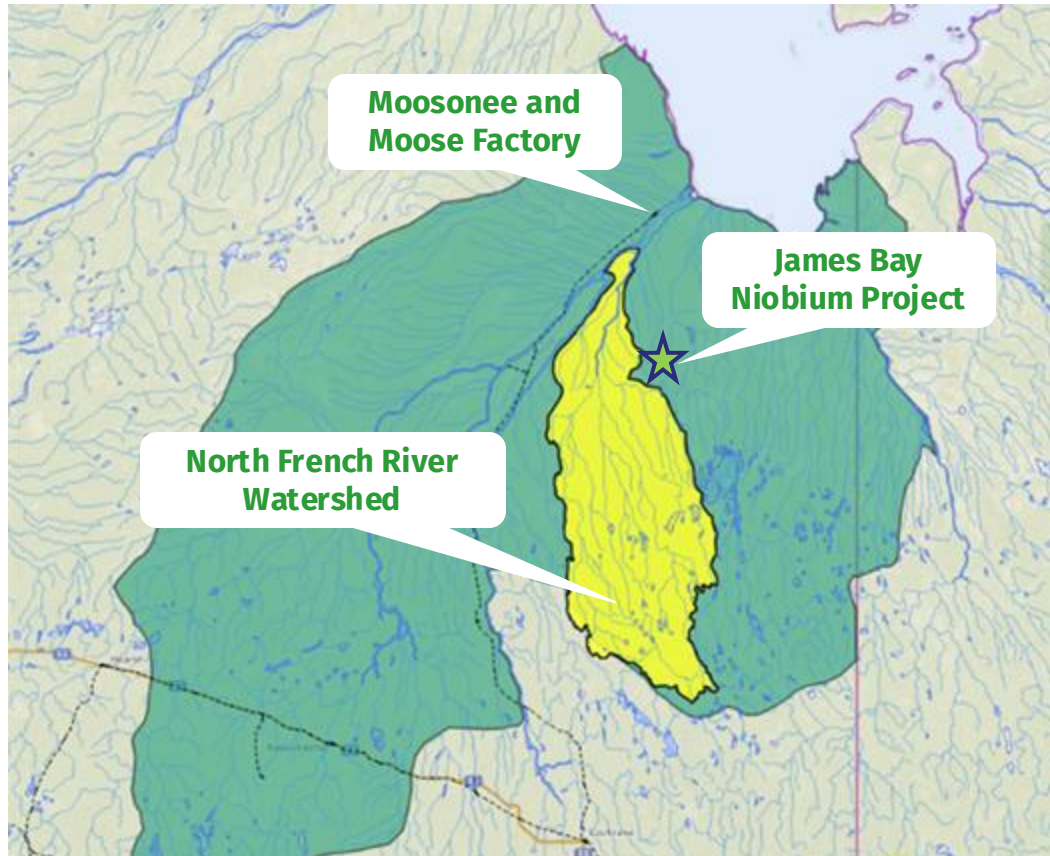


The James Bay Project: One of the World's Best Niobium Critical Mineral Deposits



- **Our Approach: Prioritize Usage of Existing Infrastructure to reduce footprint**
- Moosonee and Moose Factory communities
- Ontario Northland Rail for heavy equipment transport
- Renison Power Station
- Avoid Major Watersheds

