



Alligator Energy

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Alligator Energy Ltd

Media Release

Samphire Uranium Project – Field Recovery Trial consultation period

South Australia, 29 August 2023 – Alligator Energy (ASX:AGE - Alligator) has applied to the SA Department for Energy and Mining (DEM) for a Retention Lease to conduct a pilot Field Recovery Trial at its Samphire Uranium Project, located approximately 20km south of Whyalla on the Eyre Peninsula.

On Wed 23rd August the DEM commenced a public review and consultation period for this application, and we have included a link below directly to the DEM website page which hosts the Retention Lease and Field Recovery Trial submission documents.

[Samphire Uranium Project | Energy & Mining \(energymining.sa.gov.au\)](https://energymining.sa.gov.au)

Alligator is proposing to undertake a short-term (approximately 3 months) small-scale Field Recovery Trial in early 2024 to test the use of the In-Situ Recovery (ISR) method for the project. ISR is a method used in approximately 55% of the world's uranium production and has been used safely at other uranium mines in north-east South Australia since 1998.

The method involves extracting uranium by circulating the hypersaline groundwater from 65 to 80m depth (location of uranium bearing sands) in a closed loop to surface while testing the ability to extract the uranium in-situ. A dilute acid and oxidant are introduced to dissolve the uranium into the hypersaline groundwater, which is then pumped to the surface and the uranium is removed in a processing plant. Monitoring wells surround the injection/recovery wells to demonstrate the return of groundwater to neutral conditions.

ISR is known for its low visual impact – there is no digging or moving tons of rock or dirt that can occur in open cut or underground mining. The trial is proposed to take place on approximately two hectares of land and would consist of three rings of injection and recovery wells.

While this pilot test work does not guarantee the project will proceed, it is a step in determining future outcomes. If successful, Alligator intends to undertake a Feasibility Study in 2024, with all activity requiring further State and Federal Government approvals, and the securing of project financing amongst other key matters, before a mine could be developed.

Alligator Energy CEO, Greg Hall, said “The pilot Field Recovery Trial will look at many of the previously bench-scale tested and modelled technical, hydrogeological, environmental and economic aspects of the Project, and provide important input into our planned Feasibility Study.”

Alligator is committed to developing and maintaining genuine relationships with the local community and has been undertaking engagement activities since 2020. Mr Hall said: “We greatly appreciate the questions and feedback from stakeholders during our meetings with community during presentations, drop-in sessions and individual meetings. We will continue to listen and provide many opportunities to meet with the team and talk about the project and our environmental management practices.”

Further information regarding the Samphire Project can be found at alligatorenergy.com.au/projects/samphire or email any questions to feedback@alligatorenergy.com.au

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Contacts

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About Alligator Energy Alligator Energy Ltd is an Australian development and exploration company focused on uranium and energy related minerals. The Alligator Energy leadership team has significant uranium operations experience, and the Company’s projects include two uranium projects in South Australia (the Samphire Project, and Big Lake in northern SA), the Alligator Rivers uranium project (Northern Territory), and a cobalt-nickel focused project in Piedmont, Italy.