

ARGYLE

RESOURCES

CSE: ARGL/ OTC: ARLYF/ FES: ME0

**High Purity Rare Earth
Element and Silica
Exploration**

CORPORATE
PRESENTATION - 2025



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QUALIFIED PERSON (QP) The technical content of the Presentation has been reviewed and approved by George M. Yordanov, OGC, P.GEO., P.Geo, an advisor to the Company and a Qualified Person under National Instrument 43-101 - *Standards of Disclosure for Mineral Projects*.

About the Company



Argyle Resources (CSE: ARGL) is a junior exploration company focused on the recent interest and growth of Rare Earth Elements and Silica for ever growing use in high tech applications.



REE Project Ontario

- Clay-Howells

Silica Projects Quebec

- Pilgrim Island
- Matapedia
- Lac Comporté
- Saint Gabriel

Silica Project Idaho

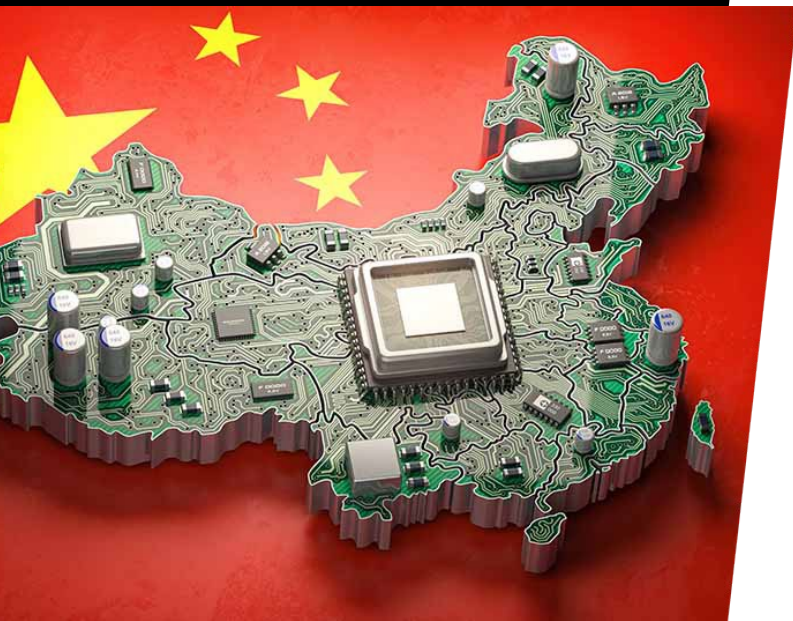
- Bovill

REE Project Wyoming

- Sundance Bear Lodge

Rare Earth Elements

The Rare Earth market stands at the nexus of key technological and sustainable trends, including AI, electric vehicles (EVs), wind turbines, solar panels, semiconductors, and microchips, making it a linchpin in the global technological ecosystem.¹



Global REE Demand

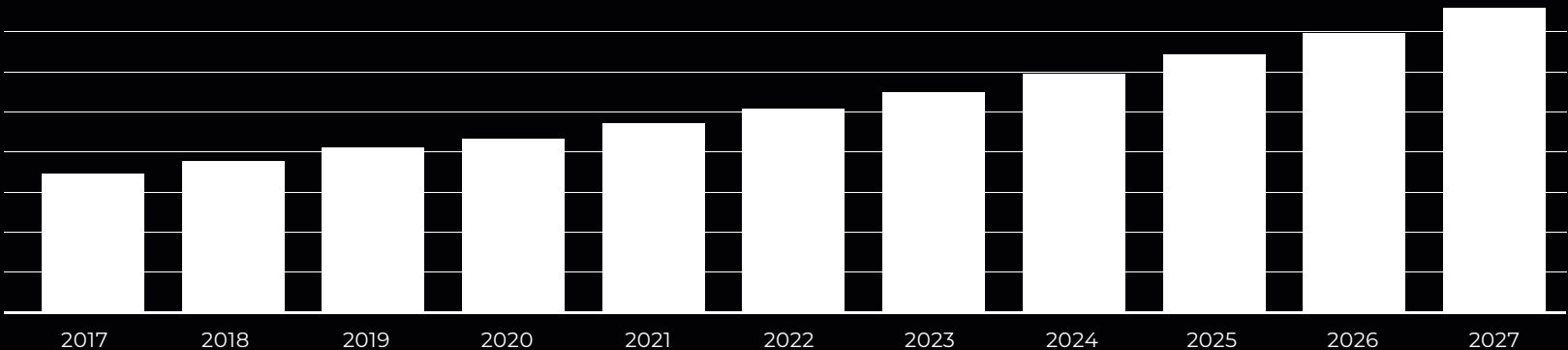
CHINA DOMINATES THE MARKET

- China accounted for 70% of world mine production of rare earths in 2024.²
- China is home to at least 85% of the world's capacity to process rare earth ores.³
- The United States sources most of its rare earth imports from China.
- The U.S. government announced that Canadian companies can be eligible for the Defence Production Act that will be awarded as grants, not loans, to companies that can help secure domestic REE supply.⁴
- Canada and the U.S. signed a Memorandum of Understanding confirming Canada's participation in the U.S.-led Energy Resource Governance Initiative (ERGI), part of a multi-pronged strategy by Washington to break free of China's near-monopoly on so-called critical energy minerals.⁵

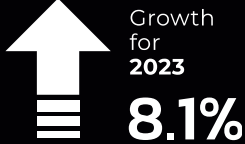
1. <https://hamiltonlocke.com.au/unlocking-clean-energy-the-crucial-role-of-rare-earth-minerals-whats-all-the-fuss-about/>
2. <https://investingnews.com/daily/resource-investing/critical-metals-investing/rare-earth-investing/rare-earth-metal-production/>
3. <https://www.areadevelopment.com/logisticsinfrastructure/q4-2024/the-battle-to-break-chinas-rare-earth-supply-chain-dominance.shtml>
4. <https://www.defense.gov/News/Releases/Release/Article/3777044/departments-of-defense-awards-147-million-to-enhance-north-american-cobalt-and-g>
5. <https://www.canada.ca/en/natural-resources-canada/news/2019/12/canada-joins-the-energy-resource-governance-initiative.html>

Domestic REE Opportunity

Market Size Outlook (USD Million)

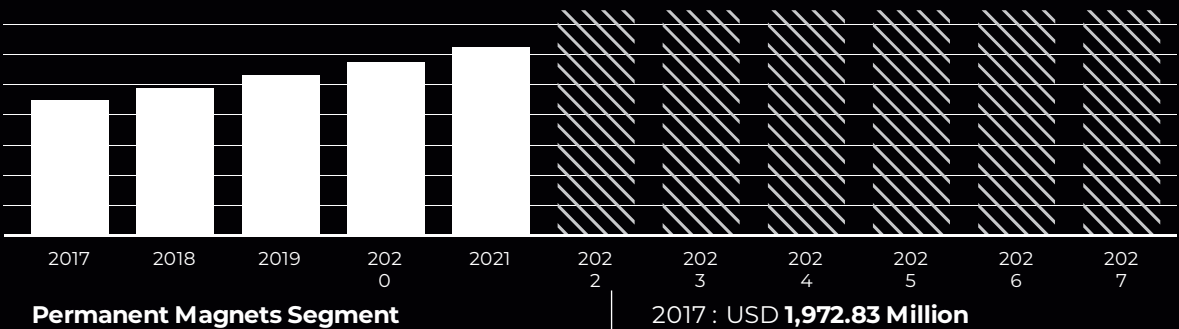
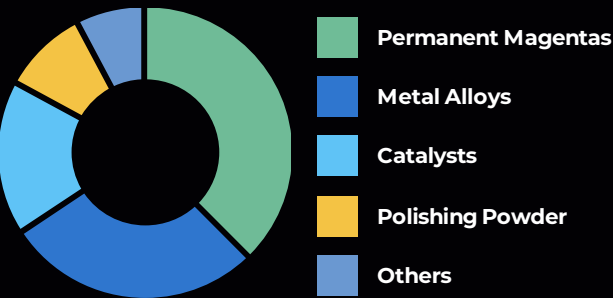


2017: USD \$6,898.00



Rare Earth Metals Market

Share by Application (USD Million)



Permanent Magnets Segment

2017 : USD 1,972.83 Million

Ai's Growth And Use In Semiconductors

- **Specialized Chip Demand:** The demand for Artificial Intelligence specific chips is soaring. In 2023, advanced AI chips were selling for approximately US\$40,000 each, with a strong demand for a million or more units. This trend is expected to persist into 2024, with manufacturers struggling to meet the overwhelming demand.¹
- **Potential Revenue Increase:** By harnessing AI, the semiconductor industry could potentially see an increase in earnings before interest of \$85- \$95 billion annually by 2025. This huge potential underscores the importance of integrating AI into semiconductor manufacturing processes.¹
- **The global Artificial Intelligence Chip market generated USD \$14.68 billion revenue in 2022** and is projected to grow at a CAGR of 38.16% from 2023 to 2032. The market is expected to reach USD \$372.01 billion by 2032.²
- **The global semiconductor market size was valued at \$611.35 billion in 2023** & is projected to grow from \$681.05 billion in 2024 to \$2.06 trillion by 2032.³



1. <https://j2sourcing.com/blog/the-impact-of-ai/#:~:text=Potential%20Revenue%20Increase%3A%20By%20harnessing,AI%20into%20semiconductor%20manufacturing%20processes>

2. <https://www.thebrainyinsights.com/report/artificial-intelligence-chip-market-13921#:~:text=The%20global%20Artificial%20Intelligence%20Chip,USD%20372.01%20billion%20by%202032>