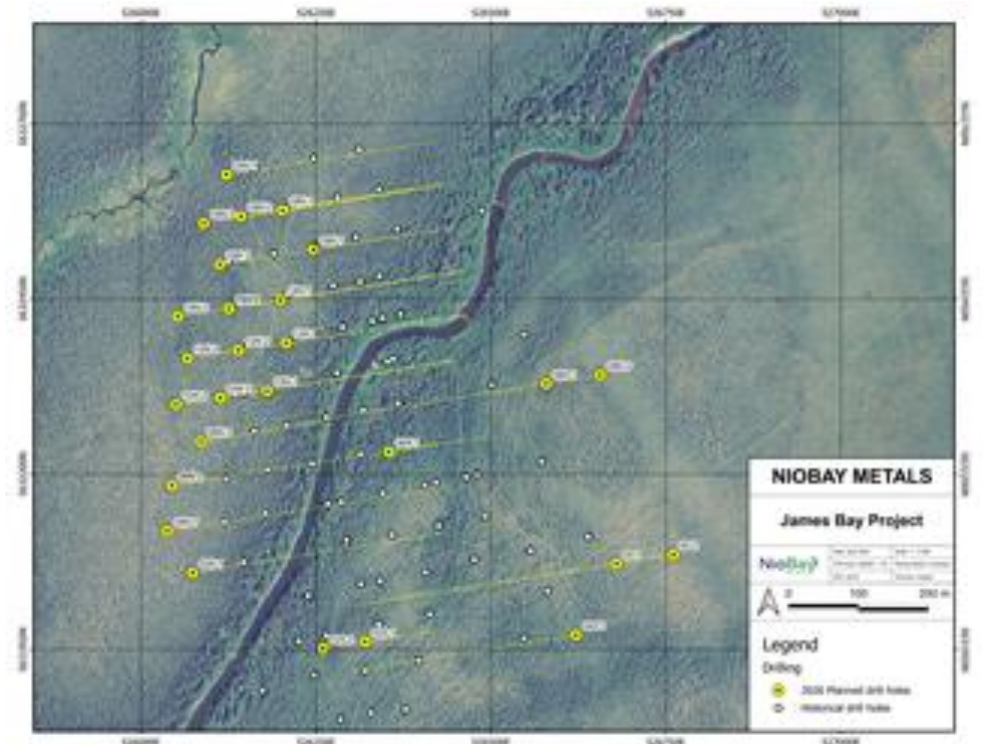
The Importance of Water



- NioBay is **conscious** of the importance of water for the environment, for communities and their traditions (fishing, harvesting, etc.).
- The James Bay Niobium project is kilometres **outside** the major North French River watershed
- Water management is a priority, with the focus to reuse and to minimize the use of water.
- Continuous testing and environmental studies will be performed in **full cooperation** with communities to assess, avoid, and mitigate potential impact on wildlife.

Drilling Program

- The plan to conduct a **small** and localized resource validation program to **confirm** historical data.
 - ✓ Drilling 20-30 holes
 - ✓ 16 weeks of field work
 - ✓ Transport by helicopter
- Drilling **observation & monitoring** will be **allowed**, subject to health and safety requirements. Helpers will be required.
- **Sound-proof** drills are utilized to minimize impact on wildlife
- Water recirculation is used to **reduce and reuse** water from the land



Environmental Assessment

The most important part of the project development process will be to assess the impact on the **environment**, including:

- Water and soil
- Plants and trees
- Fish, animals and birds
- Heritage Resources
- Socioeconomics

NioBay would like to carry out the environmental impact assessment with the **full participation** of the local communities. **Traditional ecological and environmental knowledge** will be a priority, which will include discussions with all **MCFN Elders and Leadership**



Long Term Outlook

NioBay plans to propose an **underground operation** to the Moose Cree Members and Community

Advantages of an Underground Operation:

- Small and reduced environmental impacts
- Reduced noise, dust impacts, and water usage
- Minimal surface tailings (most of the tailing will be pump back to the underground mine)
- Long project lifetime, providing a benefit to the Moose Cree Communities for **generations**

