



# **GREENRIDGE** EXPLORATION

**DEVELOPING A CLEAN ENERGY FUTURE**

CSE: GXP | FRA: HW3

**January 2024 Corporate Presentation**

# Investment Highlights



## High-Grade Sampling

The Nut Lake Uranium Project has returned grab samples of up to **4.36%  $U_3O_8$** , **53.16 oz/t Ag**, **1.15% Pb**, and **7% Ni**.

## High-Grade Drill Intersects

The Nut Lake historical drilling intersected up to **9ft of 0.69%  $U_3O_8$** , including **4.9%  $U_3O_8$**  over 1ft from 8ft depth.

## Uranium Rush in Thelon Basin

Uranium spot price now trading over \$106 USD. The Uranium rush has now begun. Thelon Basin saw over 1 million hectares staked in 2023.

## Tier One Uranium District

The Thelon Basin hosts multiple unconformity-style Uranium deposits, **similar to the world renowned Athabasca Basin.**

## Investment in SMR Technology

The shift to Small Modular Reactors, is driving increased demand for nuclear energy industry.

## Baseload Capacity

The only clean energy source capable of providing reliable baseload electricity.

## Uranium Spot Price – \$106 USD/LBS

85% - YoY Uranium Spot Price Performance

# Canada's Uranium Market



## JURISDICTION

Stable, supportive government and communities, skilled workforce and established infrastructure. Straightforward permitting.

## THE HIGHEST GRADE

Canadian uranium mines are known for the highest grades in the world, up to 100x greater than the world average.<sup>2</sup>

## Thelon Basin

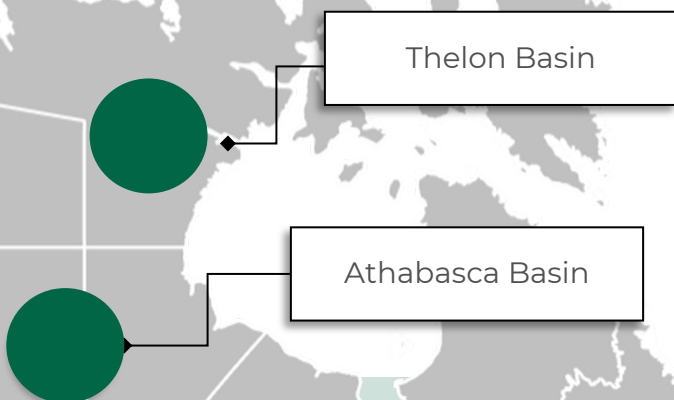
Similar to the Athabasca Basin, hosting multiple unconformity-type deposits.

## GLOBAL SUPPLIER

Canada is the world's second largest producer of uranium, accounting for roughly 13% of total global output.

## TOP-RATED

Saskatchewan & Nunavut are top tier unconformity Basins and two of only a few in the world.



## THE PREMIER HIGH-GRADE URANIUM DISTRICT

1 – World Nuclear Association (WNA) data, 2022  
2 – [Government of Canada](#)





***The world is embracing **nuclear energy** as the linchpin to a carbon-free future. At the same time, geopolitical tensions are increasing pressure on the limited uranium supply necessary to make this future a reality.***



**GREENRIDGE**  
EXPLORATION





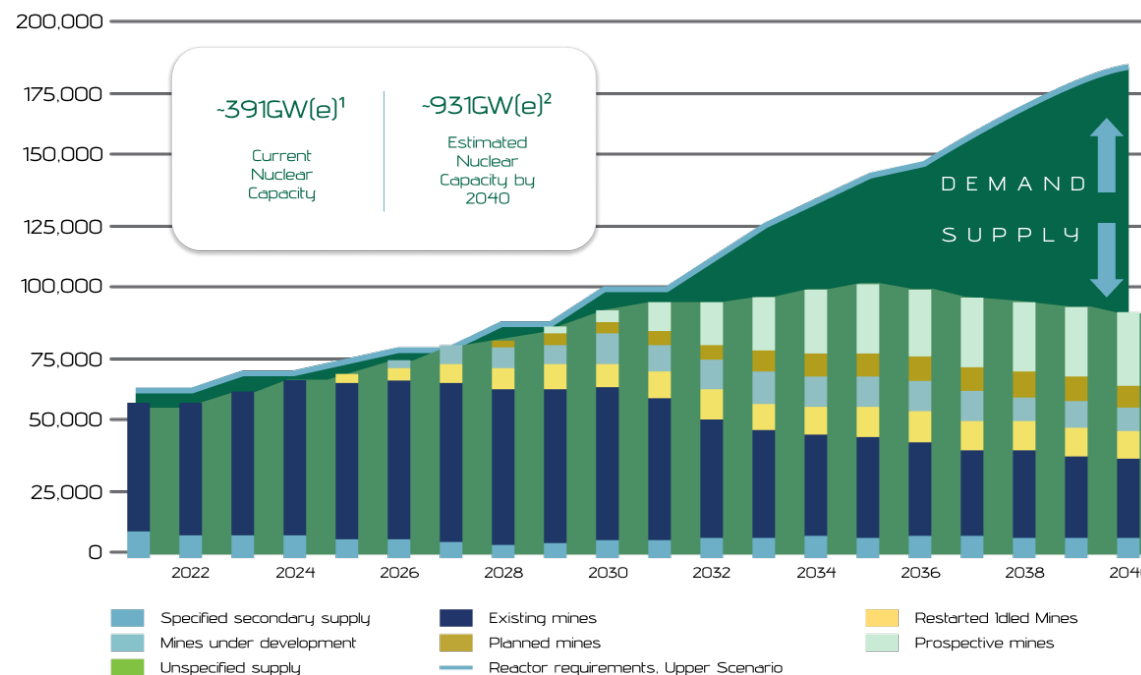
# Rising Demand, Depleting Supply

- Climate change, energy security, and energy affordability have led to a significant increase in demand and new investments in nuclear energy.
- Uranium supply will need to at least double by 2040 to meet the growing needs.
- The energy transition, geopolitics, and energy security have fundamentally altered the trajectory of nuclear energy & the uranium market.

