



CENTURY LITHIUM

Unlocking Tomorrow's Energy

Corporate Presentation

OCTOBER 2023

Cautionary Statement

TECHNICAL INFORMATION

Scientific and technical information in this presentation about the Clayton Valley Lithium Project was reviewed and approved by William Willoughby, PhD, PE, Century Lithium Corp.'s President, CEO and Director and a qualified person under National Instrument 43-101 Standards of Disclosure for Mineral Projects (NI 43-101). More detailed information about the Clayton Valley Lithium Project, including a description of key assumptions, parameters, methods and risks, is presented in the NI 43-101 technical report of Century Lithium Corp. dated effective August 5, 2020 – amended March 15, 2021, titled “NI 43-101 Technical Report Prefeasibility Study Clayton Valley Lithium Project Esmeralda County, Nevada”, available on SEDAR.

The Mineral Resource and Mineral Reserve estimates contained in this presentation were prepared in accordance with the requirements of securities laws in effect in Canada, including NI 43-101, which governs Canadian securities law disclosure requirements for mineral properties. NI 43-101 differs significantly from the requirements of the United States Securities and Exchange Commission (SEC) that are applicable to domestic United States reporting companies. Any mineral reserves and mineral resources reported by the Company herein may not be comparable with information made public by United States companies subject to the SEC's reporting and disclosure requirements.

ADDITIONAL REFERENCE MATERIALS

This presentation should be read in conjunction with Century Lithium Corp.'s (Company) news releases, latest Management Discussion and Analysis and Financial Statements for the six months ended June 30, 2023, Technical Reports, Annual Information Form and Management Information Circular, for full details of the information referenced throughout this presentation. These documents are available on the Company's website at www.centurylithium.co or on SEDAR.

FORWARD LOOKING STATEMENTS

This document contains forward looking statements and information within the meaning of applicable Canadian and United States securities legislation and readers should read the cautionary notes contained on the slide titled “Forward Looking Statements & Disclaimer” in the Appendix of this document.



Share & Trading Information

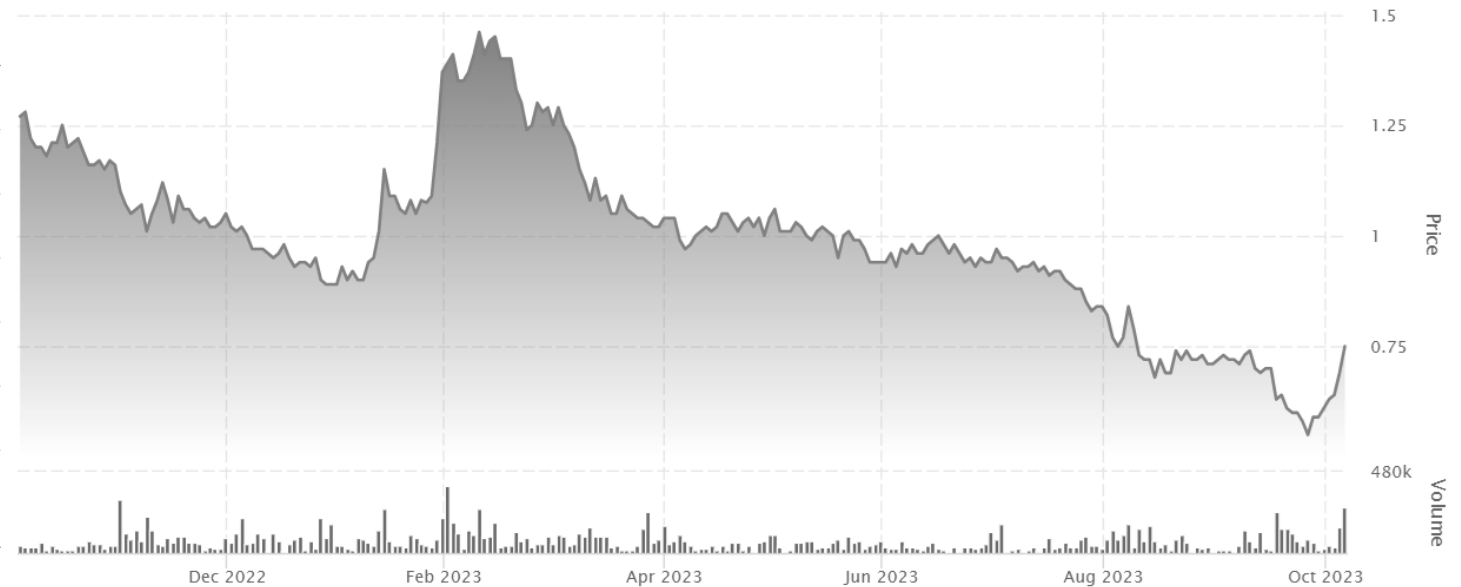
TSX.V: **LCE** | OTCQX: **CYDVF**

Issued & Outstanding	147.7 M
Warrants	21.1 M
Options	8.2 M
Fully Diluted	177.1 M
Market Capitalization	~\$ 110 M
Cash Position*	~\$ 20 M
TSX.V 52 Week High – Low	\$ 1.48 – \$ 0.53
OTCQX 52 Week High – Low	US\$ 1.11 – \$ 0.39

Share Structure as at October 1st, 2023

Chart as at October 5th, 2023

* Cash position as at Q2 2023



ANALYST COVERAGE

PI Financial
Alliance Global Partners
Noble Capital Markets
Hallgarten & Company

Justin Stevens
Jake Sekelsky
Mark L. Reichman
Christopher Ecclestone



Our Vision

The Clayton Valley Lithium Project is one of the largest lithium deposits in the United States and is located adjacent to Albemarle's Silver Peak Mine: North America's only lithium operation in production.

Century Lithium's vision is to grow into a leading domestic lithium producer for the growing electric vehicle and battery storage market. We aim to achieve excellence in all aspects of our business, including safety, efficiency, shareholder value, environmental and social performance, and to be respected by our investors, employees and communities.



Investment Highlights



ADVANCED STAGE

- 3rd most advanced lithium project in Nevada
- 40+ year life of mine
- Favorable location & mining jurisdiction – Nevada
- Feasibility Study in progress (H2 2023)



PROVEN TECHNOLOGY

- Pilot Plant running for over 22 months
- Unique Chlor-Alkali process
- Direct Lithium Extraction (or “DLE”) via Li-PRO™ from Koch Engineered Solutions
- Achieved **99.5%** recovery



WATER PERMIT

- Own water rights permit in Clayton Valley Basin
- Water resources in Nevada are limited
- Essential for the development lithium projects

