

Unearthing Value Through the Early-Stage Exploration of Critical and Precious Metals.



**PLANET
GREEN
METALS**

Legal Disclaimer

WARNING

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About Us

Planet Green Metals Inc. (CSE: PGR) is a Canadian based exploration company focused on battery metals, critical minerals, and precious metals.

Our mission is to contribute to the green transition and the Canadian economy by sourcing projects containing the essential materials needed for a clean energy transition, while also providing a hedge against inflation and economic uncertainty through precious metal exploration.

This vision is underpinned by extensive experience in exploration and development, guided by a management team boasting a wealth of capital markets expertise complemented by a track record of exploration success.



Company Highlights

Growth-oriented,
battery metals, critical minerals, and
precious- metals-focused
exploration company.

Focused team set out to acquire and
develop **low-cost, high-growth assets** that
represent key inputs needed to support the
global energy transition.

Attractive capital structure with a
supportive and **strategic shareholder**
base focused on long-term value.



*"Our mission is to power
the green revolution by
sourcing high-quality
projects that provide the
vital materials essential
for a transformative
clean energy future!"*

Strong technical and management team with
**decades of experience in exploration and
the capital markets; Capital markets focused
integrated with geology expertise.**

Two under-explored properties with
upside potential; utilizing **modern and
high-level methodologies** to advance
PGR assets. With evaluation and new
assets underway.

Core projects located in Ontario, which is
emerging as **a key player in the critical
minerals market**, with significant reserves
and favourable mining regulations; attractive
location for exploration and investment.



Understanding Lithium

GROWING DEMAND FOR LITHIUM

The increasing demand for lithium, driven by its use in batteries for electric vehicles and renewable energy storage, presents a compelling investment opportunity in the exploration and production of this critical mineral.

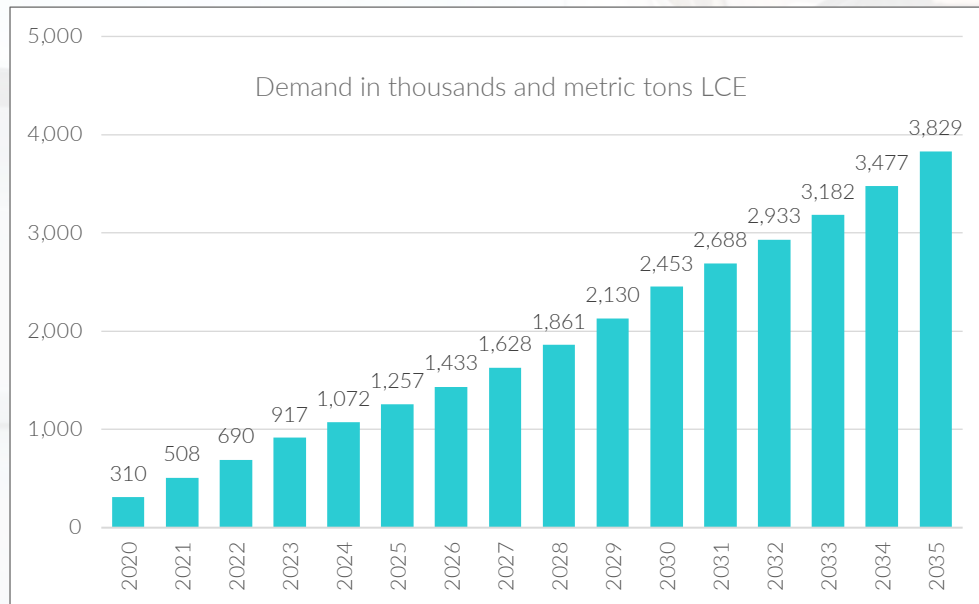
ONTARIO'S LITHIUM POTENTIAL

Ontario, Canada, is emerging as a key player in the lithium market, with significant reserves and favourable mining regulations, making it an attractive location for exploration and investment.

GLOBAL LITHIUM MARKET TREND

The global lithium market is experiencing rapid growth, with projections indicating a substantial increase in demand over the coming years, creating a favourable environment for investment in critical mineral exploration.

Demand for Lithium Worldwide (2022-2035)



54.43%

CAGR with
accelerating momentum



40.5%

Estimation of year-over-year growth rate in 2023



34%

of the growth will originate from **North America**



The market is **fragmented** with several players occupying the market share

Global Lithium Mining Market Set to Surge

EXPONENTIAL GROWTH FORECAST

**USD 22.19
Billion**

Global Lithium Market
Size 2023 ³

**USD 26.88
Billion**

Global Lithium Market
Size 2024 ³

**USD 134.02
Billion**

Projected Global Lithium
Market Size, 2032 ³

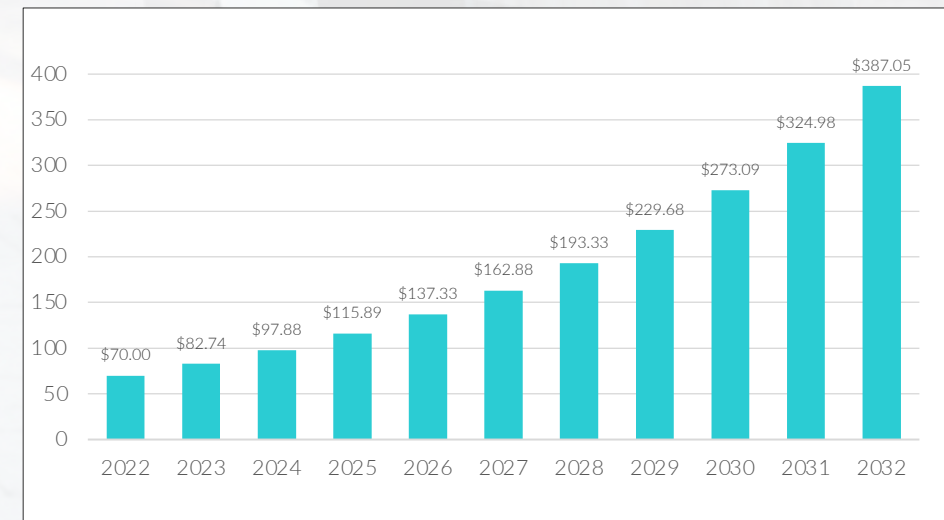
GROWTH HIGHLIGHTS

1. Total market share of EVs coupled with hybrid cars is growing to 9.1% in 2023¹
2. **Hybrid sales rose 65%** vs a 46% gain for EV sales²
3. Government investment in lithium mining
4. increasing demand for consumer electronics
5. More economical and efficient EV batteries
6. Environmentally friendly applications of lithium

Hybrid sales surged 5X faster than EV sales in February 2024, according to Morgan Stanley. ²

Toyota saw a nearly 28% increase in hybrid and plug-in sales over the previous year, now making up 30% of their portfolio. Hyundai, Ford, and General Motors are also shifting focus to hybrids, recognizing their growing market appeal.

