AT THE FOREFRONT OF LI EXPLORATION IN THE USA BATTERY SUPPLY CHAIN

November 2023





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Time to Invest in Bradda Head Lithium and the <u>USA</u> Battery Supply Chain





Three Li-deposit types; pegmatite, sedimentary (clay), and brine



All 100% owned projects, Western USA, proximal to end users



Strategy to bridge lithium supply gap for USA domestic users with low carbon footprint



Well funded to mid-2024 with US\$3.5m in treasury, durability in tough markets and a clear vision to an additional US\$3.0M due when we reach 2.5MT of LCE on Basin (+/-Wickieup)

Strategy: Developing critical USA lithium projects to supply the domestic market

1 100% Lithium Focused

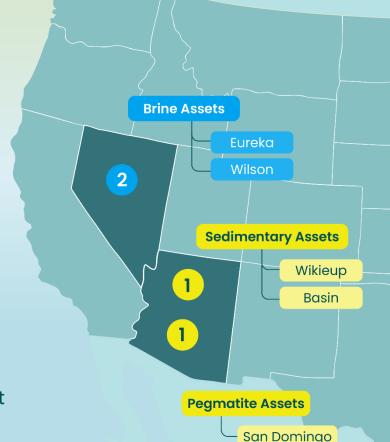
Focus on assets in Arizona, to develop net-zero carbon footprint lithium assets in the USA

2 Unlock value

Unlock value from our portfolio of Lithium projects: Two prospective brine projects in Nevada, Oilfield brine projects in Texas and Pennsylvania

3 Extensive experience

Use its extensive experience to find and acquire new Lithium projects, and increase existing portfolio through continued claim staking and M&A within the US





Right Time, Right Place, Right People



Tier One Political Location

Nevada and Arizona are low risk jurisdictions - ranked #1 and #7 by the Fraser Institute Survey of Mining Companies 2022, **no risk of asset nationalization**





Board and Management Committed

20% of shares held by Board and Management, belief in business model, committed to discovery, and poised to capture lithium market



First-rate Local and Regional Infrastructure

Primary assets located in Nevada and Arizona, close to highways and transport links to Gigafactories and developing US battery supply chain



Reduced Geological Risk

Bradda has three types of lithium assets; pegmatites, clays and brines



ESG Driven Growth

Implementing community and water conservation initiatives and lowcarbon footprint projects is at the core of our development



Right Time, Right Place, Right People

Significant lithium supply deficits are forecasted, Bradda and its experienced team, strongly supported by the Board, are focused on the USA and investing into the US\$135bn critical minerals supply market chain⁽¹⁾



Source: (1) www.whitehouse.gov

BRADDA HEAD



Ian Stalker
Executive
Chairman



Denham EkeFinance
Director



Jim MellonNon-Executive
Director



Alex Borrelli Independent NED



Euan JenkinsIndependent
NED



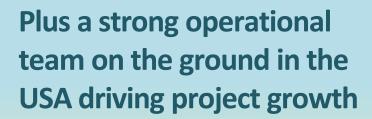
Piotr Shabak CFO



Joey Wilkins



Adam Hawkins, MBA ESG Consultant







Don Hains, P.Geo, MBA Technical Consultant



Dr Yatendra Sharma BSc Hons, MSc, PhD, CChem, MRACI, MAusIMM Lithium Processing Consultant



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Primary Lithium Growth with Flagship Pegmatite & Clay Assets in Arizona



Source: (1) Benchmark Mineral Intelligence., National Renewable Energy Laboratory.

(2) whitehouse.gov. (3) MinEx Consulting Pty, Western World 2012 to 2021 average

San Domingo Project—Pegmatites

Stage: Exploratory Drilling

2023 Activity: Follow-up drill programme commenced in August, drilling new targets identified from soil survey and mapping, pegmatites with abundant spodumene being drill tested

Results: Phase 1 & 2 drill holes encountered very encouraging intercepts at Midnight Owl and Jumbo targets, such as:

32m @ 1.60% Li₂0 in SD-DH22-024 and

9.5m @ 1.85% Li₂O plus 2.90m at 3.03% Li₂O SD-DH23-037

Basin Project—Clays

Stage: Resource development

2023 Activity: Drilling completed, 14 sonic drill holes and 2,355m, resounding expansion of resource to northwest, open

Background: Basin is adjacent to two currently active mines

New Resource: 1.085 kt LCE covering only 14% of 17km² project, open to east, north, and west. Low dollar discovery cost

Resource Expansion Potential: 1.0 to 4.0MT additional LCE

Notable drill hole Intercepts from 2023 campaign are:

75m @ 983 ppm Li, including 27.6m @ 1,339ppm in BES23-12

and

67m @ 1,077ppm Li, including 20.74m @ 1,545ppm in BES23-04



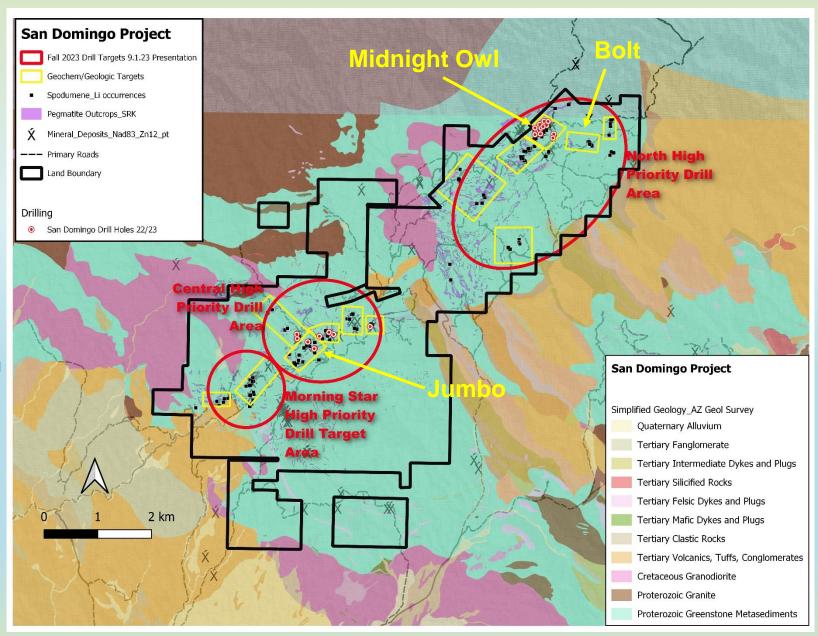
San Domingo - Developing a World Class Lithium District, Phase 3 Drilling Underway

Overview:

- **33.6km**² land position, 7 historic lithium mines on our claims
- Li-bearing pegmatite dykes and sill throughout belt, greenstone host rock
- Phase One, 7,300m of drilling completed, shallow (<100m) Li-Intercepts, example is SD-DH22-024 with 32m @ 1.60% Li,0
- Prominent **LCT signature** of L plus, Ta, Rb, & Cs
- No environmental or social roadblocks

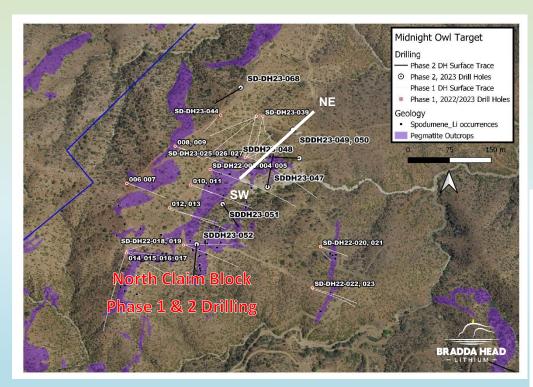
Ongoing:

- 6,100m core drilling program 75% completed, testing new targets and following-up on Phase 1 targets with step-out holes
- Initial results at **Bolt** include 5.27m of 0.51% Li20 within 24.65m of 0.24% Li20 plus 6.35m of 0.83% Li20 at **Midnight Owl**, encouraging
- Metallurgical test results soon on Phase 1 drill core from Jumbo target
- Continue fieldwork on soil anomalies, expand soil survey to southeast and northwest
- Reconnaissance-style **shallow RC drilling** program being considered to rapidly test vast number of Li-anomalous pegmatites





Midnight Owl — Phase 2, Extending Mineralization at Depth

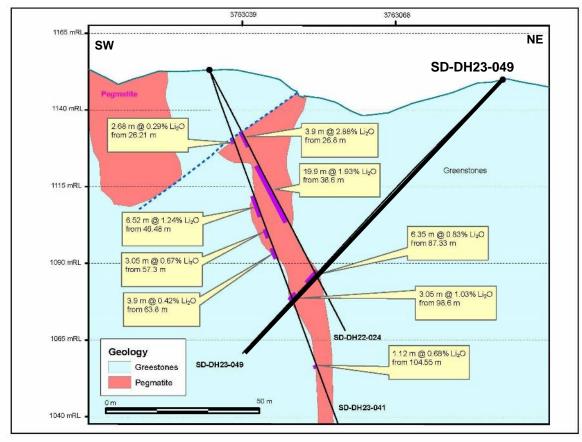


Phase 1 Highlights:

- 31.85m @ 1.60% Li₂O in SD-DH22-024
- **6.52m @ 1.24% Li₂O**, and 3.05m @ 0.67% Li₂O in SD-DH22-041
- **4.27m @ 1.86% Li₂O** in SD-DH22-005
- 2.74m @ 2.12% Li₂O in SD-DH22-042

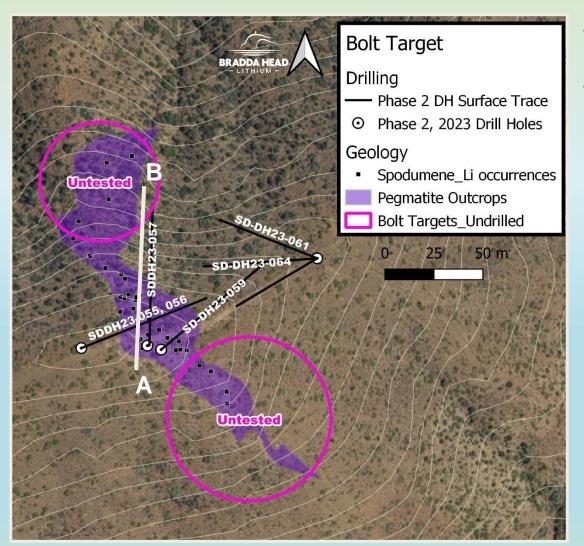
Phase 2 Highlights:

- 6.35m @ 0.83% Li2O followed by 3.05m @ 1.03% Li2O in SD-DH23-049
- Including 5.16m of 80 ppm Ta2O5 starting at 89.18m (LCT signature)
- 16.82m @ 73 ppm Ta2O5 with 105ppm Ta2O5 over 9.12m (LCT Signature)





Bolt Drilling — Phase 2, A New and Undrilled Target, Open to North & South

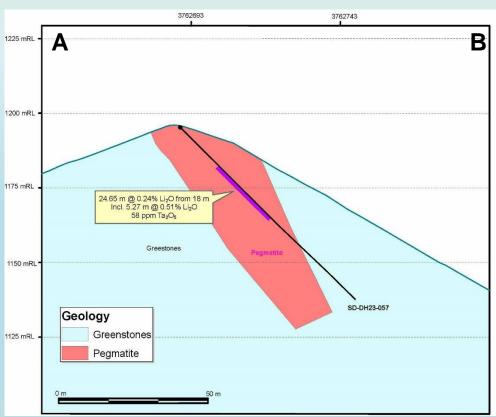


Highlights:

- 5.27m @ 0.51% Li2O within 24.65m @ 0.24% Li2O in SD-DH23-057

 (See section below)
- 11.8m @ 0.32% Li2O followed by 5.87m @ 0.48% Li2O in SD-DH23-05

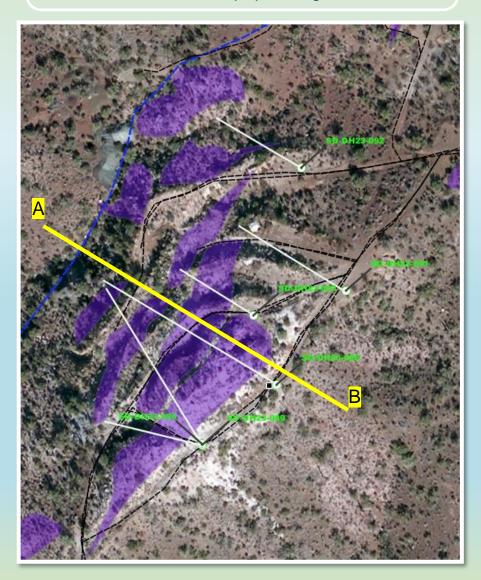
(hole not shown in cross section)

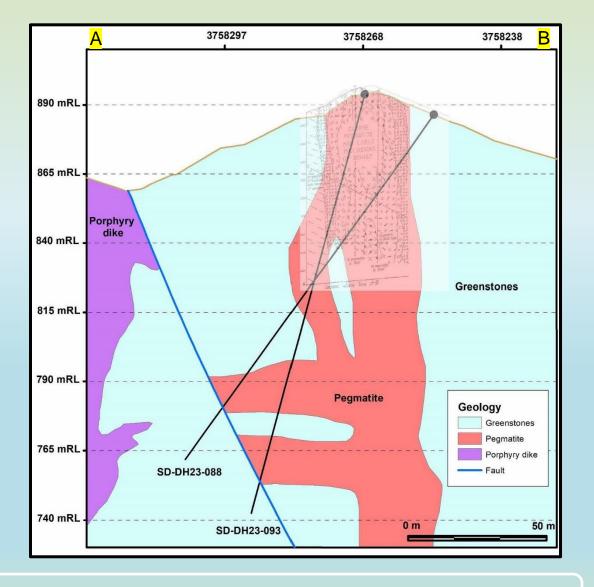




Morning Star Target: Drilling In Progress, Spodumene-Pegmatites Encountered in all Holes