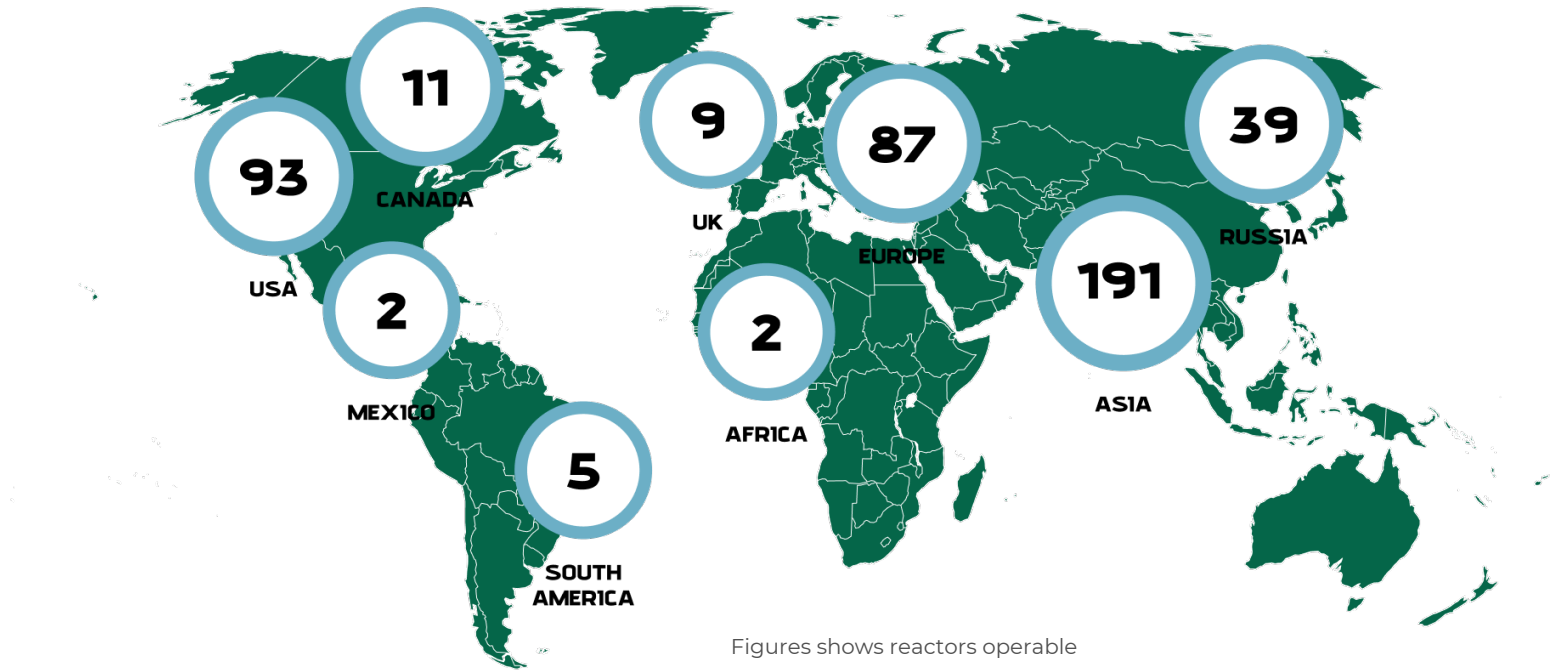
***“Nuclear is ideal for dealing with climate change because it is already the only carbon-free, scalable energy source that’s available 24 hours a day.”***

- Bill Gates

WNA URANIUM SUPPLY DEMAND (UPPER SCENARIO)



# Global Demand for Uranium is Growing at the Same Time Supply is Becoming Less Certain<sup>1</sup>



- There are 482 nuclear facilities proposed, planned or under construction globally.

- Global Electricity Market is Expected to Reach \$271 Billion by 2027.

*The Business Research Company*

**Intense development of new projects will be needed in the current decade to avoid potential supply disruptions**

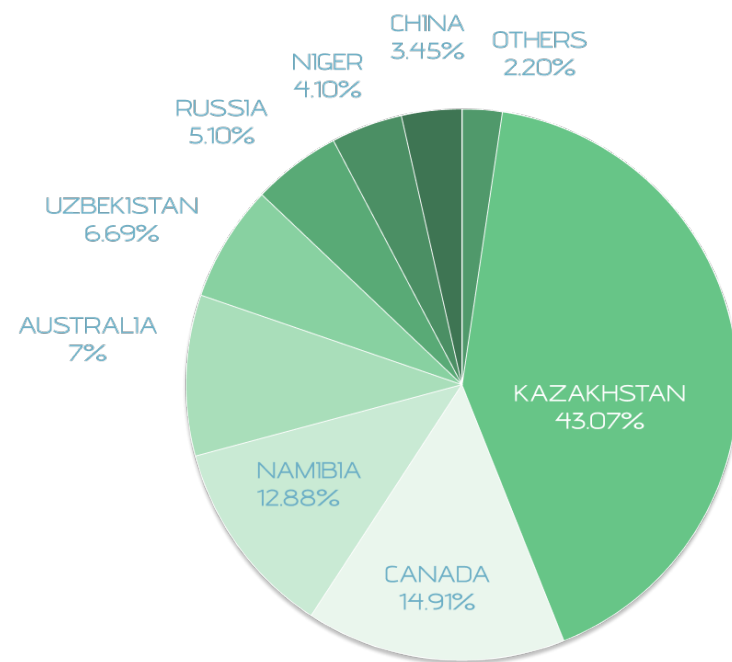
*WNA Fuel Report – Upper Case scenario. Ref scenario 686 Gwe by 2040*



# Uranium's Generation Supply Challenge

## PRIMARY SUPPLY YET TO RECOVER FROM 10-YEAR BEAR MARKET

- Producing mines left with depleted reserves, grades
- Expansion projects require major Capex
- Few advanced development-stage projects
- Greatly reduced secondary supply
- Incentive price for new production upwards of USD \$90/lb



GLOBAL U<sub>3</sub>O<sub>8</sub> SUPPLY (% OF TOTAL)

## Unprecedented Ongoing Geopolitical Risk To Uranium Supply

**40% global supply** from Kazakhstan (borders Russia, Ukraine)

**8% global supply** from Russia (war with Ukraine, economic war with the West)

## WHY URANIUM?

# Nuclear's Role in the Energy Transition

Nuclear energy has the lowest carbon footprint for power generation compared to any other source and is the most reliable option for carbon-free baseload electricity generation.

