

March 2022 - slide deck





Natural Resources Canada Ressources naturelles Canada



Presentation Outline

My Role:

- Share some examples of Indigenous business opportunities related to mining
- Explain mining in everyday language
- Share some insights into this unique sector

Presentation Outline:

- 1. Opportunities for Indigenous mining jobs, businesses and agreements in Quebec
- 2. Life cycle of mining related to Quebec and potential economic opportunities for indigenous communities
- 3. End with a few key points relevant to economic development officers related to mining

Why Explore for Minerals?

Society is increasingly dependent on minerals!

. Metals

Copper for electrical wires, Zinc to galvanize steel, Gold for jewelry/electronics REE for electronics

. <u>Aluminum</u>

Critical for transportation

. Minerals

Gypsum for wallboard . Rocks

Gravel for highways and building foundations; Granite for building; Limestone to make cement.





Sealed lead acid batte



Lead chimney flashing



Why Talk About Mining Importance to Indigenous Communities?

Indigenous Peoples have long used and traded rocks, metals and minerals that are culturally important

Four reasons:

- 1. Jobs and contracts
 - mining is #2 employer of Indigenous people in Canada
- 2. Numerous agreements with Indigenous communities
 - potential for significant benefits
- 3. Mines are spread across Quebec and Canada
 - remote, rural and suburban locations
- 4. Mining sector not well known:
 - many people have never visited a mine or learned about them



Indigenous Employment in Mining (2019)

- High levels of major mine employees are Indigenous
- Direct and indirect employment exceeds 719,000 jobs in Canada. In Quebec, approximately 103,000 people are employed in the mineral exploration and mining sector
- Indigenous people make up 12% of Canada labour force in the mineral sector
- Many attractive jobs that build work skills
- Jobs exist in all regions of the province, including near northern communities



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Photos : Jerry Asp

PDAC Infographic

Typical Mining Jobs











Mine Workings Surveyor`s helper Miner Driller Heavy Equipment Operator Shift Mill/Shop Trades helper/ apprentice Warehouse assistant janitor Technicians Certified Etc. Offices Students Secretarial Admin Engineers Geologists Technicians Accountant Camp Janitorial Kitchen Cook Admin Repairs Safety Security Etc. Roads, Etc.

Snow removal Road work Trucking Gravel pit Supplies Diesel fuel Explosives

Over 160 different mining jobs

Goods and Services Contracts

- Mines require a wide variety of goods
 - Food, lumber, gravel, vehicles and parts, signs, pickets, …
- Mines often contract out specific services
 - Security, environmental monitoring, snow removal, food services, accounting, road maintenance, transportation, ...
- Companies of various sizes bid on these contracts
 - Many mines prefer to contract **local** companies and recognize the value of using **Indigenous companies**

Canadian Mining Sector's Wages and Salaries (2020)

. With Average **Weekly** Earnings by Industry at **\$2,099** in 2020, the Mining, quarrying, and oil and gas extraction sector boasts the highest wages and salaries of all industrial sectors in Canada.

https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=1410020401

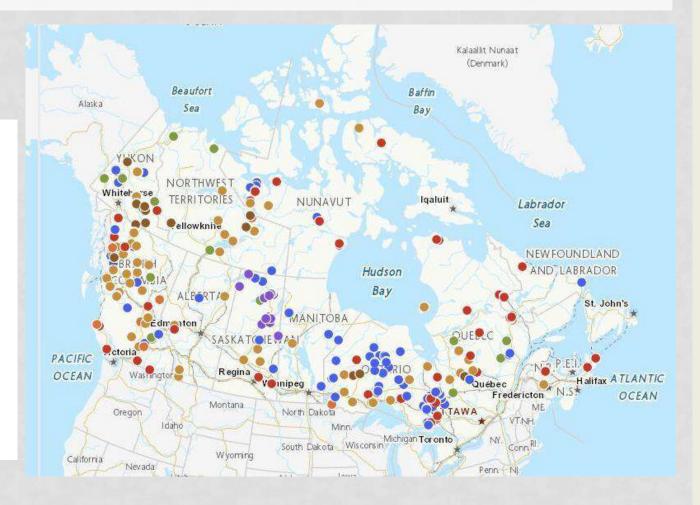
. Mineral sector represents 1 in every 29 jobs in Canada.

. Mineral Industry is the top private sector industrial employer of **Indigenous peoples** with **12%** of the Canadian labour force.

Indigenous Community Active Mining Agreements

Active Agreements

- Impact and Benefits Agreement
- Socio- Economic Agreement
- Exploration Agreement
- Participation Agreement
- Cooperation Agreement
- Memorandum of Understanding
- Letter of Intent
- Surface Lease Agreement
- Other Agreement Type



https://open.canada.ca/en/map/indigenous-mining-agreements

Quebec's Capacity-Building Funding for Indigenous Communities

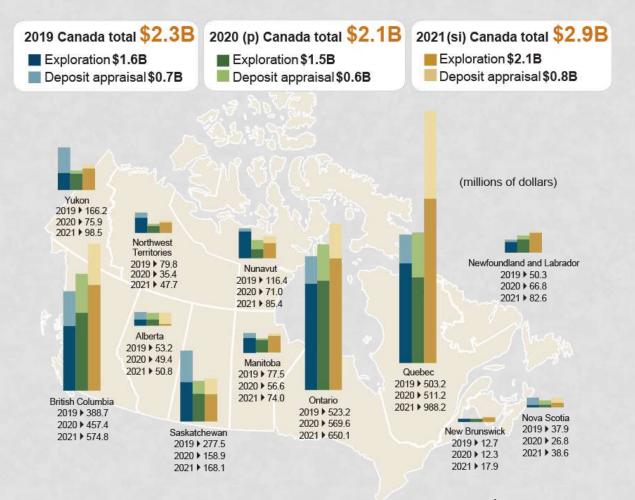
Funding available for **consultation** capacity, skills & job **training**, and **economic development**:

Sécretariat aux affaires autochtones <u>Aboriginal Initiatives Fund III: Consultation Support Fund</u> Sécretariat aux affaires autochtones <u>Aboriginal Initiatives Fund III: Economic Development program</u> Centre de formation professionale Val-d'Or <u>National Mining Centre Programs</u> <u>Énergie et Ressources naturelles</u> <u>Aboriginal Mining Funds: Nunavik Mineral Exploration Fund</u> <u>Énergie et Ressources naturelles</u> <u>Aboriginal Mining Funds: Cree Council on Mineral Exploration</u>

Quebec Mines & Exploration Projects



Exploration and deposit appraisal expenditures, by province and territory, 2019–2021



Credit: nrcan.gc.ca

Top 10 Mineral products in Canada (2020)

	Canada (\$)	Quebec (Ranking)
1. Gold	12.3B	#1
2. Iron Ore	5.6B	# 2
3. Coal	4.0B	
4. Copper	3.9B	
5. Potash	3.7B	





		Canada (\$) 2019	Quebec (Ranking)
	6. Nickel	3.0B	#3
	7. Sand/gravel	2.3B	
	8. Diamonds	2.9B	
	9. Stone	2.0B	
	10. Platinum GM	1.3B	# 5

Canada produces some 60 minerals and metals at 200 mines and 6,500 sand, gravel and stone quarries a year worth nearly \$48 billion

Benefits generated by the Quebec's mining industry (2019)

- Approximately 48 000 direct, indirect and induced jobs
- Annual **mining expenditures** of **\$10 billion** in 2018 distributed in all Quebec's region
- Extensive network of **3,800 suppliers** throughout Quebec
- \$1.3 billion paid each year to various levels of government
- **\$1.8 billion** in payroll in the mineral extraction and exploration sectors
- The mining sector contributes over **\$9 billion** to **Quebec's GDP**

Quebec Mining

Mining not well known. Not generally taught in schools!

However,

- Quebec is a major gold and iron ore producer with substantial nickel production
 - 17 metal mines and 25 metal projects
- Significant non metallic minerals production
 - 4 mines and 2 projects
- Numerous sand and gravel pits

Quebec produces 13 metallic and 16 non metallic minerals

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Life Cycle of Mining

Prospecting & Early Exploration



Indigenous Business Opportunities



Mine Closure & Reclamation





Mineral Exploration



Mine Development



Mining

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Provincial Government Role in Exploration and Mining

Quebec government Role (MENR):

 Quebec (Mining Act) administers Mining Claims & regulate exploration activities through GESTIM Plus, a « Mining Title Management System »

Mining Title Management System (GESTIM) - Ministère de l'Énergie et des Ressources naturelles (gouv.qc.ca)

 Generate geoscientific maps and reports to support exploration through SIGEOM, a « Reference Geomining Information System »

SIGÉOM | Système d'information géominière | Interactive map (gouv.qc.ca)

- Permit mine developments and mines
- Enforce safety regulations and assist with mine training
- Require reclamation plans and reclamation bonds for mines

Federal Government Role in Exploration and Mining

Federal government :

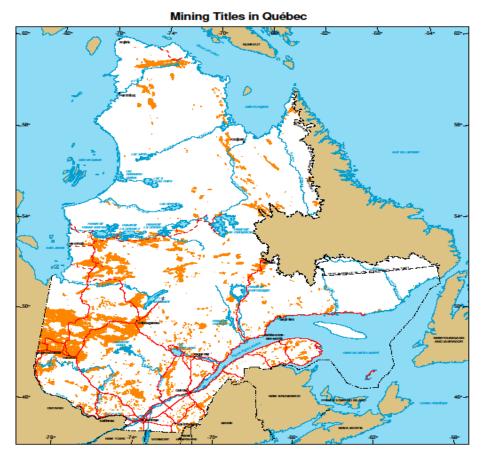
- Administer mineral rights on some Reserves
- Can participate in environmental assessments of mine proposals
- Helps administer underground exploration, mining, processing and shipping of **uranium**, management of explosives, mining taxation, navigable waters, etc.

Quebec Indian Reserves Map



Quebec Mining Titles

Source: GESTIM/Maps and Files of Québec Mining (gouv.qc.ca)



Active Titles Number : 196 296 Area : 9 833 429 ha Percentage of land : 5,

sentage of land : 5,9% s Pending matomy) https::650

1/10 000

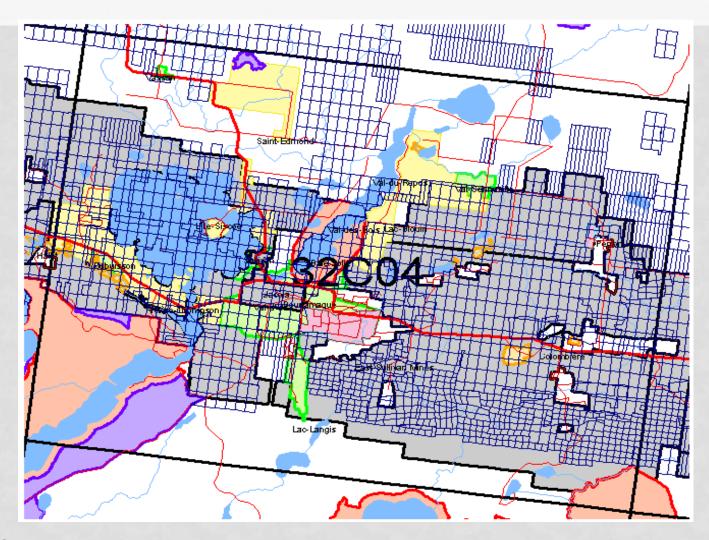
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D Gouvernement du Quêbec, September 29, 20