Lithium-Ion Battery Market Size 2022 to 2032 (USD Billion)



Electrification in North America

\$100 Billion

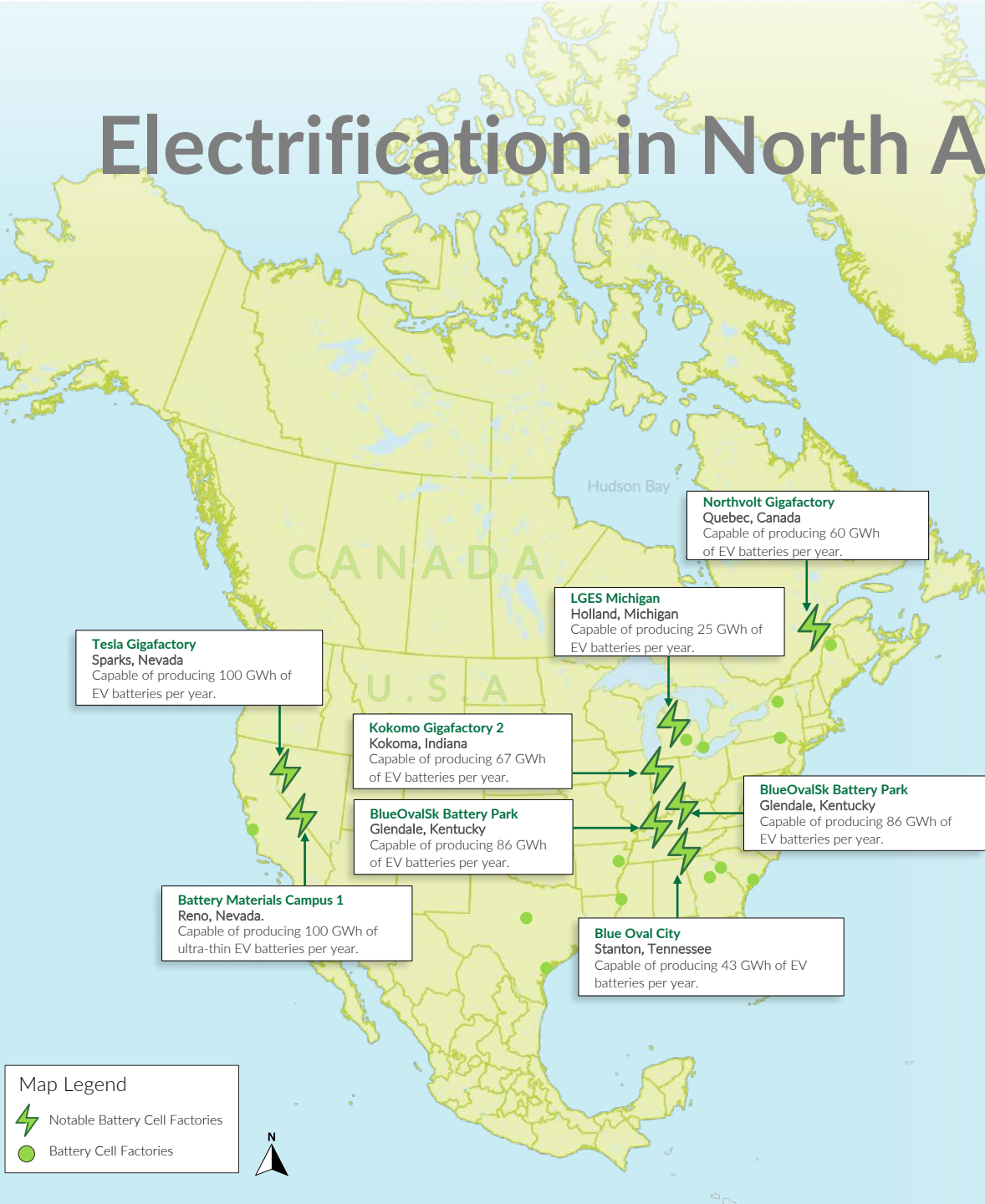
Invested and promised to invest in building domestic cell and module manufacturing by automakers and battery manufacturers by 2030.¹

\$16.3 Billion

Volkswagen has pledged over \$16 billion in building a 370-acre battery production site in Ontario: capable of producing 1 million batteries per year at an output of 90 GWh.¹

\$10-13 Million EVs

By 2030, North American battery manufacturing capacity will support the manufacturing of between 10 million and 13 million all-electric vehicles per year.²



Source 1: [Tech Crunch](#)
Source 2: [Michigan Business](#)

Electrification in North America

EXPLORATION PROJECTS IN ONTARIO

The strategic location of Ontario, coupled with its robust infrastructure and access to skilled labour, positions the province as a prime destination for critical mineral exploration and development.

Ontario's Mining Industry by the Numbers

\$13.5B

Value of mineral production in 2022

\$989M

Spent in 2022 on approximately 300 mineral exploration projects

31,000

Direct mining jobs, plus another 47,000 indirect jobs have been created

Over

376,000

Active mining claims in good standing (as of April 30, 2023)

EXPLORATION PROJECTS IN ONTARIO

Several companies are actively engaged in lithium exploration in Ontario, leveraging advanced technologies and geological expertise to identify and develop high-potential lithium deposits.

REGULATORY ENVIRONMENT

Ontario's regulatory framework for mining and exploration provides a stable and supportive environment for companies to conduct lithium exploration activities, ensuring adherence to environmental standards and community engagement.

Corporate Growth Strategy

PROJECT GENERATION

Planet Green Metals aims to acquire a minimum of 5 properties a year through various deals with prospectors, staking land, or purchasing property from other exploration companies at favorable terms.

ROYALTIES

Planet Green Metals plans to be a revenue-generating entity through the monetization of its exploration assets as the Company evolves.

Royalty companies offer equity investors diversified exposure to commodity prices while mitigating downside risk given limited exposure to operating and capital costs. This model typically produces “only good news.”

