ASX RELEASE

23 October 2023
ASX: JRL
OTC: JNDAF

FIRST RESULTS FROM METALLURGICAL TESTWORK AT McDERMITT LITHIUM PROJECT

- **Head assays received for McDermitt metallurgical samples being tested at Hazen (US) and managed by Fluor**
- **Head assays average 1790 ppm Li, 34% higher than average McDermitt resource grade (Indicated and Inferred) of 1340 ppm Li[1]**
- **Benefication currently underway expected to further increase head grade prior to acid leach testwork**

Jindalee Resources Limited (**Jindalee**, the **Company**) is pleased to advise initial head assay results have been received for metallurgical samples from Jindalee's 100% owned McDermitt Lithium Project in Oregon, USA (**McDermitt, Project**).

These samples average 0.179% Li (1790 ppm) (Table 1), 34% higher than the average grade of the current McDermitt Indicated and Inferred resource grade of 0.134% Li (1340 ppm)[1], suggesting excellent potential to process shallow, higher grade ore early in the mine life, with positive implications for Project economics.

Sample	Head Assays (wt %)								
	Li	As	Ce	La	Mn	Mo	Sr	Y	Zn
Unit 4	0.204	0.007	0.005	0.002	0.064	<0.001	0.038	0.003	0.019
Unit 6	0.205	<0.005	0.005	0.002	0.060	<0.001	0.038	0.003	0.018
Unit 8	0.152	<0.005	0.005	0.002	0.061	<0.001	0.035	0.003	0.020
Unit 10	0.155	<0.005	0.005	0.002	0.067	<0.001	0.034	0.003	0.017
Average	**0.179**	**<0.005**	**0.005**	**0.002**	**0.063**	**<0.001**	**0.036**	**0.003**	**0.018**

Table 1. Head Assays from McDermitt metallurgical samples (rounded to 3 significant decimal places).

Discussion

In March 2023 Jindalee announced that global engineering, procurement, construction and maintenance (**EPCM**) company Fluor Corporation (NYSE: FLR) (**Fluor**) had reviewed metallurgical testwork undertaken at McDermitt and had determined that acid leaching with ore beneficiation (to upgrade the leach head grade) delivered the lowest operating costs and best financial outcome among the alternatives considered[2].

Fluor also noted that the very large Mineral Resource at McDermitt (21.5 Mt LCE, Table 2)[1] allows flexibility in development, providing the opportunity to optimise mining and feed higher grade ore early in the mine life and recommended that a comprehensive metallurgical testwork program be undertaken to provide information upon which the preferred flowsheet for the processing of McDermitt ore can be defined.

Jindalee Resources Limited
ABN 52 064 121 133
Level 2, 9 Havelock Street, West Perth, WA 6005
PO Box 1033, West Perth, WA 6872

