ASX Announcement

Released 9 September 2025

Commencement of Maiden Field Program at Reynolds Lake Uranium Project

- **Field program underway at Reynolds Lake, consisting of systematic soil sampling of priority targets, rock chip sampling and geological mapping.**
- **Multiple large-scale electrical conductors (largest >10 km long) coincident with radiometric anomalies and anomalous lake sediments identified along key structural corridors, indicating potential for shallow unconformity-style uranium mineralisation on the outboard edge of the Athabasca Basin.**
- **Approximately 1,600 soil and rock-chip samples planned to be collected throughout the field program.**
- **Program designed to advance the highest-priority targets to drill-ready status for a potential Phase 1 drill program at Reynolds Lake in 2026.**
- **Timing of the Reynolds Lake field program complementary to Infini's upcoming Phase 2 drilling campaign at the Portland Creek Uranium Project, with mobilisation of geology and drill teams currently underway.**

Infini Resources Limited (ASX:I88) ("Infini" or the "Company") is pleased to advise that the field program has commenced at its Reynolds Lake Uranium Project in the Athabasca Basin, Saskatchewan, Canada.

Objectives of Reynolds Lake Field Program

The field program will run over several weeks and is focused on advancing multiple high-priority exploration target areas. Work will include geological mapping and prospecting, with scintillometer and magnetic susceptibility readings taken across the target sample sites.

A key component of the program is the collection of up to approximately 1,600 soil and rock-chip samples. Analytical results from sample assays are expected to further refine the Company's exploration model.

The scope of work being conducted during the field program includes:

- Soil sampling on systematic grids across anomaly zones;
- Rock chip sampling of outcropping uranium-bearing lithologies and glacial boulders;
- Geological mapping to confirm shear zones and fault structures;
- Using portable XRF devices (pXRF) in the field to guide the fieldwork programs; and
- Submitting samples for laboratory analysis using industry-standard methods for uranium and pathfinder elements.

The field program is expected to be completed in September 2025, with assay results anticipated in Q4 CY2025. The Company looks forward to updating shareholders on progress and results as they become available.

Infini's Chief Executive Officer, Rohan Bone, said: *" The commencement of the Reynolds Lake field program marks an important step for Infini. Our geophysical interpretation has highlighted large-scale EM conductors that could represent uranium mineralisation potentially as shallow as 20 metres below surface — a highly significant development in an underexplored area on the outer edge of the Athabasca Basin. This program will generate the detailed geological and geochemical data we need to refine these targets into drill-ready prospects, and we see a clear opportunity here to make a discovery that could rapidly transform the scale of Reynolds Lake."*

Figure 1: Fly camp set up at Reynolds Lake upon commencement of the field program.

Recap of the Reynolds Lake Study Results

The integrated review of available datasets has highlighted 14 target areas across the Reynolds Lake project, illustrated in Figure 2 below. Key findings include:

- Lake sediment geochemistry: historic data reveal numerous anomalous uranium values, many of which coincide with favourable structural corridors.
- Radiometrics: regional airborne surveys highlight distinct uranium-channel responses associated with interpreted fault structures.
- TDEM geophysics: multiple large scale EM conductors have been mapped, several of which overlap with geochemical and radiometric anomalies, suggesting potential zones of structurally controlled mineralisation.
- Structural interpretation: has identified broad shear zones and cross-cutting N–S trending faults throughout the project area. These structures are interpreted as potential conduits for

mineralising fluids and represent high-priority zones for on-ground exploration.

Together, these datasets provide a compelling, multi-layered exploration model for Reynolds Lake.

