21 March 2023

Airborne Geophysics survey starts at Newnham Lake and Perch Uranium Projects in the Athabasca Basin

Highlights

- **Permit to drill received at Newnham Lake Uranium Project, located in the Athabasca Basin**
- **Extensive airborne survey underway to prioritise exploration targets for drilling**
- **Drilling of the highest priority targets is scheduled for the upcoming North America summer**

Okapi Resources Limited (ASX: OKR, OTCQB:OKPRF) has commenced an airborne geophysics program at its 100% owned Newnham Lake and Perch Uranium projects, which straddle the highly prospective, north-eastern margin of Canada's prolific Athabasca Basin. Both projects consist of 15 mining claims totalling close to 18,500 hectares within a province that is the world's leading source of high-grade uranium.

The geophysical survey will use NRG's specially designed Xcite™ time domain system that provides detailed radiometric, magnetic and electromagnetic data, allowing for correlation between the three products to further refine our high-priority targets and locate new targets for the upcoming summer drill program.

Okapi's Managing Director, Mr Andrew Ferrier said:

"Okapi is pleased to be able to kick start this airborne geophysical survey, an important step in advancing our 100% owned Newnham Lake and Perch Uranium Projects. This survey will further refine and confirm our drill targets ahead of our maiden drill program at both projects.

The Newnham Lake and Perch Uranium Projects both contain all the important characteristics of high-grade uranium deposits in the Athabasca Basin. Importantly the target depths are shallow, typically less than 100m, making the exploration opportunity very compelling.

2023 is shaping as a stellar year for Okapi, with the recent approval of the Company's investment in Ubaryon, a uranium enrichment technology company, as well as planned drilling on the Company's first class uranium projects in both the United States and Canada prior to calendar year end."

Airborne Survey and Drilling Program details

The uranium exploration model in the Athabasca Basin relies on identifying conductors at or below the unconformity. These conductors are typically coincident with structures that may host or concentrate uranium mineralisation and are critical as vectors for targeting. The eastern half of the Newnham Lake Uranium Project is lacking a high-quality geophysical product that can provide the location and orientation of these important conductors. The Xcite™ survey will better define the conductors on the eastern part of Newnham Lake Uranium Project and on the entire Perch Uranium Project, which will allow refining high-priority targets for the upcoming drilling program.