Énergie et Ressources naturelles Québec B P 19

Mining Claim Map Val D'Or Area, Quebec



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Credit: GESTIM/Maps and Files of Québec Mining (gouv.qc.ca)

Restrictions on Online Claim Staking

No staking

- Parks and some special protected areas
- Temporary areas under study by government

Staking Allowed on Private Land

- More regulations apply for claims on private land
- Mineral sector companies often avoid private land

Mineral Exploration Path

Geology/ Prospecting

Geochemistry

Geophysics

Drilling







Henry Salt, Eeyou-Istchee

Prospector (a Find or an Idea)

- A prospector finding an **interesting rock**
- Quebec Prospector's licence is valid 5 years
- Used to make discoveries of most Quebec metal and industrial mineral deposits
- Often work alone spending own \$
- Hike through the bush, walk new logging roads, follow creek beds, etc.
- . Use a geological rock hammer and gold pan
- . Collect rock and stream silt samples
- . Hope to find a property to **option** (& negotiate a **Net Smelter Return**) or **sell** to a company.

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Geological Mapping, Rock Sampling

- **Office work** reviewing previous work, reading government publications
- Geologist examination, regional traverses, sampling, visiting known mineral localities, mapping.

Geology:

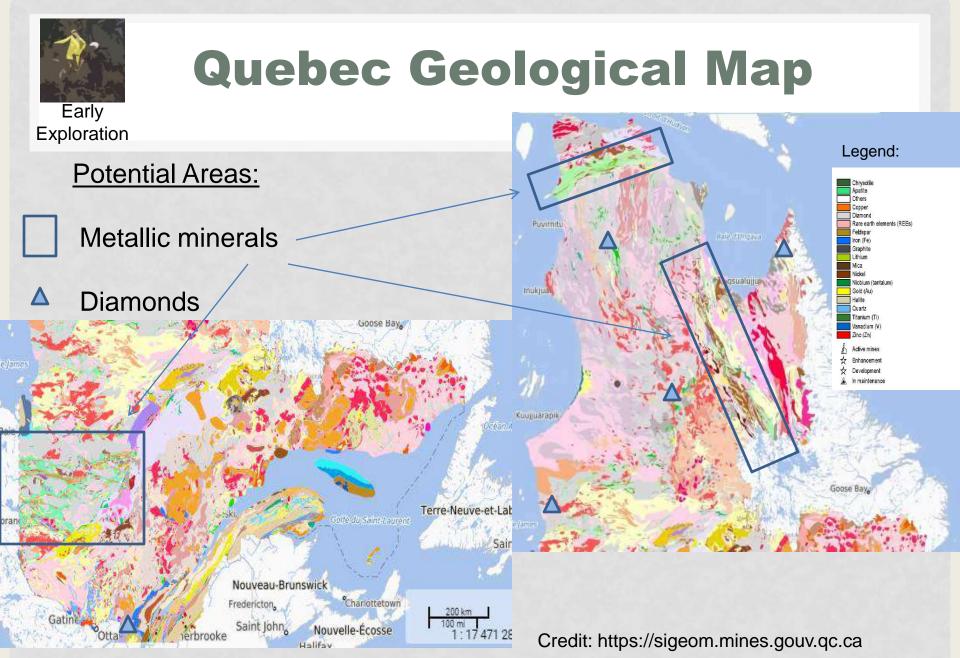


- 1) Igneous rocks:
 - a. Plutonic/Granitic;
 - b. Volcanic/Basaltic (« *Greenstone belt* » with Metallic minerals potential)

2) Sedimentary rocks:

Sandstone, Limestone (with Oil & gas, Potash potential)

> 3) Metamorphic rocks: Gneiss



Simplified Geology Abitibi Greenstone Belt



Credit: <u>SIGÉOM | Système d'information géominière | Interactive map (gouv.qc.ca)</u>



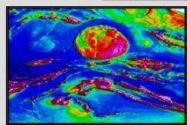
Airborne Geophysical Surveys

a. Magnetic (Mag) b. Electromagnetic (EM) c. Radiometric

 Collection of data from above or below the earth's surface using a sensing instrument to measure a characteristic like magnetism.

Airborne Geophysical Surveys

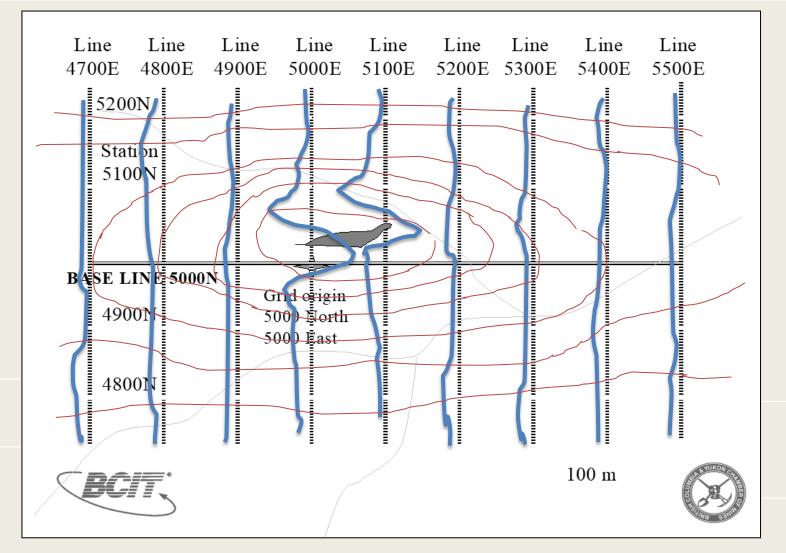






Early Exploration

Ground Geophysics Exploration Property Grid EM 🔨 & Mag 💭 Surveys ("Anomaly")