Below: Drill Hole pattern, Phase 2 program. All holes encountering spodumene, minor lepidolite and montebrasite. Assays pending for all holes



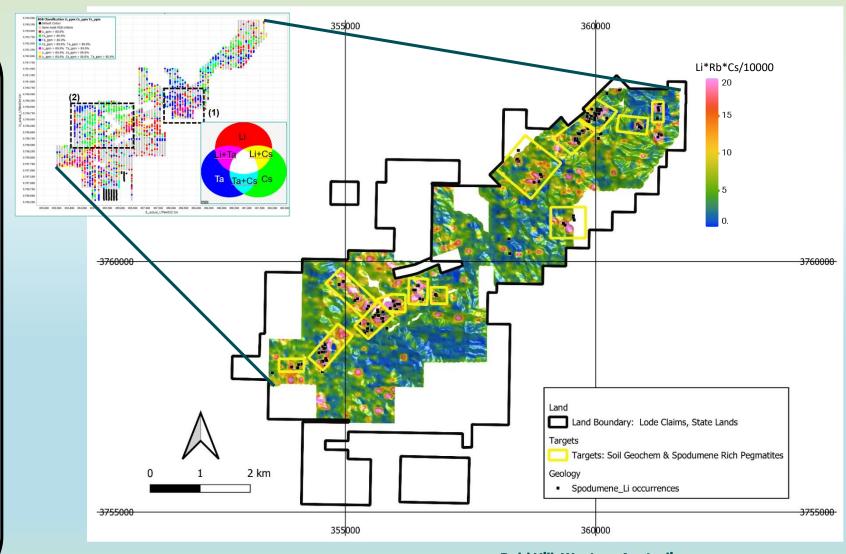


Above: Cross Section of Phase 2 Drill Holes, dominantly Li-bearing pegmatites. Shaded cross section from Jahns (1952) and denotes zoned pegmatite with Li minerals.



Soil Sample Interrogation Confirms 10.5km LCT Signature Pegmatite Trend

- 3,884 soil samples collected over roughly half the property
- LCT (lithium-caesiumtantalum) signature confirmed by Geochem consultant
- Consultant differentiated diverse terrains using P and Mg, identified potential boundaries and "prospective" host rocks, aligning with our primary targets and new areas emerged as high priority
- High percentage of Li-Rb-Cs soil anomalies field checked and most contain spodumene or lepidolite-bearing pegmatites: many anomalies yet to be field examined
- Additional soil samples collected internally, expanding coverage in the NE, results pending: Further expansion planned





Comparable assets

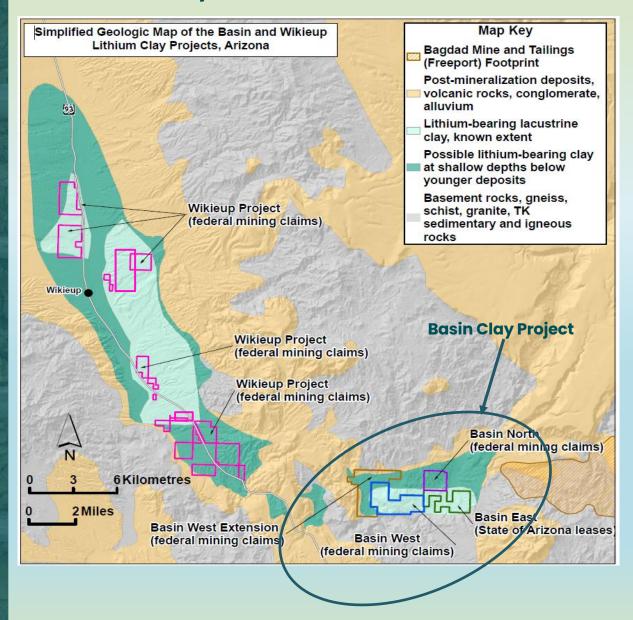
Kathleen Valley, Western Australia

- 1.7km strike, 600m depth
- Resource of 156Mt @ 1.4% Li20 and 130ppm Ta2O5

Bald Hill, Western Australia

- 1.2km strike, 775m width, 195m depth
- Resource of 26.5Mt @ 1.0% Li₂O
- and 149ppm Ta₂O₅