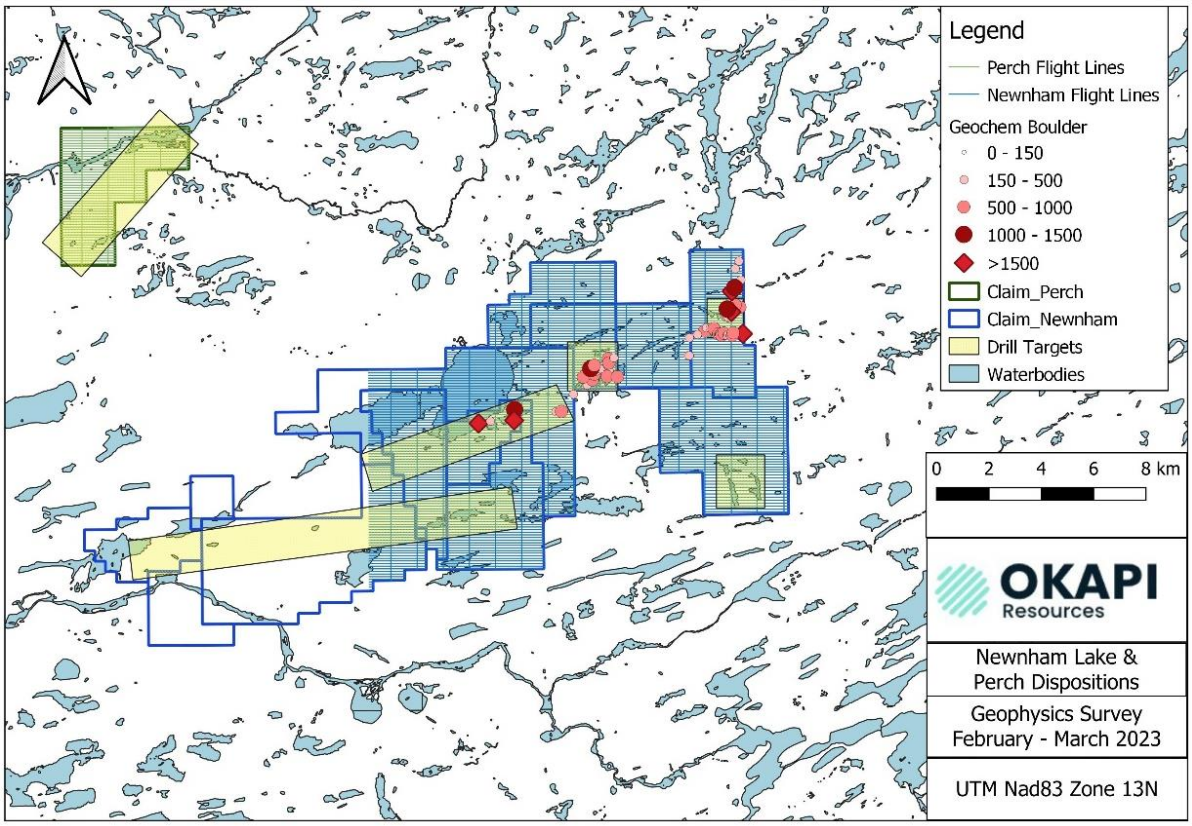


Figure 1: Airborne Geophysics Program with Exploration Targets at Okapi's Newnham Lake and Perch Uranium Project

The Company also recently received a drilling permit to drill up to 40 drill holes at the Newnham Lake Uranium Project. Drilling to commence on the completion of processing and interpretation of the geophysical data being received.

Newnham Lake and Perch Uranium Project

Historical drilling at Newnham Lake has encountered multiple intercepts with grades between **1,000ppm U_3O_8 and 2,000ppm U_3O_8** in shallow drill holes within a 25km conductive trend. Importantly, the depth to the Athabasca Basin unconformity at Newnham Lake is approximately 100 metres, mitigating the need to drill deep holes.[1]

Previous drilling at Newnham Lake has focused on the areas under the Athabasca Basin sediments where mineralisation has been identified but the same mineralised structures continue to the northeast, outside the edge of the basin. These areas have not been tested and will be a priority as there is significant potential for basement hosted deposits akin to Triple R and Arrow deposits.

A single hole (NL18-001) was drilled on the Newnham Lake Uranium Project in 2018 and it returned 7.2m @ 310ppm including 0.5m @ 1,274ppm U_3O_8. This drill hole requires additional follow up to potentially locate the source of the uranium mineralisation at depth and/or along strike.[1]

