ASX Announcement

Released 20 October 2025

Infini To Accelerate Exploration at Reynolds and Reitenbach Lake Uranium Projects

Field program accelerated at Reynolds Lake and Reitenbach Lake following strong preliminary results from the September campaigns, including identification of visible uraninite[1] in outcrop - a highly significant find given its proximity to major EM, radiometric and structural anomalies along the eastern margin of the Athabasca Basin.

The September field program comprised of 773 soil and 148 rock samples taken across numerous targets, with scintillometer readings returning up to 65,550 cps[2].

A total of 6 samples >5,000 cps[2] were sent for rush order analysis, with results delayed due to the high levels of radioactivity of sample ID number K668386.

Multiple >10 km long conductors identified, coincident with radiometric anomalies and uranium-in-lake sediments along key structural corridors, indicating potential for shallow unconformity-style uranium mineralisation.

Follow-up field activities will include detailed mapping, focused sampling, and portable XRF (pXRF) analysis to refine the geological model and define drill-ready targets.

Field program at Reynolds and Reitenbach complementary to Infini's aggressive uranium exploration strategy, with Phase 2 drilling currently ongoing at the highly prospective Portland Creek Uranium Project.

Infini Resources Limited (ASX:I88) ("Infini" or the "Company") is pleased to advise that it is accelerating exploration across its 100%-owned Reynolds Lake and Reitenbach Lake uranium projects in Saskatchewan, Canada, with a follow-up field program scheduled to commence mobilisation in late October 2025.

This next phase of work is designed to build on the successful and highly encouraging progress from the September field programs, which delivered a breakthrough result at Reitenbach Lake, with the identification of a visible surface uraninite[1] showing at a previously undocumented outcrop (refer announcement 3 October 2025), and confirmed widespread anomalism at Reynolds Lake.

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[1] Cautionary Statement: In relation to the disclosure of visual mineralisation, the Company cautions that visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analysis where concentrates or grades are the factor of principal exonymic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations. The presence of uranium minerals, including uraninite, is based on field observations and scintillometer readings only. Refer to the Cautionary Statement.

[2] Cautionary Statement: In relation to handheld scintillometer readings, the Company cautions that measurements of radioactivity from scintillometer readings are preliminary in nature and should not be considered a proxy or substitute for quantitative analysis of a laboratory assay result. While scintillometers confirm the presence of radioactivity, it does not accurately determine elemental uranium concentrations and can also be influenced by the presence of thorium and potassium.

Infini's Chief Executive Officer, Rohan Bone, said: *"Since acquiring these projects in H1 CY2025, we are moving quickly to build on the success of our September field programs at Reynolds and Reitenbach Lake Uranium Projects. The importance of discovering visible uraninite, coupled with widespread radiometric anomalies aligned with major geological structures in one of the world's most prolific uranium jurisdictions, cannot be overstated. This next phase of work is designed to advance our understanding of the geological setting and to define drill-ready targets. Infini continues to advance multiple projects in parallel as we strive to execute our strategy of delivering high-impact uranium discoveries in tier-one jurisdictions."*

Program Rationale and Objectives

Preliminary results from the September field programs suggest the potential of uranium-bearing systems across both properties, highlighting multiple scintillometer "hotspots"[3] aligned with major geological structures, EM conductors, and radiometric anomalies. These findings have compelled Infini to accelerate its exploration schedule and immediately advance priority areas toward drill readiness.

The follow-up program will:

- Conduct detailed geological mapping and structural analysis within key anomalous corridors;
- Undertake focused rock and soil sampling across high-response scintillometer zones; and
- Utilise portable XRF (pXRF) technology to provide in-field geochemical screening and improve vectoring toward mineralisation.

This focused work will refine the geological model, enhance understanding of potential mineralisation controls, and directly support the definition of high-confidence drill targets.

Next Steps for Accelerated Field Program

Mobilisation for the follow-up field program is scheduled for late October 2025, with field activities to continue for a number of weeks ahead of the onset of winter conditions. All new samples will be dispatched to ALS Laboratories for assay upon completion.