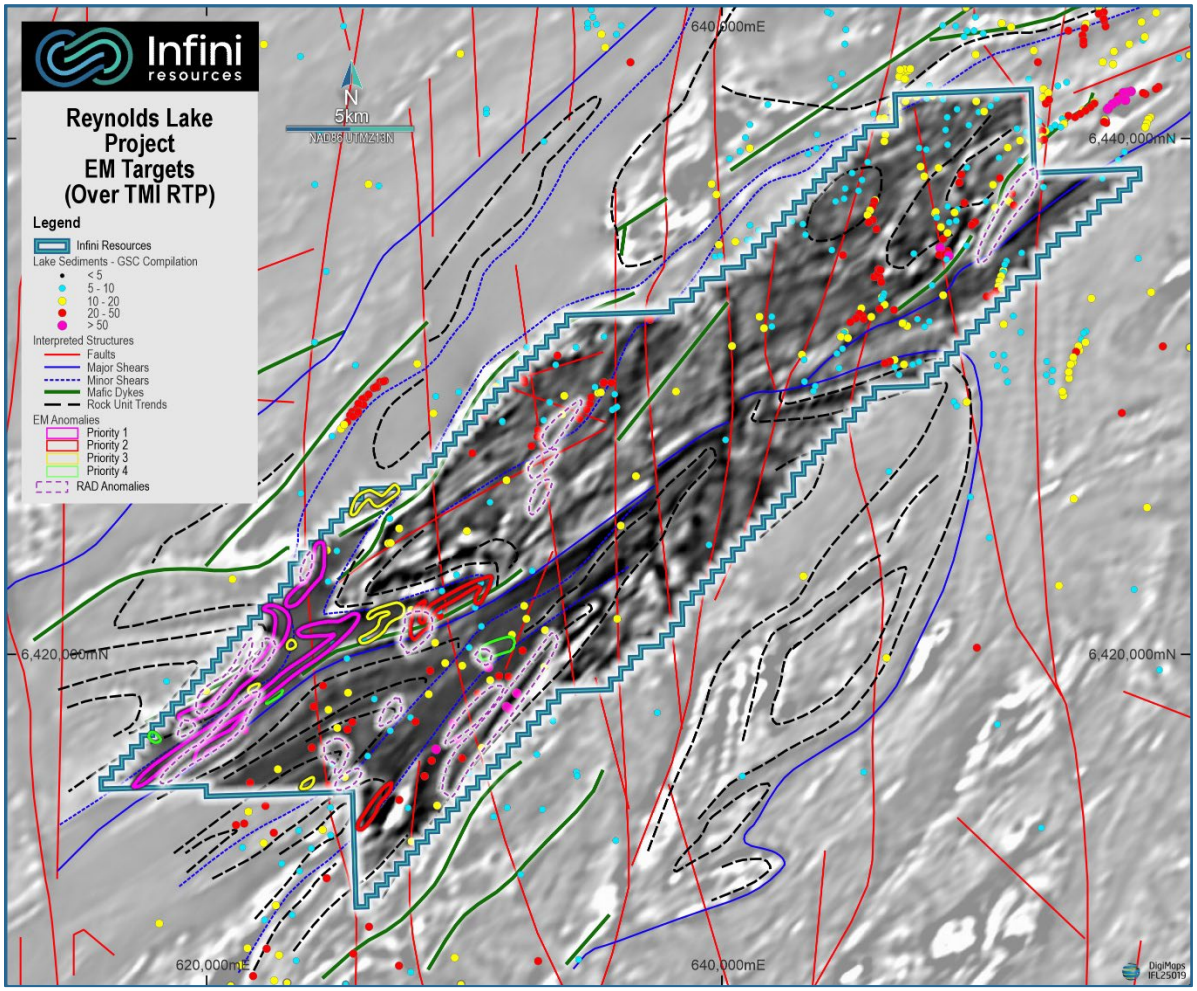

Figure 2: Reynolds Lake magnetic image overlaid with interpreted structures, lake sediment geochemistry, radiometric anomalism and EM targets. Note coincidence of EM targets with interpreted shears, N-S faults and radiometric anomalism.

About Reynolds Lake Uranium Project

The Reynolds Lake Uranium Project, as shown in Figure 3, comprises 12 claims covering 386 km², located on the eastern outboard edge of the Athabasca Basin in northern Saskatchewan — a benchmark region globally renowned for high-grade uranium. The property lies approximately 40 km east of the community of Wollaston Lake. It is flanked by the Keeping Lake Project to the north and the Jewison Lake Project to the south.

