

#### 9 June 2023

#### **Investor Presentation**

Terra Uranium Limited **ASX: T92** (the **Company**), a mineral exploration company strategically positioned in the Athabasca Basin, Canada, a premium uranium province hosting the world's largest and highest-grade uranium deposits provides the following investor presentation.

In regard to historical exploration results contained within this presentation, the Company confirms that it is not aware of any new information or data that materially affects the information included in this announcement and all material assumptions and technical parameters underpinning them continue to apply and have not materially changed.

#### **Announcement Ends**

This announcement has been authorised by Andrew J. Vigar, Chairman, on behalf of the Board of Directors

#### Competent Person's Statement

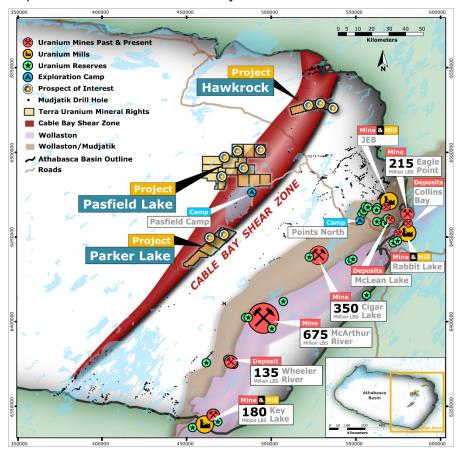
Information in this report is based on current and historic Exploration Results compiled by Mr Andrew Vigar who is a Fellow of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Vigar is a executive director of Terra Uranium Limited, and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Vigar consents to the inclusion in this release of the matters based on his information in the form and context in which it appears.

#### Forward Looking Statements

Statements in this release regarding the Terra Uranium business or proposed business, which are not historical facts, are forward-looking statements that involve risks and uncertainties. These include Mineral Resource Estimates, commodity prices, capital and operating costs, changes in project parameters as plans continue to be evaluated, the continued availability of capital, general economic, market or business conditions, and statements that describe the future plans, objectives or goals of Terra Uranium, including words to the effect that Terra Uranium or its management expects a stated condition or result to occur. Forward-looking statements are necessarily based on estimates and assumptions that, while considered reasonable by Terra Uranium, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies. Since forward-looking statements address future events and conditions, by their very nature, they involve inherent risks and uncertainties. Actual results in each case could differ materially from those currently anticipated in such statements. Investors are cautioned not to place undue reliance on forward-looking statements.

#### About Terra Uranium

Terra Uranium Limited is a mineral exploration company strategically positioned in the Athabasca Basin, Canada, a premium uranium province hosting the world's largest and highest-grade uranium deposits. Canada is a politically stable jurisdiction with established access to global markets. Using the very best people available and leveraging our in-depth knowledge of the Basin's structures and deposits we are targeting major discoveries under cover that are close to existing production infrastructure. We have a philosophy of doing as much as possible internally and working closely with the local communities. The Company is led by a Board and Management with considerable experience in Uranium. Our dedicated exploration team is based locally in Saskatoon, Canada.



The Company holds a 100% interest in 22 Claims covering a total of 1,008 sq km forming the HawkRock. Pasfield Lake and Parker Lake Projects (together, the Projects), located in the Cable Bay Shear Zone (CBSZ) on the eastern side of the Athabasca Basin, north-eastern Saskatchewan, Canada. The Projects are approximately 80 km to the west/northwest of multiple operating large uranium mills, mines and known deposits.

CBSZ is а major reactivated structural zone with known uranium mineralisation but limited exploration as the basin sediment cover is thicker than for the known deposits immediately to the Methods used to explore include airborne and ground geophysics that can penetrate to this depth and outcrop and

reverse circulation geochemical profiling to provide the best targets before undertaking costly core drilling.

There is good access and logistics support in this very activate uranium exploration and production province. A main road passing between the HawkRock and Pasfield Lake Projects with minor road access to Pasfield Lake and the T92 operational base there. The regional prime logistics base is Points North located about 50km east of the Projects.

#### For more information:

Andrew J. Vigar Executive Chairman andrew@t92.com.au Mike McClelland mike@t92.com.au

President & CEO Canada Media & Investor Relations alexc@nwrcommunications.com.au

Alex Cowie

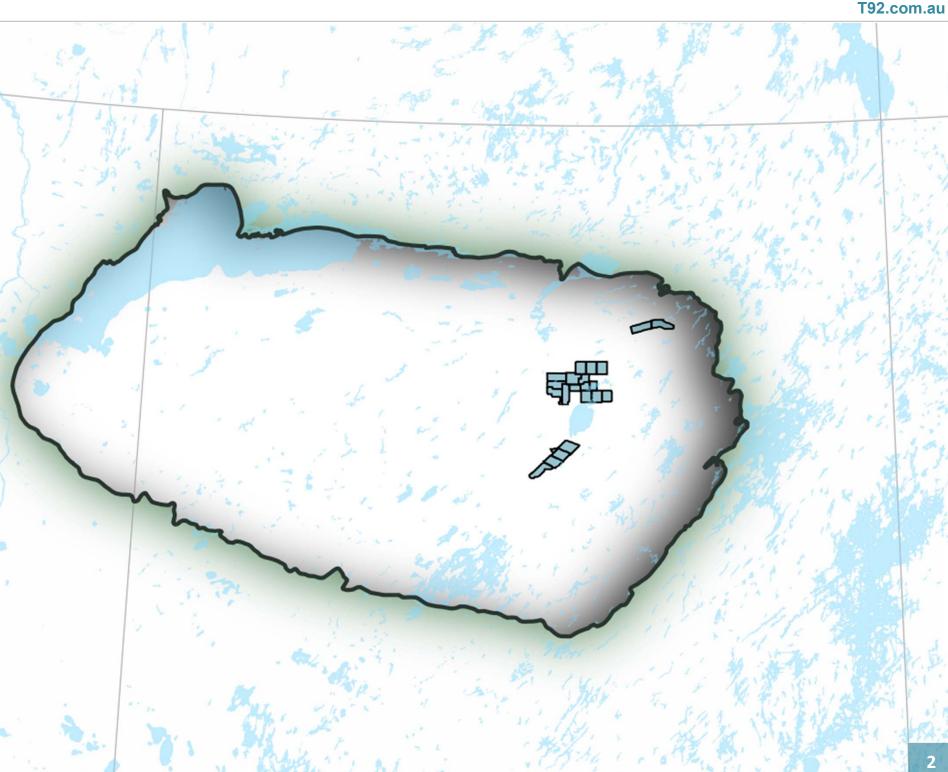


# STRATEGICALLY POSITIONED IN THE ATHABASCA BASIN

World's largest and highest-grade uranium deposits

Experienced team, in-depth knowledge, modern tools and techniques

Targeting major discoveries under cover near existing production infrastructure





# DECADES OF SUCCESS EXPLORING FOR WORLD CLASS DEPOSITS

The Company is led by a Board and Management with considerable experience in Uranium exploration, development and production.

Past success are used to guide and build the company with our dedicated exploration team based locally in Saskatoon, Canada.