CRITICAL MINERALS IN ONTARIO

Ontario has garnered substantial investment, exceeding \$28 billion, particularly in the realm of automotive and electric vehicle (EV) manufacturing. As the demand for EVs and hybrid vehicles continues to surge, there is significant demand expected for a local, reliable source of battery and critical minerals to sustain the automotive manufacturing sector in Ontario.¹

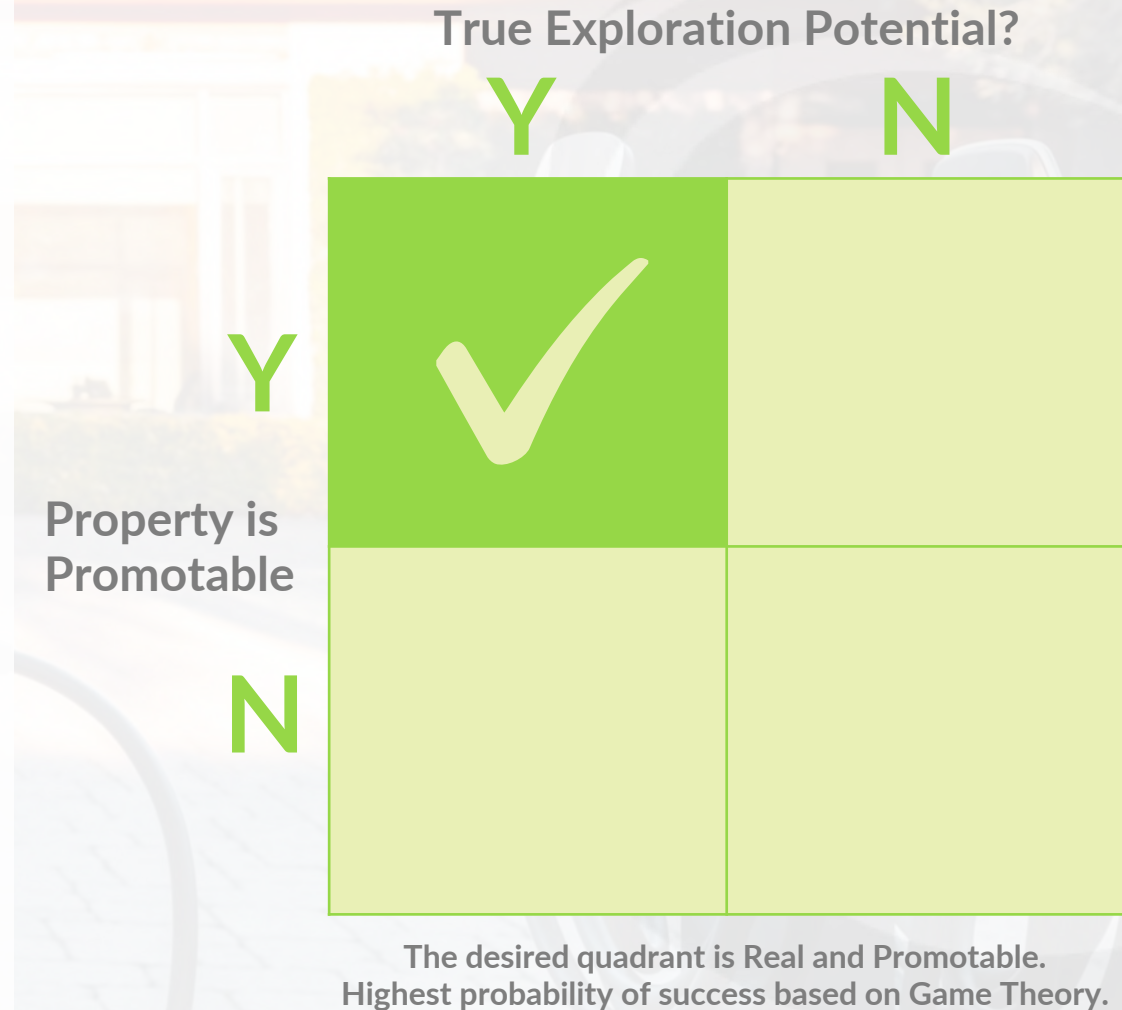
Source: [Invest Ontario](#)



De-Risked Strategy

Driving Future Growth: Strategic Acquisitions and Portfolio Expansion

- ✓ High-quality projects provided to us via prospectors and staking
- ✓ Projects evaluated internally by an experienced geoscience team
- ✓ Projects evaluated for financial backing by a management team with capital markets expertise
- ✓ High-quality exploration program defined, with an appropriate ore deposit model established
- ✓ Source and vet the highest-quality joint venture/earn-in partner that can raise capital, to conduct technically excellent exploration program
- ✓ Advisory team put in place to monitor exploration programs carried out by various partners
- ✓ Mutually beneficial agreements can be reached with local First Nations at the beginning of the project





Jeannette Lithium

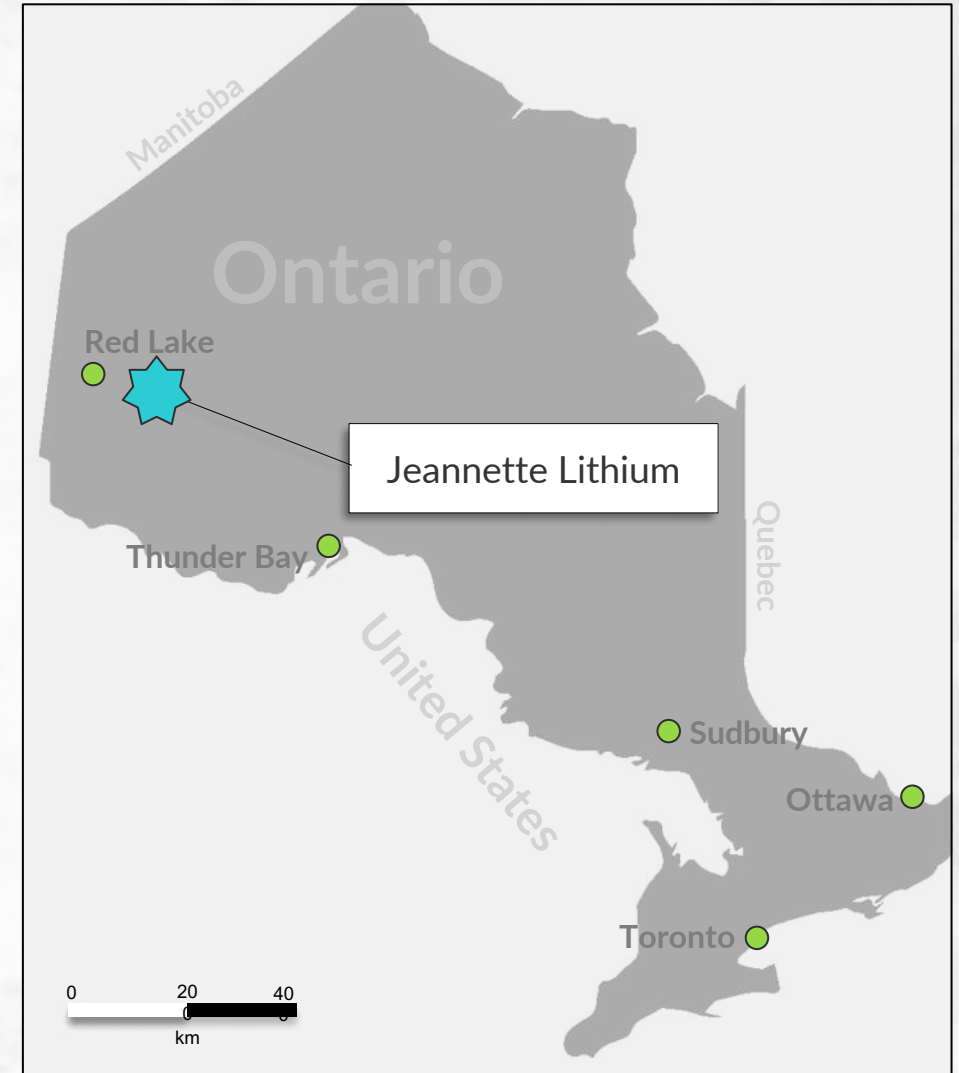


Jeannette Lithium

INTRODUCTION

The Jeannette Lithium Project is situated approximately 84km northeast of the town of Ear Falls and 105km east of the mining community of Red Lake, Ontario. Spanning across 1,820 hectares, this property encompasses 4 claims that hold potential for the discovery of spodumene bearing pegmatites.