3. <https://www.fortunebusinessinsights.com/semiconductor-market-102365>

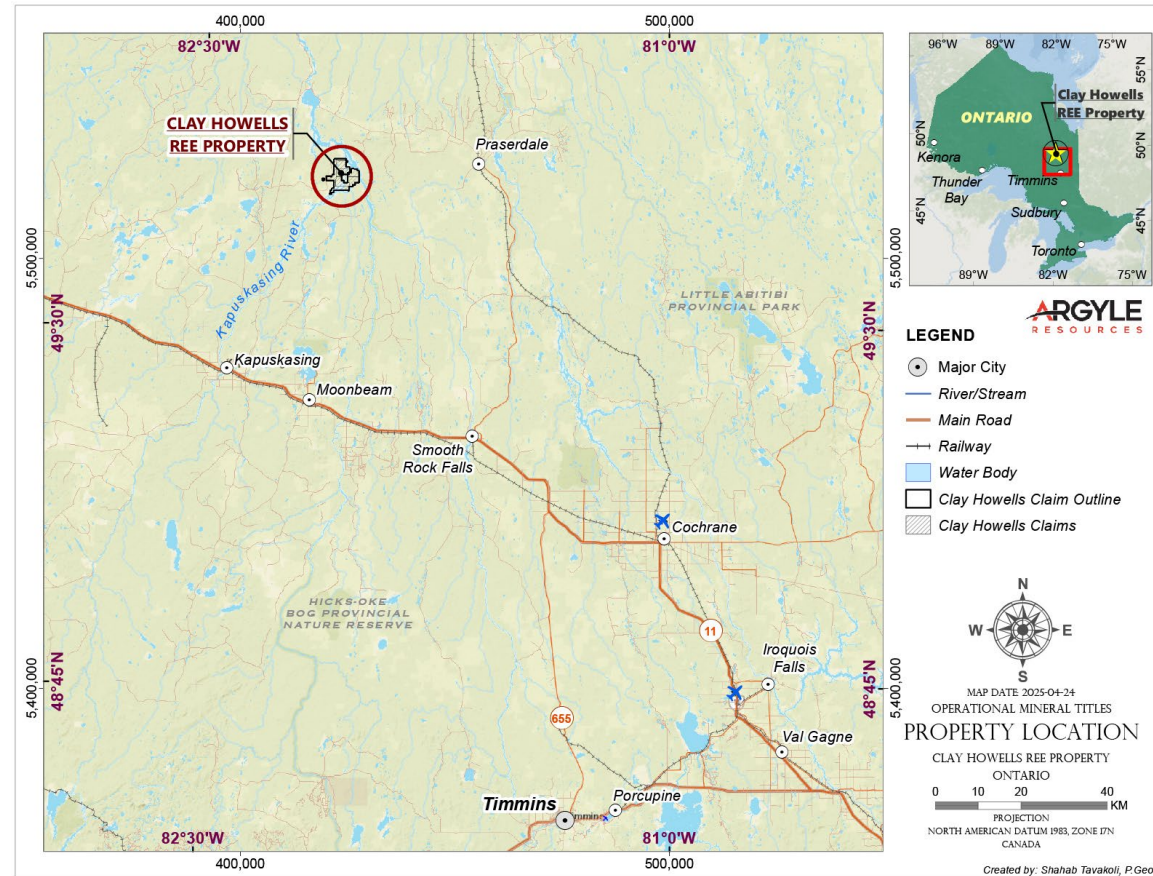
Ai's Growth And Use In Semiconductors

- **The Taiwan Semiconductor Manufacturing Company (TSMC)** makes all of the world's advanced AI chips. Most importantly, Nvidia's GPU's; it also includes the AI chips for Google, AMD, Amazon and Microsoft.¹
- **Modern artificial intelligence simply would not be possible without these highly specialized chips.** Every important AI breakthrough over the past decade, from AlphaGo to AlphaFold to Midjourney to ChatGPT—rely on these chips.¹

1. <https://www.forbes.com/sites/robtoews/2023/05/07/the-geopolitics-of-ai-chips-will-define-the-future-of-ai/>

Clay-Howells REE Property Ontario

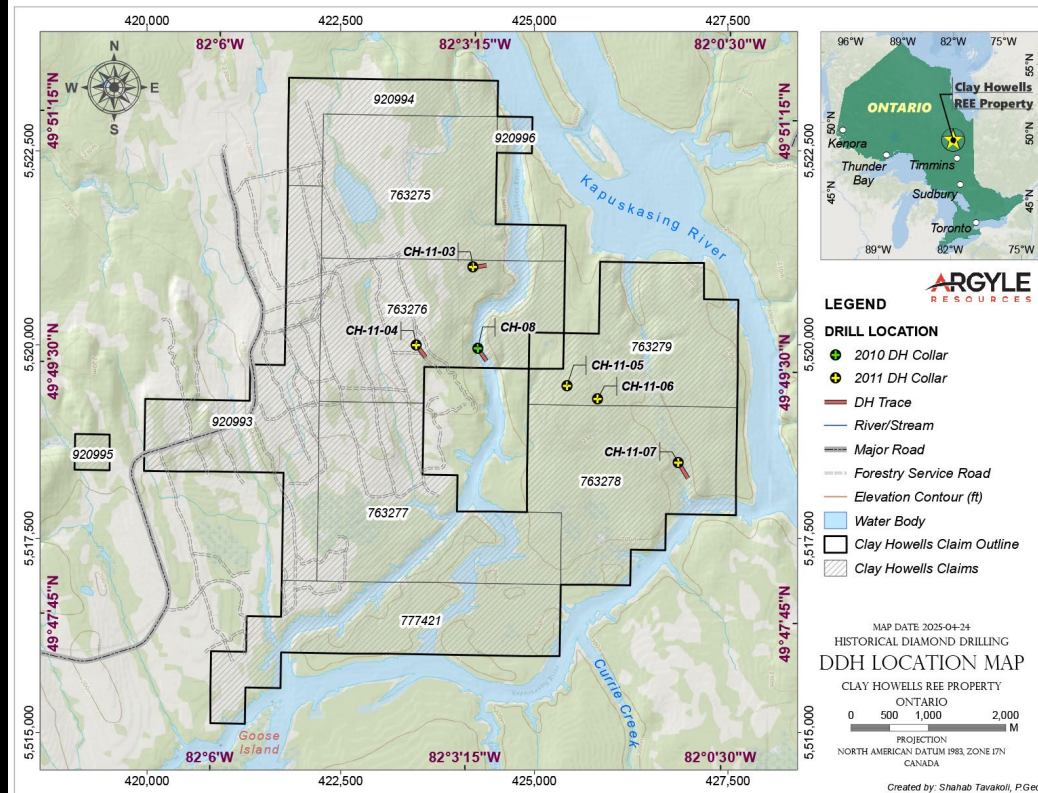
The Clay-Howells REE Property is located in northern Ontario, approximately 70 km north of the community of Kapuskasing. The project consists of 10 contiguous mining claims totaling 160 hectares. The mining claims and patents can be easily accessed by 4x4 pick-up truck using an all-weather access road from Kapuskasing and an abandoned logging road named CSR-8. 2010 and 2011 drilling activities were staged from a camp located at UTM coordinates 4213982E and 5522864N (Zone 17, NAD 83.)



Geology

The Clay-Howells Alkalic Rock Complex is comprised of 2 broad types of silica over-saturated syenitic rocks intruding a sequence of Early Precambrian aged paragneisses and orthogneisses that have been regionally metamorphosed to the upper amphibolite – granulite facies typical of the Kapuskasing Sup-Province (Sage, 1988).

Clay-Howells REE Property



Historic Drilling

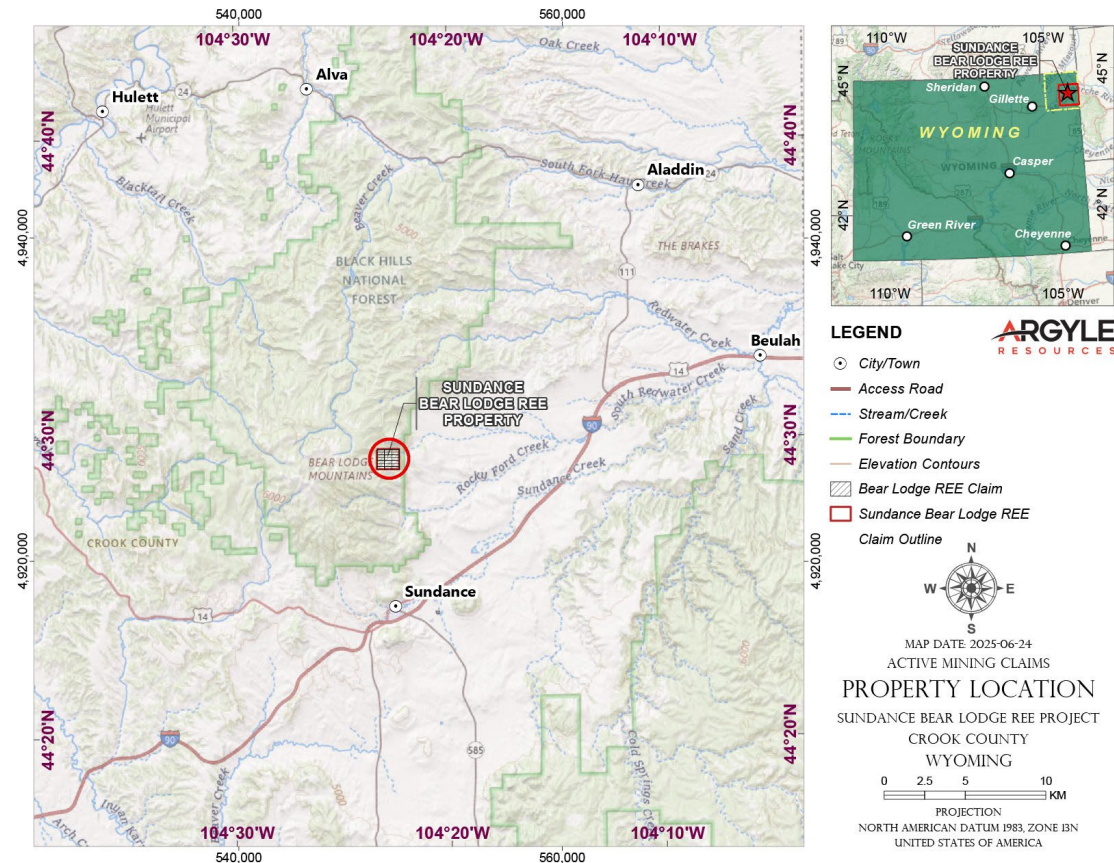
Diamond drilling activities were conducted on the Clay-Howells Property in 2010 and a follow up drill program in 2011. Norex Drilling Ltd. was contracted to build a camp on the property as well as conduct the drilling operations.