### The energy sector

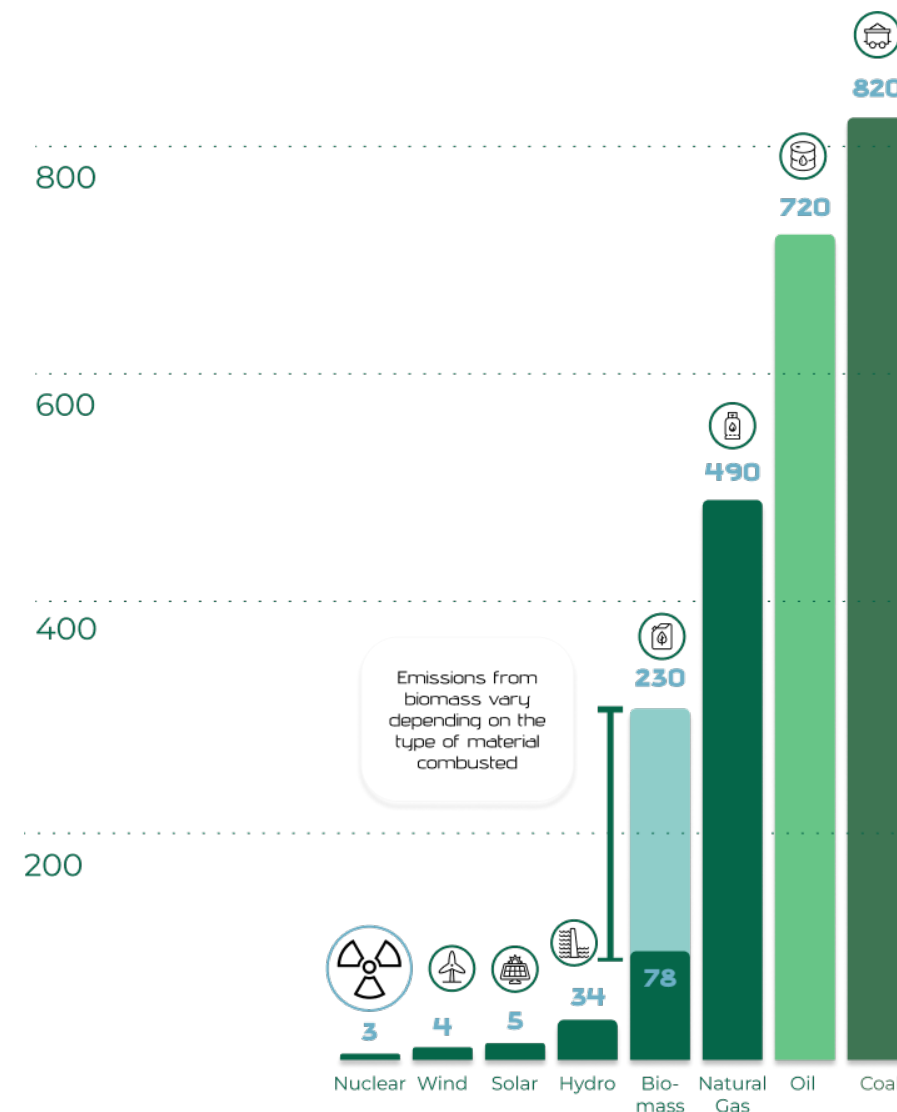
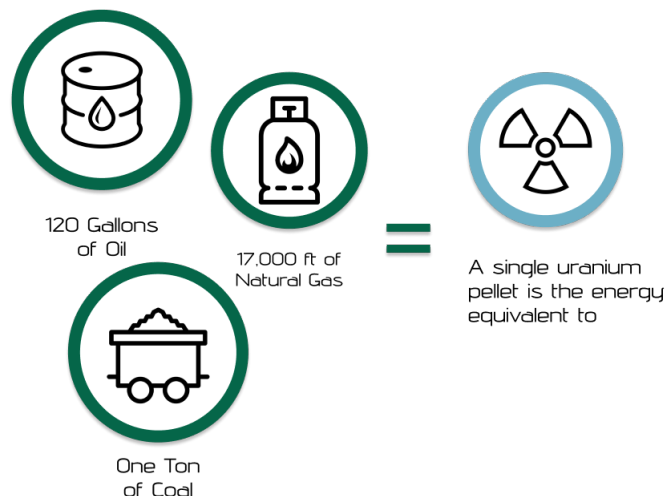
is responsible for more than 75% of global emission. Now, more than ever, decarbonizing is vital to tackling climate change.

### 60% of US electricity and 80% globally was

generated last year by burning coal, natural gas, or petroleum.

### Around 55 Gt of CO<sub>2</sub>

was avoided globally between 1971 and 2020 as a result of ~410 nuclear reactors.



**Without the contribution of nuclear power**, total emissions from electricity generation would have been almost 20% higher and total energy-related emissions 6% higher over that period.





# Thelon Basin: **Nut Lake Uranium Project**



## INTRODUCTION

# Thelon Basin

- Urangesellschaft Canada Limited discovered the first uranium showing in the Baker Lake area of the Thelon Basin in 1974.
- 1970s-1980s saw a flurry of exploration activity.
- A secondary rush in the 2000s to 2011 saw regional work hunting for unconformity-type uranium.
- Around 160 million pounds of Uranium has been defined to date.

The Basin hosts the renowned Angilak Deposit, with a **historical resources of 43 MM Lbs<sup>1</sup>**

Larger than the Athabasca with Extensive uranium showings and similar Basin ages. Additional Thelon discoveries are yet to be made.





## INTRODUCTION

# Nut Lake Project



- Historical drilling on the Project intersected up to 9ft of 0.69%  $U_3O_8$  including 4.90%  $U_3O_8$  over 1ft from 8ft depth<sup>1</sup>.
- The Project hosts high grade samples of up to 4.36%  $U_3O_8$ , 53.16 oz/t Ag, 1.15% Pb and 7.0% Ni<sup>1</sup>.
- The Project sits within an intersection of multiple tectonic features including reactivated basement faults and a major unconformity.
- 4,036 Hectares in the Thelon Basin, a renowned Uranium district in Nunavut, Canada.
- The Project is located just ~55km north of the 43MLb Angilak Uranium Deposit (formally owned by Latitude Uranium Inc.) which was recently bought (pending shareholder approval) by Atha Energy Corp. for a CDN \$57 million valuation.