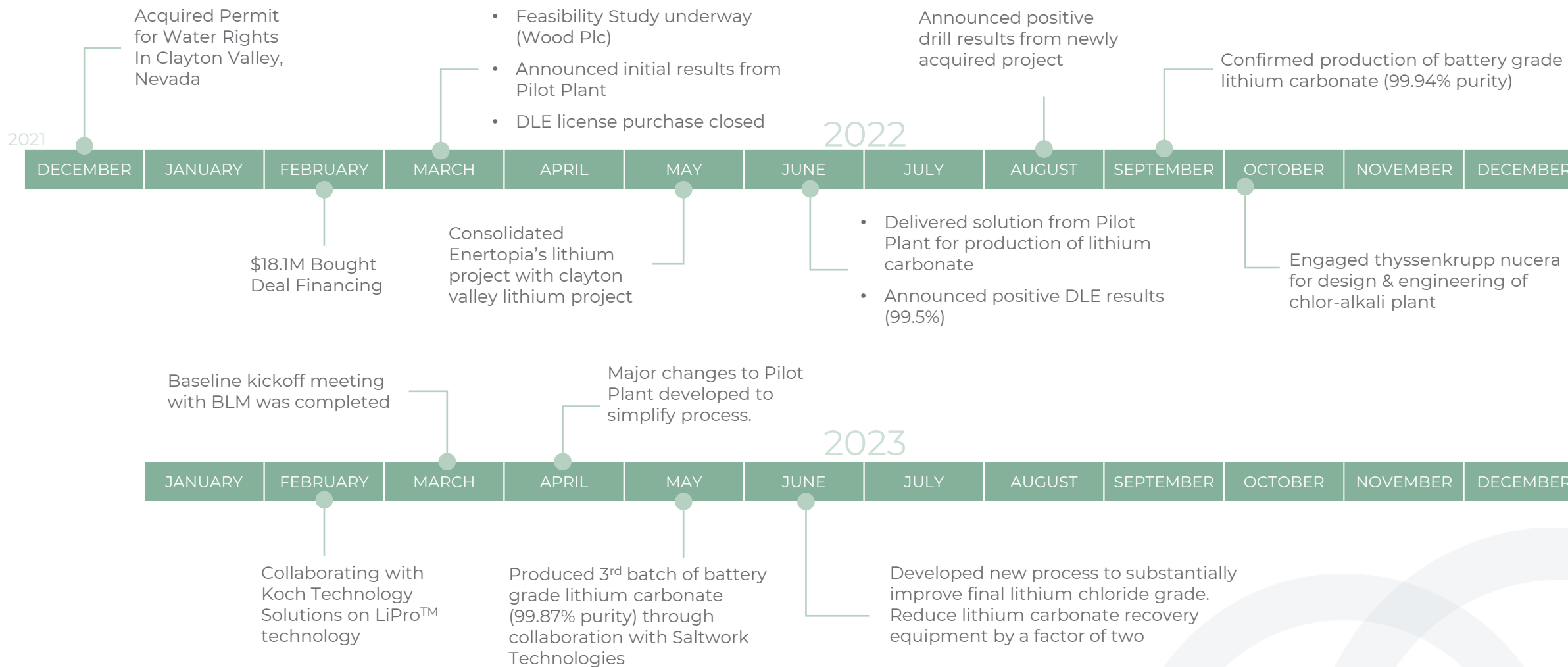


BATTERY GRADE Li_2CO_3

- **99.94%** purity Li_2CO_3
- Exceeds standard battery grade specs (99.5%)
- Sufficient for use in all EVs (electric vehicles) batteries
- Ability to produce a high purity Li_2CO_3 with low level of impurities



2022 - 2023 Highlights



Board of Directors

Bryan Disher

CHAIR

37+ years of experience in corporate finance,
retired partner from PwC Canada, CPA, CA

Ken Owen M.Sc

DIRECTOR

40+ years experience in mining management
including De Beers, Anglo American and SRK

James G. Pettit

DIRECTOR

30+ years experience in corporate finance,
executive management & compliance

William Willoughby, PhD, PE

PRESIDENT, CEO & DIRECTOR

45+ years of experience in all aspects of natural resources
development, production and financing

Corby G. Anderson, PhD, CEng, FIMMM, FICChemE

DIRECTOR

+40 years of global experience in engineering, design, industrial plant
operations, corporate level management, education, research, and
professional service

Donald G. Myers

DIRECTOR

35+ years experience in management and investor relations for
resource and technology companies



Management

William Willoughby, PhD, PE
PRESIDENT, CEO & DIRECTOR

45+ years of experience in all aspects of natural resources development, production and financing

Todd S. Fayram, MSc Eng
SENIOR VICE PRESIDENT, METTALURGY

35+ years of experience, focusing on metallurgy, pyrometallurgy and extractive operations for multi-national mining and metals producers.

Daniel Kalmbach, CPG
MANAGER, GEOLOGY & TECHNICAL SERVICES

23+ years experience in natural resources geology, exploration, mining, and environmental project management

Abraham (Braam) Jonker, CPA, CA
CHIEF FINANCIAL OFFICER

30+ years experience in natural resources and accomplished financial leader in the mining industry

Adam Knight, PE
PROJECT MANAGER

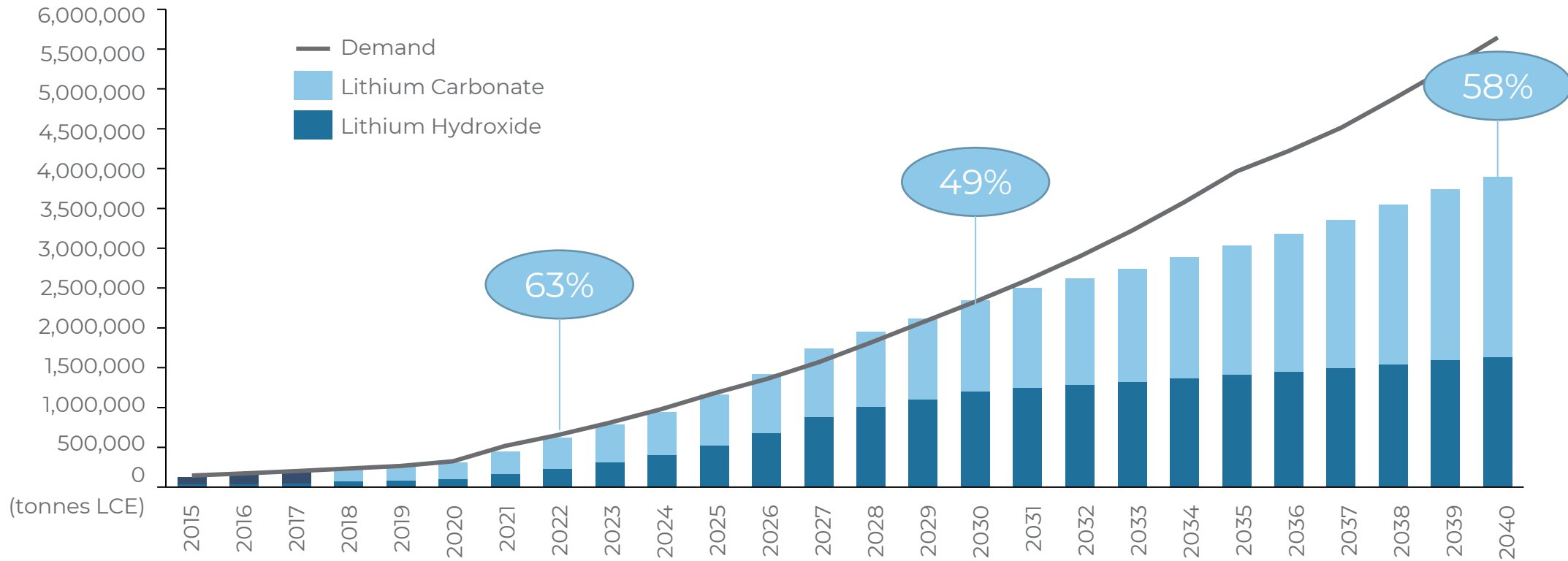
26+ years experience in management and operations of mining corporations

Spiros Cacos, MA
VICE PRESIDENT, INVESTOR RELATIONS

23+ years experience in investor relations, ranging from exploration and development to production



Lithium Chemicals Balance



Source: Benchmark Mineral Intelligence



CENTURY LITHIUM

TSX.V: LCE

OTCQX: CYDVF

Lithium Uses – Electric Vehicles

Electric Vehicle adoption rates will have the biggest impact on lithium-ion battery demand over the forecast period. According to Rho Motion, EV sales are expected to reach 20.9m units by 2025, which would equate to a 20.9% penetration rate. Our demand model includes upside/downside cases to this base assumption. Benchmark Minerals' base case forecasts EV demand to increase by 43% from 2021 to 2022 and a CAGR of 21% over the coming 10 years.



Passenger/Light Duty EVs

A total of 81.8m vehicles are expected to be sold in 2022 according to Rho Motion, around 10.3m of which will be electric, rising to over 20m by 2025.



Medium & Heavy Duty

The use of lithium-ion batteries for heavy duty vehicles has been a major growth driver in EV demand and e-bus and e-trucks continue to experience healthy growth rates, with unit sales set to climb 23% from 2021 to 2022



Battery Packs

The size of battery packs continues to increase with improvements in pack technology. The average pack size for passenger and light duty vehicles is expected to reach an average of 46.2 kwh in 2022, rising to 53.4 kwh by 2025.



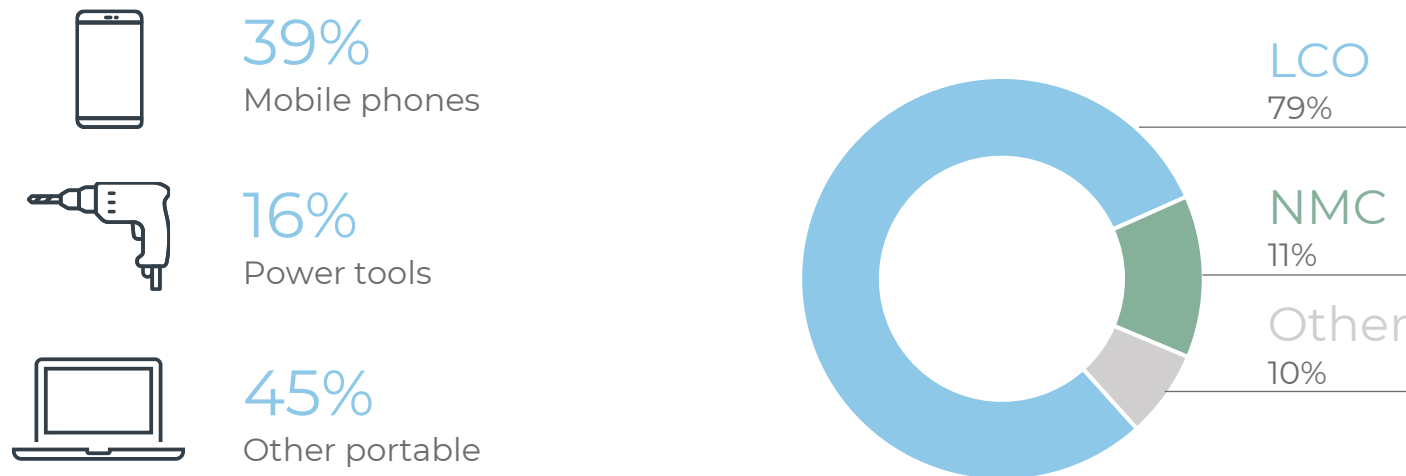
Source: Benchmark Mineral Intelligence 2022



Lithium Uses – Portable Electronics

Demand growth rates from portable electronics have gradually slowed since the mid-2000s. While growth will continue from these markets the rate will be limited due to the maturity of key application markets. The stability, density and availability of the LCO cathode means this will remain the primary chemistry choice in these markets, although some high-nickel chemistries are being deployed in power tools and powerpack application.