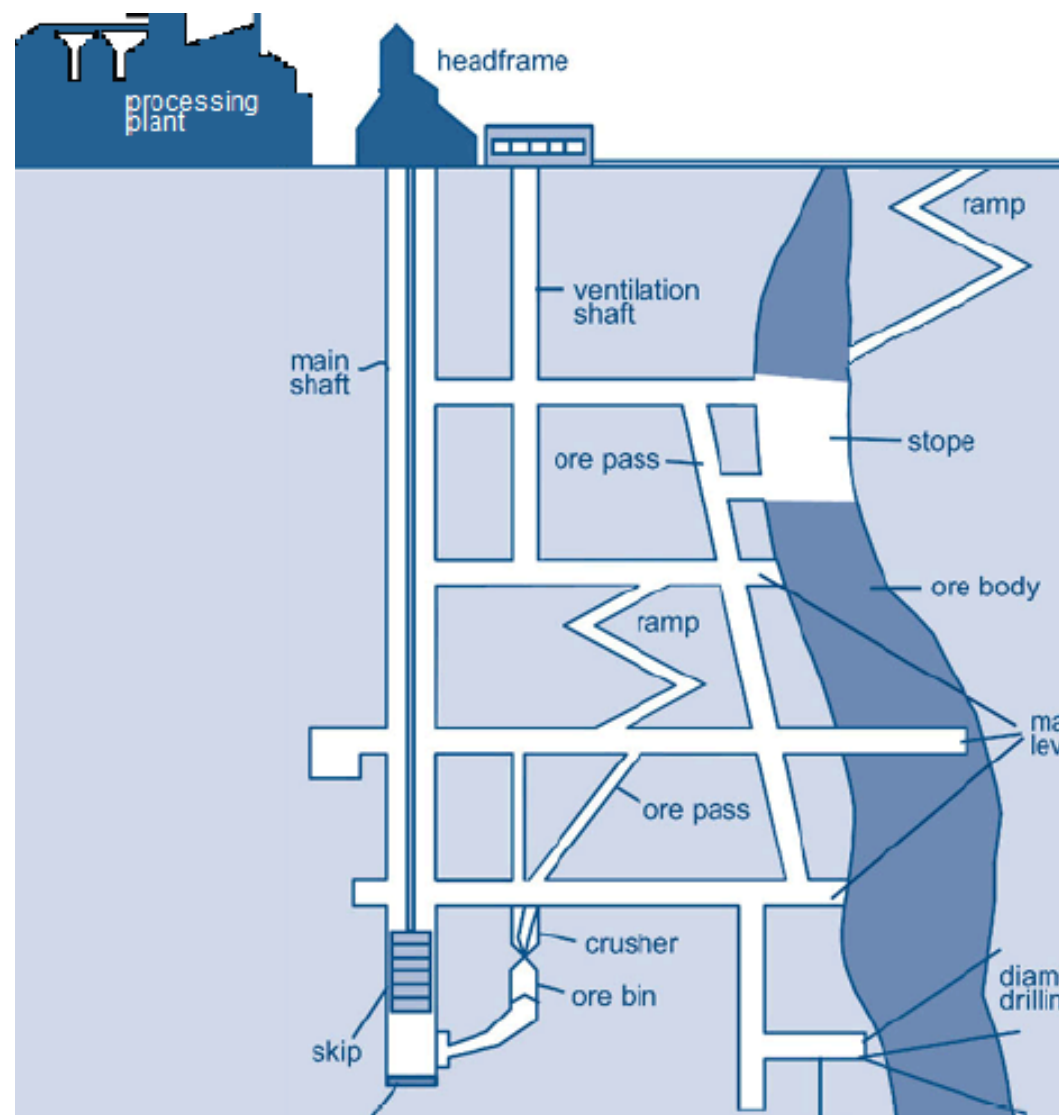


Source: Niobec Mine, Québec countryside



*Magris Resources (Niobec) – Underground mine
In operation for the **past 40 years** - 15 minutes from Saguenay, QC (145,000 people)
Adjacent to farmland*

Typical Underground Mine



Benefits for Moose Cree Members and Communities Provided that Studies Show a Mine Can Be Developed