# **BOARD**



Andrew J Vigar
Executive Chairman



**Troy Boisjoli**Non-Executive Director



**Doug Engdahl**Non-Executive Director



**Dr. Kylie Prendergast**Non-Executive Director

## **MANAGEMENT**



Mike McClelland
President Terra Canada



**Nova Taylor**Company Secretary



Jules Grove
Chief Financial Officer



Jennifer Burgess
Exploration Manager



**Kyle Patterson** Geophysics Manager



**Dr. Tom Kotzer**Geochemistry Manager

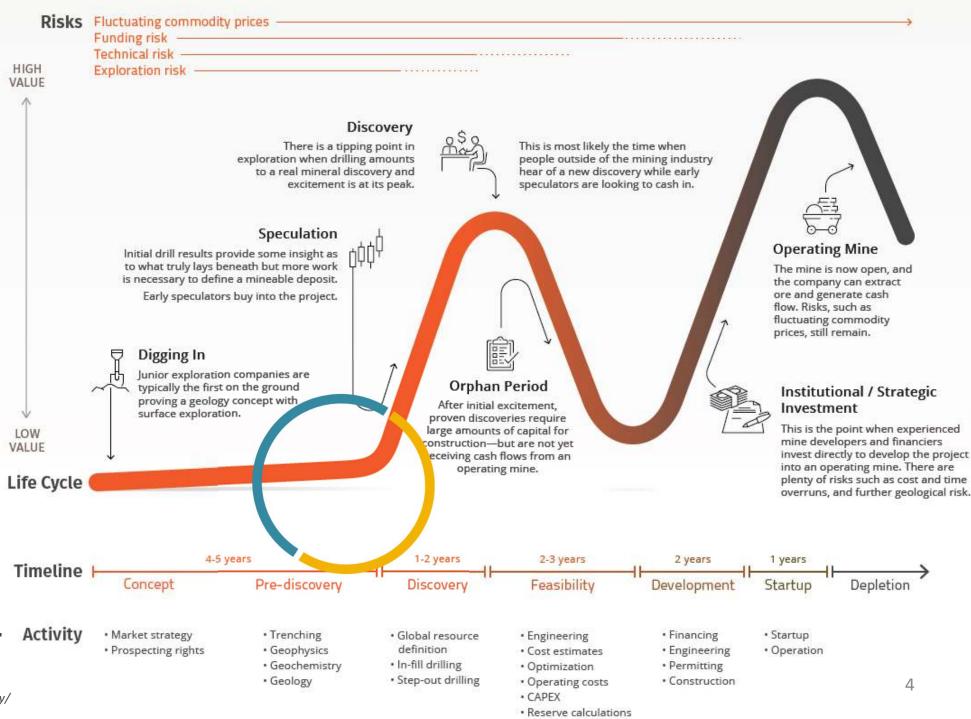
# **VALUE WAVES**

The Lassonde Curve outlines the life of mining companies from exploration to production and highlights the work and market value associated with each stage. This helps investors understand the mining process, and time their investments properly.

Mineral Discovery and Production Start are the big value add steps.

Terra Uranium is Pre-discovery.

## The Lifecycle of a Mineral Discovery

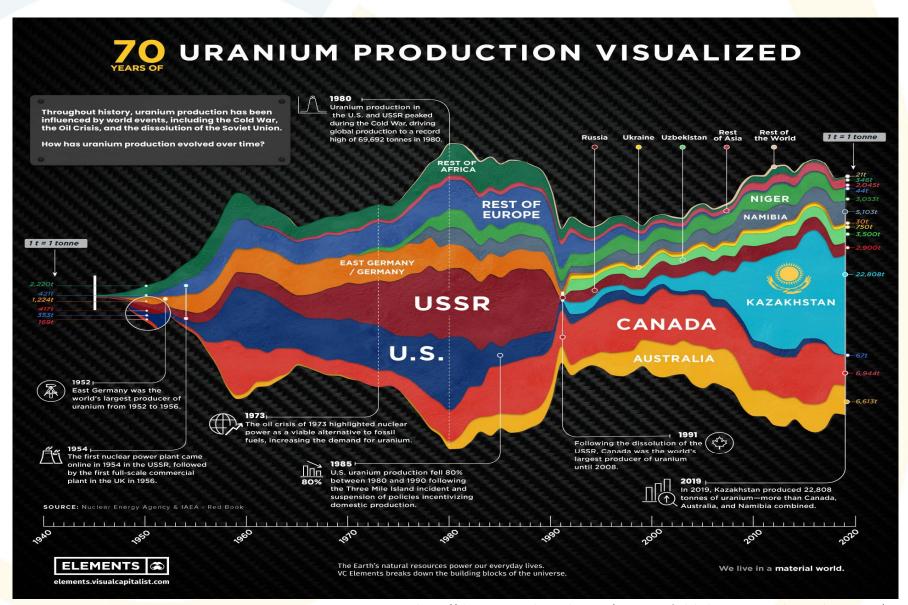




# 70 YEARS OF GLOBAL URANIUM PRODUCTION BY COUNTRY

Canada is the world's second-largest producer of uranium, putting Terra
Uranium in a favourable macro environment

Largest producer Kazakstan impacted by Russian sanctions



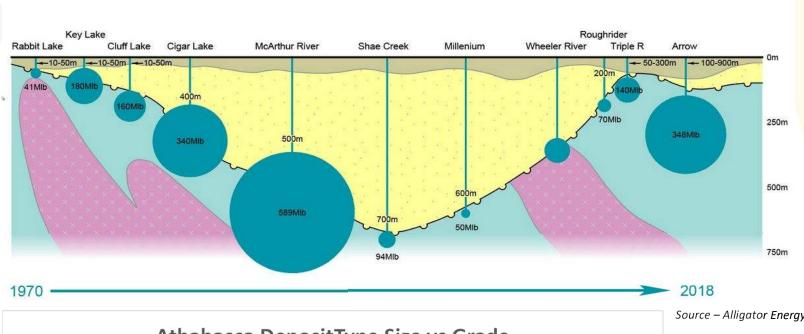
Source – https://elements.visualcapitalist.com/70-years-of-global-uranium-production-by-country/

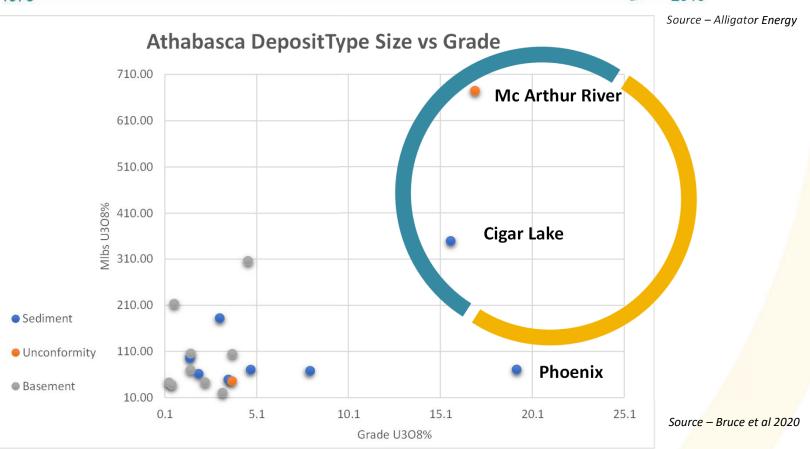


# BIG THINGS HAPPEN AT DEPTH WITHIN STRUCTURAL DOMAINS

The largest and highest grade uranium deposits in the world are at the Athabasca Basin unconformity.

These deposits have distinctive geochemical and mineralogical signatures extending vertically hundreds of metres to surface.