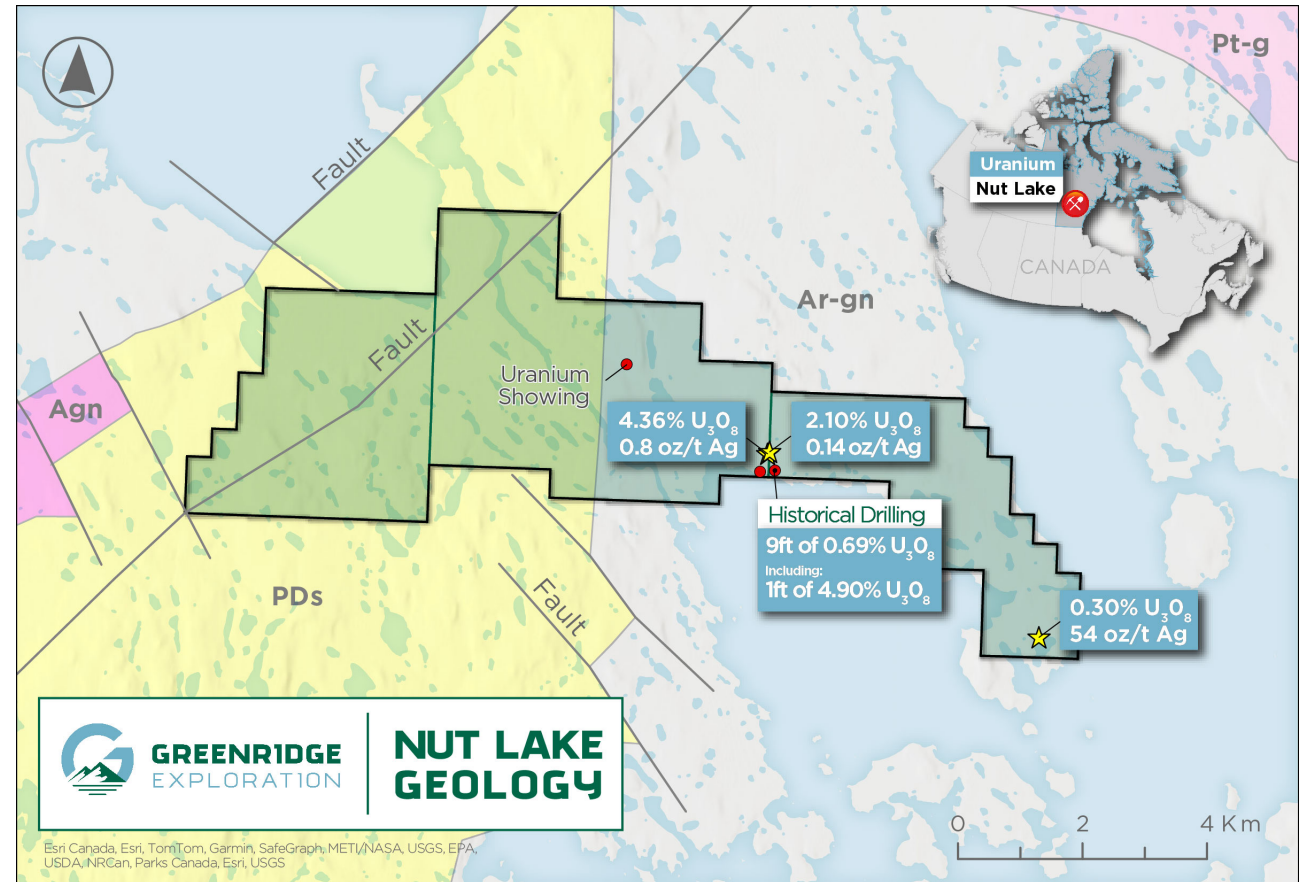


# Nut Lake Project

## Thelon's Uranium Model is similar to the Athabasca Basin

### UNCONFORMITY VEIN & BRECCIA TYPE

- Cross-cutting basement rocks (Amer and Neoproterozoic Woodburn Lake Groups).
- Associated with Illite, Chlorite Hematite alteration.
- Reactivated basement faults intersecting unconformity and overlying sediments.
- Syngenetic Mineralization.
- Contact between Showing Lake and Oora Lake Formations.
- Presence of pore-filling Pitchblende or finely disseminated Uranite.
- Associated with chalcopyrite, magnetite and calcite in sandy layers of siltstone.
- Sandstone-hosted phosphatic - breccia and matrix.
- Phosphatic – limonitic, vuggy and bearing secondary uranium minerals; torbernite and autunite.