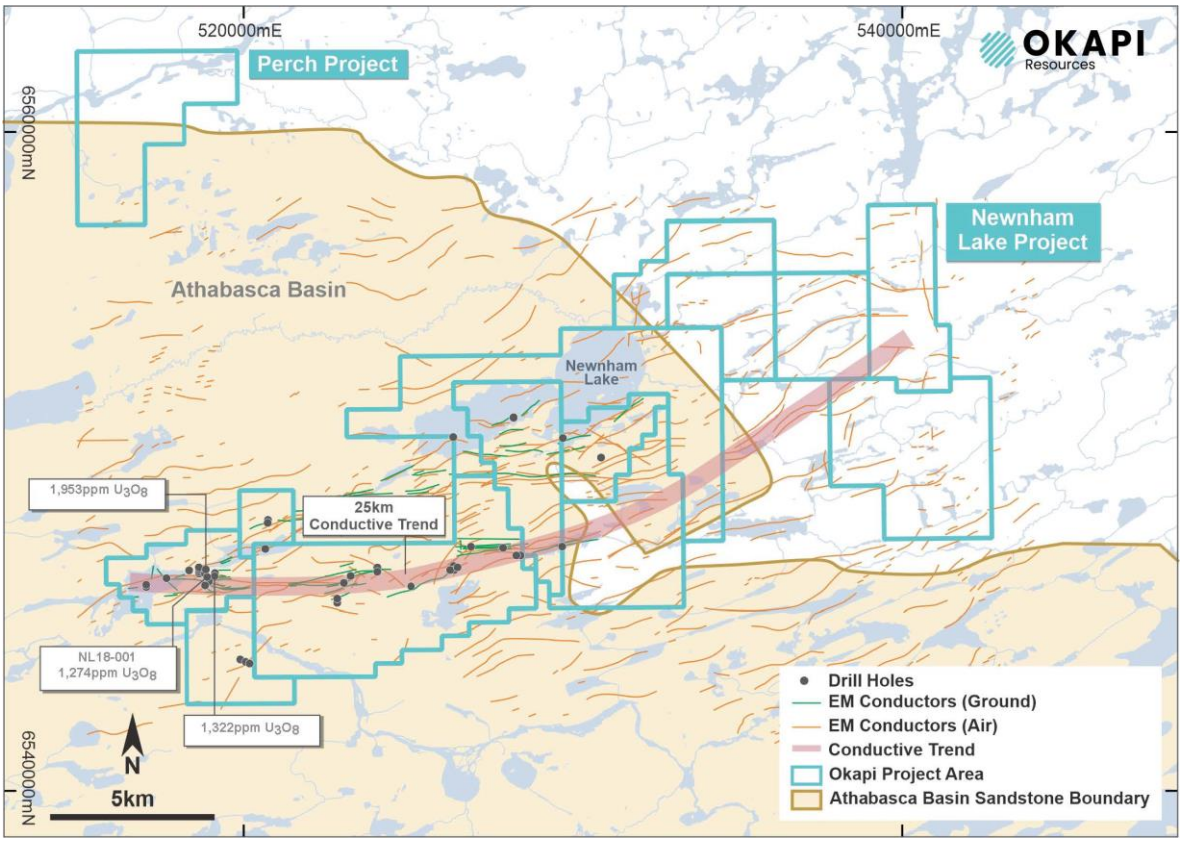


Figure 2: Newnham Lake and Perch Uranium Projects

Historical exploration at the Perch Uranium Project highlighted a prospective 4km long conductive trend. Two holes have been drilled into the trend with one of those holes intersecting 498ppm U_3O_8 and anomalous Cu-Ni-Zn, pathfinder elements for uranium mineralisation. The other drill hole intersected grades up to 504ppm U_3O_8. These intercepts have not been followed up with further drilling.[2]

[1] Newnham Lake 2017 Core Relogging and Sampling Program Report, July 2020.
[2] Perch Property Summer 2017 Core Relogging and Sampling Project Report, July 2020

Overview of the Athabasca Basin, Canada

The Athabasca Basin is home to the world's largest and highest-grade uranium mines including Cameco's McArthur River and Cigar Lake uranium mines. Cigar Lake and McArthur River contain total mineral reserves of 165.6mlbs @ 15.9% U_3O_8 and 391.9mlbs @ 6.9% U_3O_8 respectively. Other past producing mines include Rabbit Lake, Mclean Lake and Key Lake. Orano's historical Cluff Lake Mine produced 64.2mlbs U_3O_8 @ 0.92% U_3O_8 between 1981-2002. Saskatchewan was ranked as the number one region globally for mining investment opportunity in the Mining Journal's 2020 World Risk Report.[3]