Benchmark Minerals forecasts a 4% CAGR in this market over the next 10 years.



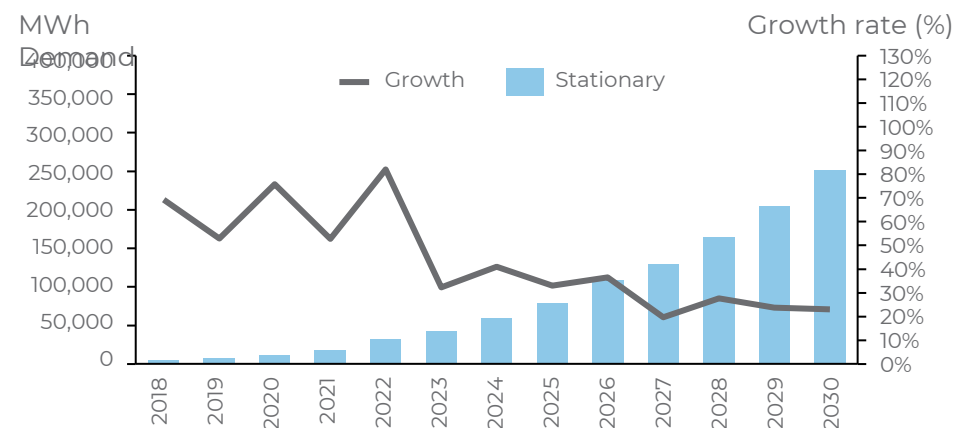
Source: Benchmark Mineral Intelligence 2022



Lithium Uses – Stationary Storage

Growth of lithium-ion battery demand from stationary storage applications is expected to accelerate through to the mid-2020s when growth rates will slow as markets become more mature. The cost and quality improvements in battery chemistry for EV applications will facilitate high penetration levels in a range of residential and commercial markets, despite lithium ion not necessarily being the most efficient technology to use in these areas.

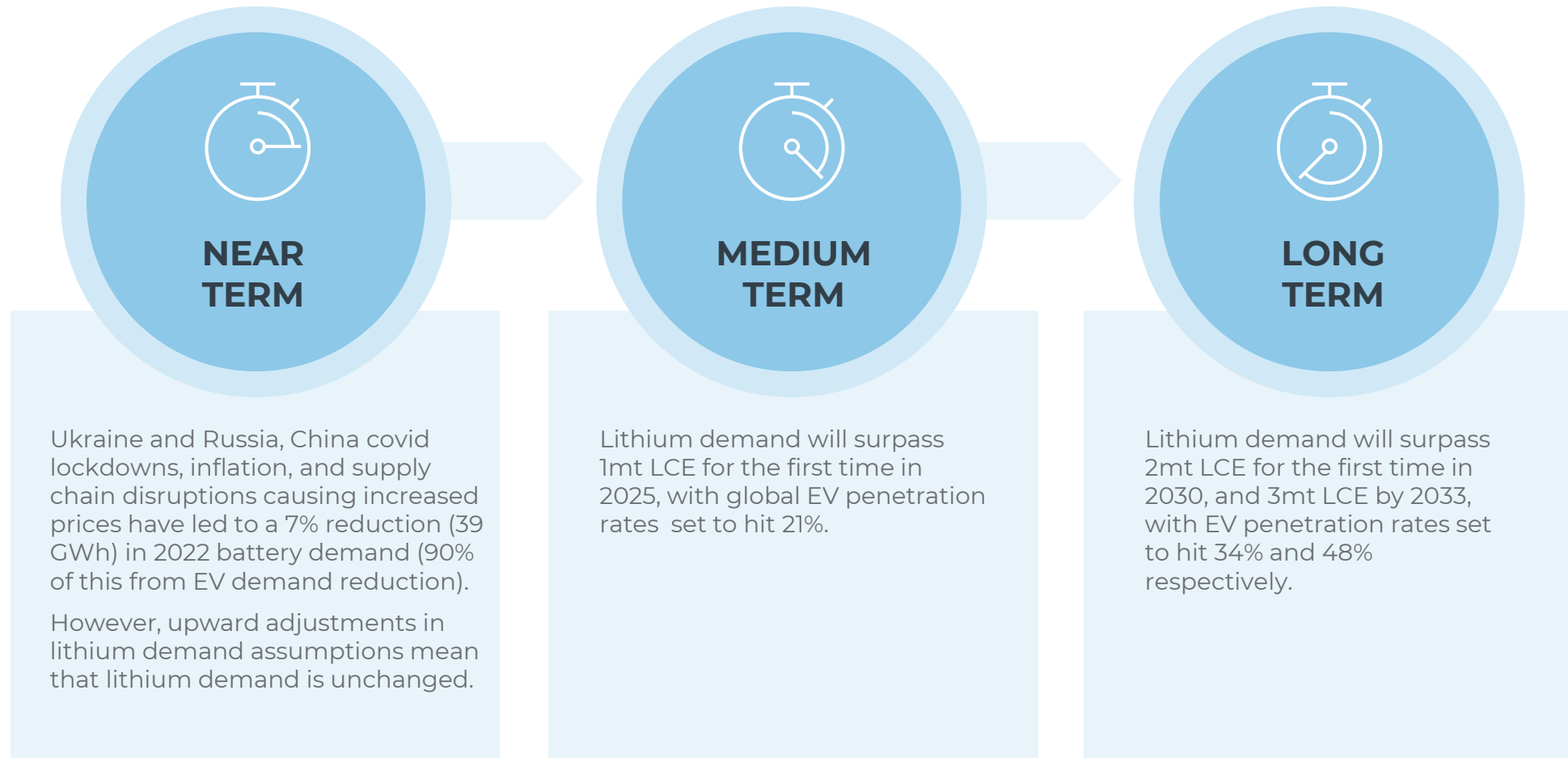
Benchmark Minerals forecasts stationary storage demand to grow at a CAGR of 26%, over the next 10 years, overtaking portable electronic demand by 2026.