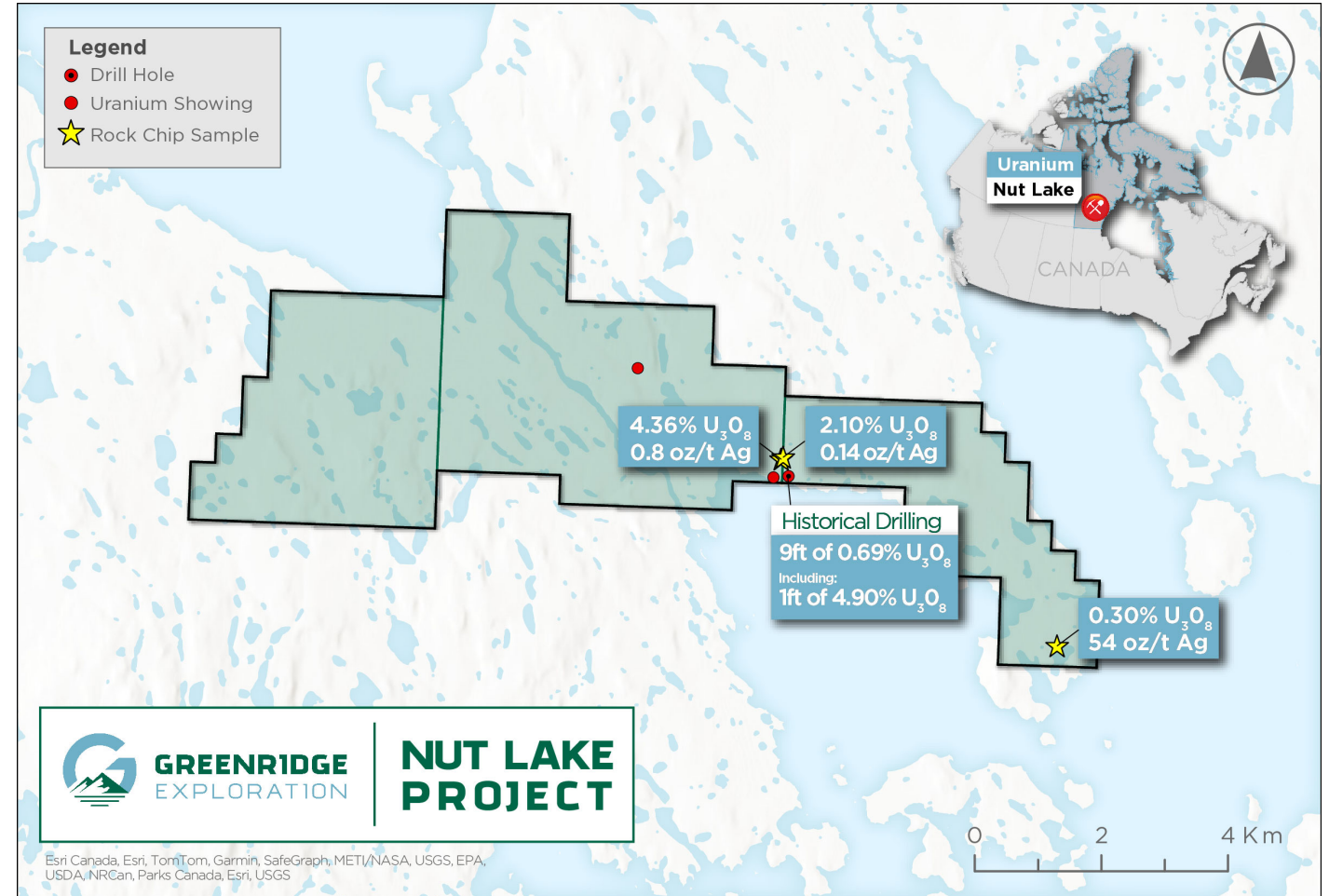




# Nut Lake Project

## DRILLING & SURFACE SAMPLING

- 1979 Winkie Drilling returned several encouraging drilling results, including up to 9ft of 0.69%  $U_3O_8$  including 4.9%  $U_3O_8$  over 1ft from 8ft depth.
- Historically Pan Ocean Oil identified multiple coincident anomalies including Magnetic Lows, VLF Electromagnetic, Radiometric, Uranium present in Soils, including Track-etch Anomalies.
- The intersection of reactivated faults and unconformities is highly prospective for uranium deposits. e.g. Cigar Lake, Key Lake.
- Unconformity Uranium deposits require reactivated faults intersecting the unconformity between the Paleoproterozoic basement and the overlying Sediments.



## PREVIOUS WORK

# Nut Lake Project



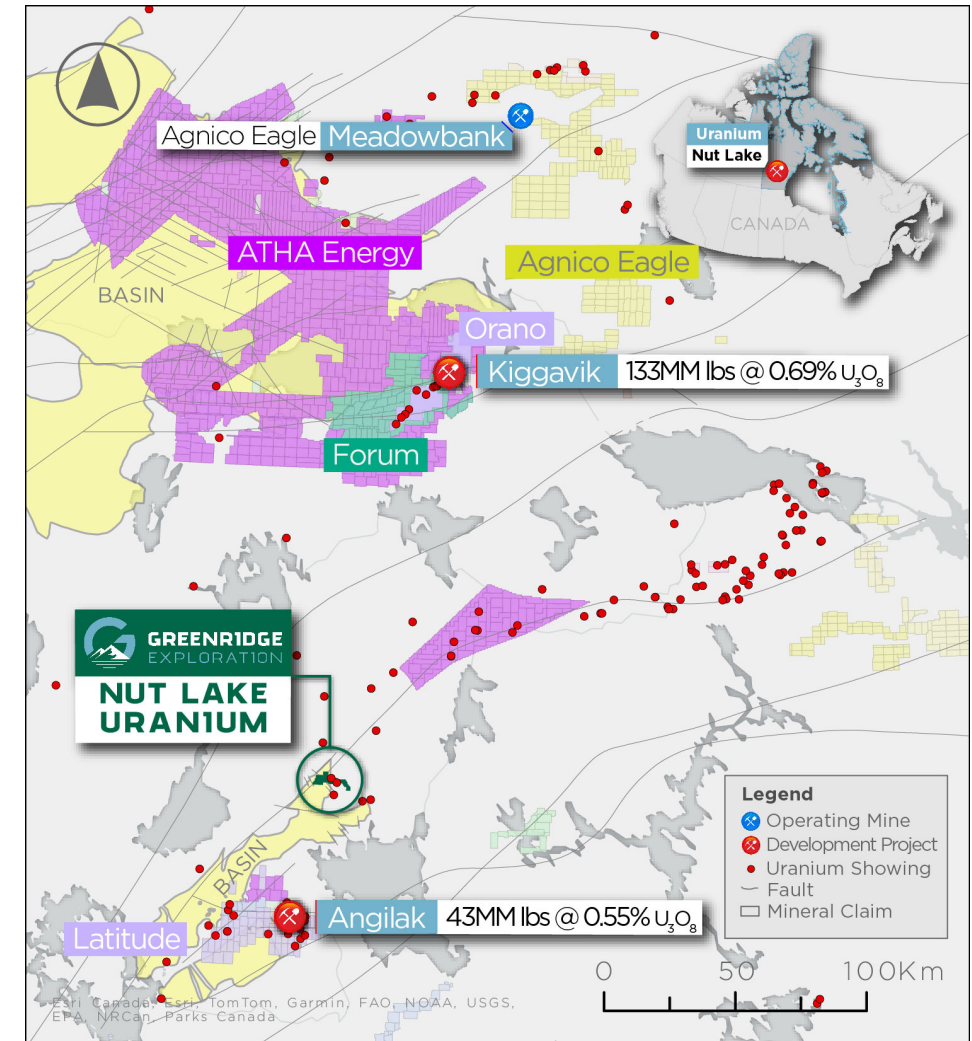
## HISTORICAL DRILLING & SURFACE SAMPLING

In 1979, Pan Ocean Oil Ltd. performed an exploration program consisting of ground geophysics, geological mapping, prospecting and Winkie drilling as follow up to previous sampling with elevated uranium in dyke swarms, fractures and contacts between syenites and trachytes.

Two significant Uranium bearing showings were discovered, the “Lake Showing” and the “Heartbreak Showing”. The most noteworthy was the Heartbreak showing which revealed a 3.0” and 3.5” sample across a fracture that assayed 2.11%  $U_3O_8$  and 4.36%  $U_3O_8$  respectively.

The results were followed up with a radon gal survey, a VLF-EM survey and an overburden sampling program. The radon survey results showed that the response is irregular with several good highs and the VLF-EM survey showed a series of northwesterly trending anomalies. It was concluded that further drilling of the Lake Showing is recommended.