A total of six drill holes were completed within the carbonatite – magnetite zone to test Niobium – Rare Earth Element mineralization at depth.



Sundance Bear Lodge REE Property Wyoming

- 21 mineral lode claims totaling 175 hectares
- 10km north of Sundance, Wyoming in Crook County
- Accessible via forest service roads and ATV trails
- Sundance Bear Lodge REE project shares a border with the Bear Lodge Critical Rare Earth Project, owned by Rare Element Resources

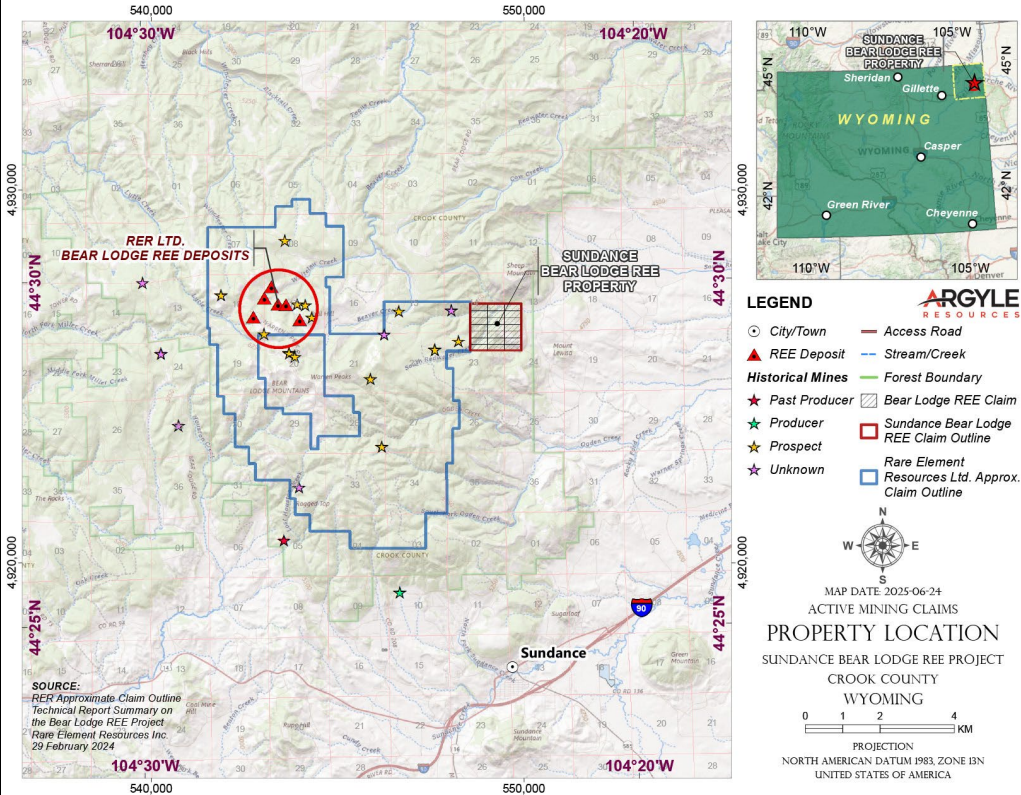


Bear Lodge Mining District Geology

The Bear Lodge mining district is in the Bear Lodge Mountains, near the western end of the northern Black Hills intrusive belt. The Bear Lodge Mountains expose and are underlain by multiple alkaline plugs, sills and dikes intruded into Archean basement and Paleozoic and Mesozoic sediments approximately 38 to 51 million years ago, forming an elongate, northwest-trending dome.

The Bear Lodge Mountains are part of the Black Hills Uplift, formed by the intrusion of a Tertiary-aged alkaline igneous complex during the waning stages of the Late Cretaceous-early Tertiary Laramide Orogeny

Sundance Bear Lodge REE Property



Notable mining activity within the Bear Lodge Mining District, Wyoming:

- Bear Lodge Critical Rare Earth Project, owned by Rare Element Resources
- From 1987 to 1991, Hecla Mining identified key deposits like Bull Hill and Whitetail Ridge within the Bear Lodge Critical Rare Earth Project, while exploring for REEs and gold.
- Rare Element Resources resumed REE exploration in 2004, drilling nearly 500 holes totaling over 285,000 feet and identifying multiple target zones.

Silica

The World's Second-Most Consumed Resource After Water¹.



- Silica is an oxide of silicon (silicon dioxide) which is primarily found in quartzite. High Purity Quartzite (HPQ) is ideal for industrial processing. *Source: <https://en.wikipedia.org/wiki/Quartz>*
- Typically, quartz deposits are widely dispersed in nature, but the presence of ore bodies capable of yielding high-purity quartz is exceedingly rare. *Source: <https://www.mdpi.com/2075-163X/13/12/1505>*
- Silicon, derived from high quality quartz, is the most common material for semiconductors due to its high stability as an atom, and that it doesn't break easily under high temperatures. *Source: <https://www.acumenresearchandconsulting.com/silicon-market#:~:text=The%20Global%20Silicon%20Market%20Size,5.1%25%20from%202022%20to%202030.>*
- Argyle Resources silica project shows exposed quartz outcrops potentially offering low-cost exploration.* *Source: GM18030 – Geologic Report, Pilgrim Islands Quartzite – K.W. Greig*
- Our Quebec based properties serve the St. Lawrence seaway, proximal to deepwater ports, abundant electricity, skilled labour, rail and highways.
- Quebec ranked 8th most attractive jurisdiction worldwide for mining investment. *Source: <https://www.fraserinstitute.org/categories/mining>*
- EU declared Silicon a critical raw material as a wide range of modern technologies depend on it to make various industrial and consumer products. *Source: <https://www.consilium.europa.eu/en/infographics/critical-raw-materials/>*
- Silicon added to US Department of Energy (DOE) List of Critical Materials for Energy list in 2023 *Source: <https://www.federalregister.gov/documents/2023/08/04/2023-16611/notice-of-final-determination-on-2023-doe-critical-materials-list>*
- Silicon metal added to Canadian critical minerals list 2024 *Source: <https://www.canada.ca/en/campaign/critical-minerals-in-canada/critical-minerals-an-opportunity-for-canada.html>*

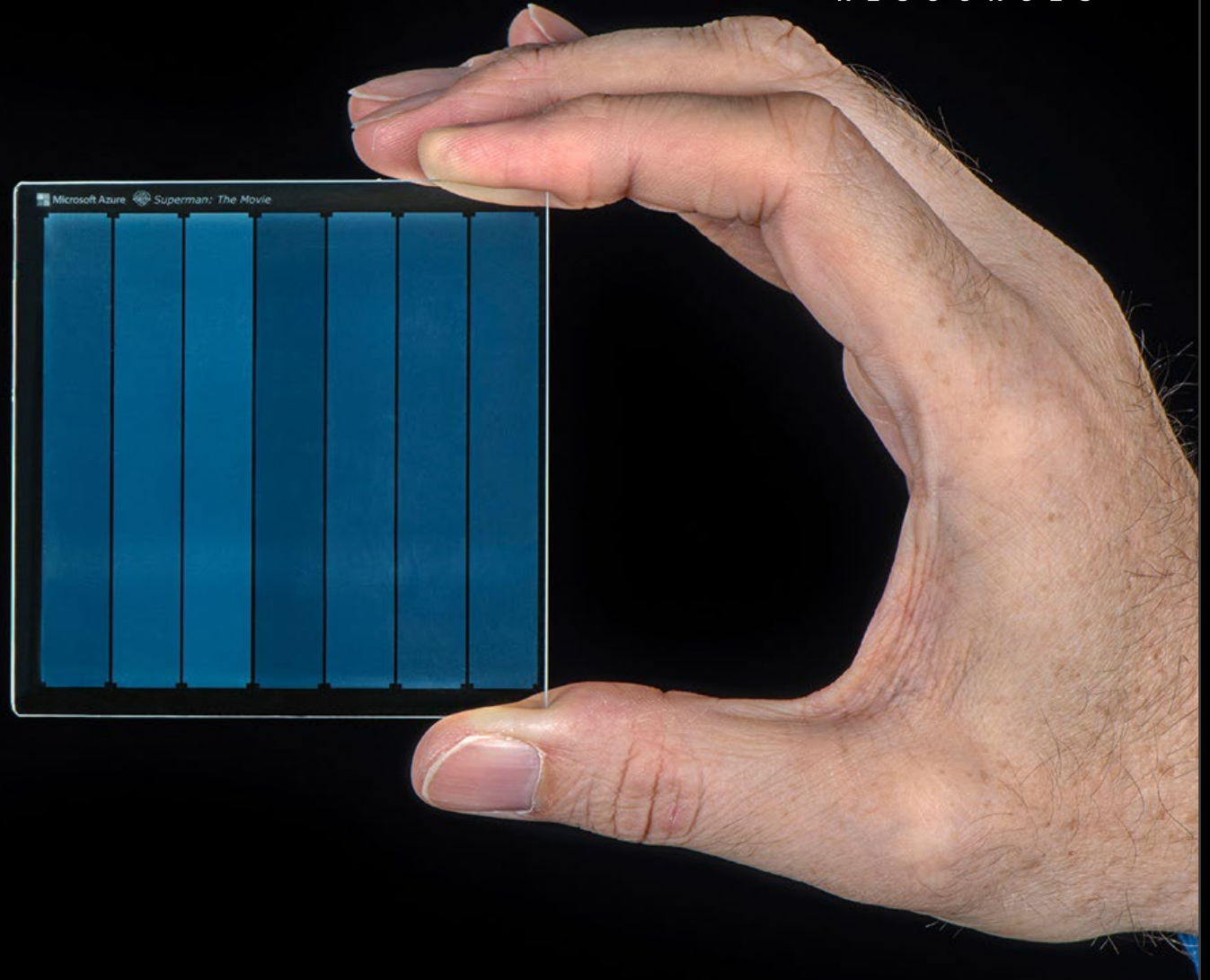
QUALITY ASSURANCE

* George M. Yordanov, OGQ., P.GEO., an Independent Qualified Person as such term is defined by National Instrument 43-101. Argyle cautions investors it has yet to verify historical exploration data.