Source: Benchmark Mineral Intelligence 2022



Demand Forecast: 2020 - 2040



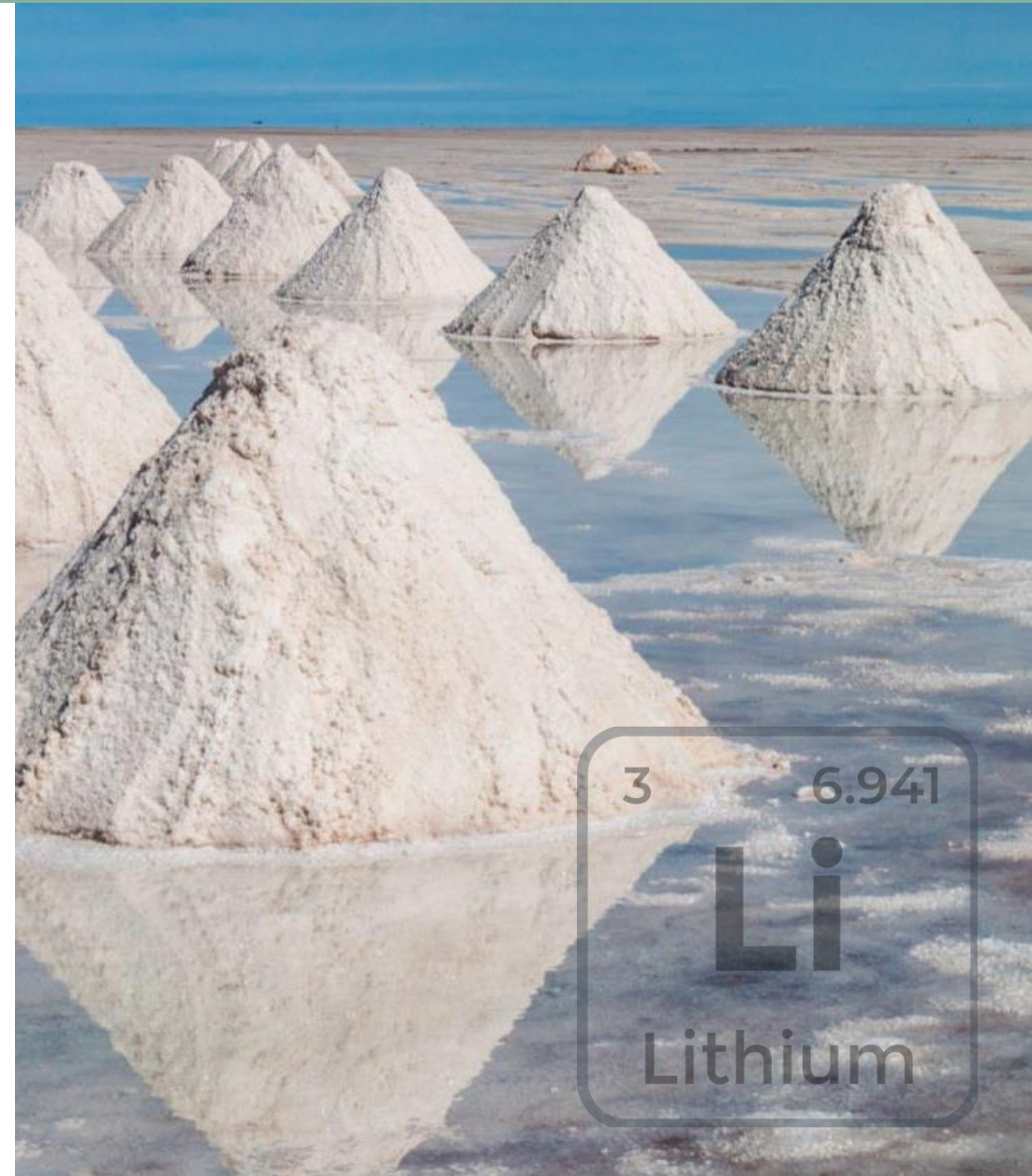
Source: Benchmark Mineral Intelligence



Lithium: US “Critical Mineral”



- US Government designated lithium as a “**Critical Mineral**” of strategic importance in December 2017. (Executive Order 13817 – A Federal Strategy to Ensure, Secure and Reliable Supplies of Critical Minerals)
- “**Critical Mineral**” designation favors domestic sources of lithium across the supply chain
- Section 3 of the policy calls for identification of new sources of the minerals, **increasing exploration mining and processing and streamlining permitting**



Policy Updates: The Defense Production Act



The Defense Production Act

Originating in 1950s during the Korean War, the act specifically grants authority to address the mining and production of minerals critical to U.S security.

U.S president Joe Biden has invoked the Defense Production Act in a bid to boost domestic production and processing of key battery raw materials and reduce the country's dependence on foreign supply.



Funding

President Biden's determination specifically cited the need for "lithium, nickel, cobalt, graphite, and manganese for large-capacity batteries, allowing their producers to get assistance under the Defense Production Act's Title III fund.

The White House did not set out plans for direct investment or loans from the government. Instead, the government would fund feasibility studies as Biden said the government would "create, maintain, protect, expand, or restore sustainable and responsible domestic production capabilities of such strategic and critical materials by supporting feasibility studies."



Feasibility Studies

DPA determination issued on the 31st March authorized the Defense Department to conduct feasibility studies for "mature mining, beneficiation, and value-added processing projects; by-product and co-product production at existing mining, mine waste reclamation, and other industrial facilities; mining, beneficiation and value-added processing modernization to increase productivity, environmental sustainability and workforce safety.



Benchmark's view

In the near-term Benchmark expects the measures to open up supply from existing infrastructure, such as byproduct from current assets. In the longer-term Benchmark expects the measures to help new projects at the bankable feasibility stage of development to unlock much needed investment.



Source: Benchmark Mineral Intelligence



Lithium Deposit Types

	CLAYSTONE	BRINE	HARDROCK
Mine Product	Lithium Carbonate (Li₂CO₃)	Lithium Carbonate (Li ₂ CO ₃)	Spodumene Concentrate (6% Li ₂ O)
Typical Grade	1,000-3,000 ppm Li	500-1,000 ppm Li	4,500-7,000 ppm Li
Production Steps	Mining Acid Leaching Evaporation Crystallization	Pumping of Brine Evaporation Crystallization	Mining Crushing and Grinding Roasting Acid Leaching Evaporation/Crystallization
Estimated Cash Costs (\$/tonne Li ₂ CO ₃)	<div style="border: 2px dashed red; padding: 5px; display: inline-block;"> \$3,387 *Century PFS </div> <div style="margin-top: 20px; margin-left: 100px; border: 2px dashed red; padding: 10px;"> Century Lithium: ✓ No crushing, no grinding, no roasting ✓ Low to no overburden with simple open pit mine design ✓ Unique Chlor-Alkali circuit effectively recycles nearly 100% of required water ✓ CCD thickeners effectively manage solids/liquids separation </div>	\$2,500 – 4,000*	<div style="border: 2px dashed red; padding: 5px; display: inline-block;"> +\$6,000* </div>

* Industry and company reports



Project Location

1 of 3

Advanced lithium projects in Nevada

Adjoining

Silver Peak lithium brine operation of Albemarle

100%

owned

5,585

Acres Federal BLM claims

3%

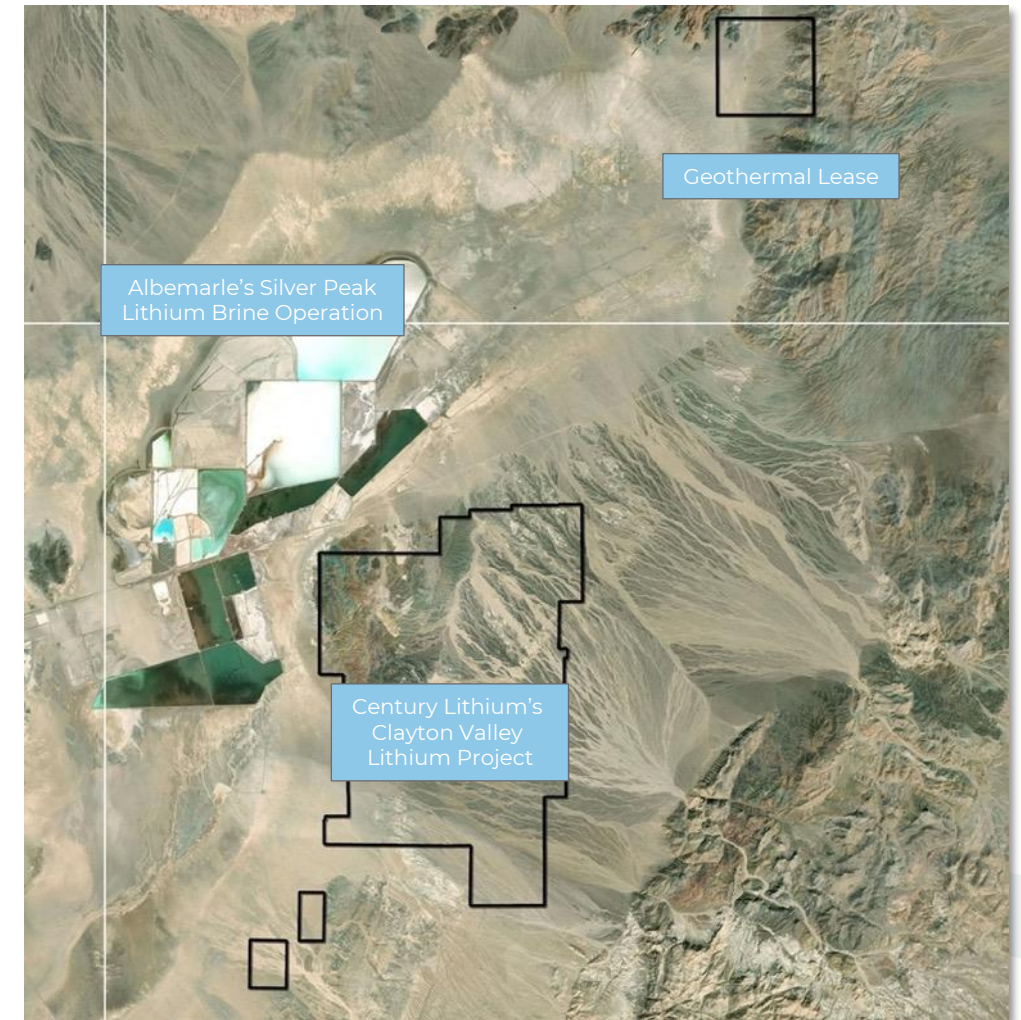
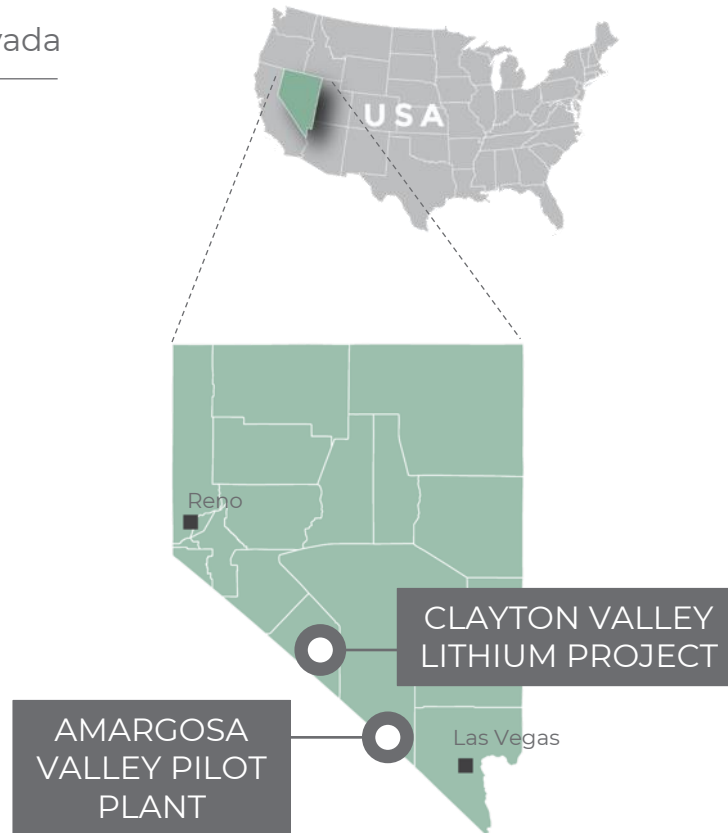
NSR