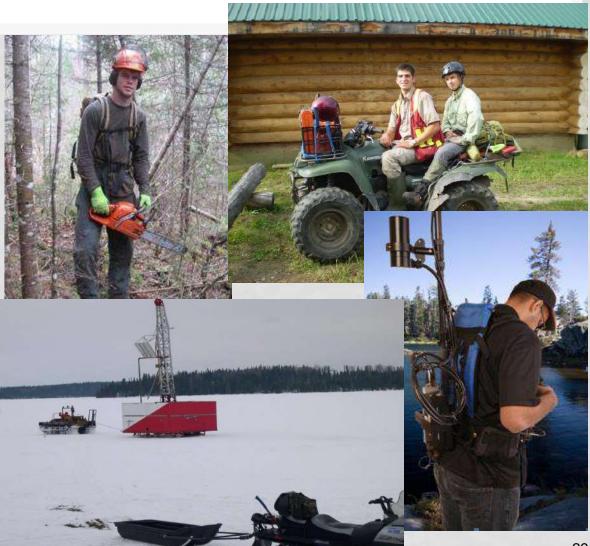




Early Exploration Jobs

Photos from Andreas Lichtblau

- Prospector
- Line Cutters
- Samplers (soil, etc.)
- Geophysical Crew
- Geologist
- Drillers
- Kitchen Helper
- Cook
- Camp Expediter
- Jack of All Trades
- Camp Set-Up





Diamond Drillers Helper Program

Early Exploration

"Val-D'Or Centre for Professional Development" provides: Diamond Drilling, Machine Operations, Mineral Processing for Ore Treatment and, Mineral Extraction Programs.

. Often, in partnership with different Colleges, and

. Funded by Canada's Aboriginal Skills and Employment Partnership Program.





Drilling and drill core



Winter drilling & Removing drill core from tube

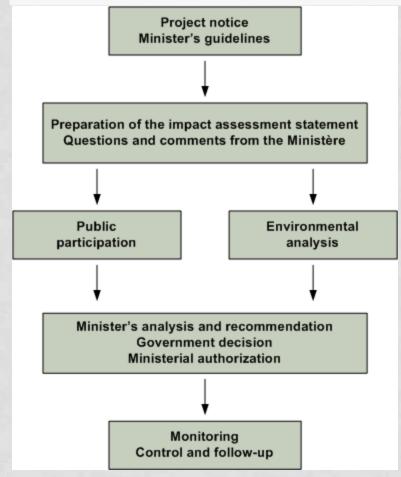


Geologist Logging (Describing) Drill Core & Cutting of drill core

Credit: Osisko Mining & Troilus Gold



Environmental and Social Impacts - Quebec



Environmental assessment process should begin as soon as possible. If project falls under both (Qu. & Fed) responsibility, usually, a single cooperative EA is carry out. Description of environmental impacts and mitigation: (Qu. EA + Fed. EA obligations under CEAA (2002) or IIA (2018) & Responsible Authority); Advanced Exploration Closure Plan Guidelines (or, PDAC's E3Plus) > Due diligence; Quebec's EIA, Public **Consultation** (BAPE) & accommodation; **Baseline environmental studies** >Opportunities for community participation

Environmental Impact Assessment (EIA) and Review process in Southern Québec

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Environmental Assessment in Southern Quebec (gouv.qc.ca)



Exploration

Federal Environmental Assessment Process Chart

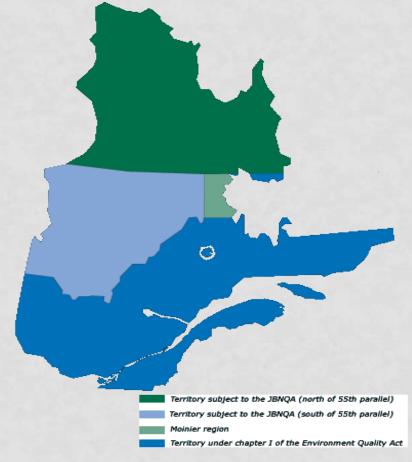
(Old CEAA (2002) recently replaced by IIA (2018)

Project Environmental Assessment Act, SBC 2002, c.43 Description Determine We are here. Whether the Certificate Issued **Project Requires Project Authorized** Environmental to Proceed to Assessment **Review** of Answers **Review of Permitting Stage** Questions provided? Answers Application Application Application Scope and Information Project Approved Process for Prepared Evaluated Application Assessment Requirements Decision by Review and for Review Report Determined Ministers Determined Submitted Completeness (AIR) Not Approved 45-day **30-day Public** Public Comment Comment Period Period **Certificate Refused** or Additional Study **Pre-Application Stage Application Review Stage** Ordered Screening Decision (no timeline) (30 days) (180 days) (45 days) Working Group Review FIRST NATION CONSULTATION New Impact Assessment Act, 2018 Process **Decision**making Impact Post Planning Decision Assessment o 🔿 🚯 😂 📥 🗠 B Impact Statement 🐵 🍮 🚯 🚳 🗠



Exploration

James Bay and Northern Quebec Agreement/ Eeyou Istchee territory & Nunavik



Enviromental Assessment South & North of the 55t parallel:

- Under the JBNQA, 2 Environmental Advisory committees were created.

a) South: James Bay Advisory Committee on the Environment (JBACE) and,

b) North: Kativik Environmental Advisory Committee (KEAC).