Assay results from this accelerated field program are expected in Q1 CY2026. Assay results together with field interpretations from the field programs will underpin the definition of drill targets across the highest-priority structural and geochemical zones identified to date.

Update on September Field Program Assays

Assay results from the September field programs conducted at Reynolds Lake and Reitenbach Lake, based on over 900 soil and rock samples, are expected later in Q4 CY2025.

Six samples with handheld scintillometer readings greater than 5,000 cps[2] (K668349, K668405, K668350, E812441, K665300 and K668386) were selected for expedited assaying at ALS Laboratories. However, it was identified during pre-screening of the samples that sample ID K668386 was deemed too radioactive to be expedited and requiring the adherence to strict safety protocols, resulting in delays to the expedited assay results.

[3] Hotspots are defined as field station locations where handheld scintillometer readings greater than 1,000 counts per second (cps) were recorded (refer announcement 3 October 2025) and as illustrated in Figure 1.

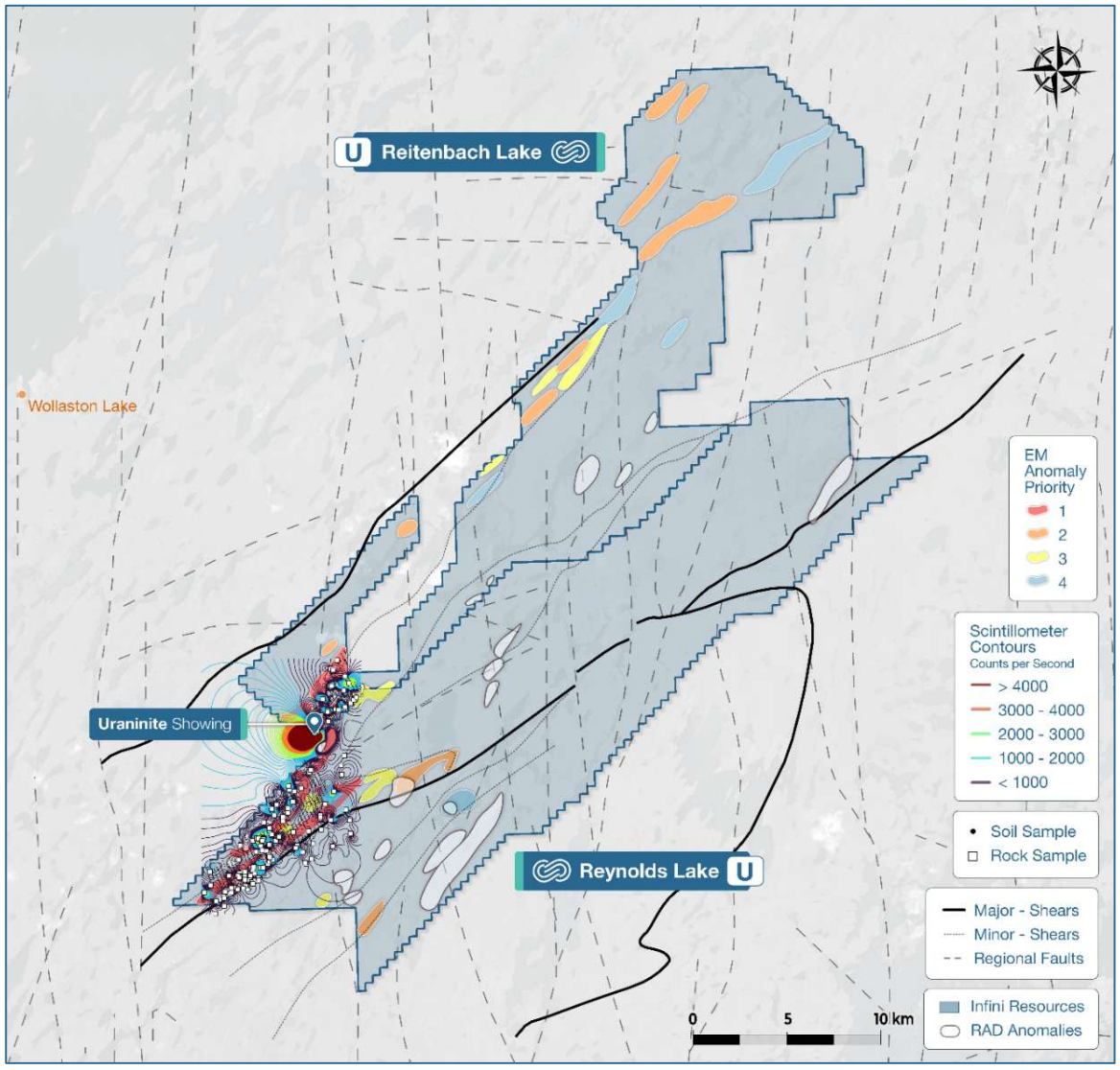

Figure 1: Results from the field program at Reynolds Lake and Reitenbach Lake highlighting coincidence of scintillometer reading[2] hotspots[3] with EM anomalies, RAD anomalies and key interpreted geological structures.

Figure 2: Identification of visible disseminated uraninite[1] showing at Reitenbach Lake (sample site 25RNBP083, 623459E, 6423998N, UTM Zone 13), with scintillometer readings up to 67,550 cps[2]. (<= 10% visual estimate of uraninite[1]) (refer announcement dated 3 October 2025).

Cautionary Statements

In relation to the disclosure of visual mineralisation, the Company cautions that visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analysis where concentrates or grades are the factor of principal exonymic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations The presence of uranium minerals, including uraninite, is based on field observations and scintillometer readings only. These indicators are preliminary in nature and should not be considered a substitute for laboratory analysis. The identification of uranium mineralisation remains conceptual until confirmed through geochemical assay and mineralogical reporting from accredited laboratories.