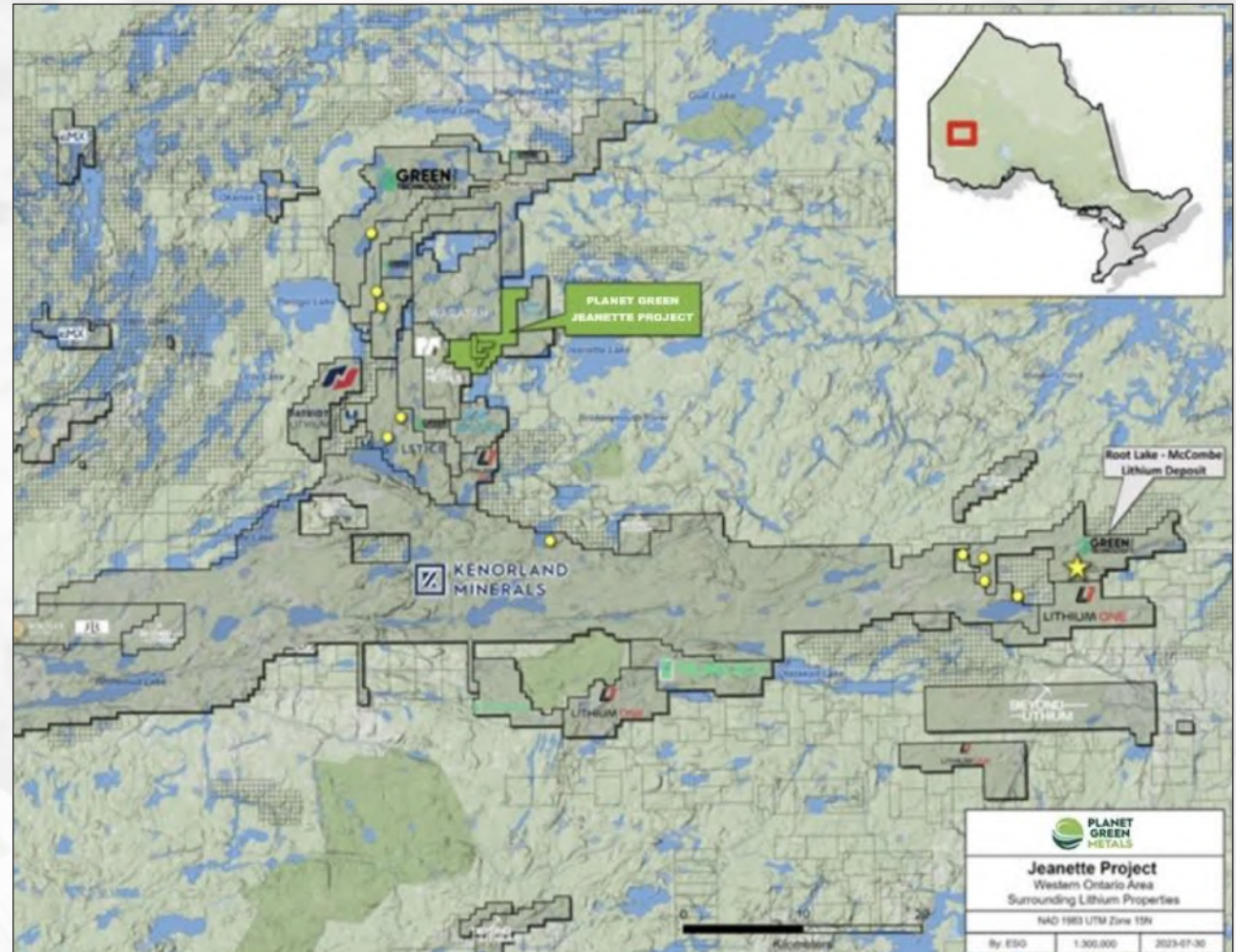
This Project is located in a Tier-1, low-risk mining jurisdiction near excellent infrastructure with recent discoveries in the area.



Jeannette Lithium: Historical Work

During the 2022 grass roots field program program 113 grab and channel samples were collected returning values up to 244 ppm Li, which was obtained from a sample of biotite gneiss with coarse feldspar-quartz dykelets. 45 grab samples were collected during the June and July field programs, which returned values up to 290ppm Li and 688ppm Rb. The value of 290 ppm Li was obtained from biotite gneiss proximal to the sample which had earlier returned 244 ppm Li. The value of 688 ppm Rb was obtained from pegmatite on the south shore of Tarpley Lake in the northeastern part of the Project

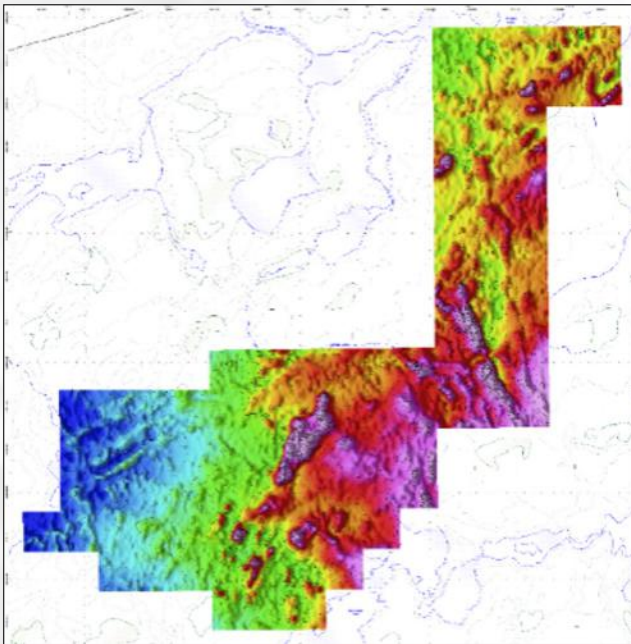
An additional 44 grab samples were collected during the August 2023 program. These returned up to 309 ppm Li and up to 497 ppm Rb. The value of 309 ppm Li was obtained from biotite gneiss proximal to samples which had earlier returned 244 and 290 ppm Li. The value of 497 ppm Rb was obtained from pegmatite approximately 2 km south of Tarpley Lake in the eastern part of the Project.