Option to buy-down to 1% for

\$2M

640 acres

Geothermal lease



Nevada Lithium Projects

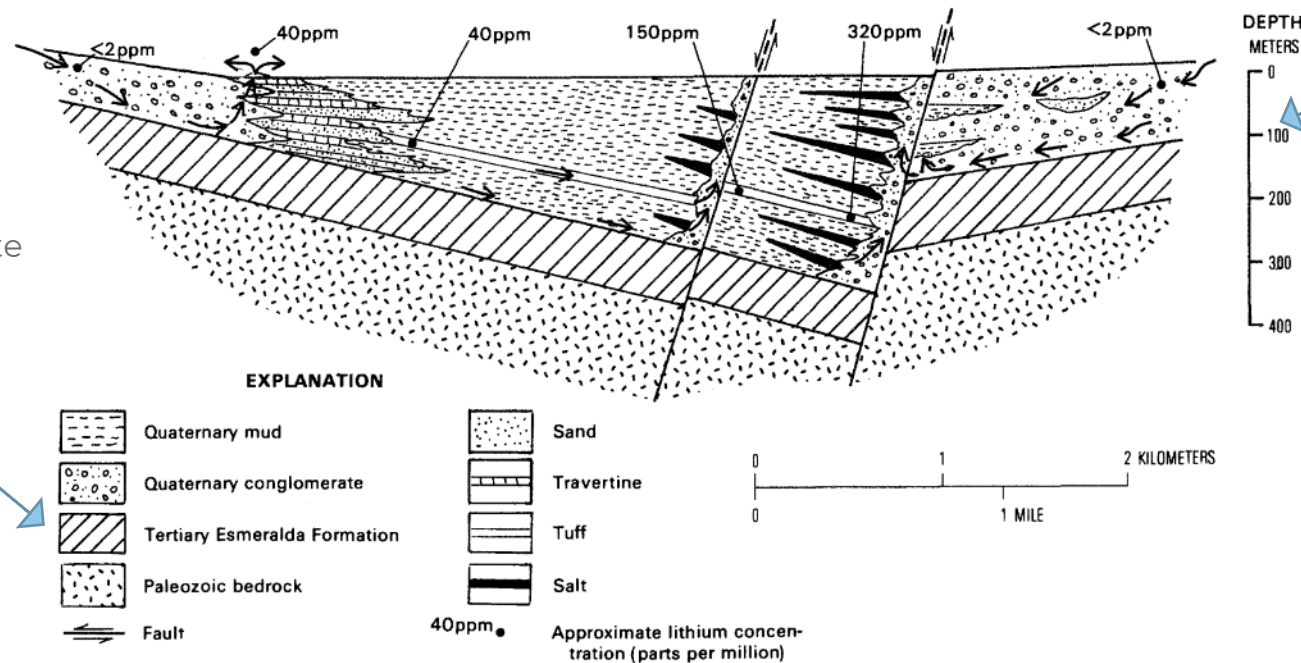
HOST	COMPANY	PROJECT	PROJECT STATUS
Brine	Albemarle*	Silver Peak Operation	Producing
	Schlumberger/Pure Energy*	Clayton Valley	PEA, Pilot Plant
Clay/Claystone	Century Lithium	Clayton Valley	PFS, Pilot Plant
	Lithium Americas	Thacker Pass	Feasibility, POO, Pilot Plant
	Ioneer	Rhyolite Ridge	Feasibility, Pilot Plant

* Adjoining Century Lithium



Century Lithium Deposit Setting

Lithium is found in illite and montmorillonite clays within the Esmeralda Formation



At Century Lithium's property, the lithium-bearing units are exposed at surface or with minimal overburden to depths of 150 meters



Figure L3. Generalized cross section of Clayton Valley playa, showing structural position of the major tuff-bed aquifer and inferred directions of ground-water movement.

From Davis, Friedman and Gleason, 1986. USGS Bulletin 1622, Origin of the Lithium-Rich Brine, Clayton Valley, Nevada.

Resources

INDICATED		
Tonnes (Million)	Li ppm	Tonnes LCE (million)
1,304	905	6.3

Reserves

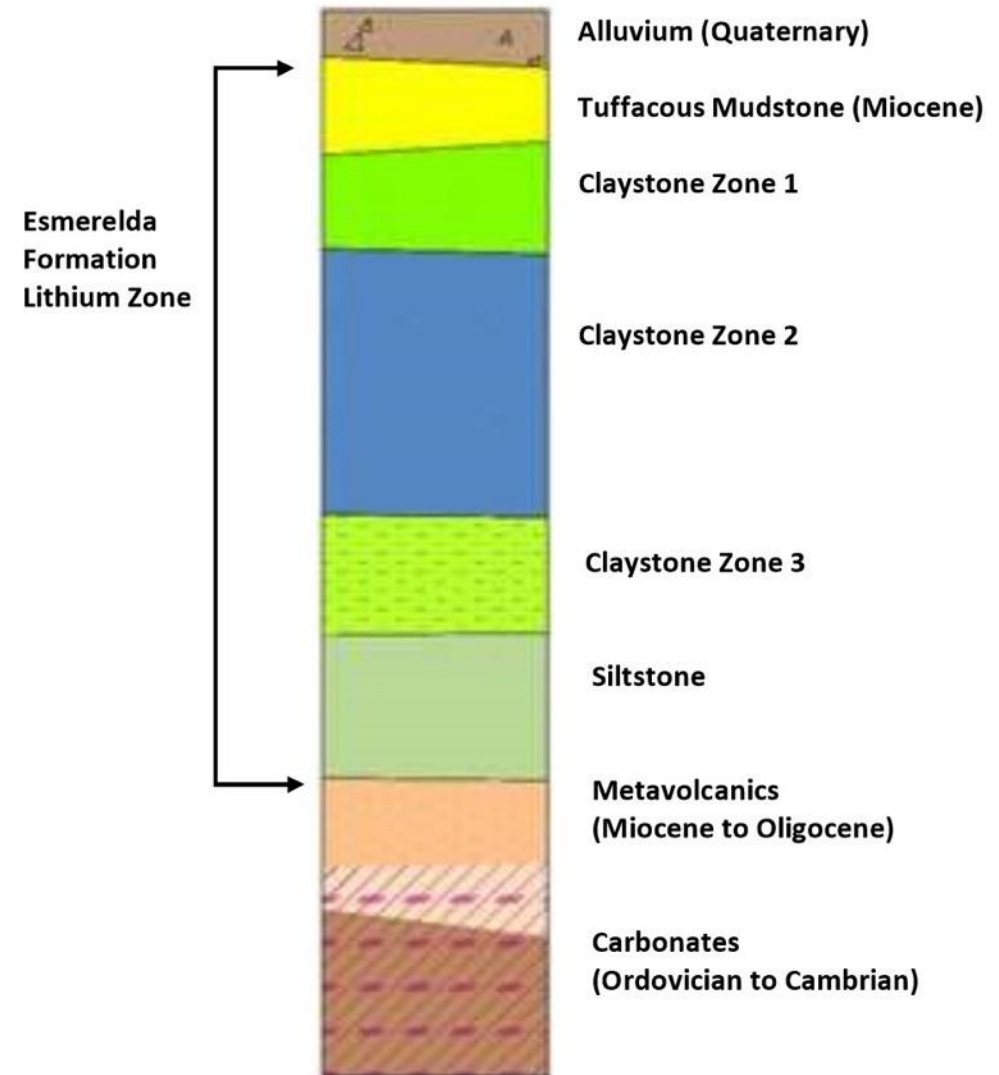
PROBABLE RESERVE		
Tonnes (Million)	Li ppm	Tonnes LCE (million)
213	1,129	1.28

Note: See footnotes on determination of Resources and Reserves in the Appendix and the Prefeasibility Study; effective date August 5, 2020 – amended March 15, 2021.