The Project and surrounding proximal area has seen approximately 805ft of Winkie Drilling and 6920ft of diamond drilling completed on it. Multiple holes intersected significant uranium mineralization, with the most noteworthy being at the “Tundra Showing” Hole Winkie AX **intersected up to 9ft of 0.69%  $U_3O_8$  including 4.90%  $U_3O_8$  over 1ft from 8ft depth<sup>1</sup>** (Pan Ocean Oil Ltd., 1979 Assessment Report #81075).

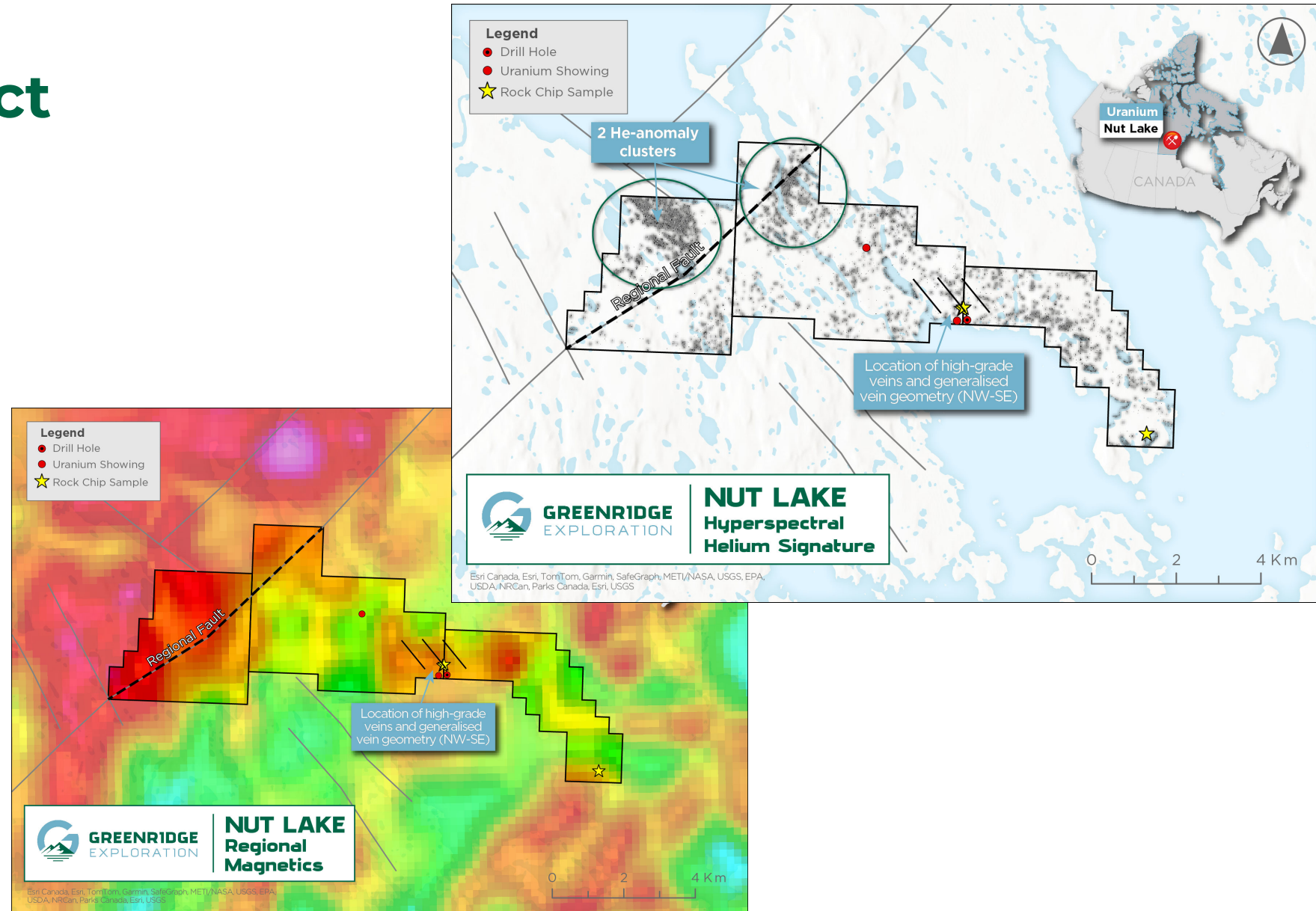


## PREVIOUS WORK

# Nut Lake Project

### HYPERSPECTRAL & MAGNETIC HELIUM AND FAULTING

- Regional Magnetism shows a strong NW-SE trending fault.
- A hyperspectral survey undertaken identified several helium anomaly clusters spatially associated with the fault.
- Helium is a decay product of Uranium and is an exploration vector for buried uranium deposits.
- The fault is considered basin bounding with an associated unconformity.
- The combination of historically defined anomalies and modern exploration techniques provides prime ingredients for the potential of discovering a high-grade uranium system within the Project area.
- The Nut Lake Property has the potential to host unconformity vein and breccia type, syngenetic and sandstone-hosted phosphatic type mineralization.