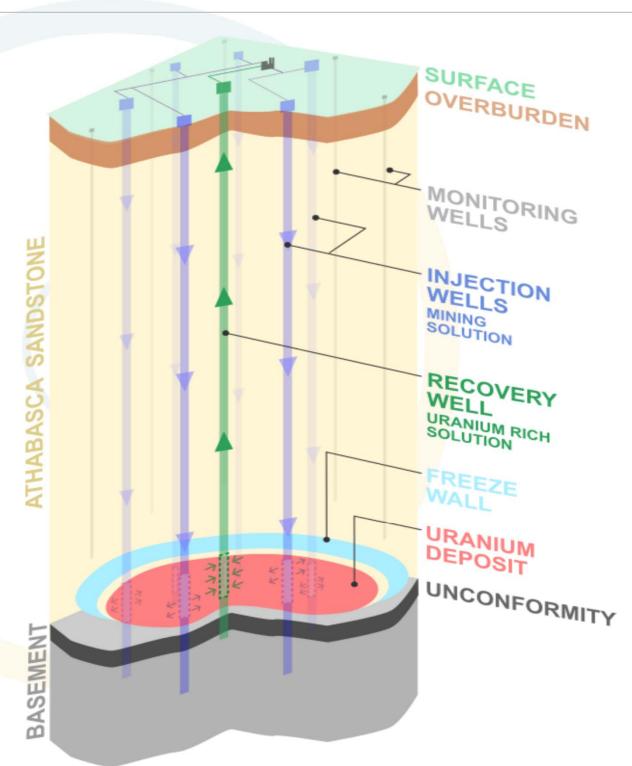
# IN SITU RECOVERY CHANGES THE GAME

ISR makes high grade deposits at depth economically viable
ISR meets the highest standards for environmental and social impact

Phoenix PFS Financial Results (100% Basis)			
10 years (6.0 million lbs $U_3O_8$ per year on average)			
59.7 million lbs U <sub>3</sub> O <sub>8</sub> (141,000 tonnes at 19.1% U <sub>3</sub> O <sub>8</sub> )			
\$4.33 (US\$3.33) per lb U <sub>3</sub> O <sub>8</sub>			
\$322.5 million			
43.3%			
\$930.4 million			
UxC spot price <sup>(3)</sup> (from ~US\$29 to US\$45/lb $U_3O_8$ )			
89.0% at US\$29/lb U <sub>3</sub> O <sub>8</sub>			
\$11.57 (US\$8.90) per lb U <sub>3</sub> O <sub>8</sub>			

- 1. See below for additional information regarding Probable reserves;
- 2 NPV and IRR are calculated to the start of pre-production activities for the Phoenix operation in 2021
- 3. Spot price forecast is based on "Composite Midpoint" scenario from UxC's Q3'2018 Uranium Market Outlook ("UMO") and is stated in constant (not-inflated) dollars,
- 4. Operating profit margin is calculated as uranium revenue less operating costs, divided by uranium revenue. Operating costs exclude all royalties, surcharges and income taxes;
- 5. All-in cost is estimated on a pre-tax basis and includes all project operating costs and capital costs, divided by the estimated number of pounds U<sub>3</sub>O<sub>8</sub> to be produced.

Source Dennison Mines,, For further details regarding the Wheeler River project, please refer to the Dennison Company's press release dated September 24, 2018, and the technical report titled "Prefeasibility Study for the Wheeler River Uranium Project, Saskatchewan, Canada" with an effective date of September 24, 2018.

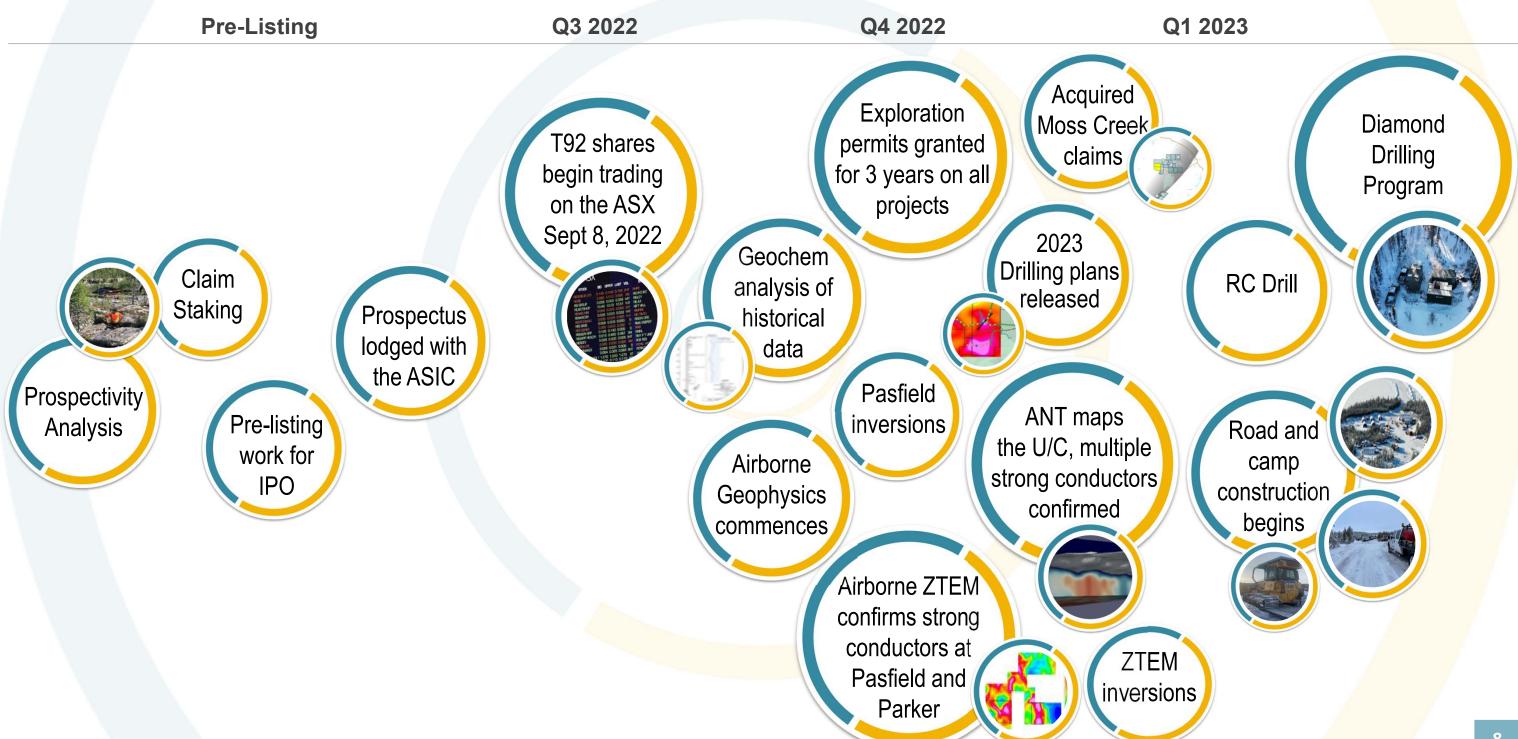


# THE TIMELINE

#### A STEADY STREAM OF NEWS AND ACTIVITY



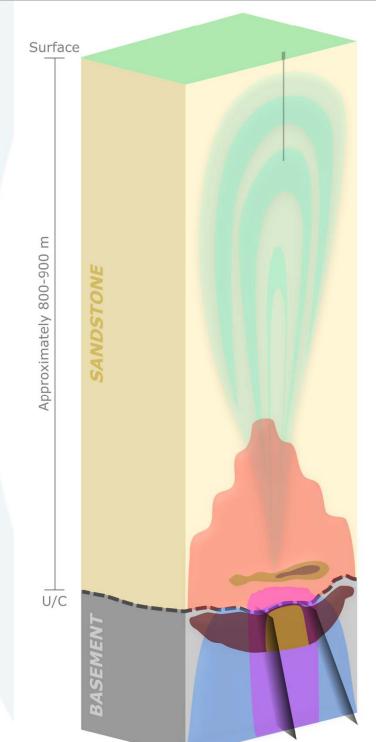
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#### HISTORICAL, MODERN, AND NEWLY COLLECTED DATA