In relation to handheld scintillometer readings, the Company cautions that measurements of radioactivity from scintillometer readings are preliminary in nature and should not be considered a proxy or substitute for quantitative analysis of a laboratory assay result. While scintillometers confirm the presence of radioactivity, it does not accurately determine elemental uranium concentrations and can also be influenced by the presence of thorium and potassium.

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Release authorised by the Board of Infini Resources Ltd.

Contacts

Rohan Bone
Chief Executive Officer
E: info@infiniresources.com.au

About Reynolds Lake & Reitenbach Lake

The Reynolds Lake and Reitenbach Lake Uranium Projects collectively comprise 19 mineral claims covering a total footprint of 677 km² on the eastern outboard margin of the Athabasca Basin in northern Saskatchewan. The projects are contiguous, with Reynolds Lake consisting of 12 claims (386 km²) and Reitenbach Lake consisting of 7 claims (291 km²) adjoining its northern boundary.

The properties are underlain by Archean to Paleoproterozoic metamorphic and igneous rocks and are bisected by the crustal-scale Needle Falls Shear Zone, a major structural corridor separating the Wollaston Domain to the west from the Peter Lake Domain to the east. The Wollaston Domain is dominated by Paleoproterozoic siliciclastic metasediments including paragneiss, quartzite, and calc-silicate units, while the Peter Lake Domain contains Archean to Paleoproterozoic granitoid gneisses and supracrustal rocks. Both domains are strongly deformed and metamorphosed, with northeast-trending isoclinal folding and later cross-cutting north–south fault systems that provide structural complexity and potential pathways for hydrothermal fluid flow.

Graphitic schists and gneisses — key lithologies known to host unconformity-associated uranium mineralisation — have been identified within the project area. These are spatially associated with electromagnetic conductors, radiometric anomalies, and elevated uranium-in-lake sediment samples. Regionally, the geological setting is considered analogous to uranium systems at Eagle Point and Rabbit Lake, where mineralisation occurs along graphitic shear zones at the boundary between Wollaston metasediments and granitoid basement.