- Provincial EA committees and commissions were also created :
- a) South:
- 1) Environmental and Social Impact Evaluating Committee (COMEV)
- 2) Environmental and Social Impact Review Committee (COMEX) & public consultation.

b) North:

1) Kativik Environmental Quality Commission (KEQC)



Exploration Camp & Environmental studies

- Environmental sampling and monitoring start as soon as possible
- Major focus on studying surface water, fish and wildlife for baseline data





Credit: Sirios Resources



Exploration et environment: PDAC's Skookum Jim Awards



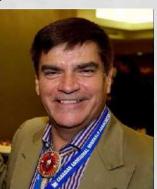
Exploration

Hans Matthews, winner of the 2020 Skookum Jim Award is an experienced geologist and member of the Wahnapitae First Nation in Ontario. As a founder and President of the Canadian Aboriginal Minerals Association (CAMA), he has played a key role in the evolution of Indigenous communities as equal partners in the mining industry, bringing together industry and Indigenous leaders, government representatives and youth.

Jim MacLeod was the winner of the 2014 Skookum Jim Award for aboriginal achievement in the mineral industry and environment. President of EnviroCree Ltd and JA MacLeod Exploration.

Founder of the **Mistissini Geological Resources Centre**, MacLeod also serves on the board **Cree Mineral Exploration** and **Canadian Aboriginal Minerals Association**.

Skookum Jim Award PDAC 2020







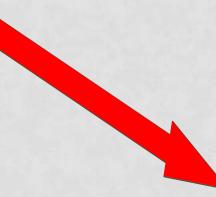
Skookum Jim Award PDAC 2014

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Mining Cycle Mineral Industry Sequence

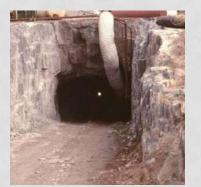
Prospecting / Early Exploration







Mineral Exploration



Mine Development



Bulk Sampling & Environmental Assessments

- Government
 permits
- Economic feasibility studies
- Raise funds

Evaluation of Potential Value

Factors that determine if a resource is economical include:

- Type of mineral
- Market price of the minerals and metals
- Grade
- Location, accessibility, size and value of the resource
- Access to infrastructure: roads, airstrips
- Distance from markets and supply points
- Regulatory regime: taxes, royalty taxes
- Environmentally safe and socially responsible mining
- Availability of a qualified work force

Agreements between Mining Companies and Aboriginal Communities or Governments - QUEBEC

- Quebec Agreements:

- 1. Bloom Lake IBA Innu Takuaikan Uashat Mak Mani-Utenam
- 2. Isoukustouc EA Innu Council of Pessamit
- 3. Lablache EA Innu Council of Pessamit,
- 4. Hopes Advance Bay LI Makivik Corp. (on behalf of the Inuit of Nunavik), Nunavik Landholding Corp. of Aupaluk
- 5. Renard IBA Grand Council of the Crees (Eeyou Istchee) / Cree Regional Authority, Cree Nation of Mistissini 6. Nunavik Nickel - IBA - Nunaturlik Landholding Corp. of Kangiqsujuaq, Qaqqalik Landholding Corp. of Salluit, the Northern Village of Puvirnituq, Makivik Corp.
- 7. Raglan IBA Makivik Corp., Qaqqalik Landholding Corp. of Salluit, Northern Village Corp. of Salluit, Nunaturlik Landholding Corp. of Kangiqsujuaq, Northern Village Corp. of Kangiqsujuaq
- 8. Troilus IBA Cree Nation of Mistissini
- 9. Windfall Lake EA Grand Council of the Crees (Eeyou Istchee) / Cree Regional Authority, Cree FN of Waswanipi
- 10. Bachelor Lake PA Grand Council of the Crees (Eeyou Istchee) / Cree Regional Authority, Cree FN of Waswanipi 11. Rose Tantalum-Lithium O Cree Nation of Eastmain, Grand Council of the Crees (Eeyou Istchee) / Cree Regional
- Authority
- 12. Eleonore CA Cree Nation of Wemindji, Grand Council of the Crees (Eeyou Istchee) / Cree Regional Authority
- 13. Lac Rocher MOU Cree FN of Waswanipi
- 14. Montviel Project O Grand Council of the Crees (Eeyou Istchee) / Cree Regional Authority, Cree FN of Waswanipi
- 15. Quebec Lithium MOU Abitibiwinni FN of Pikogan, Anishinabe FN of Lac-Simon.
- 16. Nemaska Lithium IBA Grand Council of the Crees (Eeyou Istchee), Cree Nation Government and Nemaska.
- 17. IOC PA Innu of Uashat mak Mani-Utenam, Matimekush-Lac John and Naskapi FN.

LI = Letter of Intent; EA = Exploration Agreement; CA = Cooperation Agreement; MOU = Memorandum of Understanding;

IBA = Impact and Benefits Agreement; PA = Participation Agreement; SEA = Socio-Economic Agreement; O = Other.



Whabouchi Mine Development - Chinuchi Agreement

In 2014, Nemaska Lithium entered into the Chinuchi Agreement with the Grand Council of the Crees (Eeyou Istchee), the Cree Nation Government and the Cree Nation of Nemaska.





Chinuchi Agreement establishes the framework for its relations with the community for the entire life of the Whabouchi mine's development and operation.