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#### **GEOCHEMISTRY**





Significant

Helium Anomaly

Historical **Drilling Data** 

#### Significant Uranium at Surface

Tier one unconformity uranium deposits have primary and pathfinder surface expressions Uranium geochemistry at surface exceeds background of 0.8 ppm

#### O Historical Significant Dissolved Helium Anomaly to Depth

Location is coincident with Pasfield geophysical anomolies

o Anomalous helium levels similar to values found near major high grade uranium deposits 1000 to 4800 x 10-8 cm3 He/cm3 water

250 to 1000 times greater than background

#### **VTEM**





strong conductors



the sandstone



Pasfield conductivity feature

 Identify and confirm sandstone/basement conductivity structures

- Graphitic basement faults Transport/trap
- Conductive hydrothermal clay alteration Fluid-rock interaction

#### ANT

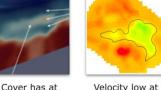
**ZTEM** 





cover layers







Basement valley at the anomaly

Sandstone and basement architecture

 Basement-sandstone unconformity is key to deep play exploration

project modelling

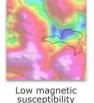
Historical data sets provide valuable inputs to all stages of exploration planning and

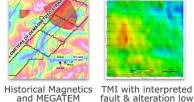
Able to detect altered and weathered structures

Open Data

#### HISTORICAL **GEOPHYSICS**



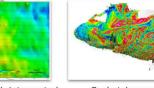




least 3 layers



unconformity



Saskatchewan Geological Survey 3D model of the Athabasca Basin

o TDEM: Time Domain Electromagnetics

- o SWML: Stepwise Moving Loop Transient electromagnetics survey
- Used to locate, or better define, deep seated graphitic conductors for drill testing
- o Depth, dip, and strike can be calculated from this survey







4 km conductor

strike length

ZTEM Airborne Geophysics Results/Update

Multiple strong conductors confirmed at Parker and Pasfield

Resolve basement conductivity structures

Greater than 1000m depth of investigation



# BIG TARGETS EXPLORATION STRATEGY

MUDJATIK UNDEREXPLORED

Less than 2,000 drill holes due to unconformity depths exceeding 1,000m

Lack of exploration with modern techniques capable of imaging, targeting, and drilling to these depths

There have been no major discoveries of the Cigar Lake or McArthur River type deep under cover since the 1980's

Explore for Tier 1 (140+ M lb) deposits in the Athabasca Basin

## Focus on the unexplored Mudjatik

- Mudjatik Cable Bay Shear Zone target
- 250 950m sandstone cover
- Higher perspectivity
- · Less exploration due to depth, technical limits, and risk aversion
- Super-deposit opportunity due to exploration density and sterilization

**URANIUM MINES PAST AND PRESENT URANIUM MILL URANIUM RESERVES** MUDJATIK DRILL HOLE NON-MUDJATIK DRILL HOLE **CABLE BAY SHEAR ZONE** WOLLASTON **WOLLASTON / MUDJATIK** ATHABASCA BASIN OUTLINE **TERRA URANIUM CLAIMS** 

#### DRILLING SUCCESS

The entire Athabasca Basin has a 2.52% success rate for drill holes encountering mineralization