Deposit Features

- Extensive flat-lying deposit
- Lithium in illite and montmorillonite clays to depth of at least 150m below surface
- Minimal gravel overburden
- Soft clay, requires no drilling & blasting
- Leachable clay, low acid consumption
- Potential by-products, including Rare Earth Elements (“REEs”)



Pre-Feasibility Study Results *

After-Tax Cash Flow Analysis (\$US)

Internal Rate of Return (IRR)

25.8%

Net Present Value (NPV 8%)

\$1.03 billion

Base Case Price for Lithium Carbonate

\$9,500/tonne

Payback Period

4.4 years

Operating Rate

15,000 tpd
for 40 years

Average Production Lithium Carbonate
Equivalent (LCE)

27,400 tonnes

Capital Cost Estimate

\$493 million
over 2 years

Net Lithium Recovery

83%

Operating Cost for Lithium

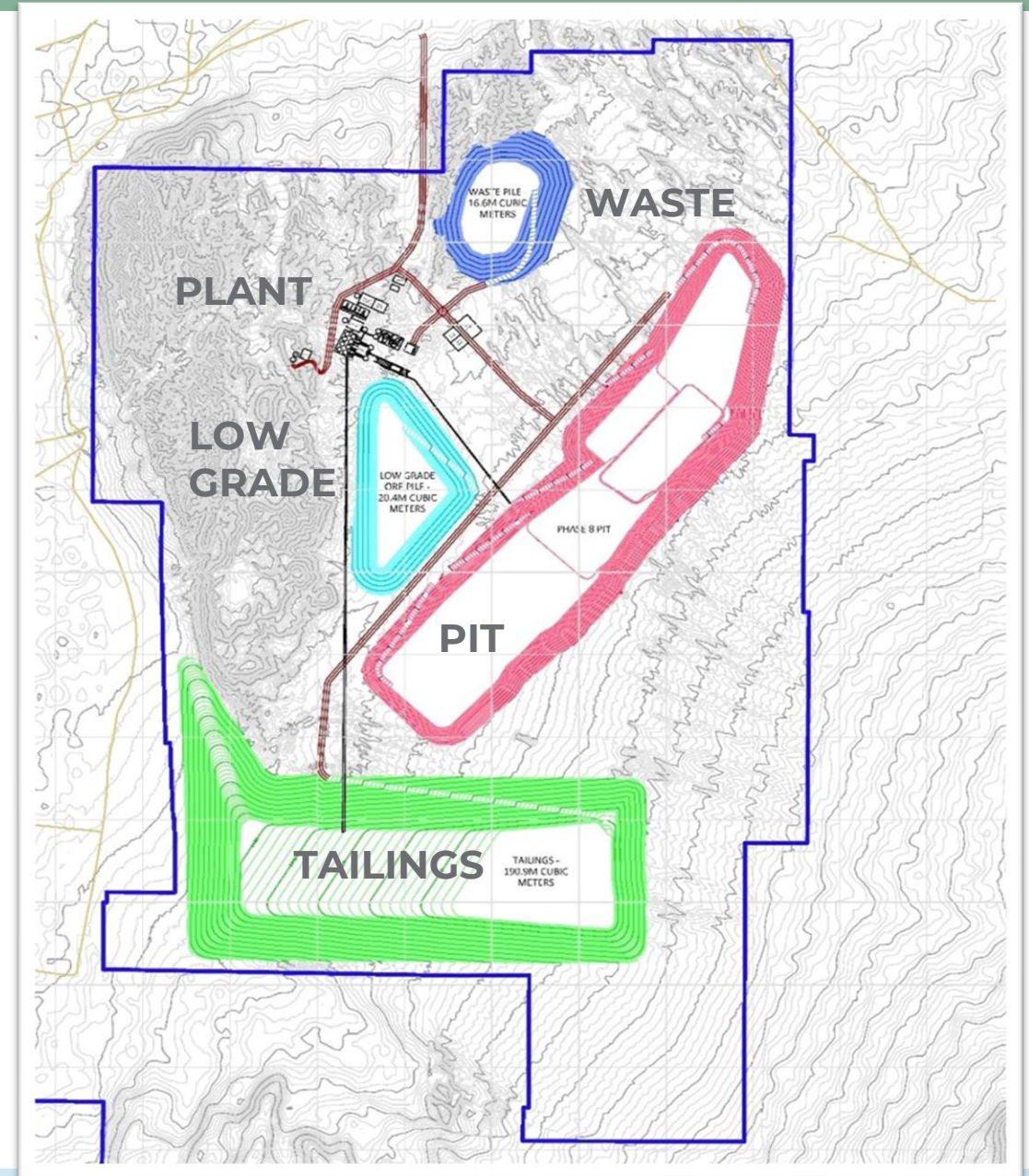
\$3,387/tonne

* Effective Date August 5, 2020; amended March 15, 2021



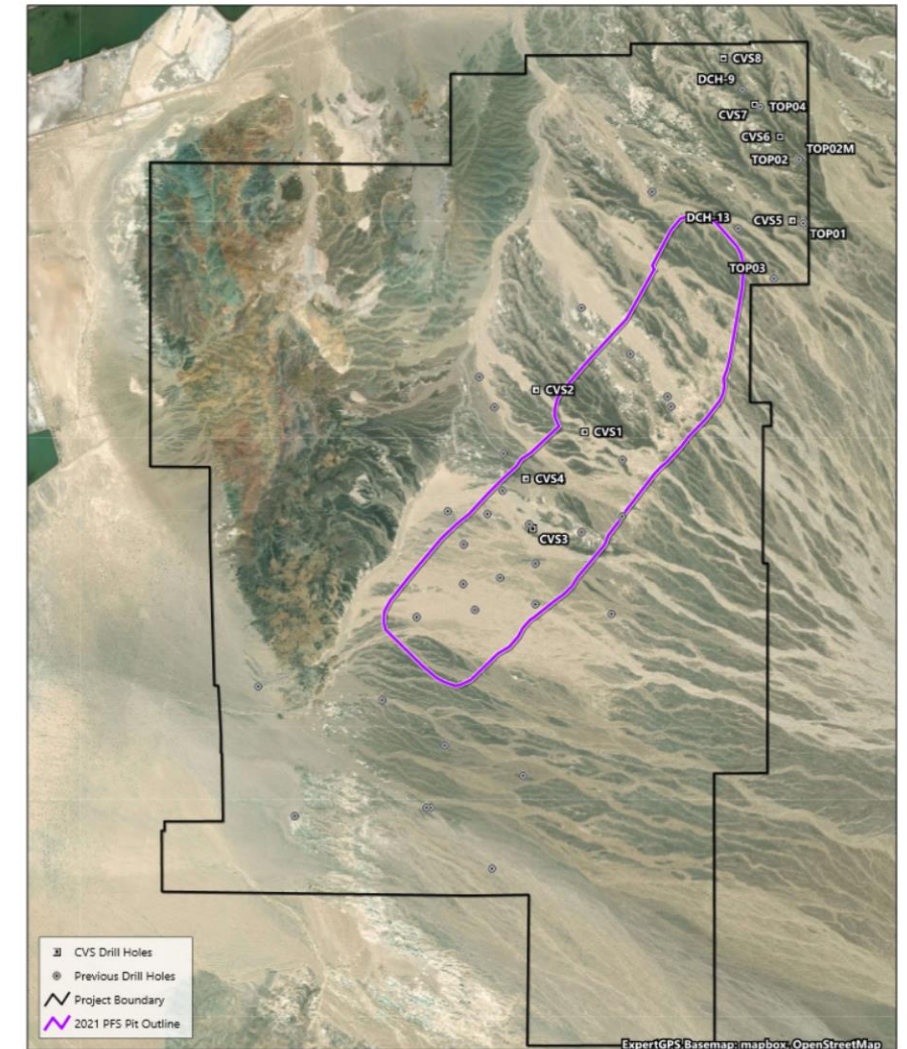
PFS Design Assumptions

- Operating rate of 15,000 tpd
 - 5.5 million tpy mill feed @ 1100 ppm Li
 - 40-year mine life
 - < 0.3 : 1 strip ratio (O/B to feed)
 - Conveyor from pit to leach plant
- 2,500 tpd sulfuric acid plant on site
- Agitated tank leaching followed by DLE recovery of lithium
- Production of LCE on-site
- Production estimate of 27,400 tonnes LCE