1. <https://www.mdpi.com/2075-163X/13/12/1505>

Microsoft's Project Silica

- Project is designed to move data storage from magnetic based chips to silica-based glass plates.¹
- Resistant to electromagnetic pulses and environmentally friendly due to their extensive lifespan compared to legacy data storage.¹
- Increased lifespan from magnetic based storage (5-10 years) to potentially thousands of years on glass.²
- Increased data storage capabilities of several terabytes. For example, 1.75m songs on a plate the size of a drink coaster.²



1. Source 1: <https://unlocked.microsoft.com/sealed-in-glass/>

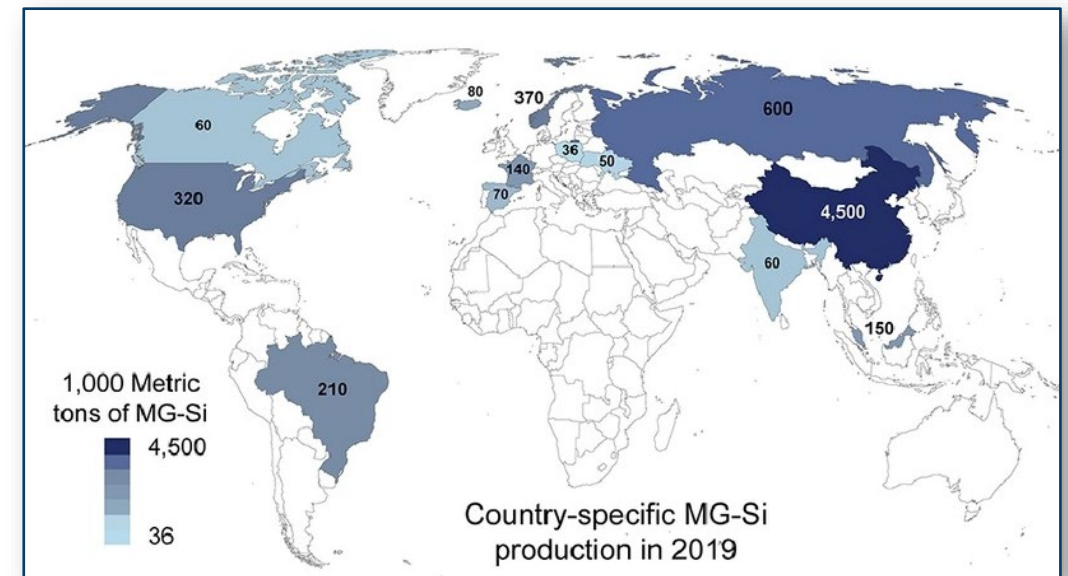
2. Source 2: <https://aibusiness.com/verticals/microsoft-wants-to-store-ai-data-using-glass#close-modal>

Purity is Critical

The **solar market** was first to demonstrate commercial value of silica purity.

- **Photovoltaic (PV)** solar panel installations have increased from one gigawatt (GW) in 2000 to 480 GW in 2018 and are expected to reach 8519 GW by 2050. (*International Renewable Energy Agency (IRENA), 2019*)
- **Silicon PV (Si PV)** represents 97% of the current PV market and should remain the dominant technology until 2040, but raw material shortage could reduce the market share of Si PV (*Masson and Kaizuka, 2020*)
- **China consumes silicon commercially but does not dominate resource extraction:** China is the largest MG-Si producer in the world (U.S. Geological Survey (USGS) Mineral Commodity Summaries, 2020), but does not have enough domestic high-quality quartz resources (Zhou and Yang, 2018) and therefore either produce MG-Si from lower-quality resource or import high-quality sands from other countries.
- The global **Crystalline Silicon PV Cells market size** was valued at USD \$52.7 billion in 2022 and is expected to expand at a CAGR of 7.42%, reaching USD \$80.9 billion by 2028.

Source: <https://www.linkedin.com/pulse/crystalline-silicon-pv-cells-market-size-share-growth-wr3se/>
<https://www.marketreportsworld.com/global-crystalline-silicon-pv-cells-market-24822696>

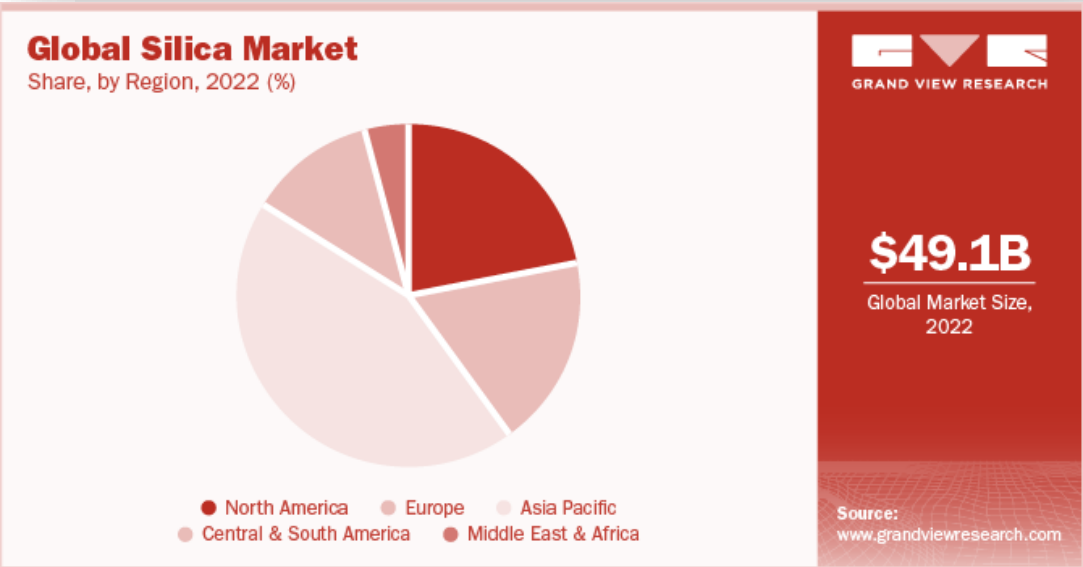
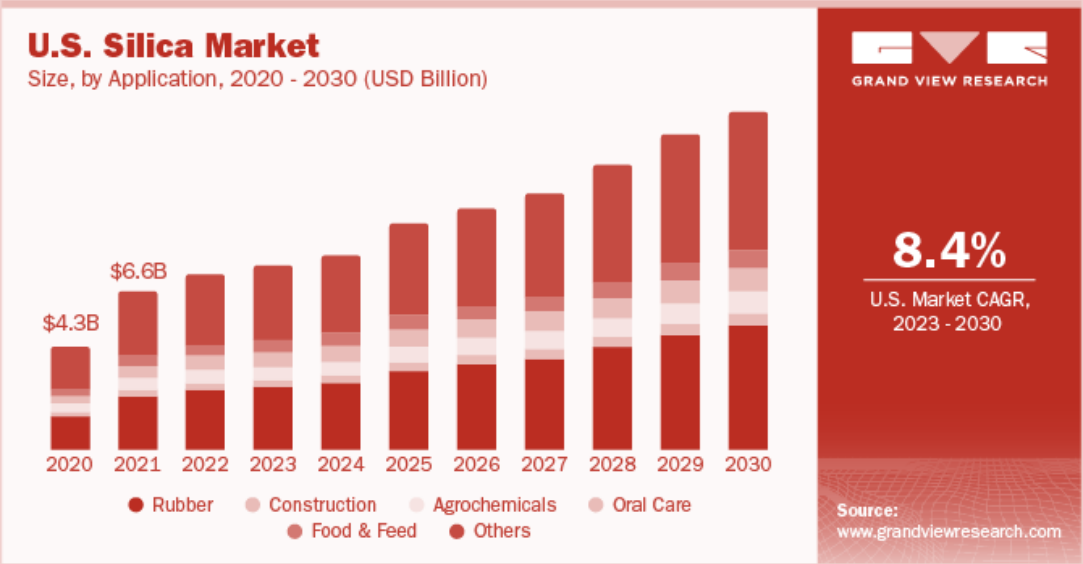


<https://www.sciencedirect.com/science/article/abs/pii/S0921344922000192>

Silica Market

Silica sand (SiO_2) is the finely crushed form of quartz with high silicon dioxide content. It contains at least 95% SiO_2 and less than 0.6% iron oxide. Sand that does not fulfill this criterion is considered regular sand.

