

Date: 19 September 2023

ASX Code: MAN

Capital Structure

Ordinary Shares: 598,759,920
Current Share Price: 3.9c
Market Capitalisation: \$23.3M
Cash: \$16.8M (June 2023)
EV: \$6.5M
Debt: Nil

Directors

Lloyd Flint
Non-Executive Chairman
Company Secretary

James Allchurch
Managing Director

Roger Fitzhardinge
Non-Executive Director

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Progress - Utah Lithium Project

Highlights

- **Permitting is well advanced for the re-entry of two wells to sample lithium brine at the 100%-owned, large-scale, Utah Lithium Project**
- **Bureau of Land Management (BLM) has completed a site visit as part of the review of Mandrake's Notice of Intent (NOI)**
- **Re-entry operations are low impact - the use of existing drill pad, access roads and well bore**
- **Drilling workplan and detailed engineering planning is complete**
- **Mandrake fully funded - \$16.8M (as at June 2023)**

Mandrake Resources Limited (ASX: MAN) (Mandrake or the Company) is pleased to announce that permitting for the re-entry of two wells at the 93,755 acre (approximately 379 km²) Utah Lithium Project in the Paradox Basin is well advanced.

The re-entry of two wells to facilitate sampling of lithium brines from up to seven different zones in each wellbore is highly cost effective when compared to the drilling of a new well. Moreover, the utilisation of existing wellbores, drill pads and access roads involves minimum environmental impacts and ensures that a higher level of permitting is not triggered.

A detailed Notice of Intent (NOI), which documents the proposed activities, is currently under review by the Bureau of Land Management (BLM) who last week completed a site visit with Mandrake staff as part of their review process.

The NOI has also been submitted to the Utah Division of Oil, Gas and Mining (UDOGM) for review.

Detailed drilling workplans have been completed for both wells, as has detailed well engineering and sampling programmes.

It is anticipated that lithium brines derived from the targeted zones will be subjected to both comprehensive analytical testing (to determine concentrations of lithium as well as other elements/compounds of interest) and preliminary Direct Lithium Extraction (DLE) trialing.

Detailed discussions with several DLE providers are underway.

Managing Director James Allchurch commented:

"Mandrake is well advanced with permitting at the Utah Lithium Project with the Company confident that, due to the re-use of existing infrastructure at the well sites and thus small environmental footprint, operations can get underway relatively shortly."

Sampling of up to seven zones per re-entered well will provide a huge amount of information that will potentially feed into a lithium Resource calculation and provide enough brine material to conduct preliminary DLE testing."

Having a large 93,755 acre land position ensures that, in the event of sampling success, the Utah Lithium Project will emerge as a significant US-based lithium play".

Paradox Basin, USA

The Paradox Basin in the south-eastern Utah 'lithium four corners' area hosts hypersaline brines historically documented to contain significant concentrations of lithium, potassium salts (potash), bromine, boron and other elements. The Paradox Basin hosts the Cane Creek potash mine operated by Intrepid Potash (NYSE: IPI) (the United States' biggest potash producer) and the operations of mid-tier ASX-listed lithium developer Anson Resources (ASX: ASN) who has an existing JORC Mineral Resource of 1.04Mt of Lithium Carbonate Equivalent (LCE) and 5.27Mt of Bromine¹.

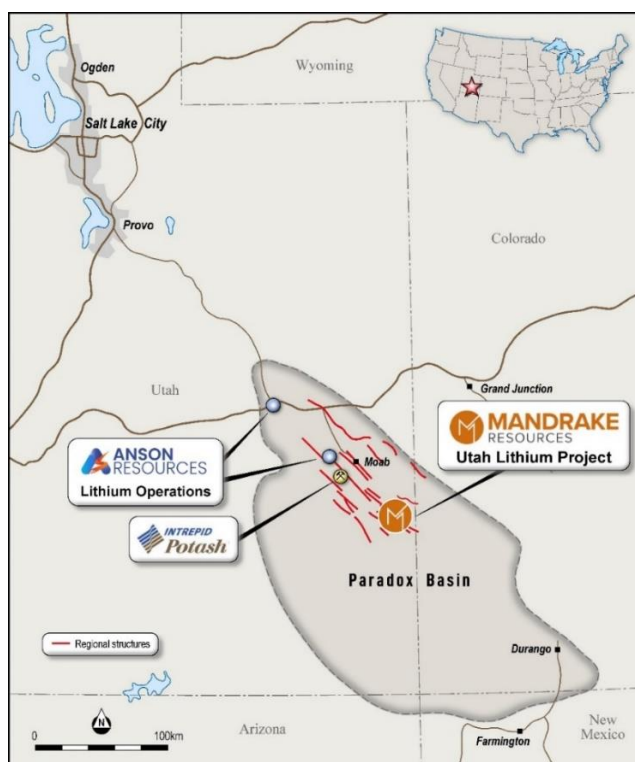


Figure 1: Location of the Utah Lithium Project

¹ ASN ASX release dated 2 November 2022

Competent Persons Statement

The information related in this announcement has been compiled and assessed under the supervision of Mr James Allchurch, Managing Director of Mandrake Resources. Mr Allchurch is a Member of the Australian Institute of Geoscientists. He has sufficient experience that is relevant to the information under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the JORC Code. Mr Allchurch consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

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