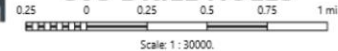
Results from 2022 Sonic Drill Program

- 70.1 meters of 1,336 parts per million lithium
- Successful use of sonic drilling to obtain six- and four-inch diameter cores
- Completed 580 meters in eight drill holes – 61 to 76 meters in depth
- Acquired 15 tonnes of claystone for testing at the Company's Pilot Plant
- Confirmed resource model built by Global Resource Engineering
- Confirmed drill data obtained in the acquisition of Enertopia Corporation's property



CENTURY LITHIUM

CVS DRILL HOLES



CENTURY LITHIUM

TSX.V: LCE

OTCQX: CYDVF

Lithium Extraction Facility

AMARGOSA VALLEY SITE

Sodium salt-based chemistry

Metallurgically advanced – utilizing DLE

- Average lithium recovery – 83%
- Average DLE recovery > 99.5%

Operating safely for over 22 months

Producing high-purity lithium carbonate



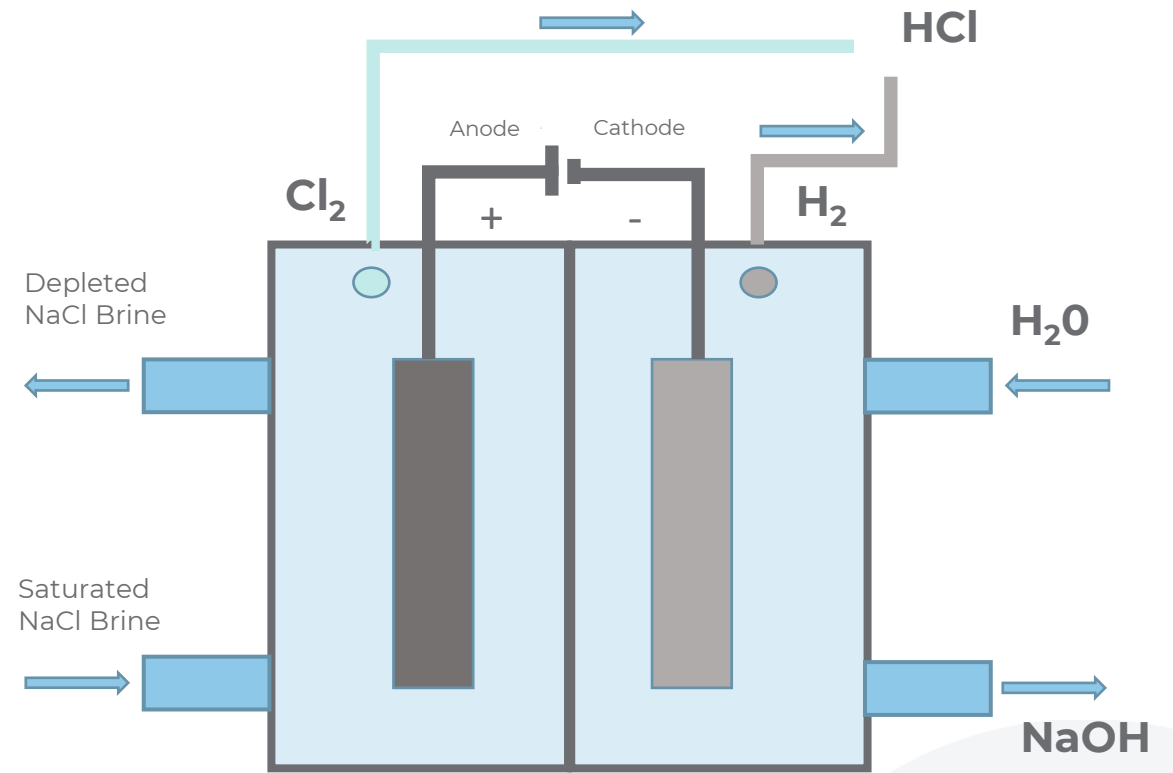
Pilot Plant Objectives

PLANT AREA	OBJECTIVE	RESULTS
Overall	Optimize lithium extraction	✓ Positive results from DLE
Leaching	Feed size, time and conditions	✓ Good initial results – up to 85%
Tailings	Washing, moisture content	✓ Achieved <40% moisture content
Solution Treatment	PIR/SIR/TIR performance	✓ Assimilated into CCD circuit
Lionex Process (DLE)	Test process, determine if effective	✓ Obtained 99.5% recovery of lithium; Currently collaborating with Koch
Lithium Carbonate	Achieve battery grade in purity	✓ Achieved 99.94% Li_2CO_3
Chlor-Alkali	Determine brine quality for feed	✓ thyssenkrupp nucera contracted

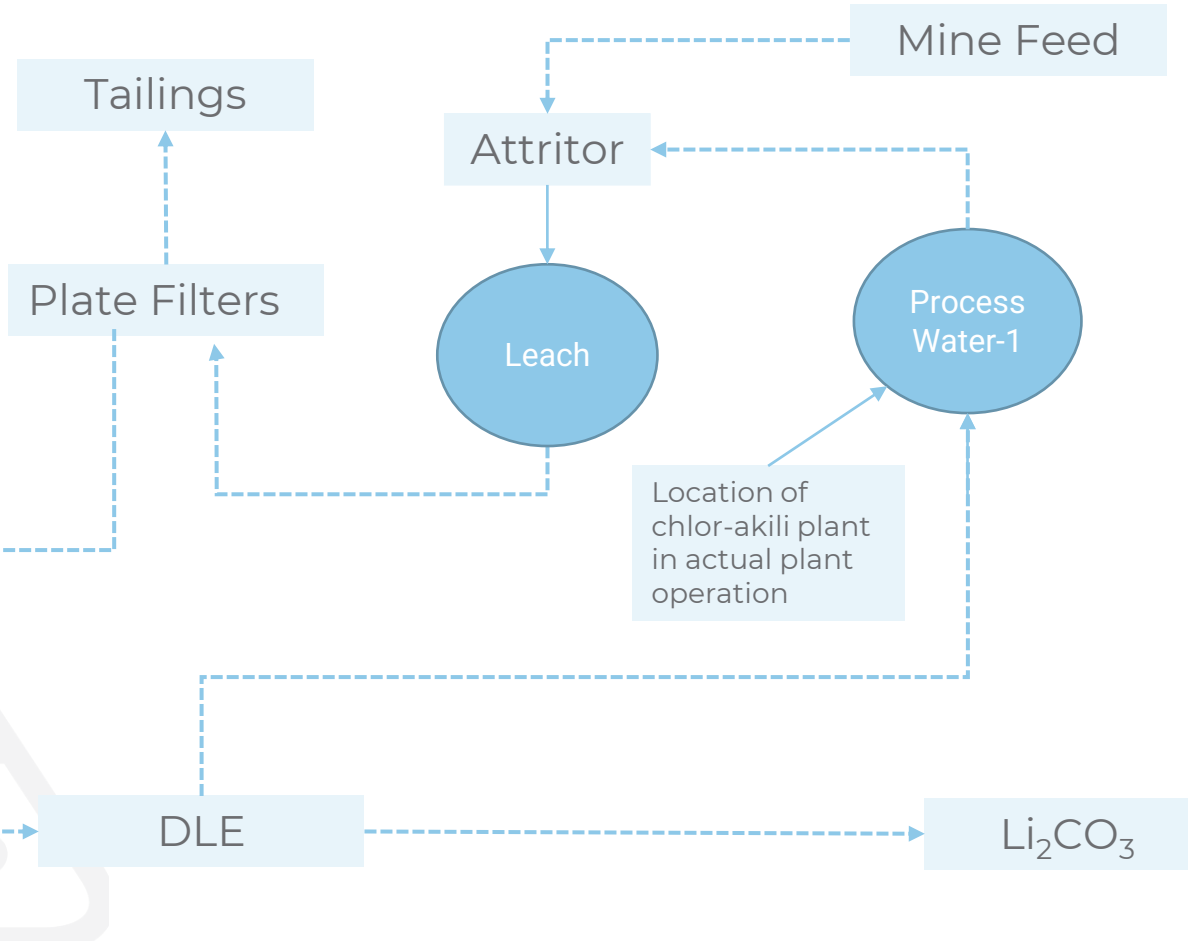


Chlor-Alkali Plant in Feasibility Study

- Why Chlor-Alkali?
- Clayton Valley brine is source of sodium chloride
- Chlor-alkali process supports ESG goals
- Chlor-alkali allows on-site generation of key reagents: hydrochloric acid & sodium hydroxide through recycle of sodium and chlorine created within the process
- Most major components for process developed on site through robust recycling of water and salt components back to process and reused which in-turn supplies chlor-alkali
- Allows sale of surplus products (sodium hydroxide)
- Haulage and supply of sulfur possibly problematic as Frasch facilities are shut down