The global silica market size was valued at USD 49.12 billion in 2022 and is estimated to grow at a compound annual growth rate (CAGR) of 9.9% from 2023 to 2030.¹



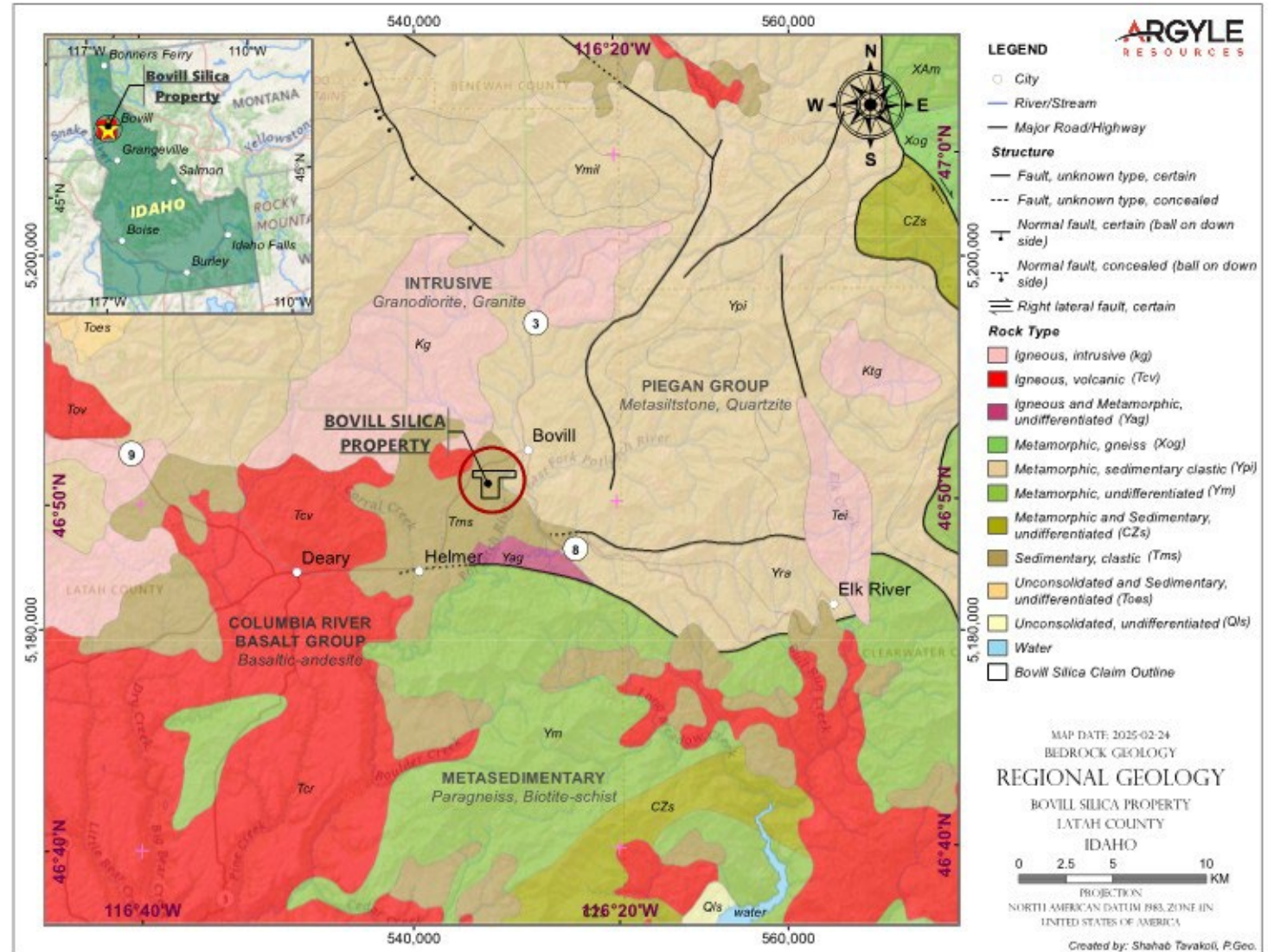
Market size value in 2023¹ USD 52.69 billion

Revenue forecast for 2030 USD 104.34 billion

1. <https://www.grandviewresearch.com/industry-analysis/silica-market>

Bovill Silica Project Idaho, USA

- 22 mineral lode claims totalling 184 hectares
- 3km west of Bovill, Idaho
- Accessible via HWY 8 as well as forest service roads



Bovill Silica Project USA

Geology

Mining activity within the Bovill, Idaho region:

1. Bovill Kaolin Project¹

- Commodities: Kaolin, Halloysite, Quartz, K-feldspar
- Use: Used in ceramics, paints, plastics, and high-tech applications like nanotechnology.

2. Bovill Clay Deposit²

- Commodities: Kaolin, Halloysite
- Use: Primarily for ceramics and industrial applications.

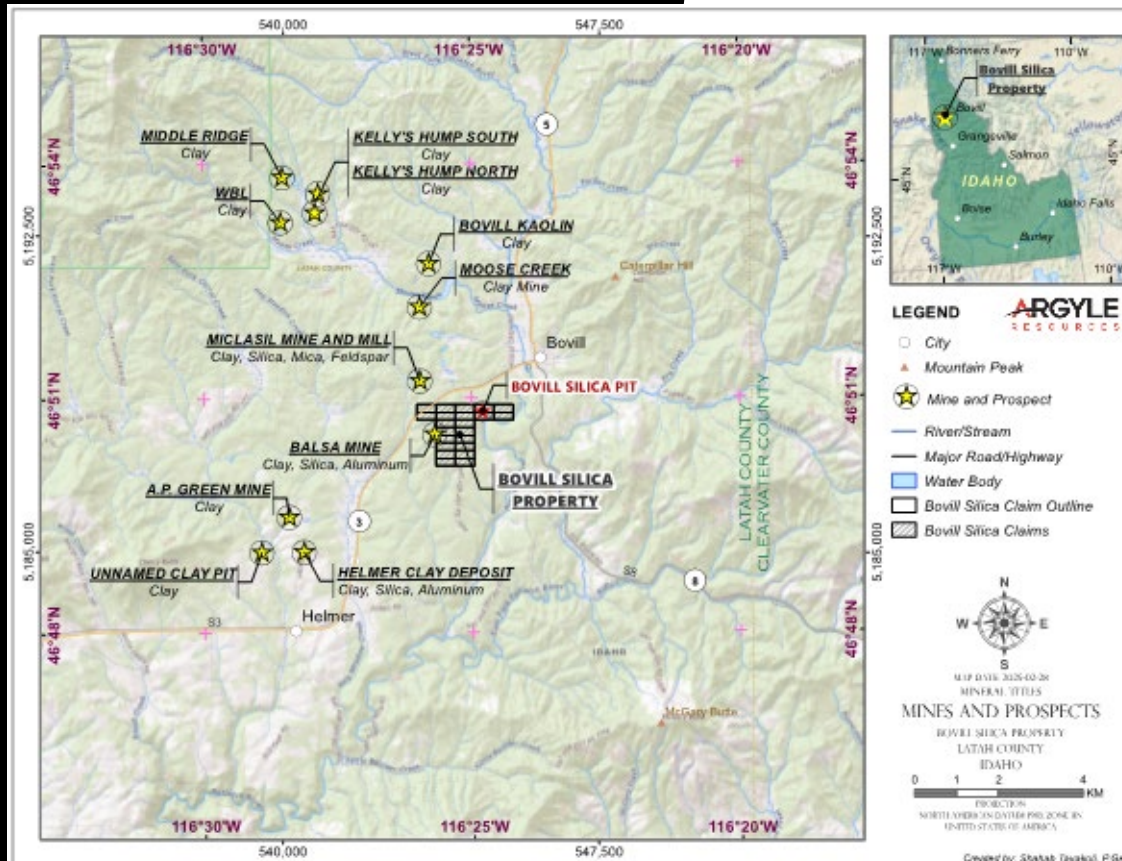
3. Ruby Creek Mine³

- Commodities: Gold
- Use: Gold extraction for commercial and industrial use.

4. Feather Creek Prospect⁴

- Commodities: Gold, possibly associated minerals
- Use: Gold mining, exploration potential for other minerals.

These mines and prospects primarily focus on kaolin-related clay deposits and gold, with kaolin and halloysite being notable for their industrial and technological applications.