Credit: Nemaska Lithium



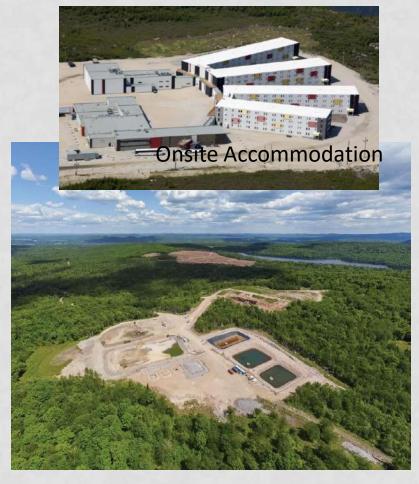
Infrastructure Construction, Airstrip, Mine Demonstration Site





Airstrip construction Credit: Agregat RN – Goldcorp's Eleonore mine

Drilling, blasting, crushing and Site preparation Credit: Agregat RN – Canadian Royalties' Nunavik Nickel Mine



Credit: Nouveau Monde Graphite -Matawinie Mine's demonstration site

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Raglan Mine's Sivumut Project - Phases II & III

This project has been developed through a process of **public consultations** leading up to **the Environmental and Social Impact Assessment** (ESIA)

Sustainability – Raglan Mine's performance in 2020:

- . 20% of our workforce is Inuit
- . \$113M spent on contracts awarded to Inuit businesses

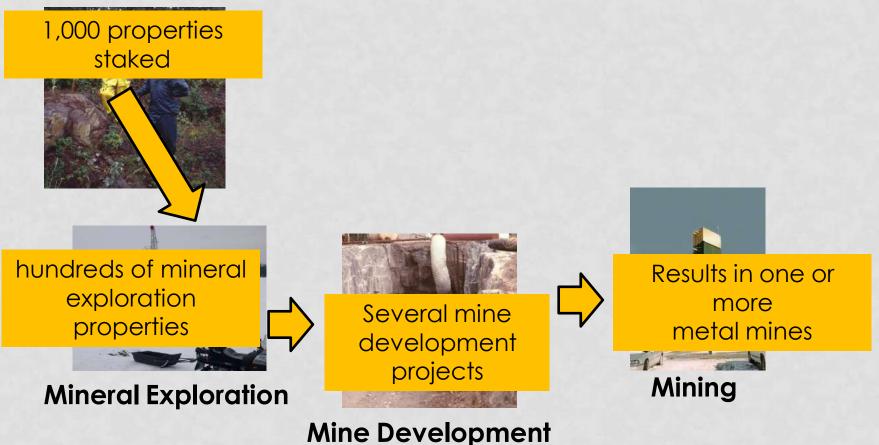
. Wind turbines: **12,000** tonnes of **greenhouse gases** not produced

"Work doesn't need to feel like a job when you've found your passion." says Jimmy from Puvirnituq. **Jimmy Uqaituk, Geologist Technician** at Raglan Mine



Metal Mine Marathon Mineral Industry Sequence

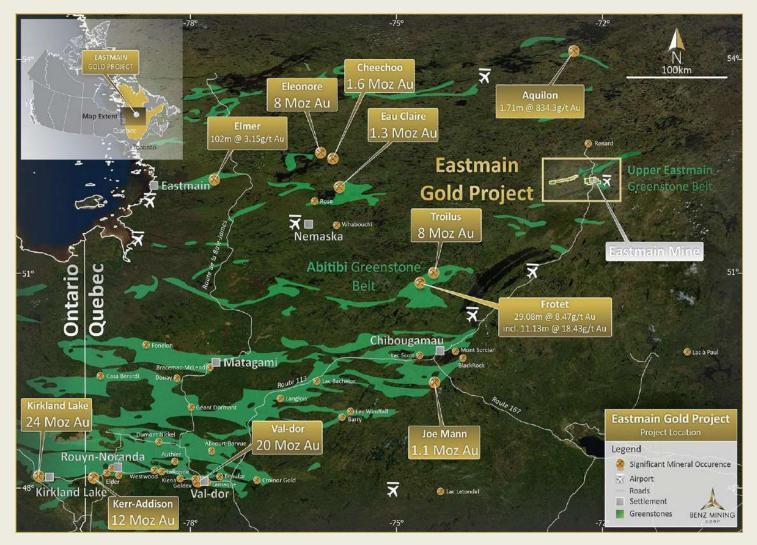
Prospecting / Early Exploration





Mines & Significant Mineral Occurrences Abitibi Greenstone Belt

Mine Production



Credit: Benz Mining



ArcelorMittal Mining Canada

ArcelorMittal Mining Canada G.P. (AMEM) is one of the main Canadian suppliers of iron ore products for the national and global steel market.

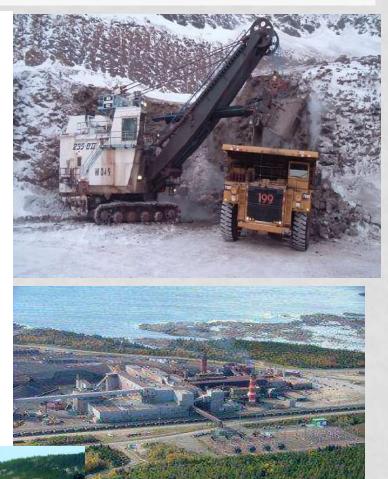
With activities in both the **mining** and **primary processing** sectors on the north shore of the **Gulf of the St. Lawrence, Quebec**.

. Produces more than 26 million metric tons of concentrate a year from its mine in **Fire Lake** and the **Mont-Wright mining complex**.