Jeannette Lithium: Exploration

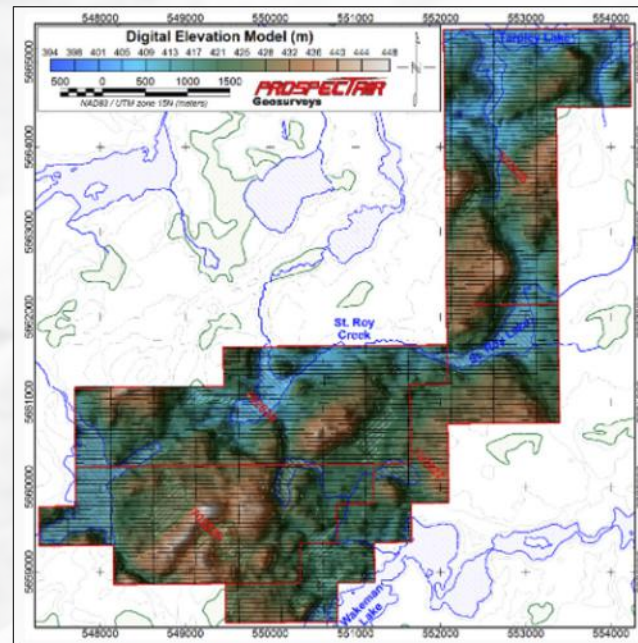
HELIBORNE MAGNETIC SURVEY

A high-resolution heliborne magnetic survey was completed on the project by Prospectair Geosurveys. (April 30 – June 6, 2022.)



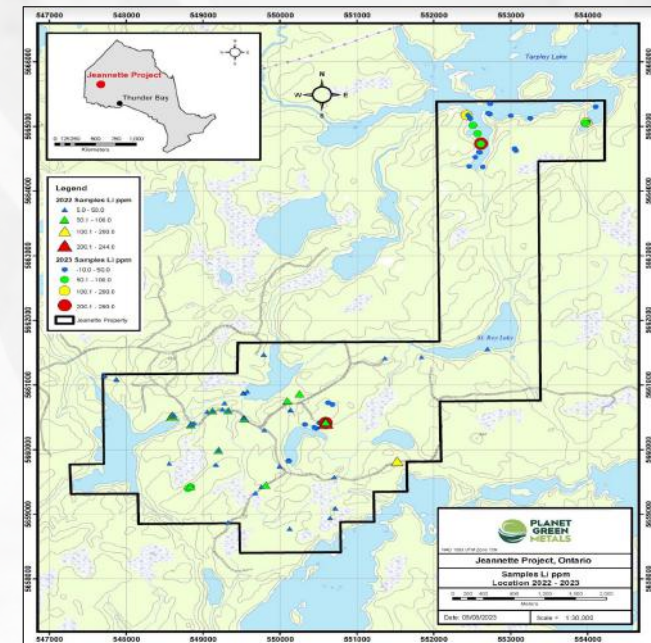
GEOLOGICAL MAPPING & SAMPLING

19 bulk rock samples were collected from various pegmatites within the batholith in 2001 by the Ontario Geological Survey. (May – June 2022.)



CHANNEL SAMPLING

113 grab and channel samples were collected returning values up to 244ppm Li (2022 field program). 16 grab samples were collected and received during the June 2023 program, with additional prospecting and exploration programs planned



Jeannette Lithium

REGIONAL & PROJECT GEOLOGY

The Jeannette project is host to the Allison Lake batholith fractionation corridor and rare earth element enrichment as determined by elemental analysis and mineral observation in outcrop by Breaks et al. 2003.

The SJ Pegmatite on the shore of Jubilee Lake is evidence that the Allison Lake batholith has produced external pegmatite dykes.

The Allison Lake East project is located in Northwestern Ontario where numerous lithium deposits have been delineated to host significant reserves of Li_2O .

Of significance is that the Li-deposits/projects of northwestern Ontario are located within 10-20km of a terrane boundary. These terrane boundaries are deep seated sutures that divide accreted Archean terranes and act as conduits for fertile peraluminous granites. The Project is 20km north of the English River-Uchi Terrane boundary.

The Seymour Lake Lithium Project

Owned by: Green Technology Metals (ASX: GT1)

Resources: 9.9 Mt grading 1.04% Li_2O and 186ppm Ta₂O₅

The Georgia Lake Pegmatite Field

Owned by: Rock Tech Lithium (TSX.V: RCK)

Resources: 10.6 Mt grading 1.15% Li_2O , The Jackpot Project

Owned by: Imagine Lithium Inc. (TSX.V: ili)

Resources: 2.0 Mt grading 1.09% Li_2O

The Separation Rapids Lithium Project

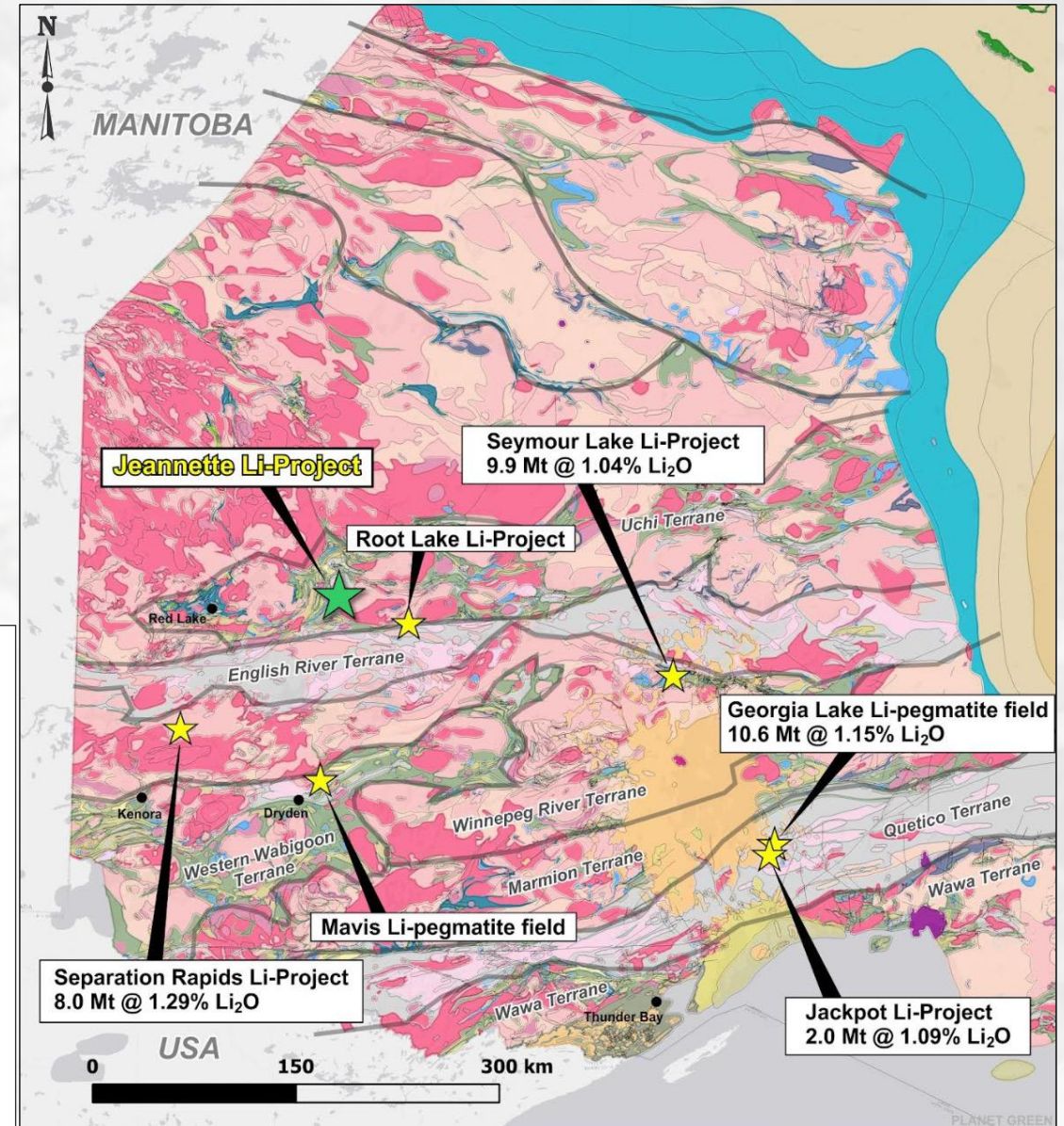
Owned by: Avalon Advanced Materials (TSE: AVL)