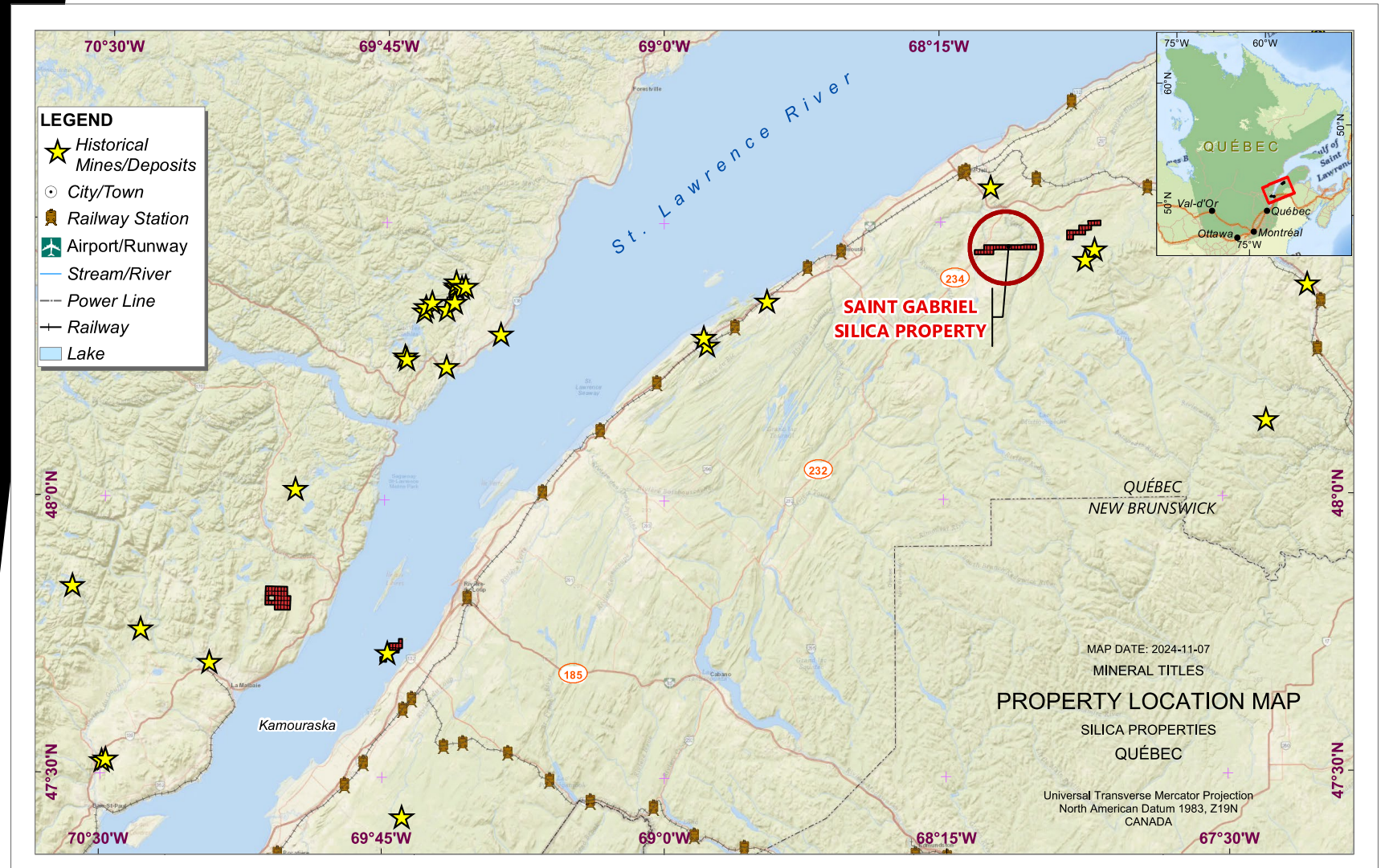


- <https://www.mining-technology.com/projects/bovill-kaolin-project-idaho/>
- <https://westernmininghistory.com/mine-detail/10119938/>
- <https://westernmininghistory.com/mine-detail/10072079/>
- <https://westernmininghistory.com/mine-detail/10096415/>

Properties Quebec

- Pilgrim Islands
- Matapedia
- Lac Comporté
- Saint Gabriel

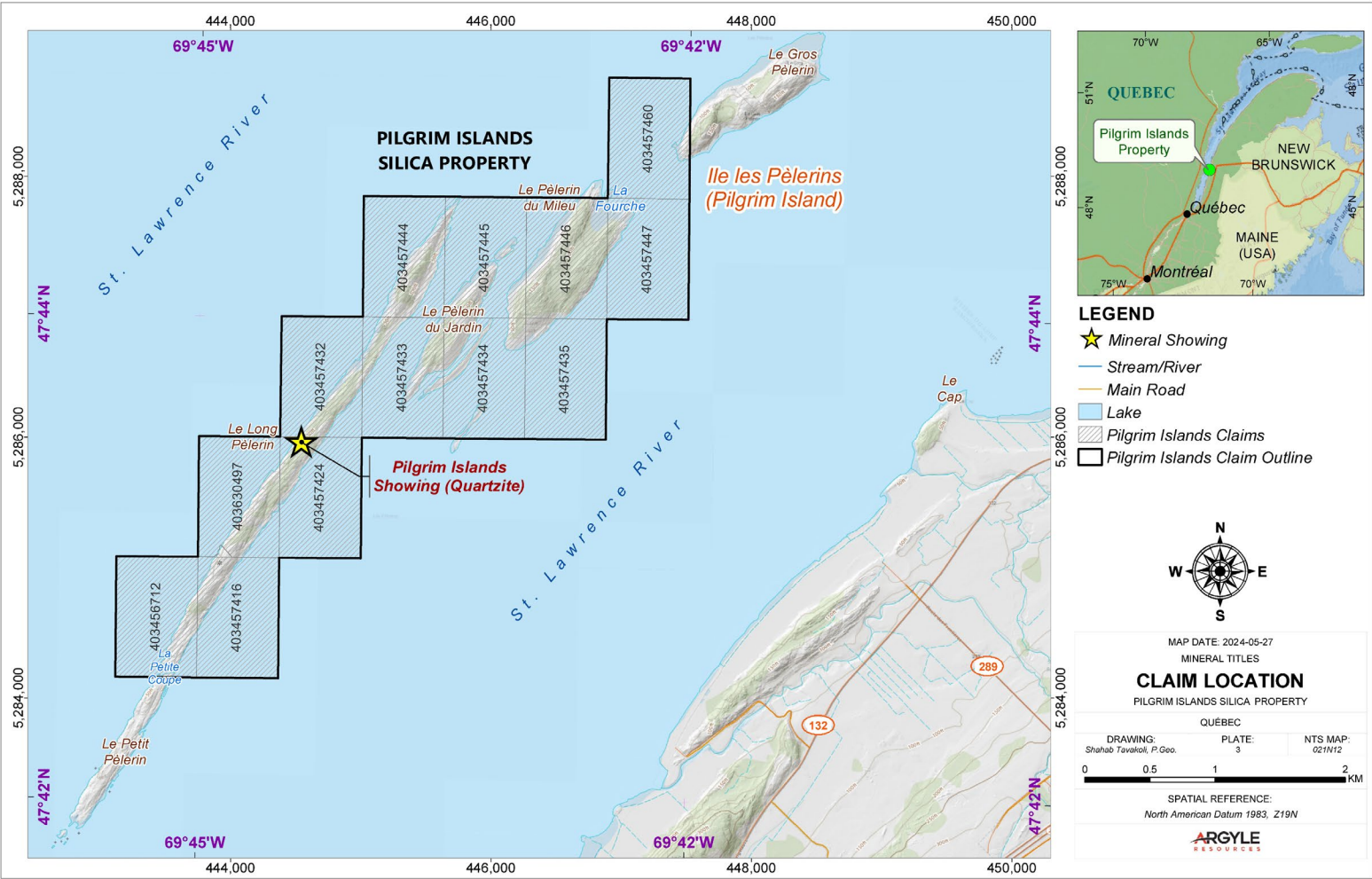
The presence of regional port infrastructure and railways are positive factors in expediting the transport of industrial minerals to the Great Lakes, the eastern USA, or overseas.



Pilgrim Islands Silica Property (Les Pèlerins Islands Sector)

Despite the absence of mining exploitation, the region is recognized by sedimentologists for its quartzites, which are particularly well exposed on the Pèlerins (Pilgrim) Islands bordering the coastline of the south shore of the St. Lawrence.

Source: GM18030 – Geologic Report, Pilgrim Islands Quartzite – K.W. Greig

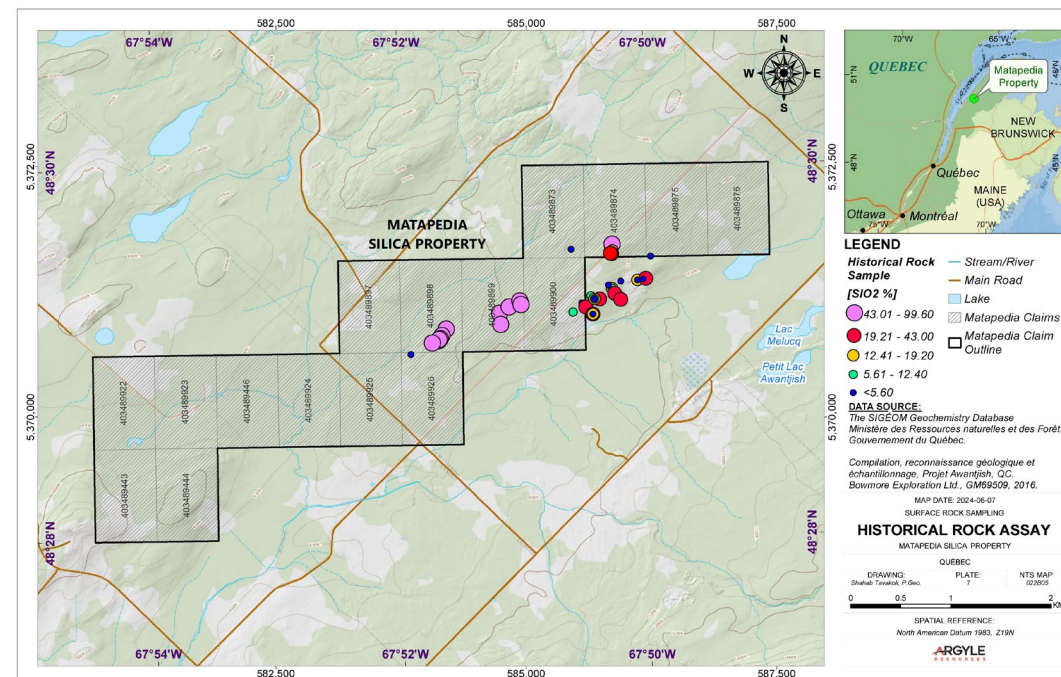


Matapedia Silica Property (St-Moise, Quebec)

Located 36 km from the coastal village of Grand-Métis, the property is included in a region of forest land. The silica showing sector also contains limestone which is exploited in the region by a small quarry.

The siliceous units of the Val-Brillant Formation rest above the Orignal Formation which is recognized in Lower St-Lawrence and Gaspesia for containing the most aluminous argillite in Quebec.¹ The presence of these three minerals (silica-limestone-aluminous claystones) in the St-Moise region could be highly strategic for certain industrial applications.