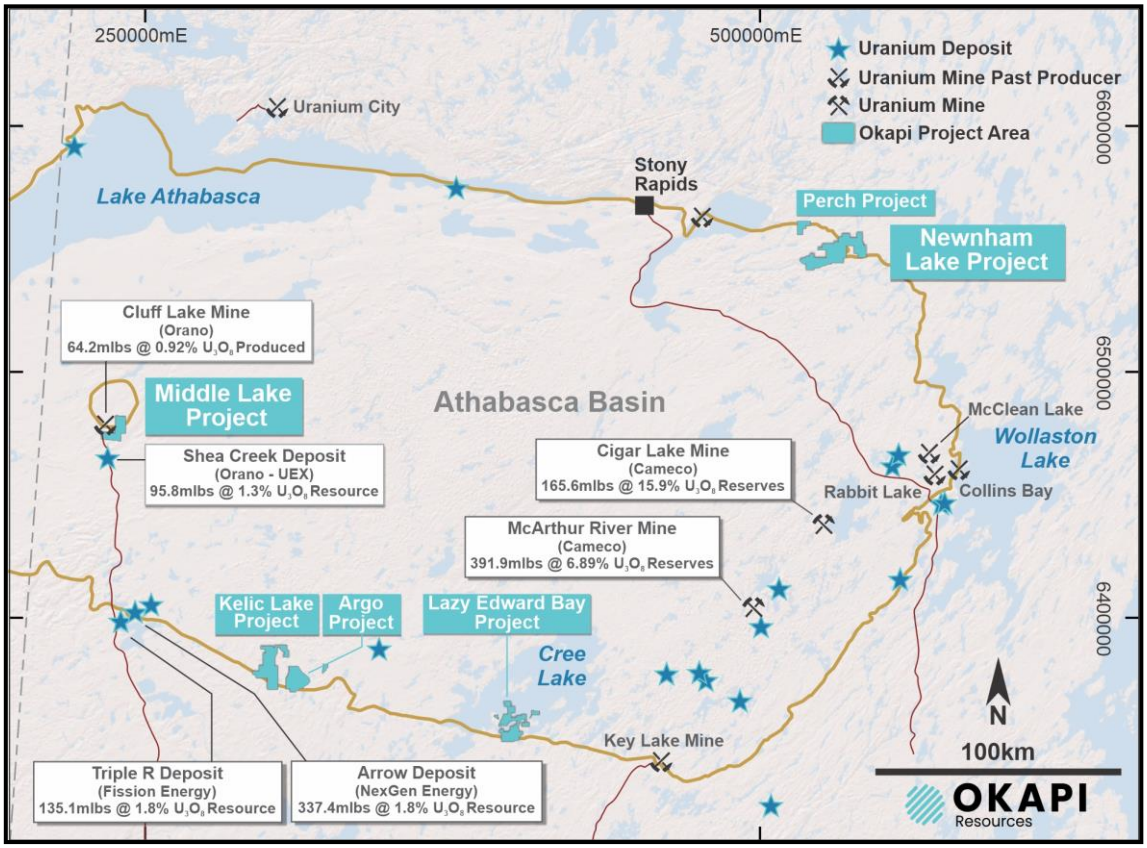


Figure 3: Okapi's Athabasca Uranium Projects

A number of world-class discoveries have been made in recent years in the Athabasca Basin including:

1. NexGen Energy's Arrow deposit where mineral resource comprises 337.4mlbs of U_3O_8 @ 1.9% U_3O_8.
2. Fission Uranium Corp's Triple R deposit where mineral resource comprises 135.1mlbs U_3O_8 @ 1.8% U_3O_8.
3. IsoEnergy's Hurricane deposit that was discovered in July 2018 with at best drill intersection to date of 7.5m @ 38.8% U_3O_8, including 3.5m @ 74.0% U_3O_8 in LE20-76.[4]

(Refer to Annexure 1 for Resources referenced)

[3] Saskatchewan Gets Top Global Ranking in International Mining Report
[4] Iso Energy Ltd Corporate Presentation, Proudly Exploring for Uranium in Saskatchewan's North, October 2021 (pg 8).

This announcement has been authorised for release by the Board of Okapi Resources Limited.