Resources: 9.5 Mt grading 1.35% Li_2O

The Root Lake Project

Owned by: Green Technology Metals (ASX: GT1)

Resources: 4.5 Mt grading 1.01% Li_2O





Harrison Road Lithium

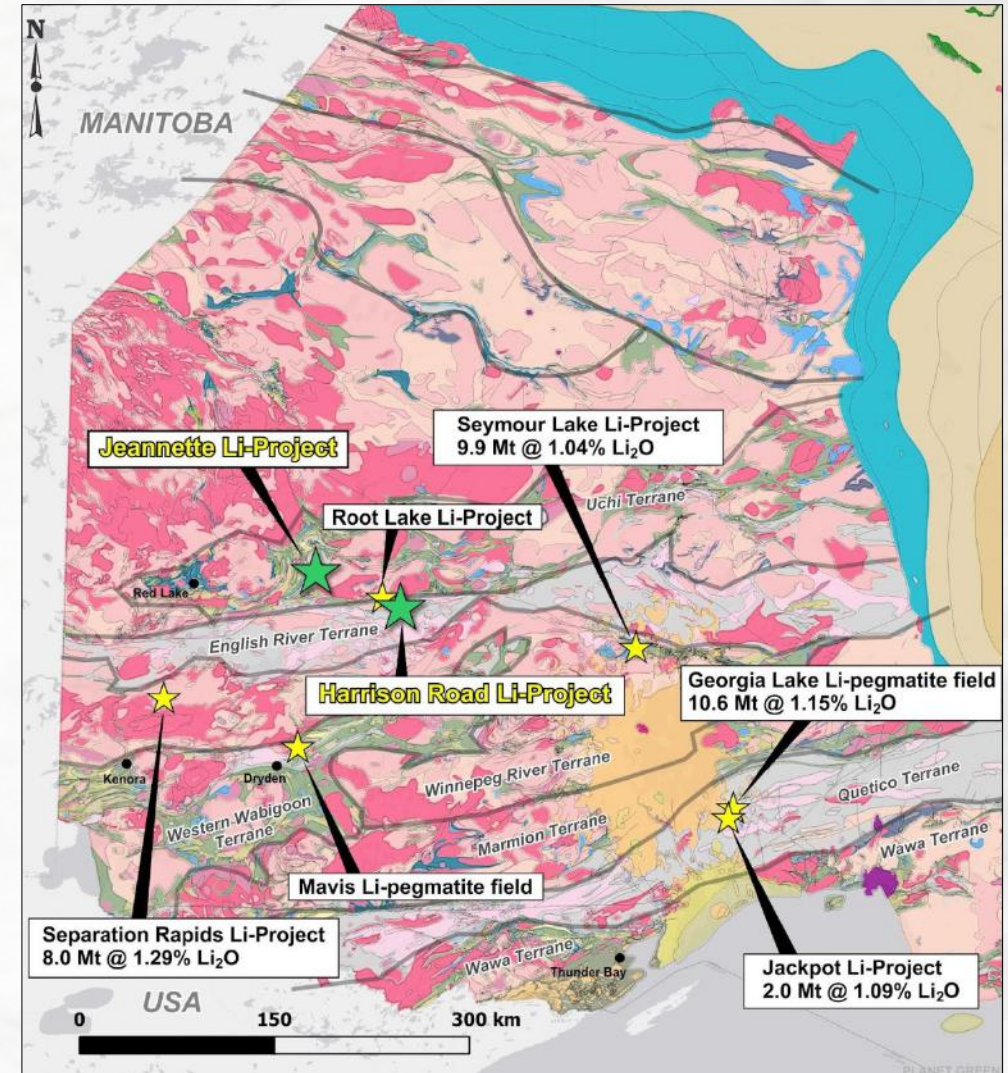


Harrison Road Lithium

INTRODUCTION

The Harrison Road Project consists of 38 mining claims comprising 6,080 hectares and is located 90km northeast of Sioux Lookout, Ontario with easy highway and logging road access and good outcrop exposure.

The Project occurs within 6km of a sub-province terrane boundary, an integral relationship between lithium deposits and structure. Lithium-bearing or LCT-pegmatites can occur up to 10km away from their parental granite.



Harrison Road Lithium

HISTORICAL MAPPING & EXPLORATION HISTORY

Planet Green Metals has conducted a heliborne magnetic survey and a sampling program, with plans for an extensive LiDAR survey and follow-up program in 2024.