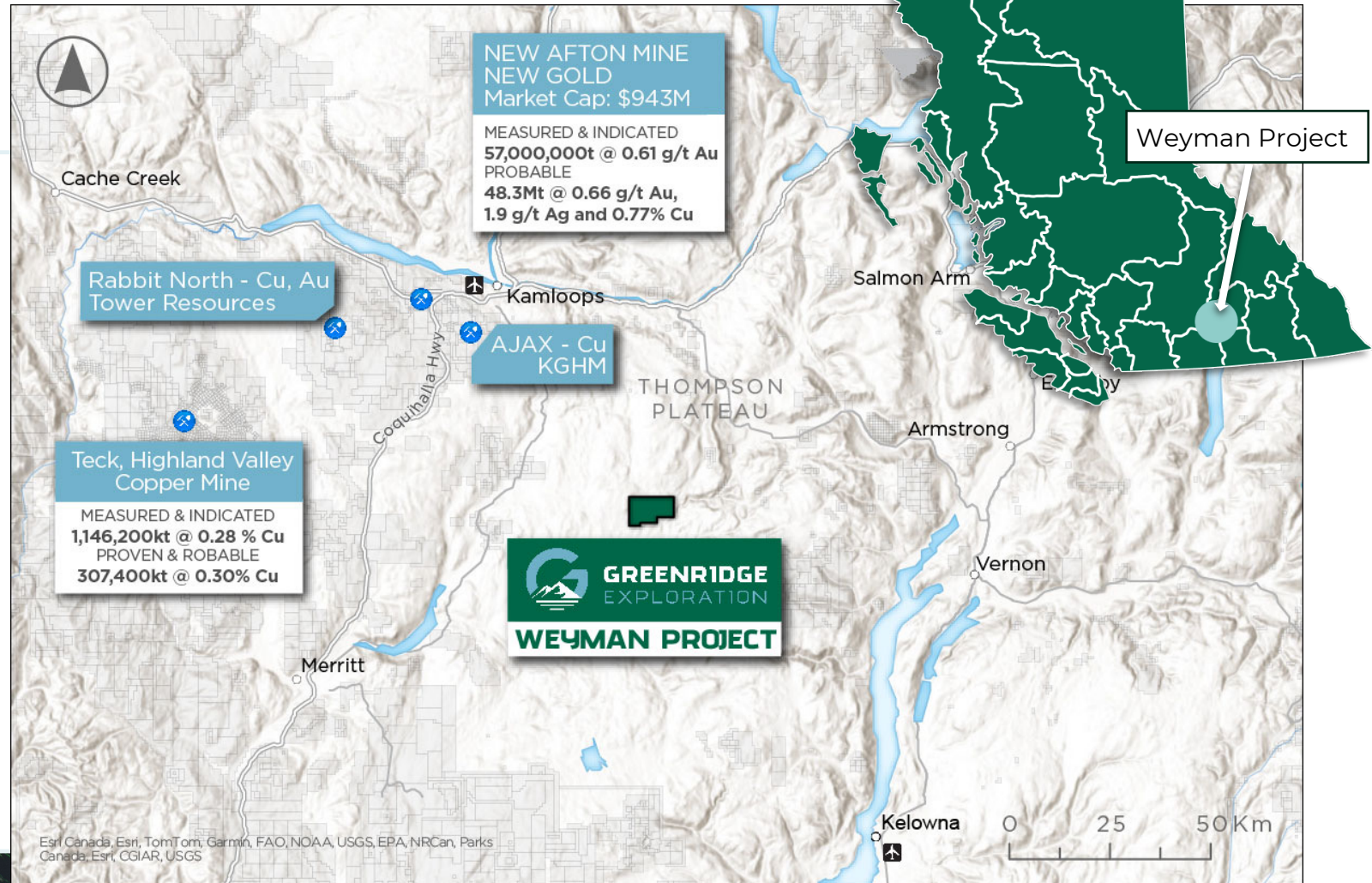
# Weyman Copper Project: **British Columbia**



## INTRODUCTION

# Weyman Project

- 6,925 Acres in Southeastern British Columbia.
- The Project is located within the southern Quesnel Terrane.
- Prospective for a copper porphyry-type mineralization.



## PREVIOUS WORK

# Weyman Project

## 2020 AIRBORNE MAGNETIC SURVEY

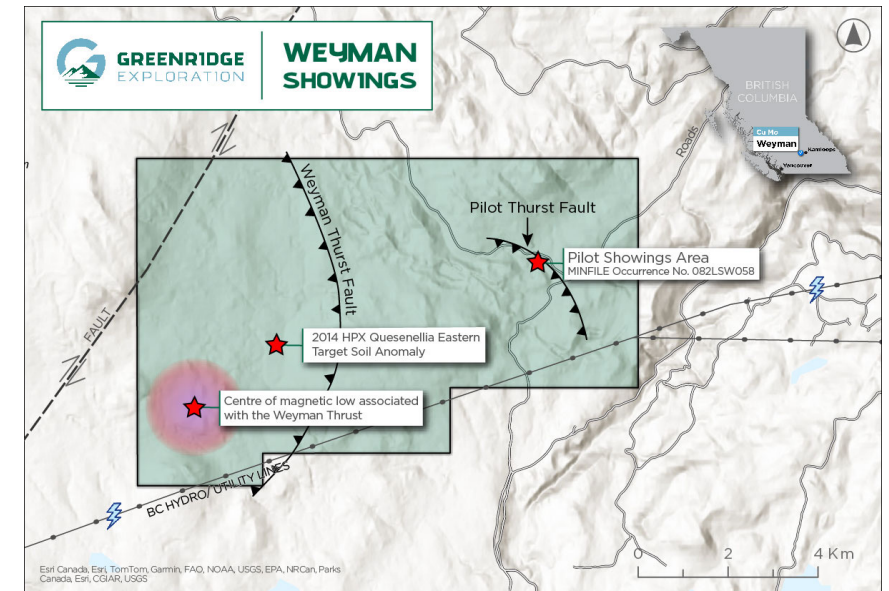
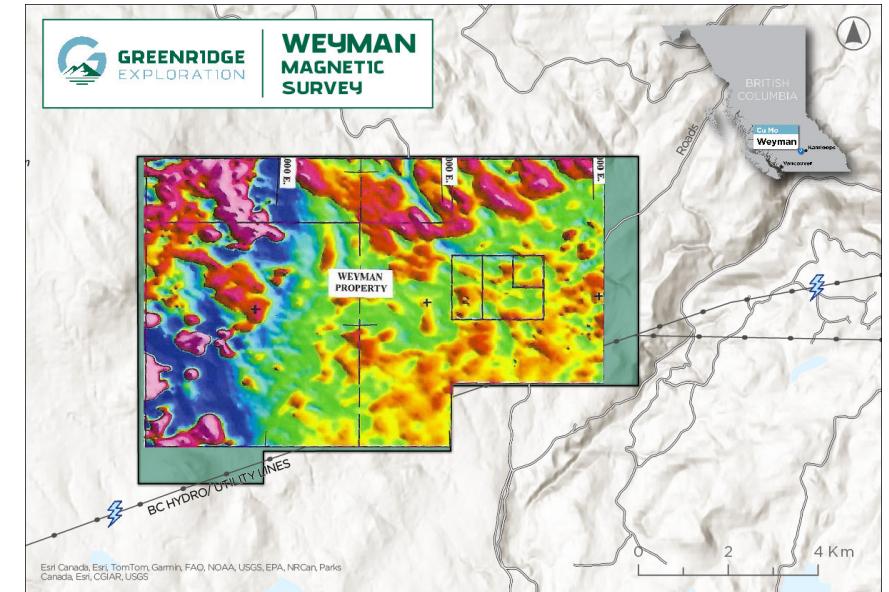
- Identified the 'the Weyman Thrust' including three westerly dipping thrust faults.