Lithium in Clay Location: Basin

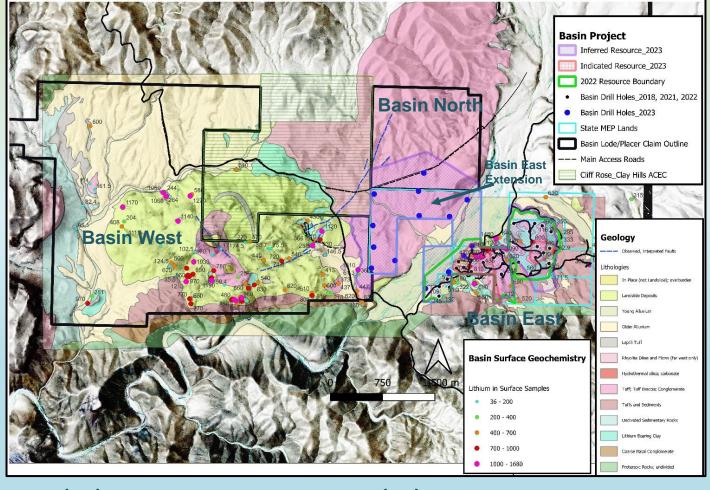


- Basin Clay Project, State and BLM lands, new resource of >1.0MT LCE, new 2.5MT LCE target achievable with Basin North drilling
- Extensive land package covering c.17km², additional 2..8km² added to Basin North for a total of 19.7km²
- LRC Royalty payment of US \$2.5M received, additional \$3.0M in cross hairs
- Exploration plan of operation permit with BLM to expand drilling footprint in Basin West progressing well



Basin: Tripled Resource, Further Expansion Opportunities

- Resource of **1.085Mt** of LCE and an identified 1.5Mt to 4.0Mt LCE JORC expl. target
- Drill programme finished at BEE/BN in Q3, **Tripled** inferred and indicated LCE resource
- Continued step-out drilling to North will create opportunity for growth and possible expansion exceeding 2.5MT LCE and additional \$3.0M royalty payment.
- Permitting continues at Basin West, Basin West Extension, which cover a c.11km² area
- Metallurgical results demonstrate: extract
 >98% of lithium within 1 hour, cyclone
 classification clay upgrade possible grade
 by 26% to 1,900ppm Li

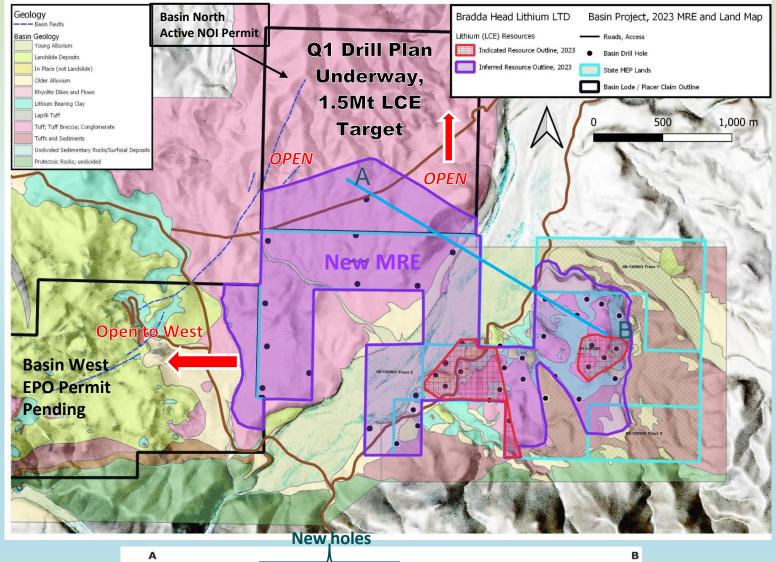


MRE Timeline	LCE (kt)	Resource area (km²)	% of Basin Project area	Drilled area (km²)	
Q4 2022 MRE	371	1.2	7.2%	1.4	
Q3 2023 MRE	1,085	3.3	14.0%	3.9	