Eastern Athabasca **2.98%**  Wollaston/ Mudjatik

3% 2.64%

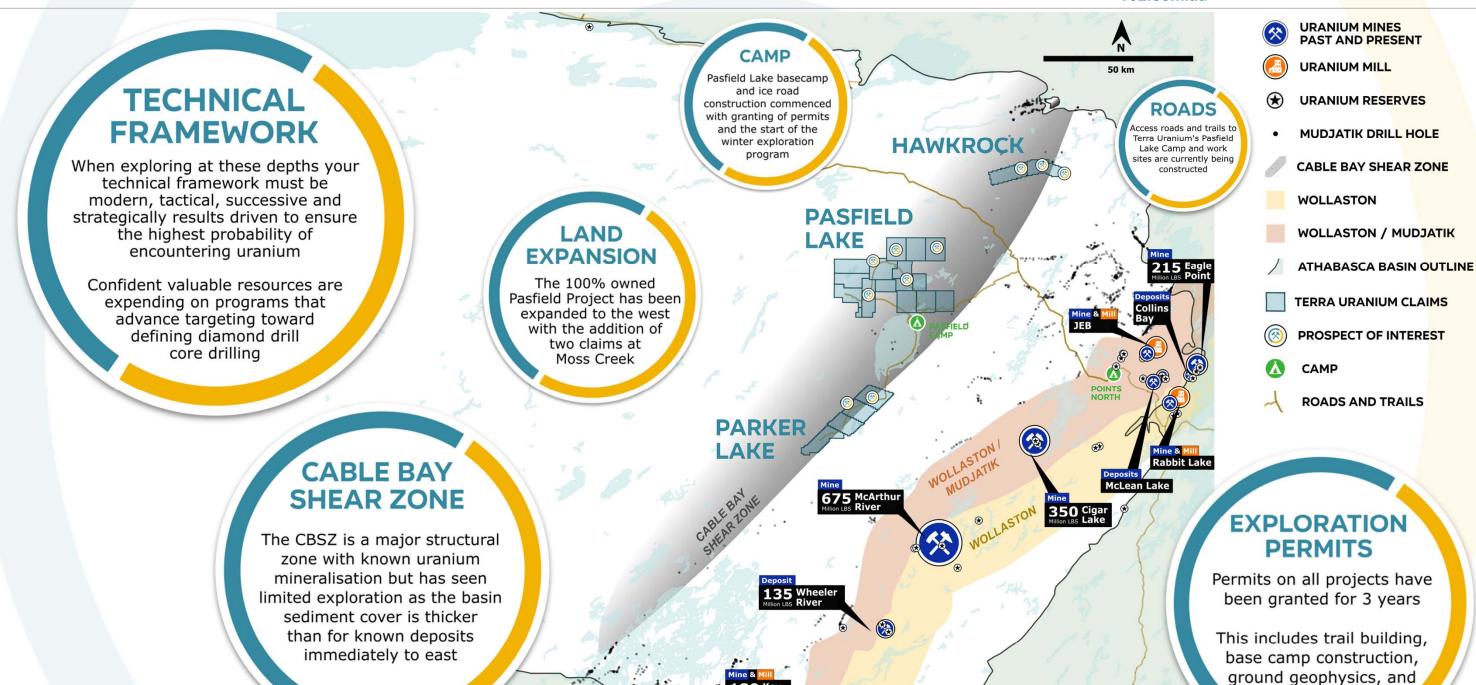
Mudjatik

4.5%

#### TIER ONE TARGETS

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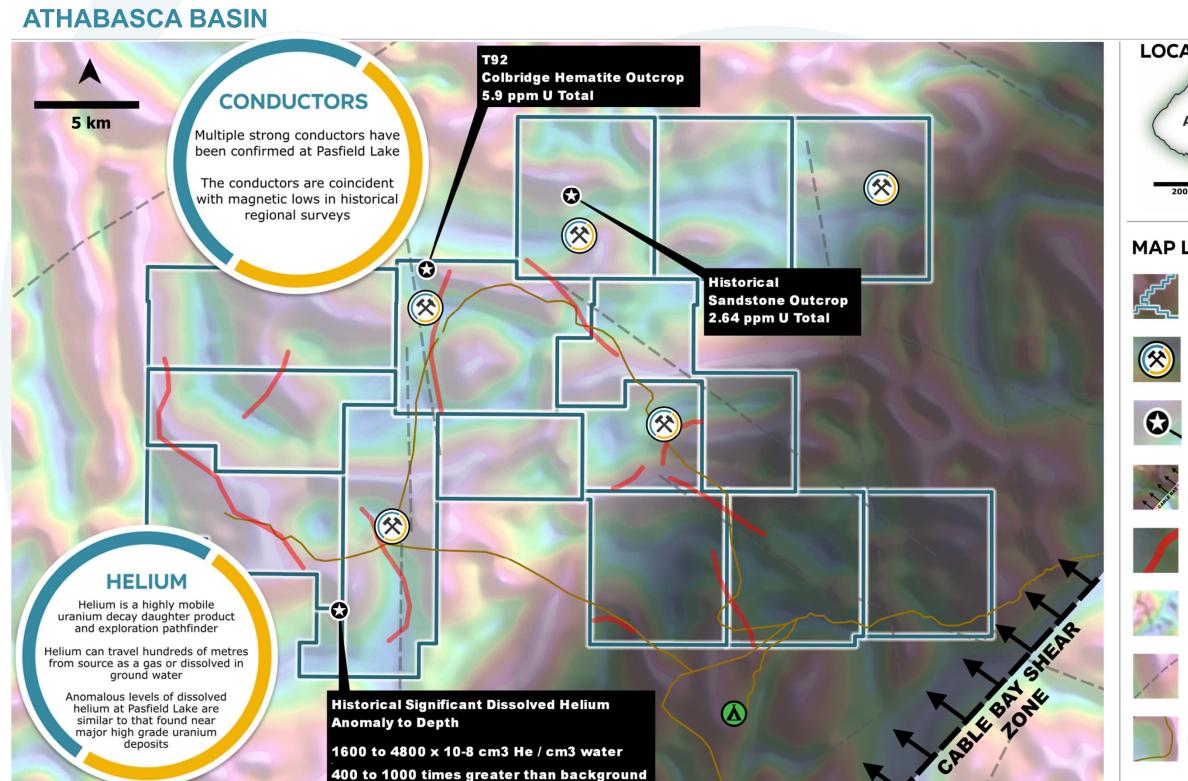


drilling

# PROJECTS - PASFIELD LAKE

T92<mark>)TERRA U</mark>RANIUM **ASX: T92** 

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#### **LOCATION**



#### MAP LEGEND

**TERRA CLAIMS** 

**PIORITY GEOSCIENCE TARGET AREA** 

**GEOCHEMICAL ANOMALY** 

**CABLE BAY SHEAR ZONE** 

**CONDUCTORS** 

**RESIDUAL TOTAL FIELD TILT** 

**FAULTS** 

**ROADS AND TRAILS** 

# PROJECTS - PASFIELD LAKE - TARGETING

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#### **ATHABASCA BASIN** 475000 480000 **Terra Uranium Claims** Conductivity from ZTEM S/m **Ground Geophysics Line** 0.00341 0.00216 **RC Drill Hole** 0.00156 0.00124

A

PS-23-RC03

PS-23-RC02

PS-23-RC09

470000

PS-23-RC01

0.00101

0.00087

0.00076

0.00066

0.00055

0.00040 0.00028

0.00019 0.00010

PS-23-RC08

PS-23-RC04

**Uranium** 

**Presence** 

Boron/Illite

**Winter Trail** 

PS-23-RC05

2,000 m

465000

NAD83 UTM Zone 13

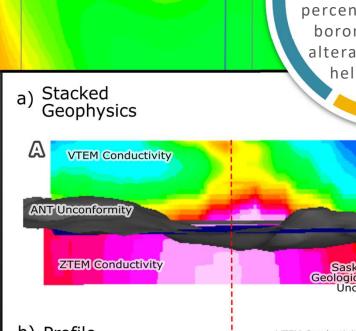
**Helium Sample** 

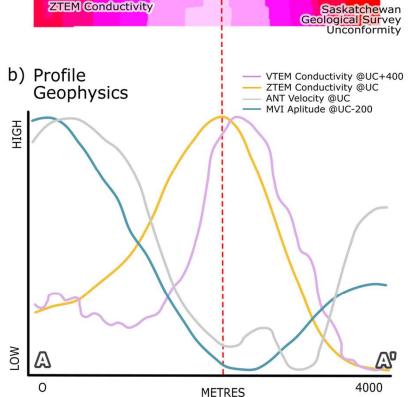
PS-23-RC06

PS-23-RC07

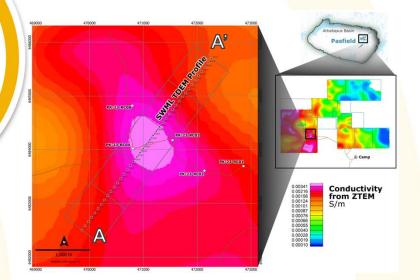
RC drill holes and associated uranium values (ppm, 50th percentile), anomalous boron and illite clay alteration haloes and helium samples.

**RC DRILLING** 





#### LOCATION



#### LINE A-A'

Section line on inset images showing

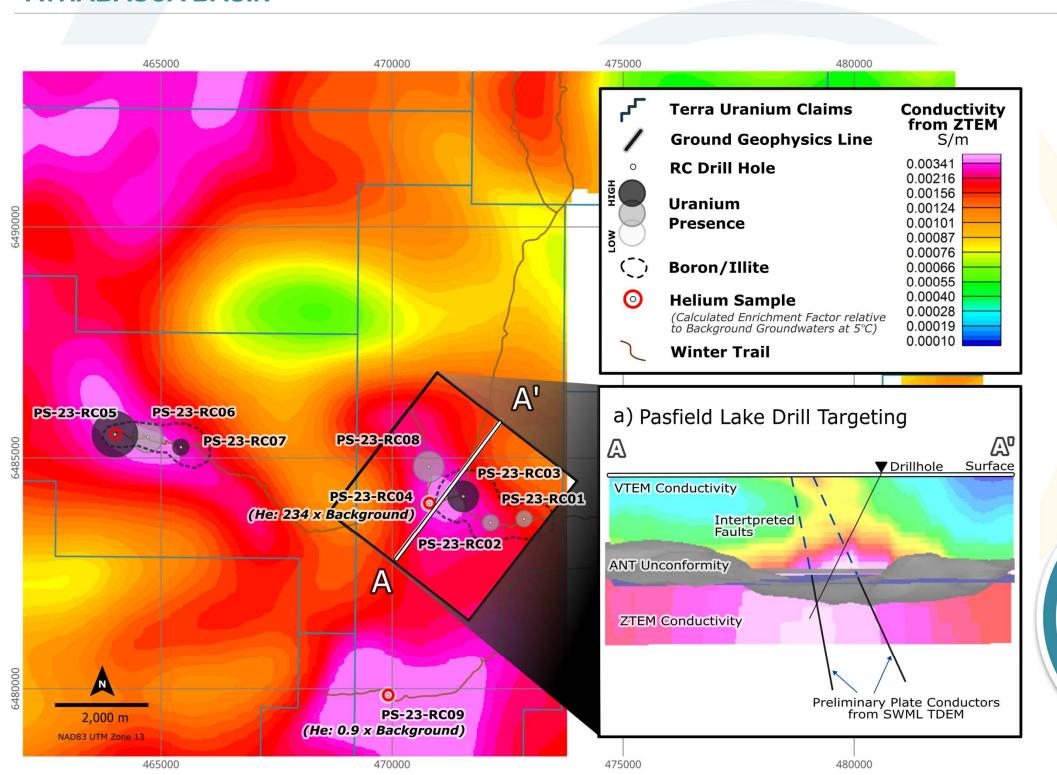
- (a) stacked VTEM/ZTEM inversions, with ANT map of UC surface
- (b) Profiles of VTEM/ZTEM inversion data, magnetic vector amplitude below UC, and ANT velocity at UC

# PROJECTS - PASFIELD LAKE - DRILLING - JULY

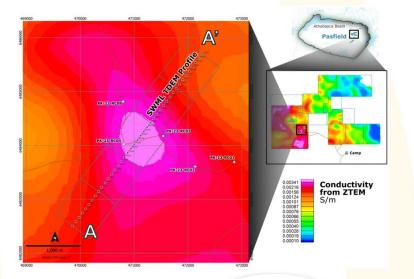
**ATHABASCA BASIN** 



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#### **LOCATION**



#### RC DRILLING

RC drill holes and associated uranium values (ppm, 50<sup>th</sup> percentile), anomalous boron and illite clay alteration haloes and helium samples.