## 2014 SOIL SAMPLING

- Returned Elevated Levels of Copper including samples of 145 and 115 ppm Cu.

## 1988 & 1989 DIAMOND DRILLING

- Returned results included elevated copper levels including up to 0.125% Cu.





# Management

## **RUSSELL STARR, MBA, MA** Chief Executive Officer & Director

Mr. Starr is a former Bay Street executive and associate hedge fund manager. Mr. Starr is also a seed investor in Echelon Wealth Partners, a large Canadian investment dealer. Mr. Starr held executive and/or board positions at Cayden Resources Inc. and Auryn Resources Inc. amongst other public issuers. As a senior executive, board member and corporate finance specialist with Cayden Resources Inc., Mr. Starr was involved in marketing and financing development efforts including the sale of Cayden Resources Inc. for CAD \$205M to Agnico Eagle Mines Limited in 2014. As chief executive officer of Trillium Gold Mines Inc. (now Renegade Gold Inc.), Mr. Starr was involved in the consolidation of the confederation greenstone belt in the Red Lake mining camp and the establishment of an exploration portfolio in both precious metals and critical elements. Mr. Starr holds a bachelor's degree in economics from Queen's University, a master's degree in econometrics from the University of Victoria and an MBA from the Ivey Business School from Western University.

## **SIMON TSO, CFA, CPA, CGA, ACCA** Chief Financial Officer & Director

Mr. Tso is the principal of Athena Chartered Professional Accountant Ltd., a full-cycle accounting firm that assists both private and public companies with their financial reporting, regulatory filing and taxation requirements. Mr. Tso is also a co-founder of Zeus Capital Ltd., a boutique corporate finance firm that specializes in providing financial advisory, valuation and consulting services. Prior to his current roles, Mr. Tso spent a number of years as an associate at a local corporate finance firm and as a senior accountant at a firm of chartered accountants, where he managed numerous private and publicly-traded corporations, commonly acting as their Controller or Chief Financial Officer. Mr. Tso graduated with a Bachelor of Commerce (Finance) degree with honours from the UBC Sauder School of Business and is both a CFA Charterholder and a Chartered Professional Accountant.

# Board of Directors



## MANDEEP PARMAR

### Director

Mr. Parmar has over a decade of public markets experience, with a focus on finance and capital raising, investor relations, and corporate development. He has assisted a variety of public companies listed in Canada and the United States, being involved in corporate structure and formation, financing and business development at early stages. Mr. Parmar has worked with many small-cap companies to assist in fundraising, structuring and the implementation of asset development programs to generate and build value. His experience spans different sectors such as mining, oil and gas, technology and healthcare sectors with a focus on roles relating to financing, investor relations and public relations. Mr. Parmar also serves as a director of Vital Battery Metals Inc.

## AMANUEL BEIN, M.Sc., P.Geo

### Director

Mr. Bein has over 17 years experience in the exploration and mining industry where he has gained knowledge and expertise in several mineral deposit types. He began his career as a field geologist while working for several junior mineral exploration companies in the Arabian Nubian Shield. Mr. Bein worked in the Bathurst Mining Camp between 2008 and 2010 while completing his graduate studies at the University of New Brunswick. He worked for Hudbay Minerals Inc. for more than ten years, and was able to experience the full mining cycle, including the discovery of the 1901 deposit and closure of the Reed mine. At Hudbay Minerals Inc., Mr. Bein led several regional and near-mine exploration programs in Manitoba, Saskatchewan and Arizona. He worked for Rock Tech Lithium between 2021 and 2023 as an Exploration Manager and was part of a team that executed extensive exploration programs that enabled growth of mineral resources and discovery of several spodumene pegmatites. Mr. Bein is also Vice President of Exploration at Power Metals Corp. and serves as an independent director at Collective Metals Inc.

## RUSSELL STARR, MBA, MA

### Chief Executive Officer & Director

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# Capitalization Table



Issued & Outstanding	20,815,426
Warrants	2,793,005
Fully Diluted	23,607,431

Updated on Jan 24, 2024

# Legal Disclaimer



## WARNING

This management presentation was prepared as a summary overview only of the current affairs of Greenridge Exploration Inc. (the "Company" and "Greenridge Exploration") and was not prepared for the purpose of assisting prospective investors in making a decision to invest in any security. The Company does not make any representation as to the completeness, truth or accuracy of the information contained in this presentation. The Company expressly warns readers not to rely on this information for investment purposes. The information contained herein is not and should not be construed as either a private or private offer or solicitation to purchase securities in the capital stock of the Company, nor as legal, financial or tax advice. The reader is referred to their professional legal, financial and tax advisors regarding investment related decisions respecting the securities of the Company. No securities regulatory authority or similar authority has reviewed or in any way passed on the accuracy or adequacy of this presentation.

The disclosure of technical information in this presentation regarding the Weyman Project has been prepared in accordance with Canadian regulatory requirements as set out in National Instrument 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101") and reviewed and approved by John Ostler, M.Sc, P.Geo who acts as the Company's Qualified Person, and is not independent of the Company.

The disclosure of technical information in this presentation regarding the Nut Lake Project has been prepared in accordance with Canadian regulatory requirements as set out in NI 43-101 and reviewed and approved by Nicholas Rodway, P. Geo, (EGBC Licence# 46541) (Permit to Practice# 100359) and qualified person as defined by National Instrument 43-101 - Standards of Disclosure for Mineral Projects, has reviewed and approved the technical content in this release.

## FORWARD LOOKING INFORMATION

Certain statements in this presentation constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 and Canadian securities legislation. Such forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company, or other future events, including forecast production, earnings and cash flows, to be materially different from any future results, performances or achievements or other events expressly or implicitly predicted by such forward-looking statements. Such risks, uncertainties and other factors include, but are not limited to, factors associated with fluctuations in the market price of copper and uranium, mining industry risks, recent operating losses, uncertainty of title to properties, risk associated with foreign operations, environmental risks and hazards, proposed legislation affecting the mining industry, litigation, governmental regulation of the mining industry, properties without known mineable reserves, uncertainty as to calculations of reserves, mineral deposits and grades, requirement of additional financing, uninsured risks, competition, dependence on key management personnel, potential volatility of market price of the Company's common shares, dilution and certain anti-takeover effects. Such information contained herein represents management's best judgment as of the date hereof based on information currently available. The Company does not intend to update this information and disclaims any legal liability to the contrary.





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EXPLORATION

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