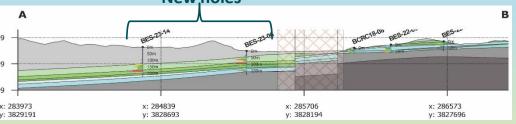


Basin Project Resource Growth – 2023 Drilling Resulted in Milestone 1.085MT LCE

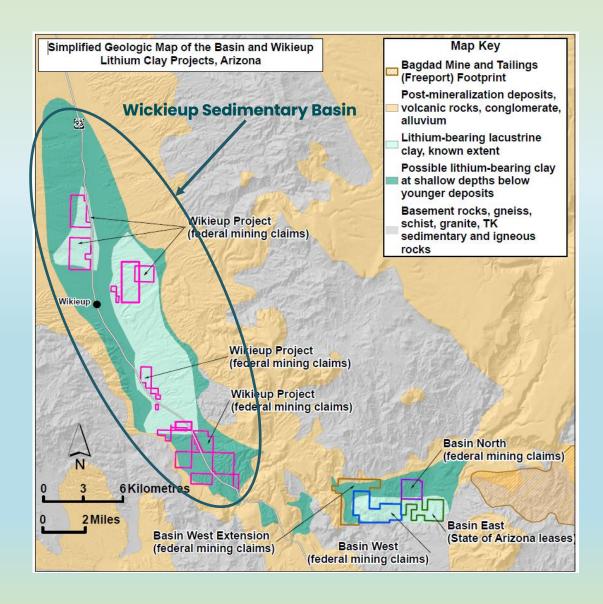
- Drill program completed in August, 2023.
 2,355m and 14 sonic drill holes resulted in new resource calculation by SRK of 1.085
 Mt LCE
- Drilling confirmed upper clay thickens to the West and North - West of Basin East onto Basin East Extension and Basin North
- Upper clay horizon more than doubles in thickness from 34 to 80m
- Molybdenum consistent and highly anomalous throughout upper clay high grade horizon, mineralogy investigation underway
- Basin North Notice of Intent permit will be amended and new sites added, Q1 drill program envisaged
- A 1.5MT Lithium Carbonate Equivalent Target is envisaged to reach 2.5MT LCE







Lithium in Clay Overview of Wickieup - Neighbor to Basin



- Sedimentary assets across Wickieup have shared geology, lacustrine environment with district-scale potential for Li
- Extensive land package covering c.24km² funded to pursue additional drilling as targets emerge from surface work
- LRC Royalty transaction applicable to the Wickieup Property, room to grow and capture second royalty payment
- 2024 targeting work to include surface mapping, geochemical sampling, tectonic modelling



Lithium Brine Assets

Wilson



Summary

- Location: Nevada, USA
- Type: Brine
- Project Area: 13.6 km²



Overview

 Located in Nye County, Nevada, 81 miles east of Clayton Valley and the Silver Peak lithium brine project



Exploration to date

- Surface sedimentary sampling and follow up studies
- Geophysical study conducted and shallow sampling auger drilling conducted the upper 100 – 300 m, deeper subhorizontal conductor at 700-900m interpreted to represent brine saturated basin-fill with possible vertical feeder structures



Exploration plans

 Drilling programme planned for 2024 to test brine geochemistry and shallow clay horizon

Wilson geophysics

MT Inversion Profile

Eureka



Summary

- · Location: Nevada, USA
- Type: Brine
- Project Area: 11.8 km²



Overview

 Located in Lander County, Nevada, 106 miles northeast of the Silver Peak lithium brine operation



Exploration to date

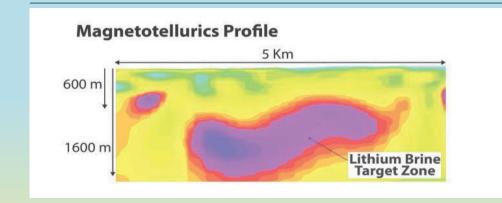
- Reconnaissance-level surface auger/post hole sampling with grades of up to 550 ppm Li
- Geophysical surveys conducted Q4 2021, with positive results identifying potential basin with 12km strike and depth of between 300m and 2,000m
- A shallow drill programme was completed to test and identify potential for clay mineralization near surface, similar to what is seen at the Wikieup and Basin projects