Further information:

Andrew Ferrier
Managing Director
E: info@okapiresources.com
P: +61 8 6117 9338

Gareth Quinn
Investor Relations
E: gareth@republicpr.com.au
P: +61 417 711 108

Caution Regarding Forward Looking Statements

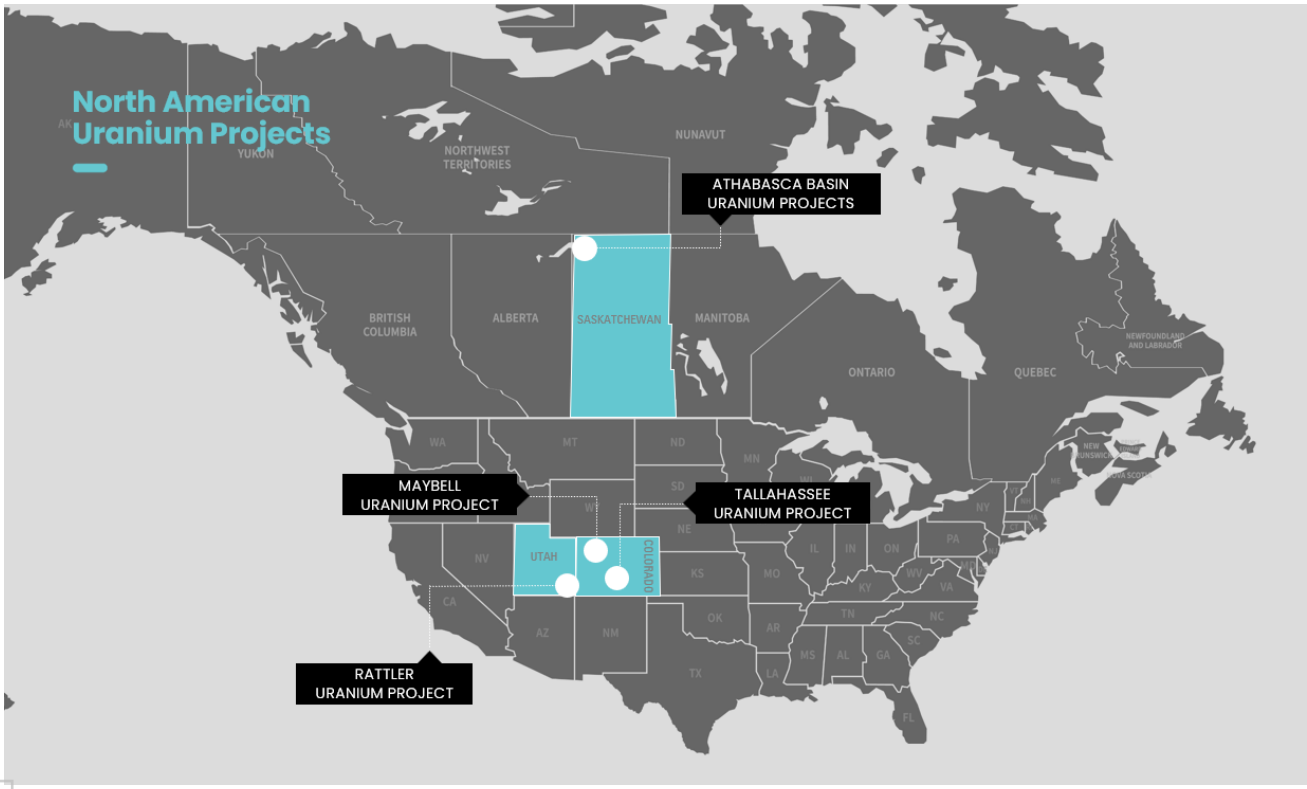
This announcement contains forward looking statements which involve a number of risks and uncertainties. These forward-looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. The forward-looking statements are made as at the date of this announcement and the Company disclaims any intent or obligation to update publicly such forward looking statements, whether as the result of new information, future events or results or otherwise.

About Okapi Resources

Okapi Resources Limited is leading North America to a carbon-free future through by developing a portfolio of advanced, high grade uranium assets in prolific uranium districts in the United States of America and Canada.

Asset Portfolio:

- **Tallahassee Uranium Project**: Contains a JORC 2012 Mineral Resource estimate of 49.8 million pounds of U_3O_8 at a grade of 540ppm U_3O_8[5] with significant exploration upside. Located in Colorado's Tallahassee Creek Uranium District, host to more than 100 million pounds of U_3O_8.
- **Rattler Uranium Project**: Located within La Sal Uranium District, Utah, 85km north of White Mesa Uranium/Vanadium mill, the only operating conventional uranium mill in the USA.
- **Athabasca Basin Projects**: Portfolio of six potentially high-grade exploration assets in the Athabasca Basin, Canada, home to the world's largest and highest-grade uranium mines.
- **Maybell Uranium Project**: Located in a recognised uranium district in Colorado with historical production of 5.3 million pounds of U_3O_8 (average grade 1,300ppm)[6].