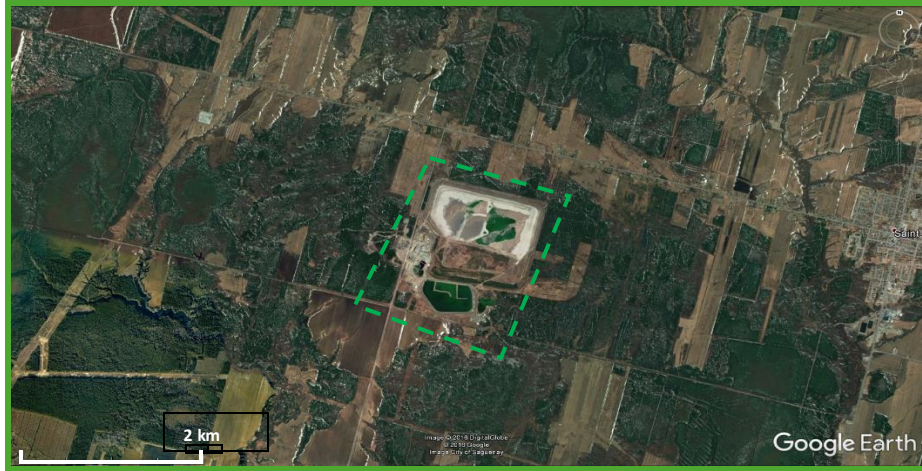


- **RESPECT OF TRADITIONAL LAND:** NioBay believes the project will have minimal impact on harvesting and traditional activities;
- **APPRENTICESHIPS, EMPLOYMENT, TRAINING & EDUCATION** opportunities during the entire process of construction, and for the full life-of-mine (+23 years)*;
- **RELATED ECONOMIC DEVELOPMENT** opportunities for all local communities and businesses;
- **PARTNERSHIP** agreement to be discussed and negotiated;
- **POSSIBLE** catalyst for an all-weather road to link Cochrane.

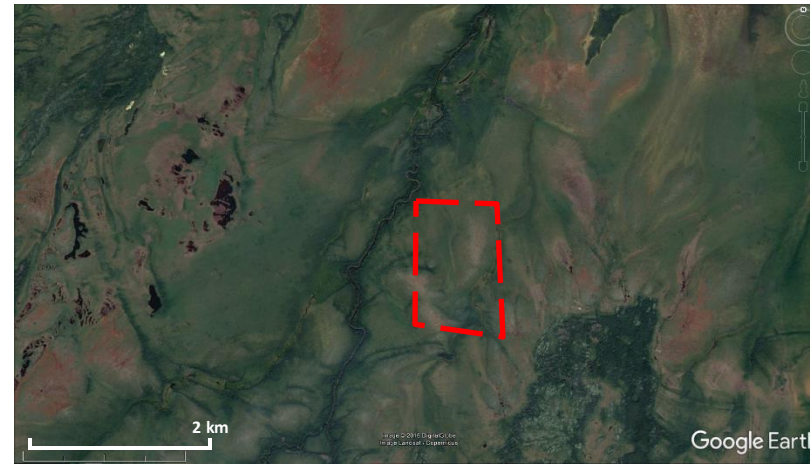
Major Employment Opportunities

- A typical operation hires 225 people during its operating period (over 23 years)*, and more during construction* if there is a positive drilling program. For reference, the Niobec mine has 540 employees.
 - ✓ **Jobs for skilled workforce:** i.e.: miners, electricians, mechanics, pipefitters, welders, mill operators, carpenters, etc.
 - ✓ **Jobs in related areas:** i.e.: transportation, logistics, administration, custodial, food services, site security, repairs and maintenance, etc.
 - ✓ **Apprenticeships:** Training programs, education and skill set capacity building provided to local interested communities.
- **Additional advantage:** Because of the proximity to Moose Factory and Moosonee, **daily transport services** to and from the worksite will enable all workers to return to their homes at the end of a workday to be with their families.
- NioBay wants to enter into a **true partnership agreement** with Moose Cree for the project development and ownership.
- Equity participation in NioBay has been offered to the MCFN leadership.
- Partnership discussion points would include **economic benefits** as well as the mitigation of any impact of the Project.

Smallest Footprint



Niobium mine, Quebec – Underground : **about 1.7 x 2 km**
(after 40 years)