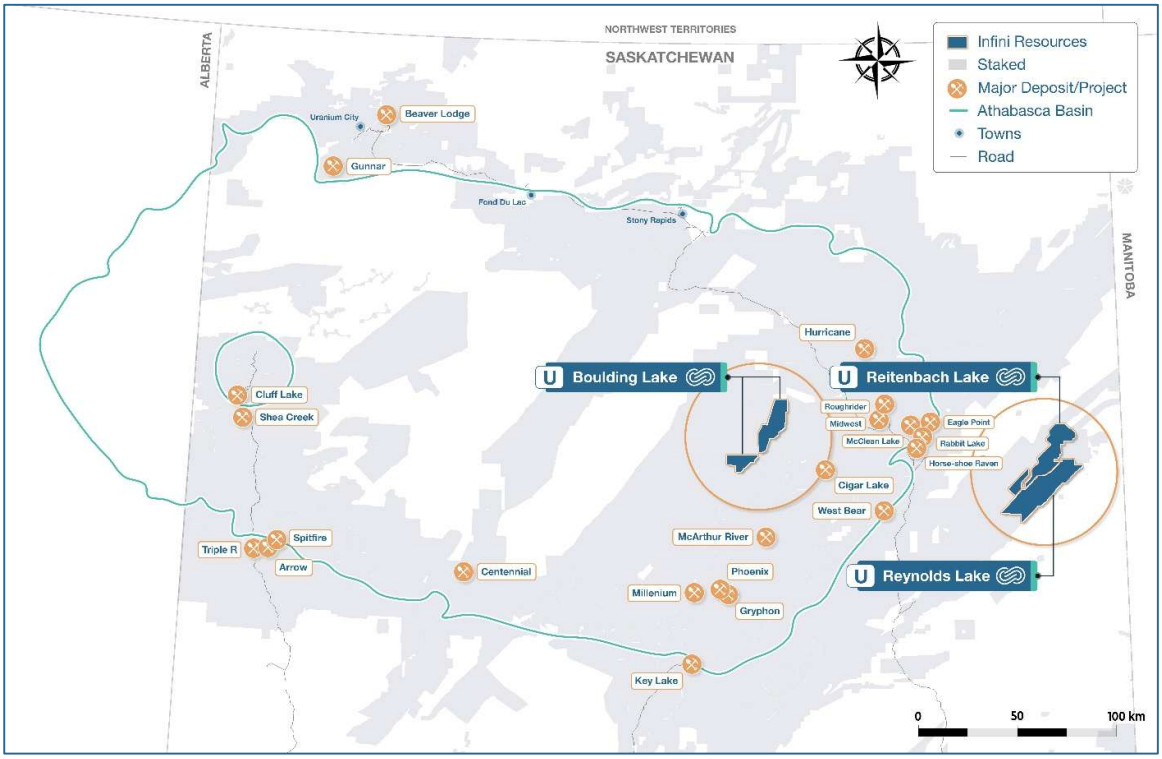

Figure 3: Location of the Reynolds Lake Uranium Project and Reitenbach Uranium Project relative to the world-renowned Athabasca Basin, synonymous with high-grade uranium deposits, and in close proximity to existing operations, access and infrastructure.

About Infini Resources Ltd (ASX: I88)

Infini Resources Ltd is an Australian energy metals company focused on mineral exploration in Canada and Western Australia for uranium and lithium. The company has a diversified and highly prospective portfolio of assets that includes greenfield and more advanced brownfield projects. The company's mission is to increase shareholder wealth through exploration growth and mine development.