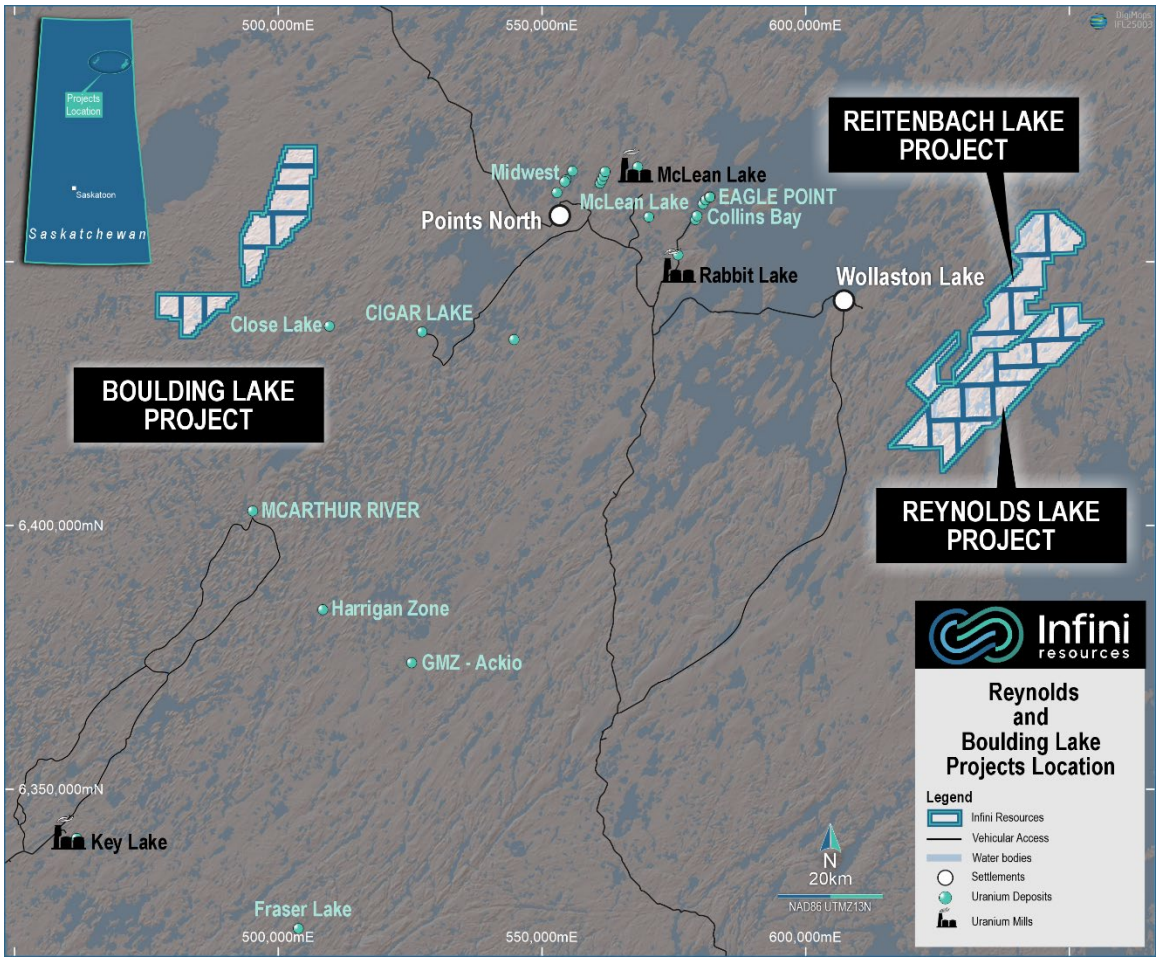

Figure 3: Location of the Reynolds Lake Uranium Project relative to the world-renowned Athabasca Basin, synonymous with high-grade uranium deposits, and in close proximity to existing operations, access and infrastructure.

