

Uranium Energy Corp Files S-K 1300 Technical Summary Report for Horseshoe-Raven Project in Saskatchewan

- This TRS filing for the Horseshoe-Raven Project is the second Saskatchewan resource estimate reported by the Company since its acquisition of UEX Corporation (“UEX”) in August of 2022; and
- Indicated resources at the Horseshoe-Raven Project are 37.43 million lb. U₃O₈ with 23.59 million lb. U₃O₈ at 0.215% U₃O₈ at the Horseshoe Deposit and 13.83 million lb. U₃O₈ at 0.177% U₃O₈ at the Raven Deposit (Table 1).
- The project is 11,085 acres in the eastern portion of Saskatchewan’s Athabasca Uranium District about 5 km from Cameco’s mill at Rabbit Lake and approximately 27 km from the Roughrider deposit. UEC is considering the synergies between the Horseshoe-Raven, Roughrider, and Christie Lake deposits as parts of the Company’s Eastern Athabasca Hub Strategy.
- Uranium mineralization at Horseshoe-Raven is hosted in basement rocks with no sandstone cover and is between 100 m and 450 m below the surface, suggesting that the deposit is potentially amenable to combined conventional open pit and underground mine development and should not require costly ground freezing.

Corpus Christi, TX, January 24, 2023 – Uranium Energy Corp (NYSE American: UEC, the “Company” or “UEC” - <https://www.commodity-tv.com/ondemand/companies/profil/uranium-energy-corp/>) is pleased to announce that it has filed a Technical Report Summary (“TRS”) on EDGAR disclosing updated mineral resources for the Company’s Horseshoe-Raven Project (the “Project” or “Horseshoe-Raven”). UEC indirectly owns 100% of the Project.

Background:

- As a U.S. domestic and domiciled company, UEC is now reporting all mineral resources in accordance with Item 1302 of Regulation S-K (“S-K 1300”);
- S-K 1300 was adopted by the Securities and Exchange Commission (the “SEC”) to modernize mineral property disclosure requirements for mining registrants and to align U.S. disclosure requirements more closely for mineral properties with current industry and global regulatory standards; and
- The mineral resource estimate set forth in this TRS for the Horseshoe-Raven Project has not previously been reported under the S-K 1300 format.

The TRS was prepared under S-K 1300 and was filed on January 23, 2023 with the SEC through EDGAR on Form 8-K and is also available on SEDAR as a “Material Document” filed on January 23, 2023. The TRS was prepared on behalf of the Company by Nathan A. Barsi, P.Geo., UEC’s District Geologist, Roger M. Lemaitre, P.Eng., P.Geo., former President and CEO of UEX, and Christopher J. Hamel, P.Geo., UEC’s Vice President Exploration, Canada.

About Horseshoe-Raven

UEC's 100%-owned Horseshoe-Raven Project is our most advanced Canadian exploration stage project, located only 5 km south of Cameco's Rabbit Lake Mill. The Project has direct access to all-weather roads and power infrastructure.

Given the shallow depths to mineralization (between 100 and 450 m depth), uranium grades and lack of sandstone cover, the Horseshoe and Raven Deposits are potentially amenable to combined conventional open pit and underground mine development and should not require costly ground freezing to prevent water incursion or extra radiation protection measures routinely employed at many of Saskatchewan's uranium operations.

In 2016 additional metallurgical testing was completed on the Horseshoe and Raven mineralization with the objective of evaluating the potential benefit of heap leach extraction in lieu of toll milling. The testing program was conducted by SGS Lakefield Laboratories and was successful at demonstrating the potential of heap leaching. This historical scoping study was completed on the Horseshoe and Raven Deposits by JDS Mining in December 2016. The results of the study indicate that further investigations into heap leaching as an extraction method for the Horseshoe and Raven mineralization are warranted.