. Concentrate is carried by rail to **Port-Cartier** where part of it is processed at the company's **pellet plant**.

. AMEM employs some 1,800 people.





Iron Ore Company of Canada / Rio Tinto's Engagement

Iron Ore Company of Canada (IOC) / Rio Tinto and Indigenous Participation:

- . IOC is committed to **consulting** with Indigenous Peoples in the regions where they operate.
- . IOC is committed to training, education, employment and business opportunities.

. IOC is engaged in a variety of ways with the following Indigenous groups in Quebec and Labrador:

•Innu of Uashat mak Mani-Utenam's 2020 Reconciliation and Collaboration Agreement (Quebec);

•Labrador Innu's 2014 "Life-of-mine" Agreement (Sheshatshiu and Natuashish, Labrador, as represented by Innu Nation);

•Naskapi Nation of Kawawachikamach (Quebec);

•NunatuKavut Community Council (Labrador);

•Innu of Matimekush-Lac John's 2020 Reconciliation and Collaboration Agreement (Quebec)

. IOC is committed to working with Indigenous Businesses that can demonstrate **Indigenous ownership**, of **51%** or more.



Production

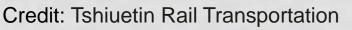




Tshiuetin Rail Transportation, Inc

North America's first Indigenousowned (Innu of Uashat Mak Mani-Utenam, Matimekush-Lac John, and Naskapi Nation of Kawawachikamach) and operates railroad offering rail services (freight & passengers) between Schefferville (Québec) and Emeril Junction (Newfoundland) with trackage rights to Sept-Îles (Québec).

80 % of the company's employees are **aboriginal**.







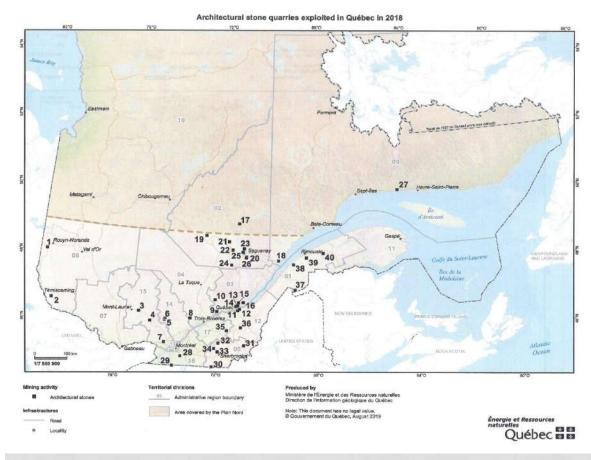


Architectural Stone Quarries - Quebec

. Architectural stones are rough or cut stones and include :

- 1) Dimension stones used in sculpture, cut-to-size panels, tiles, cut stone, curbstones, veneers, and monuments.
- 2) Rough stones are used to produce cobblestones, flagstones, and paving stones.
 The rocks most commonly used are granite, limestone, marble, sandstone, and slate.

The **Rivière-à-Pierre** (**Portneuf**) is the main source of cut stones in Québec. Other sites are located in Saint-Alexis-des-Monts, Lanaudière, and Stanstead, Estrie.

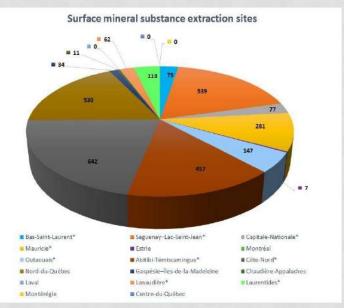


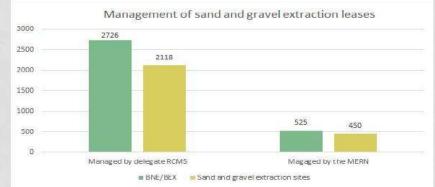
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RA2018 Carrieres_pierres_architecturales.pdf (gouv.qc.ca)



Sand & Gravel Quarries Quebec





In 2018, there were **3,251 leases** to extract sand and gravel in Québec, covering 2,568 surface mineral extraction sites. In all, 2,726 (**83.9%**) of these titles were **managed by** the regional county municipalities (**RCMs**) and the other 525 (**16.1%**) were managed **by** the Ministère de l'Énergie et des Ressources naturelles (**MERN**).

<u>Note</u>:* Administrative regions (RCMs) to which the management of sand and gravel extraction on provincial crown lands has been delegated.

RAM 2018 – Géologie Québec (gouv.qc.ca)



Peat Moss Quarry

Quebec accounts for about **25%** of Canadian production:

- Quebec ranks first among Canadian provinces in terms of investment spending, operating expenditures, jobs generated, GDP generated and tax revenues.
- Nearly 2,000 jobs are generated by the peat industry and, 825 are direct jobs.

Vacuum Harvester

Bas-Saint-Laurent (about 40%) and **Saguenay-Lac-Saint-Jean** areas generate the greatest spinoffs.

Credit: Canadian Sphagnum Peat Moss Association



Newmont's Éléonore Gold Mine and Wemindji First nation Agreement

2011 Opinagow Collaboration Agreement and Éléonore Gold Mine:

-A world-class underground mine operation (275 000 – **300 000 oz**/gold/year) located on the Cree Nation of Wemindji, Eeyou Istchee/James Bay's traditional territory.

•According to the **Cree Trappers Association**, each hunting territory is managed by a **Tallyman** and, Éléonore infrastructures impact **3 hunting territories**.

-Governance Tripartite committees with decisional powers and involvement of all parties in solution finding.

-More than **\$1 billion** spent with **Cree businesses** over the last **10 years**.