JORC 2012 Mineral Resource Deposit	JORC 2012 Classification	Tonnes and Grade
Des Herbiers (U)	Inferred Combined Resource	162 Mt @ 123ppm U_3O_8 (43.95mlb)

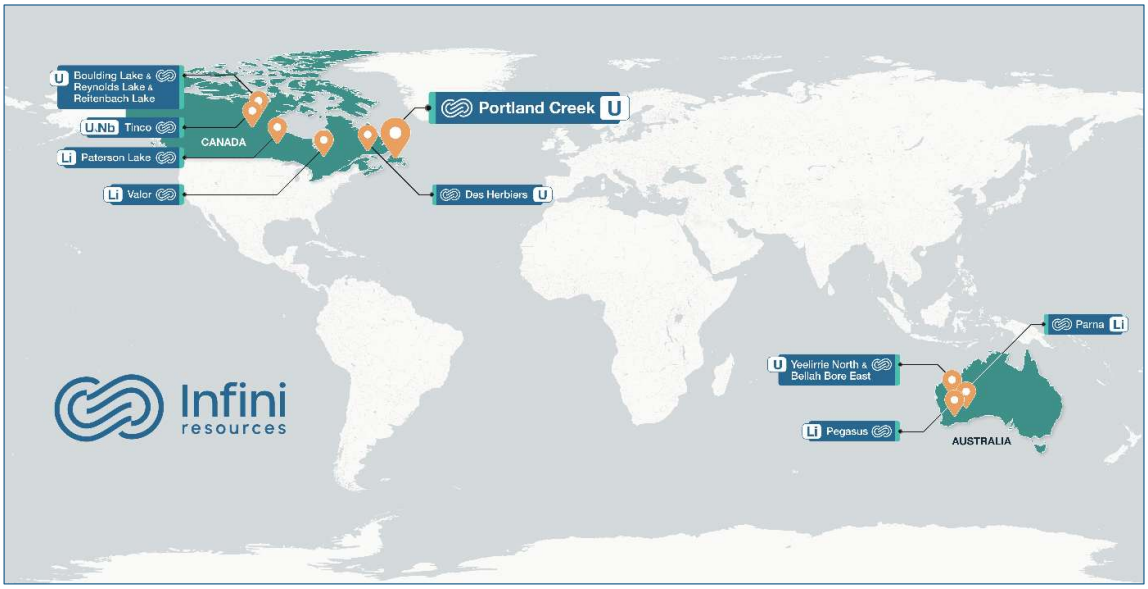

Figure 4: Overview of Infini's portfolio of projects and global footprint.

Compliance Statement

This announcement contains information on the Reynolds Lake Uranium Project and the Reitenbach Lake Uranium Project extracted from ASX market announcements dated 25 February 2025, 31 March 2025, 24 July 2025, 20 August 2025, 9 September 2025, 22 September 2025, 2 October 2025 and 3 October 2025 reported in accordance with the 2012 edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (JORC Code). The original market announcements are available to view on www.infiniresources.com.au and www.asx.com.au. The Company is not aware of any new information or data that materially affects the information included in the original market announcement.

This announcement contains information regarding the Des Herbiers Mineral Resources Estimate extracted from the Company's Prospectus dated 30 November 2023 and released to the ASX market announcements platform on 10 January 2024, reported in accordance with the 2012 edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (JORC Code). The Company confirms that it is not aware of any new information or data that materially affects the information included in any original announcement and that all material assumptions and technical parameters underpinning the estimates in the original market announcement continue to apply and have not materially changed. The original market announcements are available to view on www.infiniresources.com.au and www.asx.com.au.

Forward Looking Statements

This announcement may contain certain forward-looking statements and projections. Such forward looking statements/projections are estimates for discussion purposes only and should not be relied upon. Forward looking statements/projections are inherently uncertain and may therefore differ materially from results ultimately achieved. Infini Resources Limited does not make any representations and provides no warranties concerning the accuracy of the projections and disclaims any obligation to update or revise any forward-looking statements/projects based on new information, future events or otherwise except to the extent required by applicable laws. While the information contained in this report has been prepared in good faith, neither Infini Resources Limited or any of its directors, officers, agents, employees or advisors give any representation or warranty, express or implied, as to the fairness, accuracy, completeness or correctness of the information, opinions and conclusions contained in this announcement.