1. GM695509 Geologic report, Tiphane, M. (1975) DP323 and Quebec Ministry of Natural Resources.

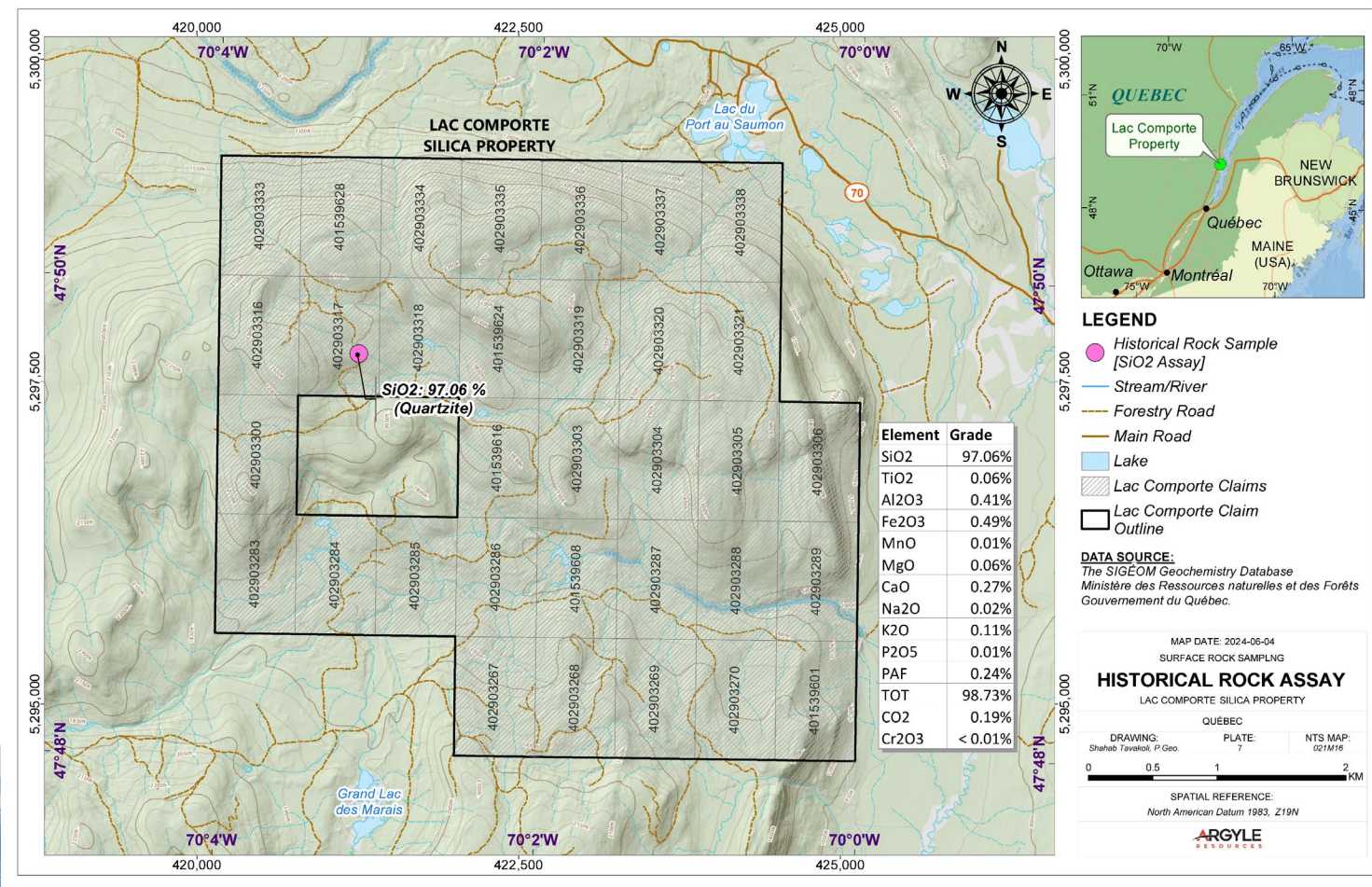


Historical Rock Assay map Source: Compilation Geological Reconnaissance and Sampling – Project Awantjish, QC, Bowmore Exploration Ltd – GM 69509, 2016



Lac Comporté Silica Property (La-Malbaie, Charlevoix, QC)

The Lac Comporté project is located on the north shore of the St. Lawrence River in the La-Malbaie area. Access to the site is by provincial and forest roads from route 138 following a forest gravel road for 11 km.

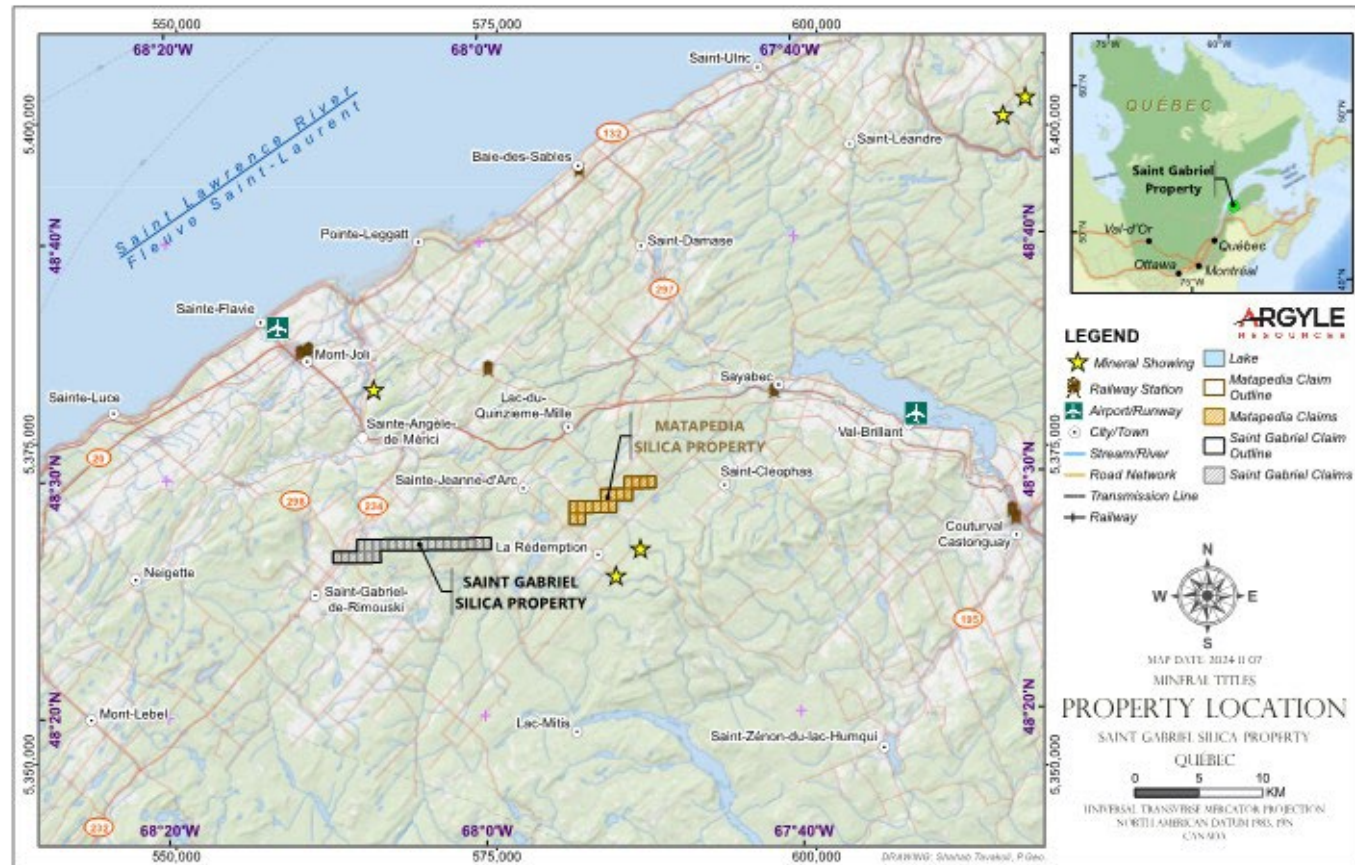


Historical Rock Assay map source (1): The SIGEOM Geochemistry Database - Ministry of Natural Resources and Forests - Government of Québec

Historical Rock Assay map source (2): GM71500 - Visit to the Mont Grand-Fonds quartzite property, page 1, 2018

Saint Gabriel Silica Project (Bas-Saint-Laurent Region, Quebec)

The Saint Gabriel Silica Project consists of 23 contiguous mining claims totalling 1,312.90 ha. located in Bas-Saint-Laurent Region, Quebec. The Project is 364 km northeast of Quebec City with gravel road access off Highway QC 234.



Exploration History – Summary of Activities 1960-2023

- 1960s: Initial geological mapping by Quebec Ministry of Mines
- 1980s-1990s: Sampling and drilling programs
- 2023: Sampling by Noront Group; samples sent to ALS Laboratory in Mississauga