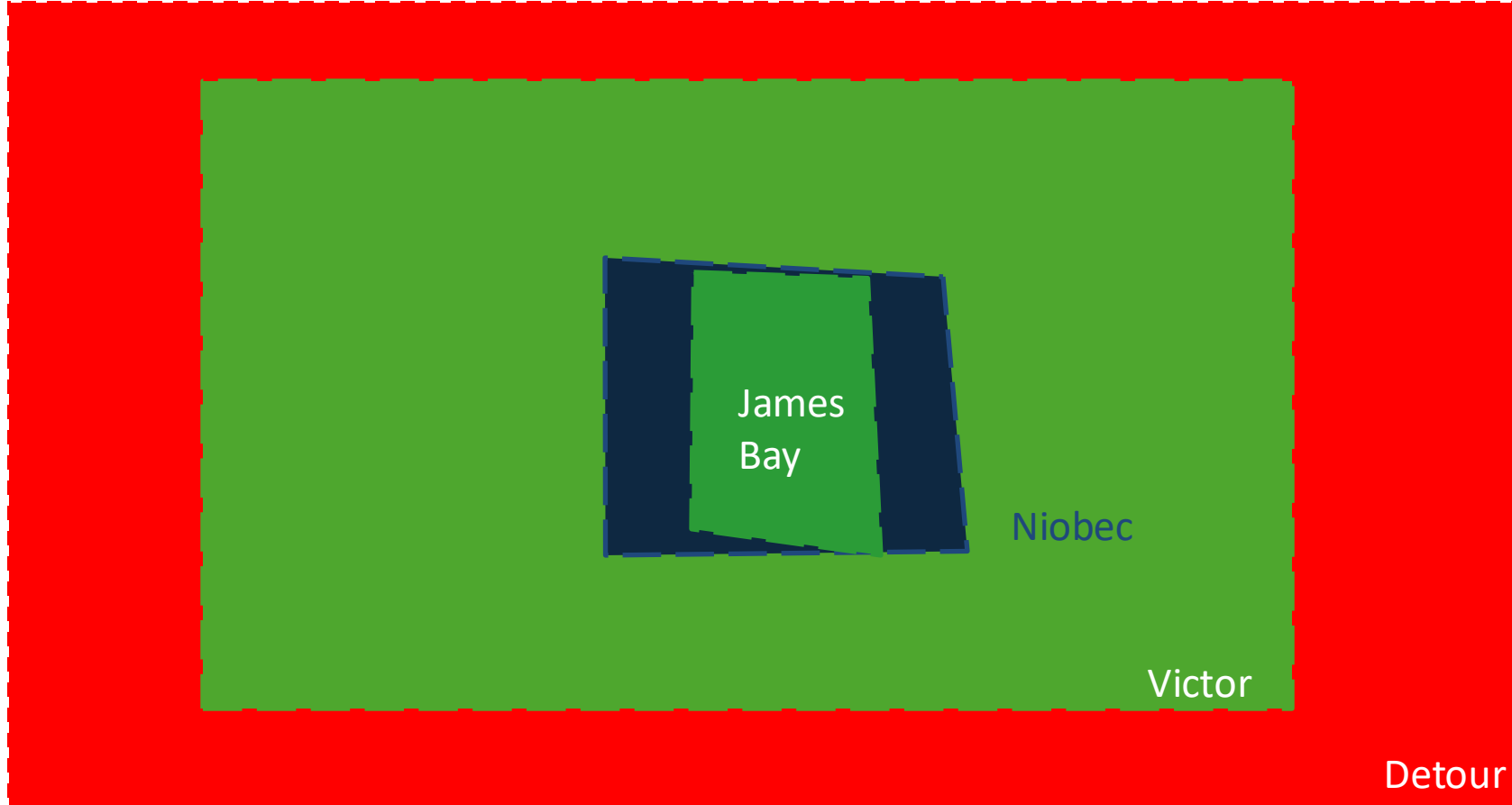
James Bay NioBay mine **proposed** footprint –
Underground : **approx. 1.25 x 2 km**



Diamond mine, Ontario – Open-pit: **about 3.8 x 6 km**



Gold mine, Ontario – Open-pit + expansion: **about 5 x 9 km**



- Detour Lake Mine (Gold, Northern Ontario): approx. 5 x 9 km
- Victor Mine, De Beers (Diamonds, Northern Ontario): approx. 3.8 x 6 km
- Niobec Mine, Magris Resources (Niobium, Quebec): approx. 1.7 x 2 km
- ***James Bay Niobium Project: approx. 1.25 x 2 km***

Closing remarks to Moose Cree First Nation Members and Community

- NioBay cares about the environment and water. The North French River and South Bluff Creek areas will remain unaffected.
- NioBay wants to develop this project in full consultation and participation with all Moose Cree First Nation and community members.
- NioBay wants to meet with you and answer your questions to fully address your concerns.
- NioBay looks forward to listening to and engaging with Moose Cree First Nation members through meaningful and respectful conversations.
- There are no guarantees for NioBay and or Moose Cree First Nation that there will be a mine out of this.
- NioBay thanks you for the opportunity to provide you with this information.

QUESTIONS AND ANSWERS



Our Future is **Green**

*For any questions/clarification,
please contact us via our
Facebook Page or email*

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