[5]Competent Persons Statement - Information on the Mineral Resources presented, together with JORC Table 1 information, is contained in the ASX announcement dated 7 April 2022 and titled "Okapi to acquire Hansen Deposit – Resource increased by 81%". Measured 2.96MLbs of 550 ppm U_3O_8, Indicated 19.095MLbs of 580 ppm U_3O_8, Inferred 27.78MLbs of 510 ppm U_3O_8 calculated applying a cut-off grade of 250ppm U_3O_8. Numbers may not sum due to rounding. Grade rounded to nearest 10ppm.

The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant market announcements, and that the form and context in which the Competent Persons findings are presented have not been materially modified from the original announcements. Where the Company refers to Mineral Resources in this announcement (referencing previous releases made to the ASX), it confirms that it is not aware of any new information or data that materially affects the information included in that announcement and all material assumptions and technical parameters underpinning the Mineral Resource estimate with that announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons findings are presented have not materially changed from the original announcement.

[6]Historical production data has been sourced of an article in Rocky Mountain Association of Geologists (1986) titled "Geology and Production History of the Uranium Deposits in the Maybell, Colorado Area" from W. L. Cheneoweth.

Annexure 1: Tabulation of Resources Referenced

Deposit	Owner	Status	Category	Tonnes	U3O8 lbs	Grade	Cut-Off	Criteria	Source
Cluff Lake	Orano	Past-Producer	-	-	64,200,000	0.92	-	Actual Production	Technical Report on the Shea Creek Property, Northern Saskatchewan, with an Update Mineral Resource Estimate, UEX Corporation May 31, 2013
Shea Creek	Orano (51%) UEX Corp. (49%)	Deposit	Inferred Indicated Measured **TOTAL**	1,272,200 2,067,900 - **3,340,100**	28,192,000 67,663,000 - **95,855,000**	1.01 1.48 - **1.30**	0.30%	NI 43-101 Compliant	Technical Report on the Shea Creek Property, Northern Saskatchewan, with an Update Mineral Resource Estimate, UEX Corporation May 31, 2013
Arrow	NexGen Energy Ltd.	Deposit	Inferred Indicated Measured **TOTAL**	4,399,000 1,572,000 2,183,000 **8,154,000**	80,700,000 47,100,000 209,600,000 **337,400,000**	0.83 1.36 4.35 **1.87**	0.25%	NI 43-101 Compliant	Arrow Deposit, Rook I Project, Saskatchewan, NI 43-101 Technical Report on Feasibility Study, February 22, 2021
Triple R	Fission	Deposit	Inferred Indicated Measured **TOTAL**	1,221,000 2,216,000 - **3,437,000**	32,810,000 102,360,000 - **135,170,000**	1.22 2.10 - **1.79**	0.25%	NI 43-101 Compliant	Fission Uranium Website: https//fissionuranium.com/projects/triple-r-deposit/project-overview/
Cigar Lake	Cameco	Production	Proven Reserves Probable Reserves **TOTAL**	268,700 203,200 **471,900**	103,800,000 61,700,000 **165,600,000**	17.53 13.78 **15.92**	N/A	Posted Proven and Probable Reserves as at 31 Dec 2020	Cameco Website: https://www.cameco.com/businesses/uranium-operations/Canada/cigar-lake/reserves-resources
McArthur River	Cameco	Production on Hold	Proven Reserves Probable Reserves **TOTAL**	2,041,000 540,000 **2,581,000**	320,200,000 71,700,000 **391,900,000**	7.12 6.02 **6.89**	N/A	Posted Proven and Probable Reserves as at 31 Dec 2020	Cameco Website: https://www.cameco.com/businesses/uranium-operations/Canada/cigar-lake/reserves-resources