Resource Disclosure

The updated technical report and mineral resource estimate in the TRS was completed by Nathan A. Barsi, P.Geo., UEC's District Geologist, Christopher J. Hamel, P.Geo., UEC's Vice President Exploration, Canada, and Roger M. Lemaitre, former CEO and President of UEX. Messrs. Barsi, Hamel and Lemaitre are Qualified Persons under Item 1302 of S-K 1300. The Horseshoe-Raven Project mineral resource estimate was determined using a cut-off grade of 0.05% U₃O₈. A total of 4,982,500 tonnes containing 23.6 million pounds of U₃O₈ at an average grade of 0.215% U₃O₈ have been estimated in the indicated mineral resource category for the Horseshoe Deposit. A total of 5,370,000 tonnes containing 13.8 million pounds of U₃O₈ at an average grade of 0.117% U₃O₈ have been estimated in the indicated mineral resource category for the Raven Deposit.

Table 1 – Horseshoe and Raven Deposits Mineral Resource Estimate at 0.05% U₃O₈ cut-off grade

Horseshoe Deposit Uranium Resource*				
Deposit	Category	Quantity (Tonnes)	Average Grade U₃O₈ (%)	Total lbs U₃O₈
Horseshoe	Indicated	4,982,500	0.215	23,594,000
Raven Deposit Uranium Resources*				
Deposit	Category	Quantity (Tonnes)	Average Grade U₃O₈ (%)	Total lbs U₃O₈
Raven	Indicated	5,370,000	0.117	13,832,400

Notes:

- 1) Indicated mineral resources as defined in 17 CFR § 229.1300 of S-K 1300.
- 2) Resources are reported as of October 31, 2022.
- 3) The point of reference for mineral resources is in-situ at the Project.
- 4) Mineral resources that are not mineral reserves do not have demonstrated economic viability.

The current mineral resource estimate includes the results from 715 diamond drill holes totalling 210,385 m which were drilled from 2005 to 2011. Mineralized wireframes of the Horseshoe and Raven Deposits were prepared at a 0.02% U₃O₈ mineralized threshold to constrain the mineral resource estimate at each deposit area. The estimate was completed by inverse distance weighting squared

algorithm using Datamine Studio RM software and utilized block sizes of 5 x 5 x 2.5 m for parent blocks and 0.25 x 0.25 x 0.25 m subcells. The impact of anomalously high-grade samples were controlled through a process of grade capping for all zones.

The mineral resource estimate primarily utilized uranium geochemical analyses from the Saskatchewan Research Council Geanalytical Laboratories in Saskatoon, Saskatchewan, obtained through Inductively Coupled Plasma Mass Spectroscopy (“ICP-MS”) for all samples with grades lower than 1,000 ppm U and using Inductively Couple Plasma Optical Emission Spectroscopy for samples determined by ICP-MS to contain uranium concentrations higher than 1,000 ppm U. Duplicate and independent check analyses were performed on approximately 5% of the mineralized assay database.

Summary capital and operating cost estimates are not included with the TRS since the Company is reporting the results of an initial assessment.

The TRS has been prepared and the technical information in this news release respecting the TRS has been reviewed by each of Nathan A. Barsi, P.Geo., UEC’s District Geologist, Roger M. Lemaitre, P.Eng., P.Geo., and Christopher J. Hamel P.Geo., Vice President Exploration, Canada, for the Company, all Qualified Persons under Item 1302 of S-K 1300.