www.jindalee.net
E: enquiry@jindalee.net
P: +61 8 9321 7550
F: +61 8 9321 7950

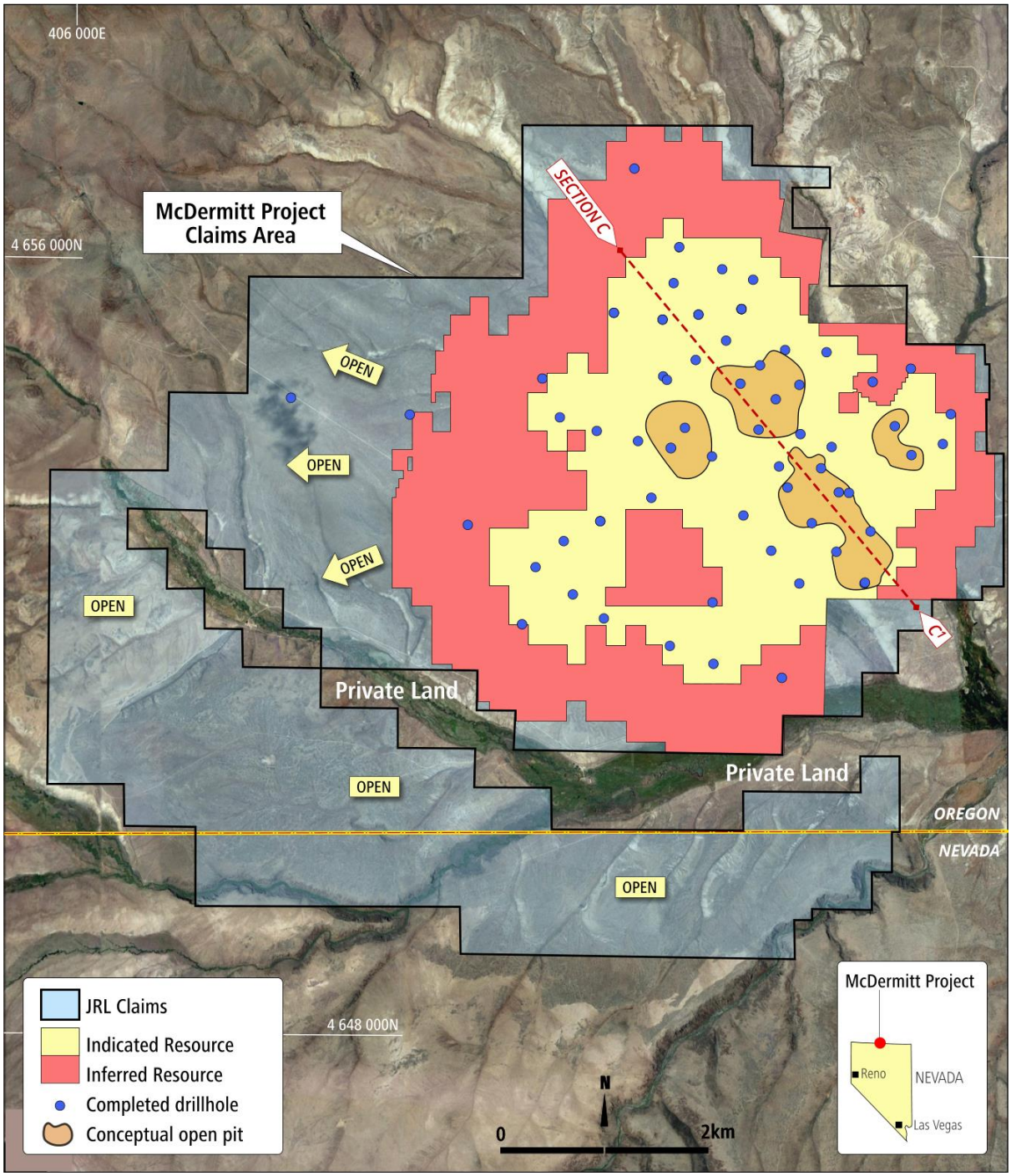

Figure 1 - Plan view of the McDermitt Lithium Project with 2023 Mineral Resource[1] (at 1523mRL), completed drilling, Section C-C' & schematic conceptual pit shells (Pit Shell 5: 0-20 Yr).

Jindalee's geological team has recently relogged all holes drilled at McDermitt and this work has resulted in the recognition of up to 12 distinctive stratigraphic units which can be tracked across the Project (Figure 2). Four of these units (Units 4, 6, 8 and 10) carry elevated lithium grades and selective mining of these units has the potential to deliver higher grade material for processing.

In June 2023 leading mine engineering group Cube Consulting generated conceptual pit shells using the McDermitt MRE geological model (Figures 1 & 2) to assist with selection of samples for the metallurgical testwork program, which is being managed by Fluor[3]. Samples from Units 4, 6, 8 and 10 within the Indicated portion of Pit Shell 5 (nominal 20 years) were selected and approximately 700kg of drill core was despatched to consultant metallurgists Hazen for testing, with initial results from this work now being reported.