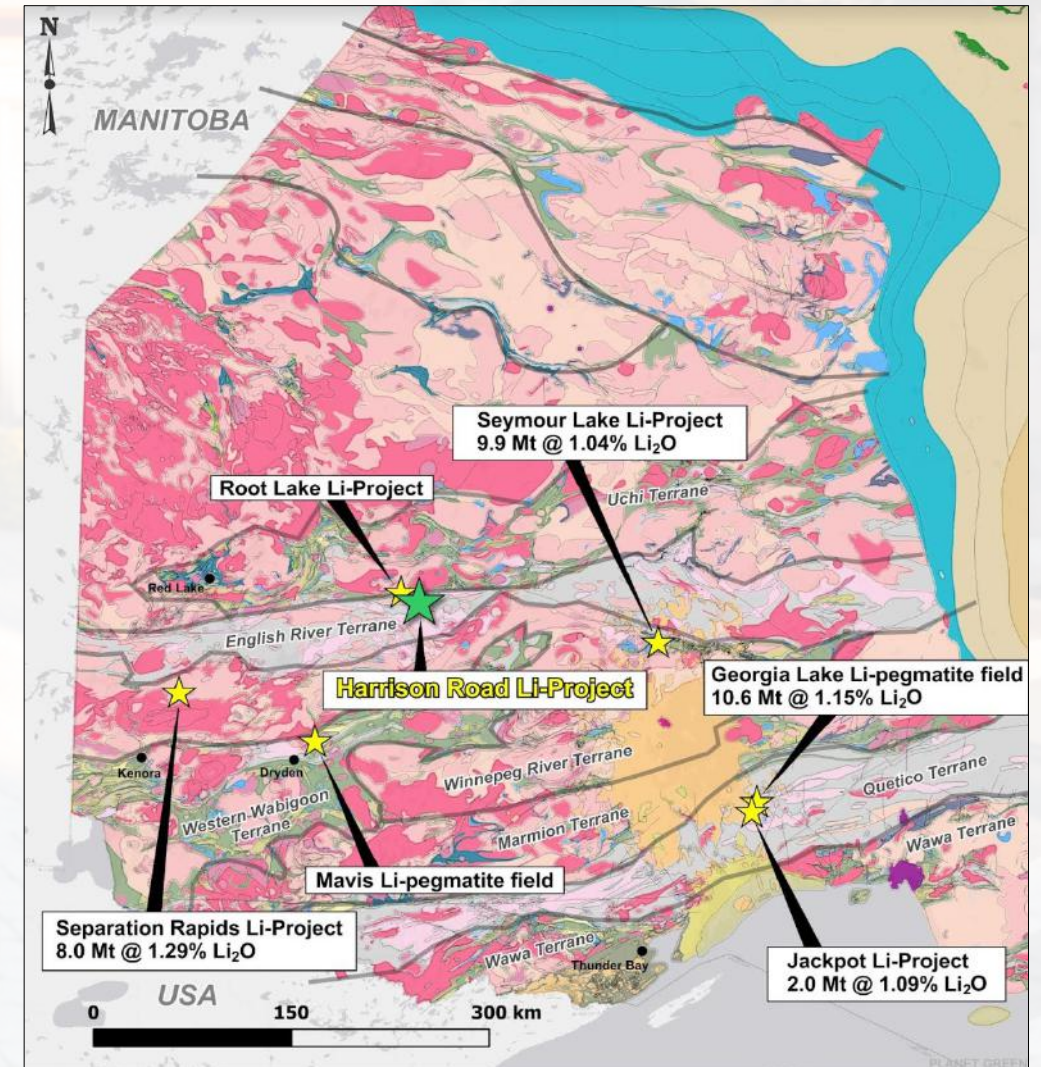
Mapping by OGS in 1980 noted numerous tourmaline occurrences in the metasediments proximal to muscovite-bearing granites within the area.

“In most cases the presence of abundant tourmaline in metasedimentary and metavolcanic rocks indicates the close proximity of a pegmatite”.

(Beus et al., 1968, Cerny 1989)

Observations from the 1990's and earlier have noted tourmaline occurrences indicative of pegmatite proximity, reinforcing the lithium prospectivity of the area.

Preliminary surveys have shown elevated lithium levels in lake sediment samples within the property, higher than those around the known Root-McCombe pegmatite field.



Harrison Road

REGIONAL & PROJECT GEOLOGY

The Project lies just south of the Root Bay pluton hosted within metasediments. The Root Bay Pluton is a muscovite-bearing granite, an S-type peraluminous fertile parental granite.

Breaks concluded that the Root Bay pluton is the parental granite to the McCombe-Root Lake pegmatite field and lithium deposit currently being drilled by Green Technology Metals located 10 km to the northwest.

The Project occurs within 6 km of a sub-province terrane boundary, an integral relationship between lithium deposits and structure. Lithium-bearing or LCT-pegmatites can occur up to 10 km away from their parental granite.

Elevated lithium lake sediment sample results by the OGS within the Project suggest nearby sources, compared to the lake sediment results around the Root-McCombe pegmatite field, the Property has higher elevated lithium results.



Marion Property

INTRODUCTION

The Marion property is located 270 km north-northwest from Thunder Bay, and 100 km southwest of Timmins and consists of fifty-three (53) unpatented mining claims located in the Province of Ontario.

Geologically the Marion Property contains a number of lithological and structural features that makes it a compelling target for gold exploration.

The historic trenching of the property identified 12.75 g/t Au over 9.15 m, and 135 m along strike the structure contained 2.18 g/t Au over 9.75 m (Domego Resources Ltd, 1979)

Marion Property

REGIONAL & PROJECT GEOLOGY

The property is underlain by a sequence of sedimentary, felsic and mafic volcanic and volcanoclastic rocks of the Swayze greenstone belt. This belt hosts the Côte Lake gold mine, which contains reserves and resources of 7.61 Moz Au (1.03 g/t Au), and 12.07 Moz Au (0.89 g/t Au), respectively, and is hosted in tonalite intrusions (IAMGold Annual Report, 2023). The primary mineral deposit type being targeted on the property is gold-rich volcanogenic massive sulphides

Gold mineralization is also associated with a 15 m thick banded iron formation, which is an excellent host for exhalative and structurally controlled precious metals. The Marion property also contains tonalite intrusions, which will be investigated for Côte Lake style gold mineralization. Geologically the Marion Property contains a number of lithological and structural features that makes it a compelling target for gold exploration.

Sheraton Property

INTRODUCTION

The Sheraton Property is located 25km southwest from Matheson, Ontario, with excellent access via a network of forestry. The Sheraton Property consists of fifty-eight (58) unpatented mining claims located in the Province of Ontario.

The property covers the geological contact of a sequence of felsic to intermediate volcanic and volcanoclastic rocks of the Wawa-Abitibi greenstone belt, which is highly prospective for Cu-Zn±Au±Ag VMS-style mineralization.

Sheraton Property

PROJECT GEOLOGY & PAST EXPLORATION

Exploration by Cross Lake Minerals in the late 1990s on the adjacent property at Cross Lake identified bedded sulphides containing zinc grades ranging from 1% to 6%, with local high-grade pods containing up to 18% Zn over a true width of 3 m, with silver values ranging up to 911 g/t Ag. Copper grades of 1% to 3% were encountered over estimated true widths of up to 12 m (Vaillancourt, 2001).

The mineralization represents VMS style, and Planet Green will look for similar critical and precious metal mineralization on the Sheraton Property. The presence of significant copper mineralization at the adjacent Cross Lake property makes the Sheraton Property a compelling target.