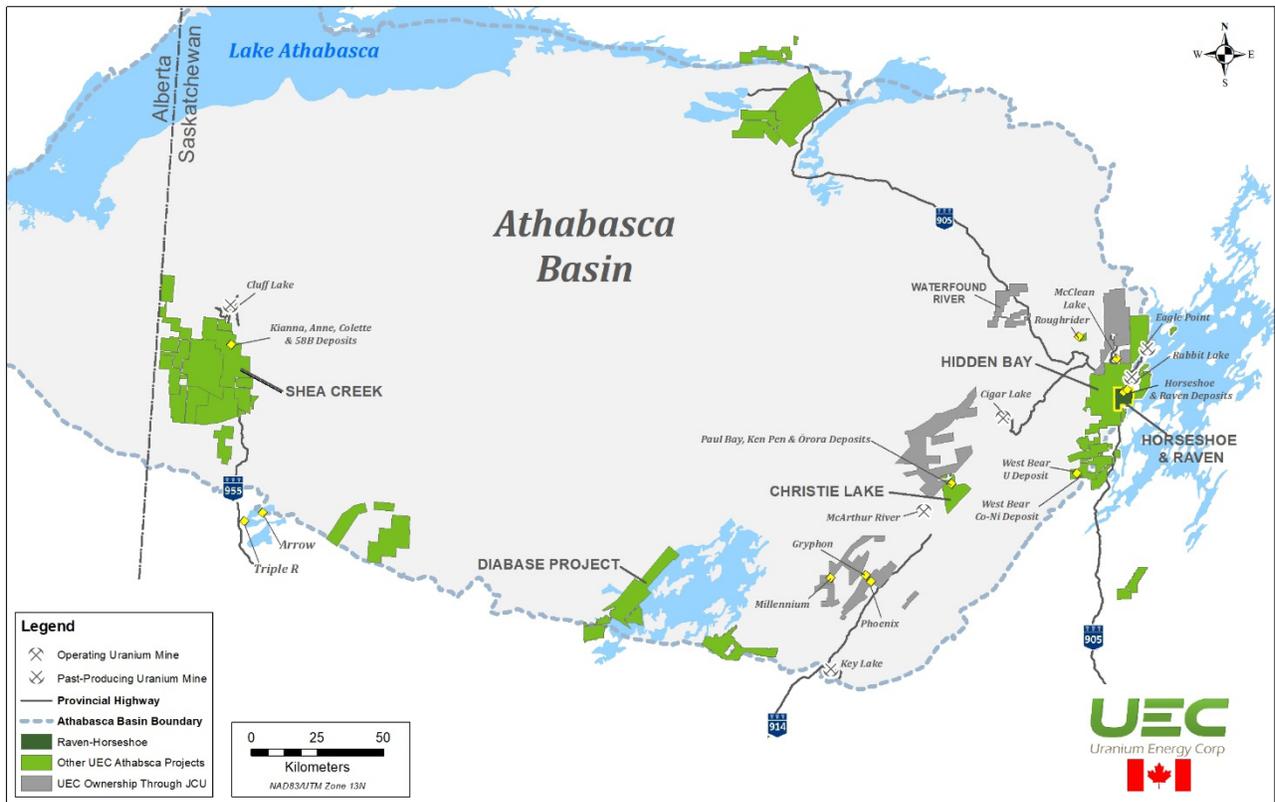


Figure 1 - UEC Athabasca Projects

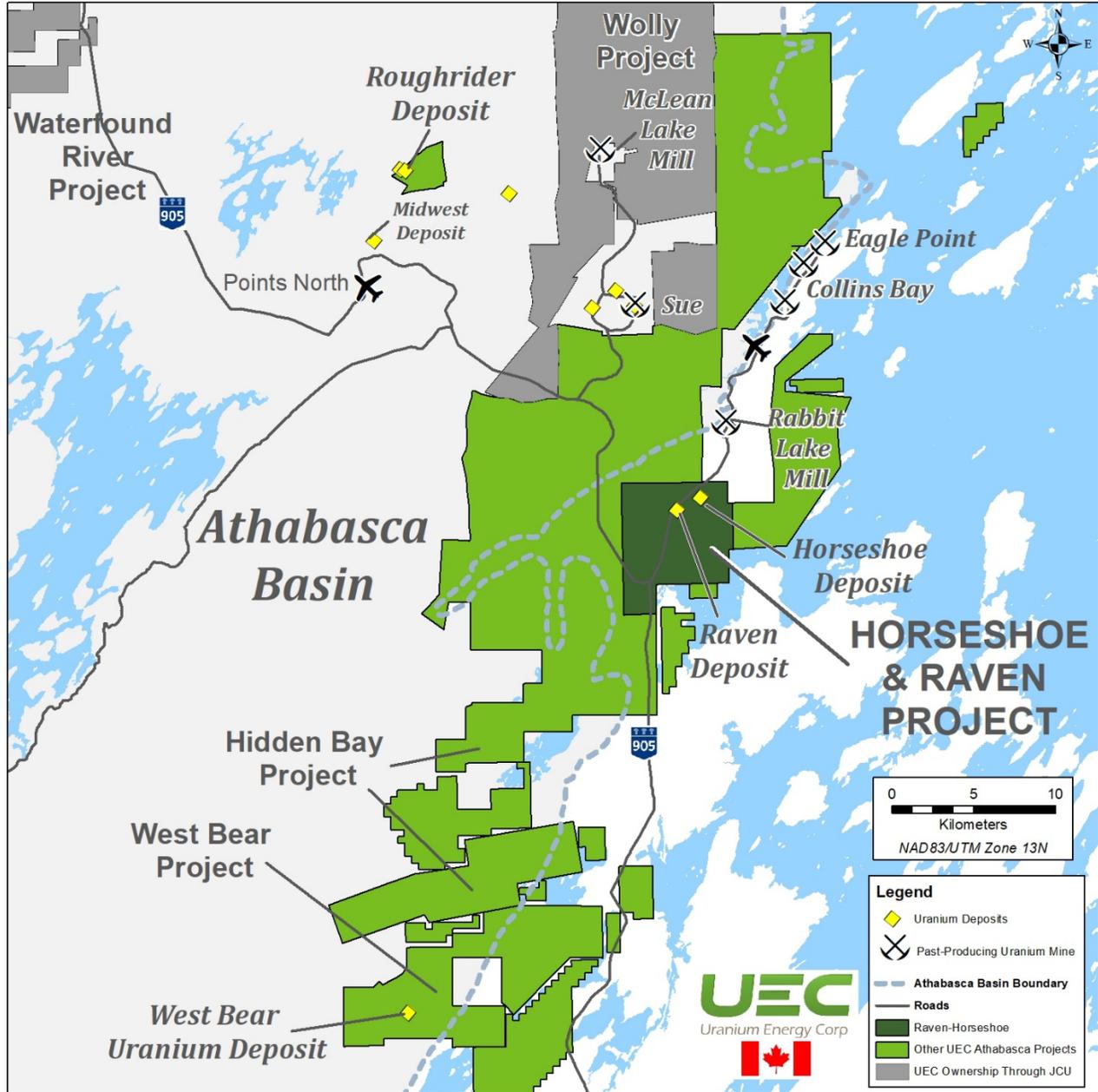


Figure 2 – Horseshoe-Raven Project

About Uranium Energy Corp

Uranium Energy Corp is the fastest growing supplier of the fuel for the green energy transition to a low carbon future. UEC is the largest, diversified North American focused uranium company, advancing the next generation of low-cost, environmentally friendly In-Situ Recovery (“ISR”) mining uranium projects in the United States and high-grade conventional projects in Canada. The Company has two production-ready ISR hub and spoke platforms in South Texas and Wyoming. These two production platforms are anchored by fully operational central processing plants and served by seven U.S. ISR uranium projects with all their major permits in place. Additionally, the Company has diversified uranium holdings including: (1) one of the largest physical uranium portfolios of North American warehoused

U₃O₈; (2) a major equity stake in Uranium Royalty Corp., the only royalty company in the sector; and (3) a Western Hemisphere pipeline of resource stage uranium projects. The Company's operations are managed by professionals with decades of hands-on experience in the key facets of uranium exploration, development and mining.

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as a result of new information, future events or otherwise. This news release shall not constitute an offer to sell or the solicitation of an offer to buy securities.