Exploration outside the basin margin is driven by evidence that the geological conditions necessary for unconformity-type deposit formation — namely, reactivated basement structures, graphitic metasedimentary rocks, and the presence of oxidised hydrothermal fluids — extend beyond the current limits of Athabasca sandstone cover.

The Reynolds Lake Project is underlain by Archean felsic gneisses, which are overlain by a sequence of Lower Proterozoic metamorphic rocks of the Wollaston Domain. This sequence includes quartzite, mafic gneiss, meta-arkose, and calc-silicate units. The structural fabric of the area is dominated by northeast-trending isoclinal folding. A major structural feature, the Needle Falls Shear Zone, transects the project area with a northeast-southwest orientation. Graphitic schists and gneisses — critical host rocks for unconformity-type uranium mineralisation — have been identified at several locations across the property.

References

1. ASX Release, Infini Resources, *Further Priority Targets Identified at Reynolds Lake Uranium Project*, 20 August 2025.
2. ASX Release, Infini Resources, *Major Bedrock Conductors Identified at Reynolds Lake Uranium Project*, 24 July 2025.
3. ASX Release, Infini Resources, *Infini to Acquire Major Footprint in Athabasca Basin*, 25 February 2025.

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Release authorised by the Board of Infini Resources Ltd.

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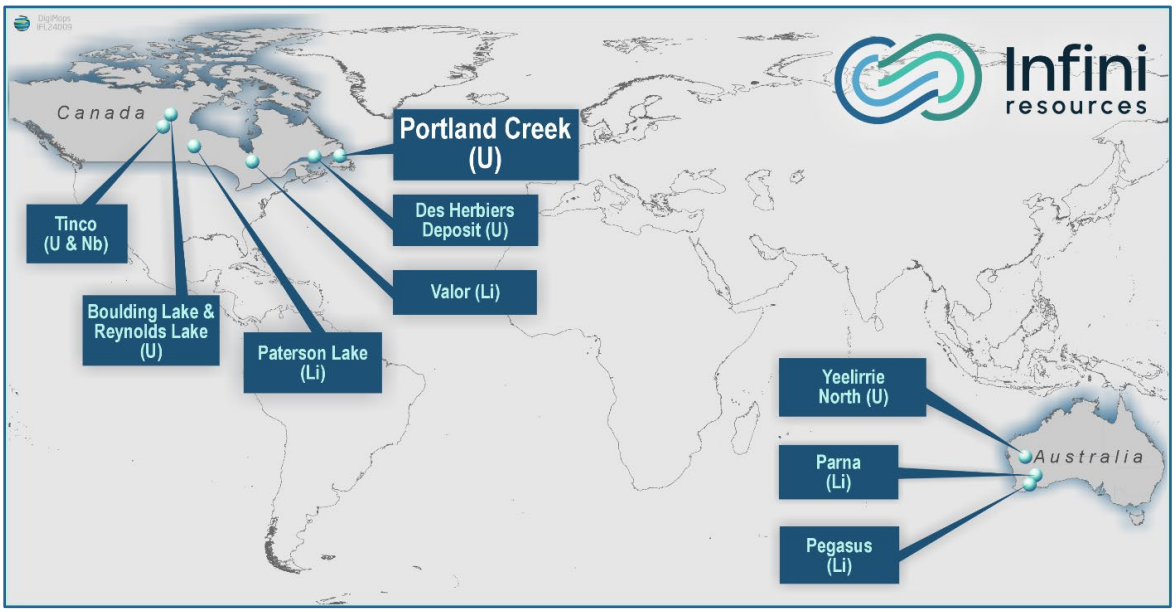
About Infini Resources Ltd (ASX: I88)

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.

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



Compliance Statement

This announcement contains information on the Reynolds Lake Uranium Project extracted from ASX market announcements dated 25 February 2025, 31 March 2025, 24 July 2025 and 20 August 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.

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