Extraction Process



thyssenkrupp nucera Engaged to Design & Engineer Chlor-Alkali Plant in Feasibility Study

- thyssenkrupp nucera offers world leading technologies for high-efficiency electrolysis plants
 - Including chlor-alkali electrolysis, HCl electrolysis & alkaline water electrolysis
- The Chlor-Alkali Plant allows on-site generation of key reagents: hydrochloric acid & sodium hydroxide in order to produce lithium carbonate
- Design required to ensure compatibility of brine stream with the membrane cells of the Chlor-Alkali Plant facility concept for treatment of recovered brine stream from process



Century Lithium & Koch Technology Solutions (KTS) Collaborate on Li-Pro™ Process for Commercial Direct Lithium Extraction



- Equipment for KTS' Li-Pro™ process for Direct Lithium Extraction (DLE) has been installed and is now operating at Century Lithium's Lithium Extraction Facility ("Pilot Plant")
- KTS is also providing engineering design and cost data for the full-scale DLE portion of the processing plant for Century Lithium's Project
- Independent from the Project's ongoing Feasibility Study
- Century Lithium is funding the study and operating the equipment at the Pilot Plant
- KTS is providing training and technical support

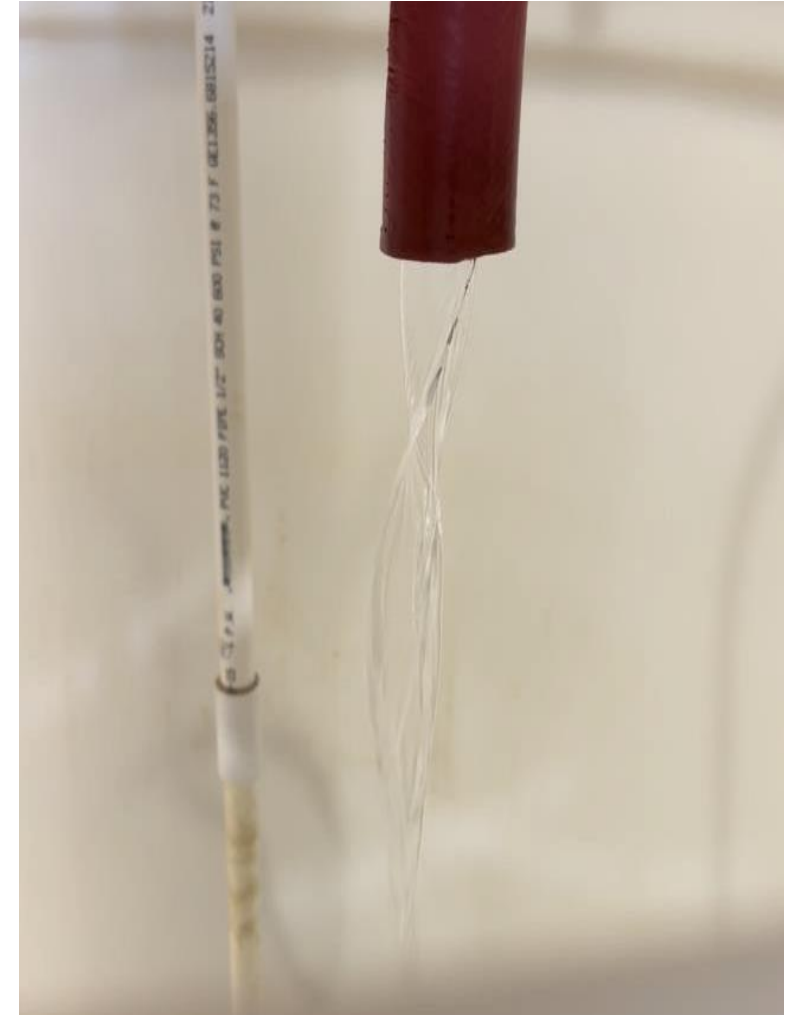


Extraction Testing of Lithium-Bearing Claystone



Lithium Extraction Pilot Plant Results

- Continuous 24-hr per day operation achieved
- Extractions of lithium in leaching between 83% and 85%
- Flowsheet simplified
- Magnesium, iron, aluminum and other impurities removed in PIR/SIR
- DLE process recovering 99.5% lithium from the DLE portion of the Pilot Plant
- Intermediate solution produced containing 2,700 ppm lithium and insignificant impurities - suitable for further concentration
- On-site evaporation to further concentrate Intermediate Solution to 30 – 50 gpl for off-site production of lithium product
- Li_2CO_3 made off-site with 99.94% purity in September 2022



Extraction Testing of Lithium-Bearing Claystone



CONFIRMED: Battery Grade Lithium Carbonate 99.94% Purity

- Enhanced battery grade Li_2CO_3 (lithium carbonate) made
 - 99.94% or “Three Nines” purity
- Exceeded the standard for battery grade (99.5%)
- Li_2CO_3 derived from 7 gram/liter intermediate concentrated lithium solution
- Saltworks Technologies completed the processing system design and pilot work to make the Li_2CO_3
- Independent analyses of product samples completed by SGS Canada
- Saltworks to integrate designs into our Lithium Extraction Facility
- Enhanced battery grade Li_2CO_3 for use in Electric Vehicle battery applications



Feasibility Study Summary

Feasibility Study Highlights

- AACE Class 3 Estimate
- 15,000 tons/day of ore processed, 40-year mine life
- 27,000 tons/year lithium carbonate produced
- Salt and energy in, lithium, caustic soda, and HCl out, with recycling of goods and services

Engineering

- Base engineering near complete
- Plant Site on Angle Island with underlying competent base rock
- Capital and Operating Cost Estimate being completed and reviewed
- All water recycled where possible

Resource Friendly

- Efficient use of water, salt, and land
- Tailings facility to backfill a portion of pit
- Potential use of solar and geothermal energy sources under development near project
- Population centers close enough for labor pool

Permitting

- Favorable jurisdiction – Nevada, USA
- Environmental baseline studies progressing with some completed
- Permitting ongoing as data comes available
- Away from population centers and community of Silver Peak
- Water rights permit in place



Environmental & Social Governance



Initial baseline studies completed



Project design will minimize environmental and cultural impact



Opportunities for **Renewable Energy**

- Solar and Geothermal



Focus on effective water and land management



Commitment to working with **local communities** for an economic, **safe** and **sustainable** operation



Moving Forward – The Year Ahead

- Complete Feasibility Study – H2 2023
- ESG Improvements
 - Connect with local community
 - Study alternatives to recycle sodium, chlorine, and water
 - Pursue solar and geothermal energy solutions
- Optimize lithium carbonate production
- Examine marketing of **sodium hydroxide** biproduct
- Pursue Financial Opportunities
 - Strategic Partnership & Federal Funding (grants / loans)
- Complete Plan of Operations
- Initiate NEPA permitting process with BLM and state of Nevada
 - Begin EA or EIS
 - Begin state and local permitting process
- Pursue on-site production of lithium carbonate



Summary

Advanced Stage Project

- Fully financed to production decision
- Feasibility stage lithium clay project
- **40+ year** life of mine
- Advanced extractive metallurgy

Pilot Plant Program

- Metallurgically advanced – utilizing DLE
 - Average lithium recovery - **99.5% in DLE**
- Continuous operations achieved
- Data generated for support of Feasibility Study

Confirmed Battery Grade Li_2CO_3

- Successfully produced **99.94% Li_2CO_3** battery grade purity with low level impurities
- Integrate designs into Lithium Extraction Program

Permitting

- Favorable jurisdiction – Nevada, USA
- Opportunities for renewable energy:
 - Solar & Geothermal
- **Water rights permit** in place



Claystone Sample Crushed & Screened



Filtration System & Tailings



Plate Filters



Tailings



Leaching System



CCD Thickeners



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