#### LINE A-A'

Section line on inset images showing

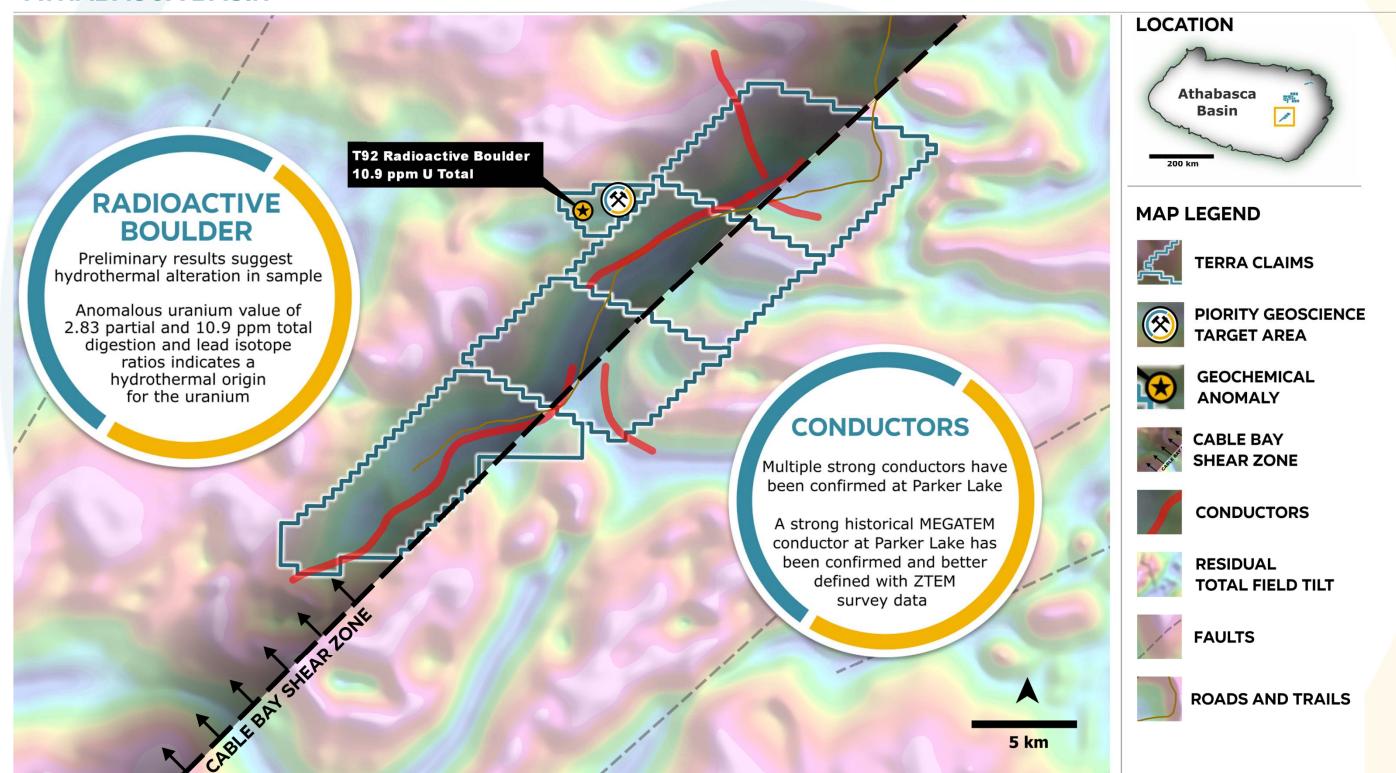
(a) stacked VTEM/ZTEM inversions, with ANT map of UC surface

# PROJECTS - PARKER LAKE



**ATHABASCA BASIN** 

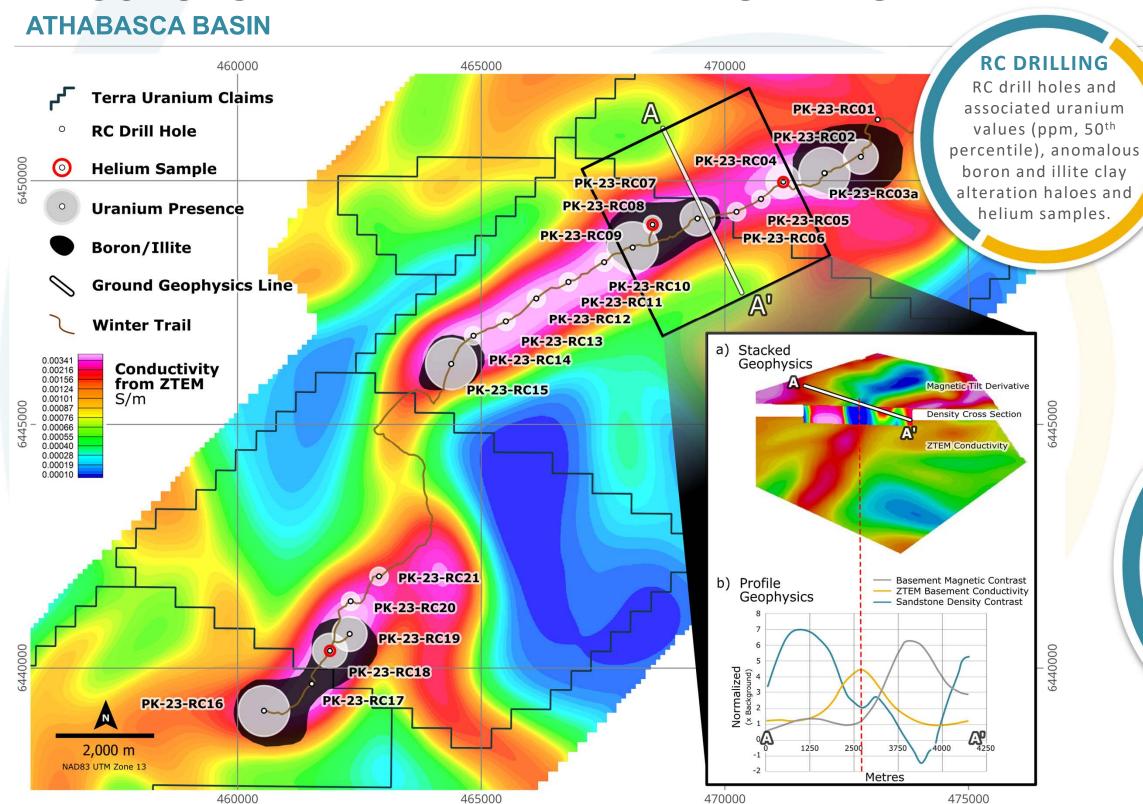




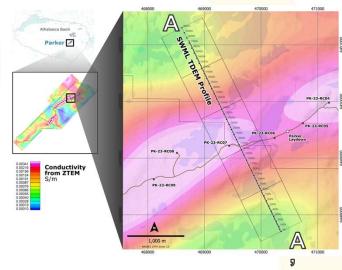
# PROJECTS - PARKER LAKE - TARGETING

T92 TERRA URANIUM
ASX: T92

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#### **LOCATION**



#### LINE A-A'

Section line on inset images showing

- (a) Stacked ZTEM inversions and magnetics, with density profile
- (b) Profiles of ZTEM inversion data at 100m below UC, magnetic vector amplitude at UC, and density at UC +150m