Rich Lake Property

INTRODUCTION

The Rich Lake property is located 365 km north-northeast from Thunder Bay and 17 km west of Fort Hope, Ontario and consists of one hundred (100) unpatented mining claims in the Province of Ontario.

The two claim blocks straddle along strike Separation Rapids Limited's lithium, tantalum, cesium pegmatite Lilypad Project, where exploration identified several wide mineralized pegmatite dykes.

Rich Lake Property

PROJECT GEOLOGY

The geology on the property is also prospective for gold mineralization, as highlighted by drilling in 1987 on geophysical anomalies that returned grades as high as 28.11 g/t Au over 1.5 m in sheared mafic tuff on adjacent claims (Naramco Explorations, 1987).

Similar lithologies are present on the Rich Lake Property, along with other favourable targets such as iron formations. The Company's technical team believes the Rich Lake Property has excellent potential to host multiple styles of critical and precious minerals.

Grenfell Property

INTRODUCTION

The Grenfell Property is located 13 km west-southwest from Kirkland, Ontario, and has year-round access via Highway 11 and the Trans-Canada Highway

The Grenfell Property consists of four (4) unpatented mining claims located in the Province of Ontario.

Grenfell Property

REGIONAL & PROJECT GEOLOGY

The property is located immediately north of the Kirkland Lake “Main Break” fault, which hosts several mines such as Agnico Eagle’s Macassa gold mine (6 Moz Au produced, and a mine reserve of 2.25 Moz Au (Agnico Eagle Annual Report, 2023)), located 8 km to the east.

The geology of Grenfell is underlain by a thick sequence of sheared massive and pillowed mafic flows of the Wawa-Abitibi greenstone belt. These rocks host auriferous quartz-carbonate veins that are possible splay structures, likely associated with the Kirkland Lake “Main Break” fault. The veins are promising gold target zones, representing an entry point for Planet Green into this renowned gold district.

Management

Jeremy s. Brett, M.Sc., P.GEO

DIRECTOR, PRESIDENT & CEO, SENIOR GEOPHYSICIST

Mr. Brett is a Senior Geophysical Consultant with 30 years experience in international mineral exploration for most commodities, plus oil & gas and several industrial minerals. Mr. Brett has a strong background in geophysical methods/applications, geology, ore deposit models, structural geology, project management & strategy. He holds a B.Sc in Geophysics and an M.Sc in Geology, both from the University of Toronto, and worked with MPH Consulting limited for 26 years. He has consulted to more than 100 of Canada's leading junior and major exploration / mining companies & governments. His projects have spanned North and South America, Africa, Europe, Central & Southeast Asia. Mr. Brett has served on the boards of three junior mining companies, and the Board of the PDAC, where he also served as the Chair of the Lands and Regulations Committee. He is a Fellow of the Society of Economic Geologists.

Nicholas Coltura, BBA

DIRECTOR

Mr. Coltura has several years of experience helping several public exploration companies with business development and investor relations, with a direct focus on marketing, building strategic relationships and raising capital. Mr. Coltura focuses on strategic marketing and building long lasting relationships, while working with companies such as Rockridge Resources Ltd. (TSX.V: ROCK) and Skyharbour Resources Ltd. (TSX.V: SYH). Mr. Coltura completed a BBA with a specialty in Finance along with a Public Companies: Finance, Governance and Compliance Course at Simon Fraser University.

Dr. Sandy Archibald, PH.D., P.GEO

TECHNICAL DIRECTOR

Dr. Archibald is a Senior Exploration Geologist and has over 25 years of experience in the mineral exploration industry and has participated in academic and industry projects throughout the Americas, Europe, and Africa. He has been involved in gold, base-metal, uranium, diamond, copper-nickel, and battery mineral exploration. He holds a Ph.D. in Economic Geology from McGill University, a Professional Geoscientist (PGeo) designation from the Association of Professional Geoscientists of Ontario, and is a Fellow of the Society of Economic Geologists. He has held board and management positions in AIM and TSX(V) companies, and was a two-term director of the Prospectors and Developers Association of Canada.

Robert Turgeon, CPA, BBA

DIRECTOR

Mr. Turgeon has experience working with publicly traded and private mineral exploration companies as a CFO since 2007. Robert holds a bachelor's in business administration-accounting from the UQTR University, and became a CGA in 1980 that merged with CPA in 2012. Mr. Turgeon was a sessional instructor at UQAT's School of Indigenous studies | in finance and accounting for 20 years. For the past 18 years, Mr. Turgeon offered training and coaching services to Cree Natives Organizations in Eeyou Istchee Territory in Northern Quebec.

Robert Coltura

DIRECTOR

Mr. Coltura is a businessman with significant entrepreneurial experience and is President and principal shareholder of Matalia Investments Ltd. Matalia Investments Ltd., a company that provides management consulting, corporate finance and investor relation services to public and private companies. Mr. Coltura has over 25 years experience with various public companies, holding positions of officer and director of several public companies. Mr. Coltura has a great deal of business development experience and has worked with a variety of companies to strengthen their position within their industry.

Advisory Board

Steven Sirbovan, HBA

ADVISORY BOARD

Steven Sirbovan, Principal and Founder of Blink Capital Corp., is an experienced small-cap capital markets professional with over 10 years of experience in investor relations, private equity, and investment banking. Steven spent the last 8 years at Echelon Capital Markets, one of Canada's fastest growing full-service investment dealers, working exclusively with companies in the high-growth, less than \$100M market cap bracket. Most recently, Steven was a Director of Investment Banking and for the last 5 years co-led the Origination Investment Banking group, executing on private and public financings, mergers and acquisitions, and other corporate transactions. Over his tenure at Echelon, Steven was directly involved in hundreds of transactions with an approximate aggregate value of half a billion dollars. Steven's expertise includes raising capital and advising corporate clients in many sectors, including metals and mining, industrials, technology, renewables, healthcare, biotech, consumer products, real estate, among others. Steven is a graduate of the Ivey Business School at Western University in London, ON.

Perry English

ADVISORY BOARD

Referred to as a One-Man Project Generator, Perry was raised in Red Lake and has focused his prospecting career on northwestern Ontario, where he has staked thousands of claims and sold hundreds of properties over the past 40 years. He received the Ontario Prospectors Association's Prospector of the Year Award in 2007 and their Lifetime Achievement Award in 2014. Notably, Perry sold the original 67% of the Dixie Lake gold property to Great Bear Resources. Kinross Gold acquired Great Bear and its flagship Dixie project in 2022 for C\$29.00 per share (~C\$1.8 billion).

Capitalization

SHAREHOLDER STRUCTURE

Issued & Outstanding	32,702,500
Options	1,117,500
Warrants	-
Fully Diluted: 33,820,000	

Last Update, May 2024





PLANET GREEN METALS

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