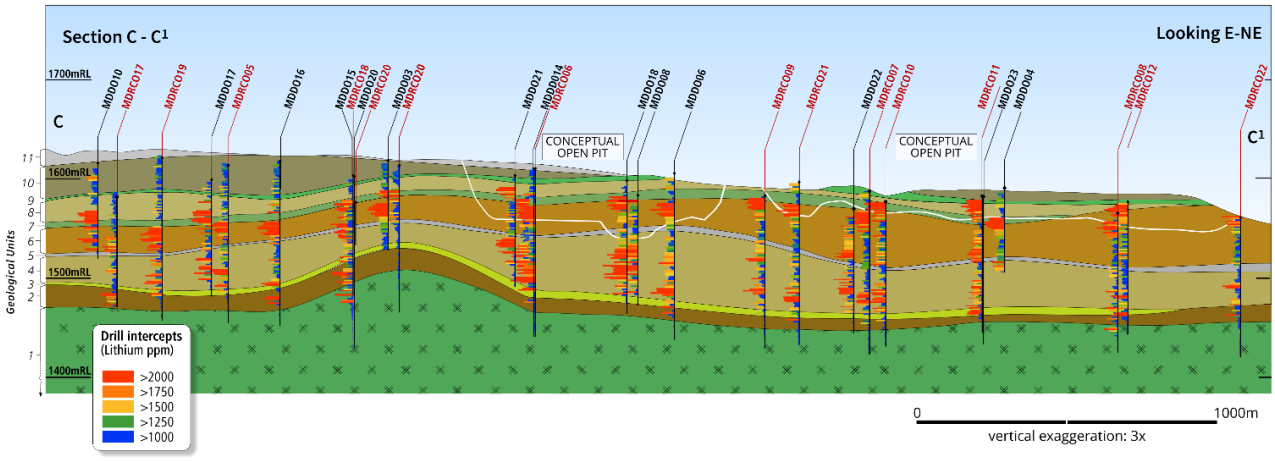

Figure 2 – Schematic Section C-C' with completed drilling, simplified geology & conceptual pit shells (Pit Shell 5: 0-20 Yr) (Note: lateral projection onto section plane & 3x vertical exaggeration may cause distortion).

Next Steps

Results from Particle Size Distribution testwork on the samples are being reviewed and attrition scrubbing to beneficiate the ore and separate the lithium rich finer grained fractions prior to acid leaching is currently underway, with results to be reported once available.

Authorised for release by the Board of Jindalee Resources Limited.

For further information please contact:

LINDSAY DUDFIELD
Executive Director and CEO
T: + 61 8 9321 7550
E: enquiry@jindalee.net

Cut-off Grade (ppm Li)	Indicated Resource			Inferred Resource			Indicated and Inferred Resource		
	Tonnage (Mt)	Li Grade (ppm)	LCE (Mt)	Tonnage (Mt)	Li Grade (ppm)	LCE (Mt)	Tonnage (Mt)	Li Grade (ppm)	LCE (Mt)
1000	1,470	1,420	11.1	1,540	1,270	10.4	3,000	1340	21.5

Table 2. 2023 McDermitt Mineral Resource Estimates at reporting cut-off of 1,000ppm. Totals may vary due to rounding.

References:
Additional details including JORC 2012 reporting tables, where applicable, can be found in the following releases lodged with ASX and available on the Company's website (www.jindalee.net), and referred to in this announcement:

1. *Jindalee Resources ASX announcement 27/02/2023: "Resource at McDermitt increases to 21.5 Mt LCE"*
2. *Jindalee Resources ASX announcement 24/03/2023: "Preferred Lithium Extraction Process for McDermitt Project"*
3. *Jindalee Resources ASX announcement 31/07/2023: "Quarterly Activities Report – June 2023"*

The Company confirms that it is not aware of any new information or data that materially affects the information included in the market announcements referred to above and that all material assumptions and technical parameters underpinning the estimates of mineral resources referenced in the market announcement continue to apply and have not materially changed.

About Jindalee
Jindalee Resources Limited (ASX: JRL) is a pure-play US lithium company focussed on the development of the giant McDermitt Lithium Project (21.5 Mt LCE[1]), currently the largest lithium deposit in North America. Jindalee also provides shareholders with indirect exposure to lithium, gold, base and strategic metals, iron ore, uranium and magnesite in Australia through holdings in spin-out companies Dynamic Metals (ASX: DYM) and Energy Metals (ASX: EME).

Forward-Looking Statements
This document may contain certain forward-looking statements. Forward-looking statements include but are not limited to statements concerning Jindalee Resources Limited's (Jindalee's) current expectations, estimates and projections about the industry in which Jindalee operates, and beliefs and assumptions regarding Jindalee's future performance. When used in this document, the words such as "anticipate", "could", "plan", "estimate", "expects", "seeks", "intends", "may", "potential", "should", and similar expressions are forward-looking statements. Although Jindalee believes that its expectations reflected in these forward-looking statements are reasonable, such statements are subject to known and unknown risks, uncertainties and other factors, some of which are beyond the control of Jindalee and no assurance can be given that actual results will be consistent with these forward-looking statements.

Such factors may include, among others, risks related to regulatory approvals of or in connection with the proposed transaction, actual results of current or planned exploration activities, change in market conditions which affect the completion of the transaction, obtaining appropriate approvals to undertake exploration activities in the portfolio of projects, changes in exploration programs and budgets based upon the results of exploration, future prices of minerals resources; grade or recovery rates; accidents, labour disputes and other risks of the mining industry; delays in obtaining government approvals or financing or in the completion of development or construction activities; movements in the share price of investments and the timing and proceeds realised on future disposals of investments, the impact of the COVID 19 pandemic as well as those factors detailed from time to time in the Company's interim and annual financial statements and reports, all over which are available for review on ASX at asx.com.au and OTC Markets at otcmarkets.com.

Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking statements.

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