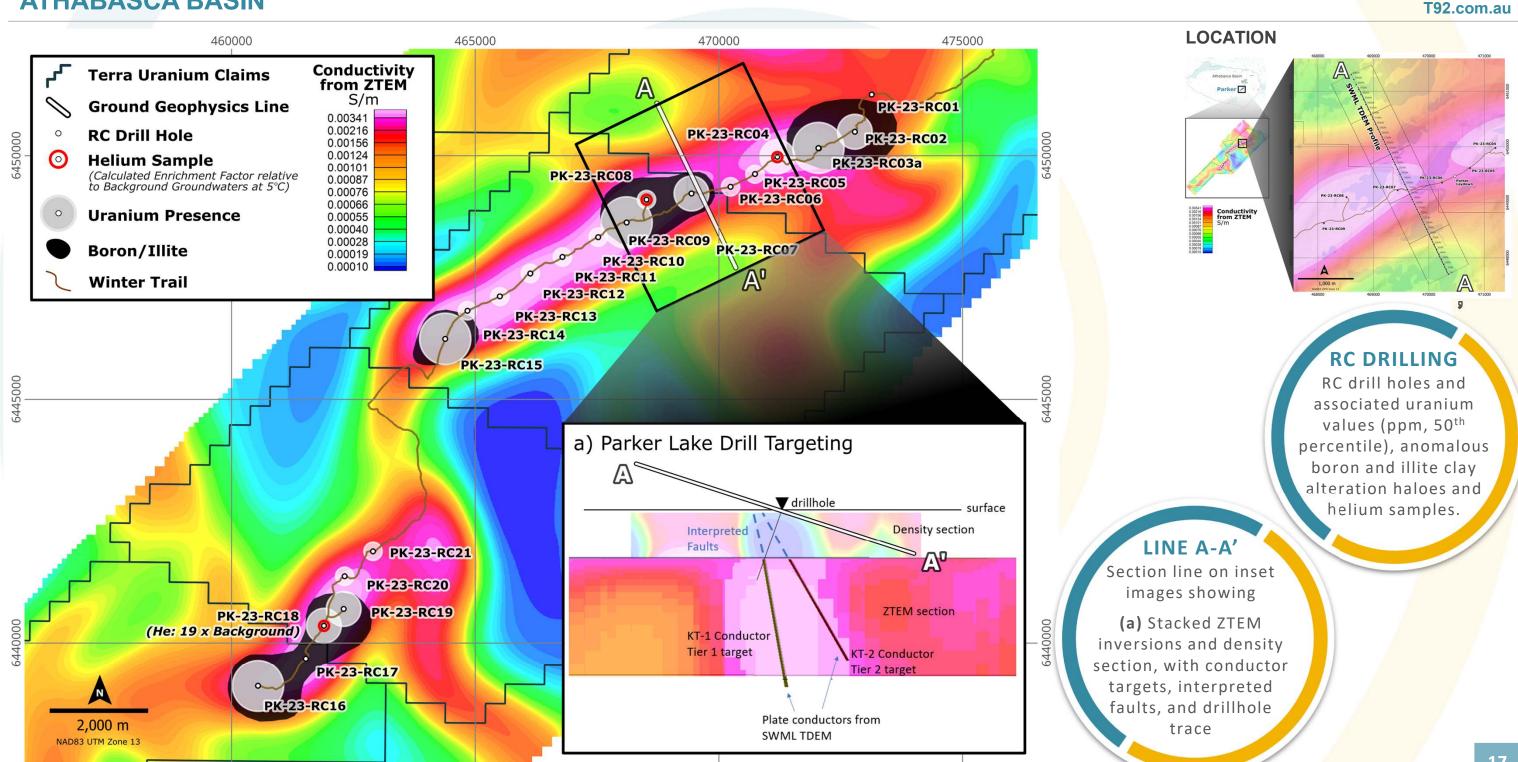
# PROJECTS - PARKER LAKE - DRILLING - JUNE

465000

## T92) TERRA URANIUM **ASX: T92**

**ATHABASCA BASIN** 

460000



470000

475000

# PROJECTS - PARKER LAKE - DRILLING - TODAY

**ATHABASCA BASIN** 

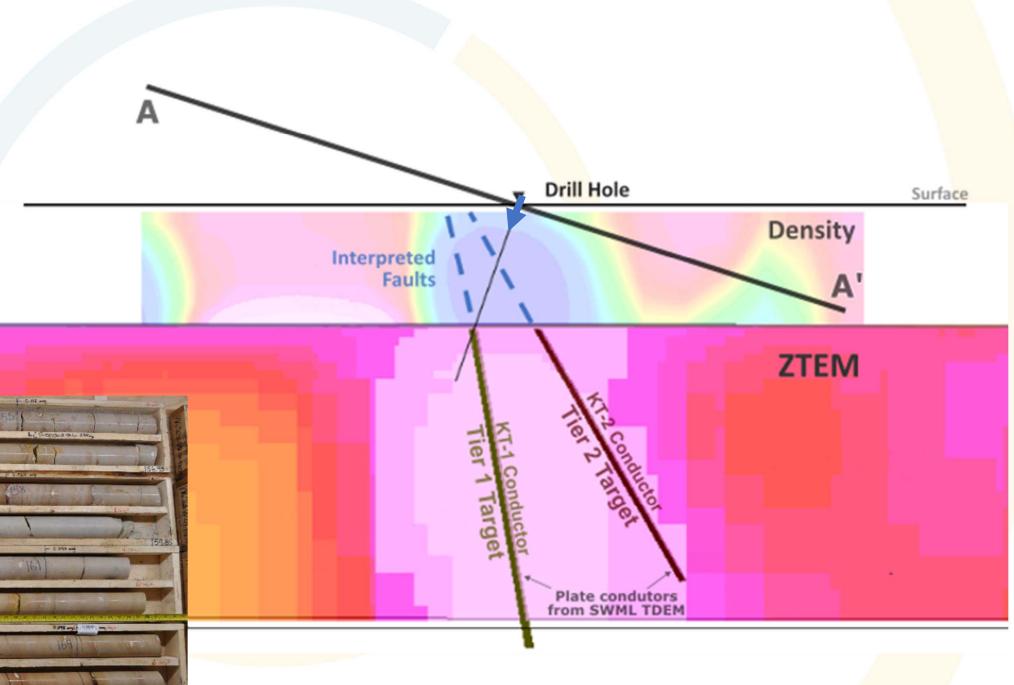


# PK-23-DD01

Currently @ 250m
Target @ 950m
Final Depth 1,100m
Completion end June

Alteration and bleaching in the Sandstone as expected this far above the target.