Exploration plans

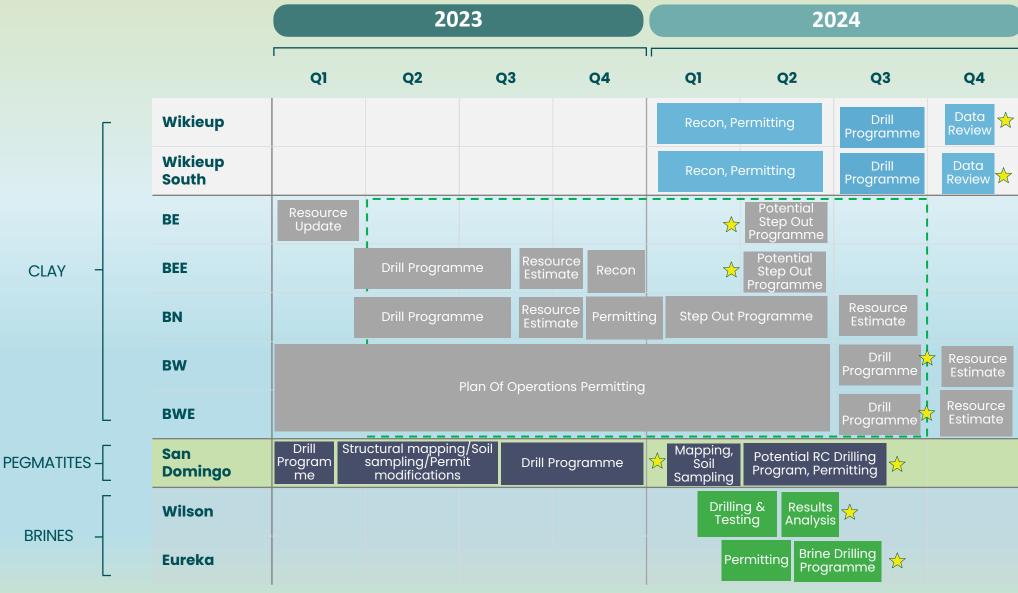
• A drill programme is being permitted to test the brine geochemistry

Eureka geophysics





Fast Track Approach for Growth









Environmental, Social, and Governance

Environment



Social



Governance



Enhanced and continuous environmental stewardship is our core attribute

Protect ground and surface water resources

Operate with respect for the land, sensitive environment, and cultural resources

Ensure social license to operate with our host communities and neighbours is obtained and maintained

Respect local culture and traditions

Partner with host communities to find ways to support programs that increase quality of life and educate

Create a culture of respect and accountability for our management and workforce

Operate ethically, respectfully, and responsibly

Obtain all required permits, take proactive approach in permit requirements and front-load with cultural and environmental studies

2023 ESG Initiatives

Water Conservation Initiatives

After extensive consultation with local stakeholders and tribes within Arizona, Bradda has identified the key issues facing the local communities, with water conservation being at the top

Bradda then commissioned Water Conservation Initiatives for the Basin and San Domingo projects, new drill site design initiatives to be addressed in future drilling campaigns and across our portfolio of assets

Community Website

In late 2022 Bradda released a Community focussed website to keep our local stakeholders updated on our activities and to give them a platform to give us feedback. The website will also be a platform for further initiatives



Low Carbon Footprint By Sourcing Lithium in the USA for the USA Battery Market



Aggressive, Phase 2 drilling campaign resumed at our San Domingo pegmatite asset in Arizona, with promising visual results



New Indicated and Inferred Resource of 1.085MT LCE at Basin within clays, triggers US\$2.5M payment to BHL by LRC. 2.5MT Target Possible - Potential to add US\$3.0M Royalty Payment



Experienced management with proven track-record of returning value to shareholders



Low carbon footprint lithium for the US domestic market. Strong ESG focus, with new water conservation initiatives focused on drill methods and drill site design



Supportive mining jurisdiction for Basin; the nearby Freeport Bagdad copper mine has been in operation since 1928 and currently proceeding with an expansion