-Cree Business Volume between 25% to 29% each year since 2015.



- Cree employment at Éléonore totals 23% (employees and contractors).
- The **Challenge**: **Maintaining** the strength of the **relationship** through change (people, acquisitions).





Life Cycle of Mining

Prospecting & Early Exploration



Indigenous Business Opportunities

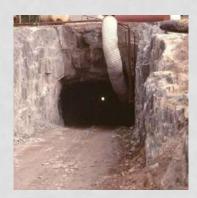


Mine Closure & Reclamation





Mineral Exploration



Mine Development



Mining



Mining and Exploration Reclamation

. Quebec legislation regards mining as a temporary use of the land.

. Mine reclamation work is intended to restore the site to an **acceptable environmental standard** for **productive use**.



Peatland reclamation

Credit: Promix



Mine Closure and Rehabilitation

•Troilus Mine (Credit: Inmet):

 Developed its final Closure plan with the Cree community and provincial regulators

Troilus Agreement Implementation Committee

- Helped transition workers to new employment
- Consideration given to future hunting needs



Site closed in 2010 and, meeting all environmental and safety requirements.
Inmet involved Environment Canada to help establish biodiversity as part of the

revegetation program.

Closure team responsible for reclamation, maintenance, inspection and monitoring the property on an ongoing basis.





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Normetal underground zinc-copper mine, closed in 1980 and reclaimed in 1998. Located in Normetal, Qu., Xstrata



Quebec MERN's Rehabilitation and Reclamation of Abandoned Mining Sites

Mine Closure Reclamation

In 2017, **\$1.2 billion** were set aside for the reclamation of Quebec's **459** abandoned mining sites.



Barvue (Zn, Ag) Open-pit & Underground Mine (Abitibi - 1952-1990)

Reclamation Work: \$35.5 M (2016)







Progressive Reclamation Lamaque Mine, Val D'Or

- Organic approach to mine's tailing sites progressive reclamation.
- Eldorado Gold Quebec has entered into a fouryear partnership with <u>Vallée-de-l'Or Regional</u>
 <u>County Municipality</u> (MRCVO) enabling Lamaque
 Mine to acquire more than 15,000 metric tons/year of compost for \$100,000/year.





A. Quarry of Wright Crushed Stone Company, Ltd., Hull, Qu

March 2022

Casino Lac Leamy, Gatineau, Qu.





Credit: Eldorado Gold

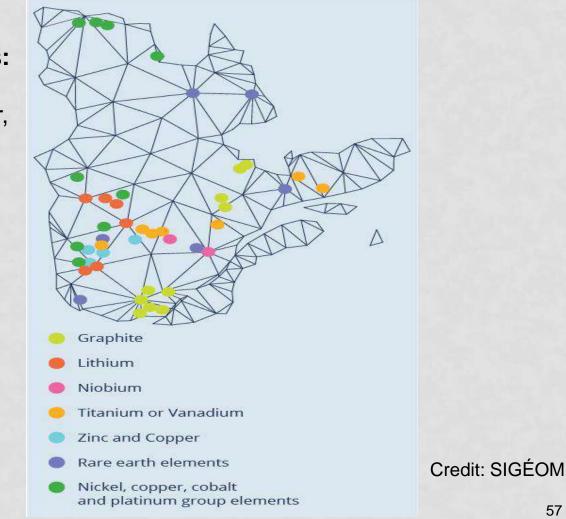
Québec's Critical minerals for the future: Projects and Mines

Critical and strategic minerals:

(Graphite, lithium, nobium, titanium, vanadium, zinc, copper, nickel, cobalt, rare earth elements and platinum group elements)

Those minerals are mainly used in high technology and the transitional energy sectors.

\$90M Quebec's Plan for the Development of Critical and Strategic Minerals 2020-2025



Québec Plan for the Development of Critical and Strategic Minerals 2020-2025 (quebec.ca) March 2022

A unique Canadian invention: Capital Pool Company Program (CPC) & TSX Venture Exchange

CPC, with its origins in **the junior mining** and oil and gas industries, this program supports earlier stage private companies to complete a **go public** transaction.

The CPC program is a unique listing vehicle exclusively offered by TSXV and accounted for almost **50%** of **new TSXV listings** in **the past 10 years**.

THE 2-STEP CPC PROCESS

<u>Step 1</u> | CPC Initial Public Offering

- The CPC program introduces investors with financial market experience to entrepreneurs whose growth and development-stage companies require capital and public company management expertise.

-- The CPC program enables seasoned directors and officers to form a Capital Pool Company with no assets other than cash and no commercial operations, **list it on TSX Venture Exchange**, and **raise a pool of capital**.

<u>Step 2 |</u> Qualifying Transaction

- The CPC then **uses these funds** to seek out an **investment opportunity** in a growing business.

- Once the **CPC** has acquired an **operating company**, its shares **continue trading as a regular listing** on TSX Venture Exchange.

Increased Indigenous Involvement in Mining



Shared Benefits or Ownership

Infrastructure Co-operation

Various Agreements with Companies

Indigenous Company Contracts

Approvals for Exploration & Development







Employment



Exploration and Resource Definition

>3 -5 years

March 2022

Mine Permits > 3 - 6 years

Window of opportunity Investment funds available Construction
> 2 - 4 years

Quebec's Report on Mineral Activities & Bulletin L'Info-mines

Énergie et Ressources naturelles Québec 🏘 🏘



- Summarizes exploration, mine development and mining activities of companies
 - Published annually by Quebec's MERN
 - More descriptive and less promotional than most online info summarizing mining activities
- Staff of Quebec's MERN are a good source of free advice and expertise

Available on line