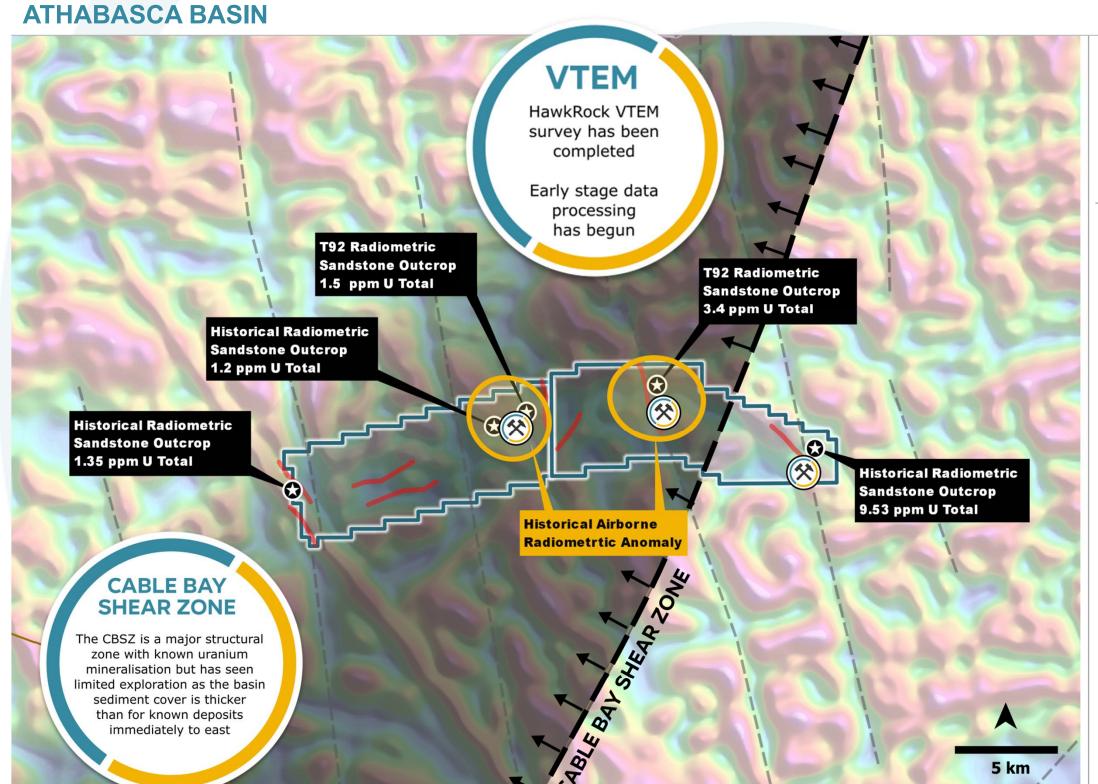


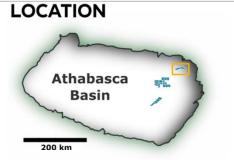


# **PROJECTS - HAWKROCK**









#### MAP LEGEND



**TERRA CLAIMS** 



PIORITY GEOSCIENCE TARGET AREA



GEOCHEMICAL ANOMALY



CABLE BAY
SHEAR ZONE



**CONDUCTORS** 



RESIDUAL TOTAL FIELD TILT



**FAULTS** 



**ROADS AND TRAILS** 

# **Anomalous Helium**

## TIME CONSTRAINED MODEL OF RADIOGENIC HELIUM ACCUMULATION



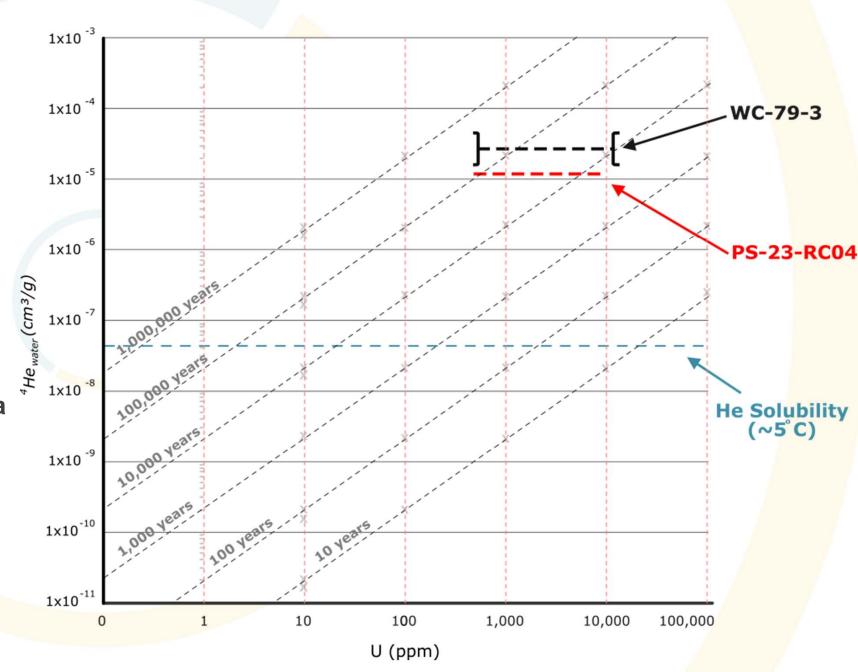
Several RC holes were sampled for dissolved helium concentrations

Radiogenic helium concentrations for PS-23-RC04 are approximately 234 times greater than background

These levels are comparable with helium data collected over known uranium deposits elsewhere in the Athabasca Basin

Corresponds with a prospective exploration target based on recent geophysical and geochemical data from the 2023 RC winter drill program

Dissolved He results from 2023 Terra Uranium RC Drilling program			
Sample ID	Final Radiogenic Helium Concentrations (cm³ He/cm³ water)	Calculated Enrichment Factor relative to Background Groundwaters at 5°C	
PK-23-RC18	9.14x10-7	19	
PS-23-RC04	1.2 x10-5	234	
PS-23-RC09	4.78x10-8	0.9 (no enrichment)	



# **ENVIRONMENTAL, SOCIAL & GOVERNANCE**

**CORPORATE GOVERNANCE GUIDANCE** 



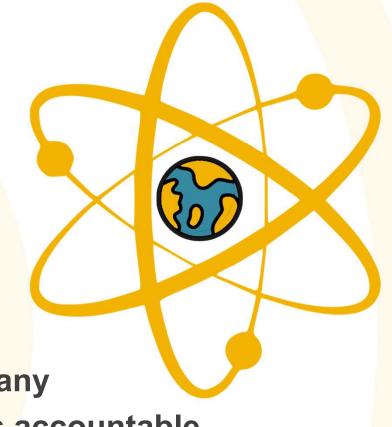
# NUCLEAR POWER FOR CLEAN ENERGY AND DECARBONIZATION

We believe that nuclear has a major role to play in clean energy and the decarbonization of the world electrical power system.

The Board is responsible for the corporate governance of the Company and protecting the rights and interests of Shareholders to whom it is accountable.

In developing its approach to corporate governance, the Company has considered the ASX Corporate Governance Council's 10 principles of good corporate governance and best practice recommendations.

The company will achieve its objectives with minimal environmental and social impact.



# **ENVIRONMENTAL, SOCIAL & GOVERNANCE**

LOCAL COMMUNITIES

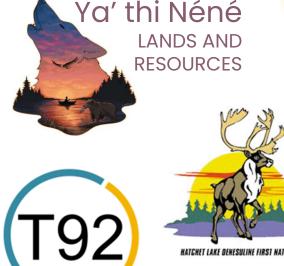


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# ON THE GROUND, WE WORK CLOSELY WITH THOSE WHO HAVE TRADITIONAL RIGHTS

Terra Uranium Canada Limited projects are situated on Treaty 10 Territory and the Homeland of the Métis. We honor the terms of Treaty 10, and the ongoing legal and socioeconomic impacts on Indigenous communities. We respect indigenous history, and the First Nations and Métis ancestors of this place and reaffirm our respectful relationship

with one another.









Terra Uranium will take steps to ensure Indigenous communities and businesses participate fruitfully in our business and pursue a participation model that reflects our ideals as partners.

# **CONTACT**

## **FOLLOW UP**





# **THANK YOU**

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**Executive Chairman** 

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