APPENDIX





Bradda Head – Capital Structure



Capital Structure

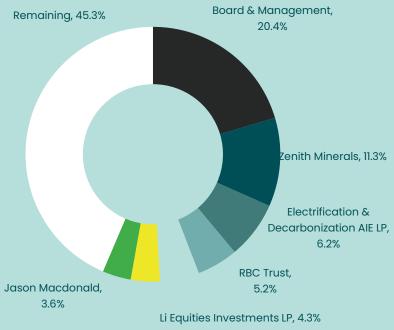
20%

held by the Board and Management



Strong Cash Position

US\$3.5m cash as of end of October 2023



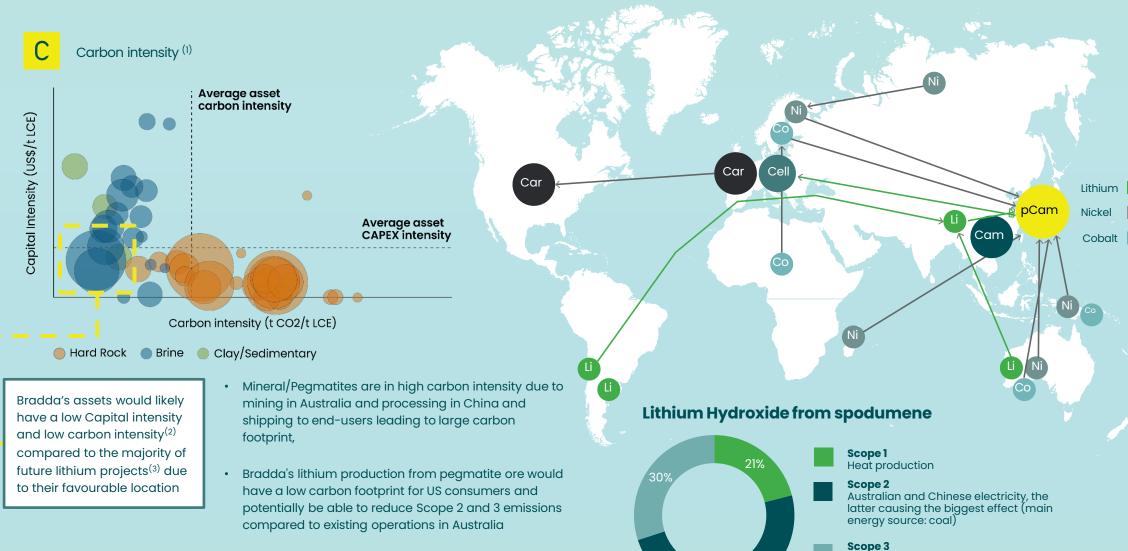
Anthony Baillieu, 3.7%

390,609,439 shares in issue⁽¹⁾



Developing US Produced Low Carbon Footprint Lithium

\$152bn of ESG funds flowed into Low Carbon investments over 2021



BRADDA HEAD

- LITHIUM - Source: Wood Mackenzie (Roskill), Benchmark Mineral Intelligence.

Note: (1) Bubble size represents future production in LCE 2025-2030. Emissions intensity is the CO2 emissions (from all sources) required to produce one tonne of refined lithium product. (2) For US consumers. (3) Assuming current processing routes and infrastructure

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Sodium hydroxide, natural gas, calcium

transportation (Australian plus Chinese)

carbonate, lithium product lorry

Strategic Positioning in the USA for Lithium End-Users

USA Lithium Projects

Strategic Positioning

- In April 2021, the Biden administration released a \$1.9 trillion infrastructure plan
- Under the Biden administration, clean energy production will be ramped up, with lithium considered to be a key resource. \$174 billion has been earmarked to "win the EV market" by spurring domestic supply chains and giving consumers rebates to buy them.
- Favourable location with respect to power, rail and road transport
- Electricity and gas infrastructure easily accessible and in place
- Multiple lithium end users located in Western states, most notably the Tesla Gigafactory
- Assets in mining friendly states, nearby Nevada lithium mines/assets:
- 1 Silver Peak, Albemarle (Mkt Cap US\$25.7bn), brine
- Rhyolite Ridge, Ioneer (Mkt Cap US\$1.1bn), sedimentary
- TLC, American Lithium (Mkt Cap US\$588m), sedimentary
- Clayton Valley, Cypress (Mkt Cap US\$231m), sedimentary
- Clayton North, Jindalee (Mkt Cap US\$203m), sedimentary



Bradda Head LTD Assets



Brine assets



Sedimentary assets

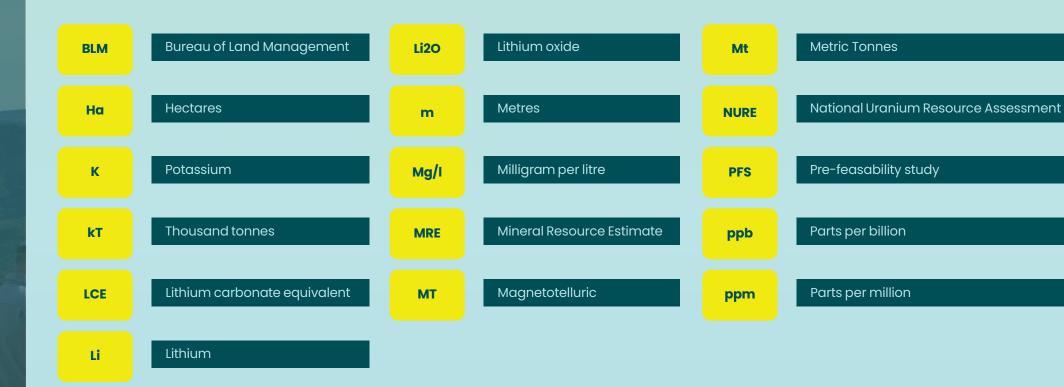


Pegmatite asset



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LCE → Li	Li → LCE	Li → Li ₂ O	Li ₂ O → LCE
0.188	5.323	2.15	2.473



Thanks.