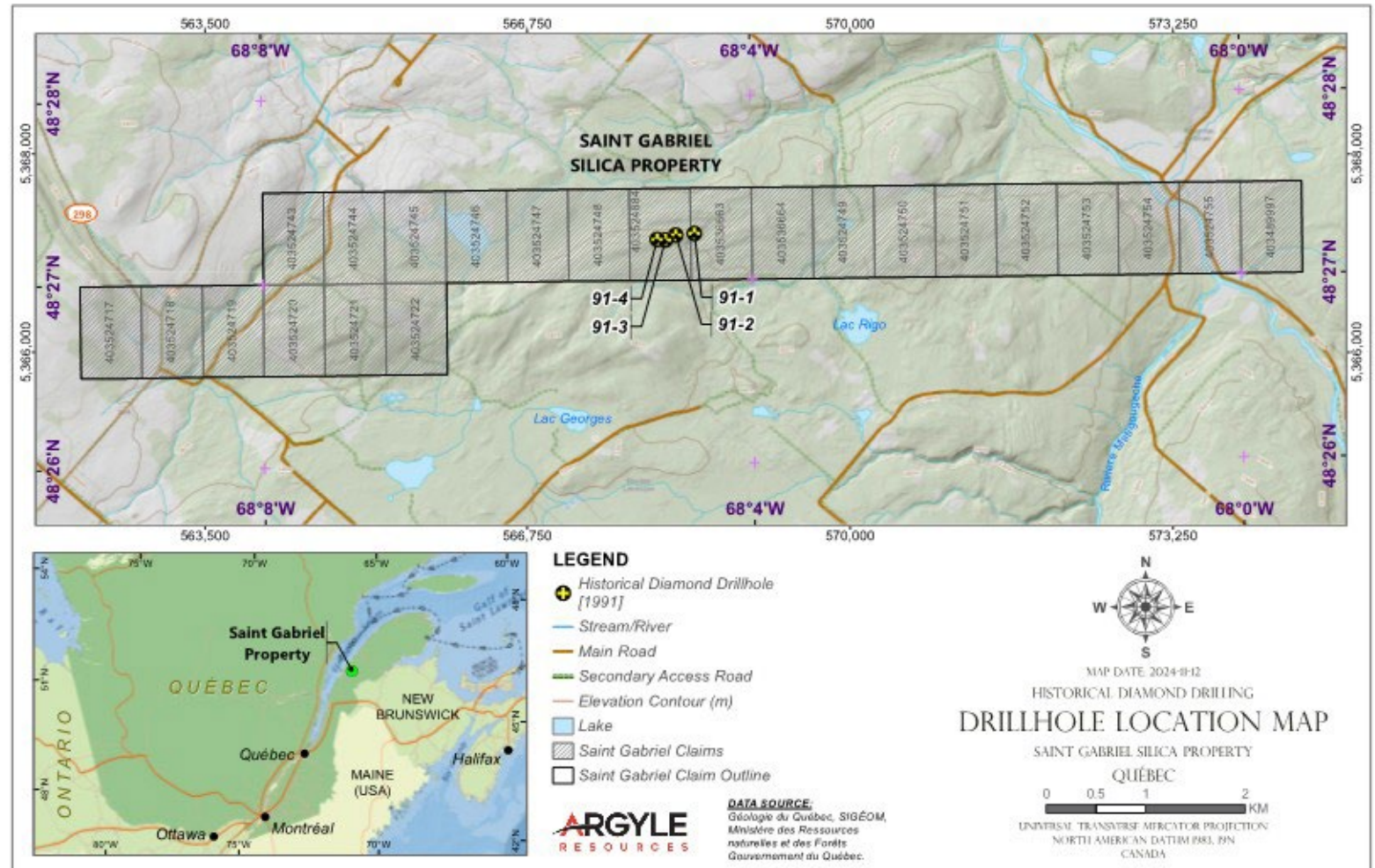
1991 Drill Program

The map below depicts the location of prior drilling activities in respect of the Saint Gabriel project, carried out in 1991 by Andre Liboiron.

Saint Gabriel Silica Project (Bas-Saint-Laurent Region, Quebec)

Commentary from Argyle CEO, Jeff Stevens:

"The Bas Saint Laurent region has a long history of promising geological exploration dating back to the 1960s, when the Quebec Ministry of Mines first mapped the area's quartzite formations. As we move into 2025, our planned Phase 1 exploration program at Saint Gabriel will focus on identifying potential high-purity silica zones to assess future development potential. This will include field-based XRF analysis to assess silica purity in real time, systematic sampling across the entire property with corresponding GPS coordinates and XRF data, laboratory verification of silica purity, and a 150kg bulk sampling program targeting two high-purity zones identified through chip sampling results."



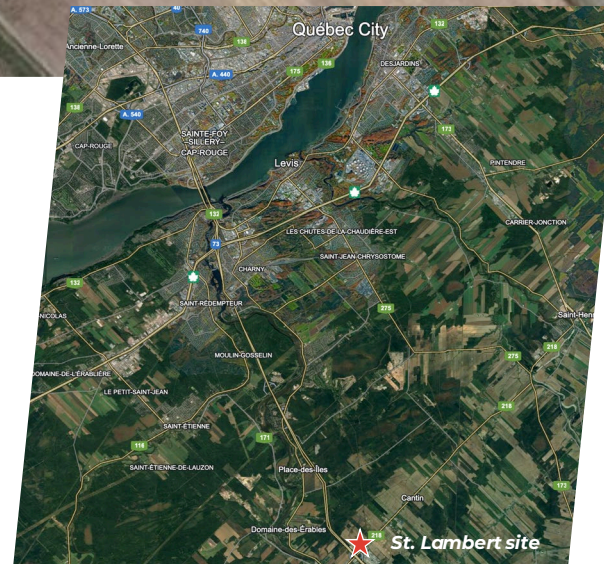
Logistics & Operations

INRS Pilot Plant Field Research Facility (Quebec)

The site is large enough to store quartzite samples and field equipment. Possibility of converting part of the facility into a small preparation lab (4-season).

The location is large enough to store the mobile crushing and pulverizing equipment.

Dependent upon the volume of activity, the facility offers adequate office space and accommodation for the Argyle field team.



Silica Project Special Investigation Team



Professor Marc Richer-Lafèche, PhD, Scientific Head of the Applied Geoscience Laboratory at the INRS Eau Terre Environment Research Centre, will oversee continued research by conducting:

1. High-resolution drone surveys to produce a digital terrain model and orthorectified color imagery in an attempt to define quartzite formations, conduct environmental assessments, and possible quarry design;
2. Petrophysical study of the quartzite and surrounding host rock to determine optimal geophysical exploration tools;
3. Granulochemical and mineralogical studies of the quartzite to determine the industrial potential of the quartzite;
4. Geometallurgical tests with the aim to optimize the silica purification process;
5. Collection of meteorological data to monitor precipitation and environmental considerations and;
6. Installation of wildlife cameras to monitor animal activity within the project footprint.

The National Institute of Scientific Research (INRS) is dedicated exclusively to graduate level research and training. Since its creation in 1969, the institute has built its success on interdisciplinarity, innovation, and excellence.

Argyle Resources will engage a qualified regulatory compliant exploration team to assist with research, exploration, and assessment efforts.



Professor Richer-Lafèche's research focuses on geophysical and geochemical studies and covers various applications from mining geophysics to marine geoscience and even archaeology. The team at the Applied Geoscience Laboratory conducts geophysical studies for mineral, oil and gas exploration, geotechnics, and archaeology. The research facility has the required equipment and expertise for geoelectrical tomography, electromagnetic induction, gravity, radiometric, aquatic, magnetometry, audiomagnetotelluric surveys, and field logistics.



**Institut national
de la recherche
scientifique**

Leadership



Jeff Stevens / CEO & Director

Mr. Stevens is a seasoned capital markets and deal structuring professional. He has taken multiple companies public via RTO's on various Canadian stock exchanges and has advised on numerous M&A opportunities. He has held both, senior officer and director roles with public companies in various industries. Mr. Stevens is currently CEO of Psyched Wellness Corp., a Canadian health supplements company dedicated to the production and distribution of artisanal, medicinal mushrooms and associated packaged consumer goods in the United States. In addition to Mr. Steven's experience as an operator, he also brings 20 + years of professional experience in the Canadian Capital Markets. Throughout his career, he was the head of two Sales and Trading desks and was instrumental in building the Canadian operations for a US-based Investment Bank in Toronto. Jeff's experience was largely focused on capital raising for micro-cap and small-cap companies in Canada. His client base included Institutional Money Managers, Hedge Funds, Mutual Funds, and Family Offices in Canada, the US and Europe.

Bob Krause / Director

Mr. Krause has over 30 years of industry experience as a geologist having worked extensively in North, Central and South America with an emphasis on geochemistry and exploration geology in, epithermal gold deposits, disseminated gold deposits, porphyry copper-gold deposits, and magmatic nickel-copper-PGE deposits. Mr. Krause is an exploration and project geologist having served as vice-president of exploration for numerous junior mining companies on three continents, also holding numerous directorships of public mining companies.

Leadership

Trevor Nawalkowski / Director

Mr. Nawalkowski is a business builder and entrepreneur, specializing in corporate business process and procedure for public or private companies. His roles have included corporate governance oversight, corporate secretary/legal review, business development and senior management in oil and gas, automation systems, digital communications and more. In addition, he has 15+ years of management experience in the Investor and Public relations procedure and process business.

Marianne Richer-Lafèche / Director

Ms. Richer-Lafèche is a lawyer at BCF LLP, Montréal office, where she specializes in mergers and acquisitions, investment funds, corporate governance and commercial contract drafting. Prior to joining BCF, Ms. Richer-Lafèche worked at another major Canadian law firm, where she was seconded on two occasions to clients in the financial services and consulting engineering sectors. Ms. Richer-Lafèche is a graduate of Université Laval and is currently completing a master's degree at the London School of Economics and Political Sciences. She has acted as director and corporate secretary for several organizations and is a member of the board of various private organizations and public companies.

George Yordanov, P. Geo., QP., MSc. / Director

Mr. Yordanov possesses over 15 years of management, technical, and exploration experience in the Canadian and international exploration industry. Mr. Yordanov is a Professional Geologist and an Independent Qualified Person, as defined by National Instrument 43-101. He holds an M.Sc. degree in Economic Geology with a specialization in Structural Geology and has extensive experience in grassroots exploration projects. His experience includes contributions to several major grassroots discoveries for Osisko Mining (market capitalization: \$1.23 billion), Sumitomo Metal (market capitalization: \$9.6 billion), Dundee Precious Metals (market capitalization: \$3.25 billion), and numerous other junior exploration companies. Mr. Yordanov has developed an advanced understanding of exploration for gold, base metals, lithium, and other raw materials including silica. Additionally, Mr. Yordanov served as Chief Geologist of Materials Testing, Engineering & Quality Assessment for Englobe Corp., where he oversaw industrial materials used in civil engineering and was responsible for the certification of a significant portion of the quarries in the province of Québec.

Capitalization

Shares	50,983,149
Warrants	12,572,088
Share Awards	2,275,000
Fully Diluted	65,830,237



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Date of formation	16 Mar 2023
Exchange/Ticker	CSE: ARGL OTC: ARLYF FSE: ME0
Jurisdiction where formed	Canada, British Columbia
Financial year end:	February 28
NAICS 212299	All other metal ore mining
CUSIP	04031A
ISIN	CA04031A1021
Transfer Agent	Odyssey Trust Company
Legal Counsel	Borden Ladner Gervais LLP
Auditors	A. Chan and Company LLP



THANK YOU

ARGYLE

R E S O U R C E S

CSE: ARGL/ OTC: ARLYF/ FES: ME0

High Purity Silica & REE Potential

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