



CENTURY LITHIUM

Unleashing the Energy of Tomorrow

Corporate Presentation

APRIL 2025

Cautionary Statement

TECHNICAL INFORMATION

Scientific and technical information in this presentation about Angel Island (formerly the Clayton Valley Lithium Project) was reviewed and approved by Daniel Kalmbach, CPG Century Lithium Corp.'s Manager, Geology and Technical Services and a qualified person under National Instrument 43-101 Standards of Disclosure for Mineral Projects (NI 43-101). Further information about Angel Island, including a description of the key assumptions, parameters, description of sampling methods, data verification and QA/QC programs, methods relating to Mineral Resources and Mineral Reserves and factors that may affect those estimates are contained in the report titled *NI 43-101 Technical Report on the Feasibility Study on the Clayton Valley Lithium Project, Esmeralda County, Nevada, USA*, April 29, 2024 (now known as Angel Island), available on SEDAR+ and on the Company's website.

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 news releases, latest Management Discussion and Analysis and Financial Statements for the Nine Months Ended September 30, 2024, 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.com or on the Company's profile at www.sedarplus.com.

FORWARD LOOKING STATEMENTS

This presentation contains certain forward-looking statements within the meaning of applicable Canadian securities legislation. In certain cases, forward-looking statements can be identified with words such as "plans", "expects", "does not anticipate", "believes" or variations of such words and phrases or statements that certain actions, events or results "may", "could", "would", "might", "will be taken", "occur", "be achieved" and similar expressions suggesting future outcomes or statements regarding an outlook. Forward-looking statements relate to any matters that are not historical facts and statements of our beliefs, intentions and expectations about developments, results and events which will or may occur in the future, without limitation, statements with respect to the potential development and value of Angel Island and benefits associated therewith, statements with respect to the expected project economics for Angel Island, such as estimates of life of mine, lithium prices, production and recoveries, capital and operating costs, IRR, NPV and cash flows, any projections outlined in the Feasibility Study in respect of Angel Island, the permitting status of Angel Island and the Company's future development plans.



An Advanced Stage Lithium Company

Angel Island – Esmeralda County, Nevada, USA

- Feasibility Study* completed in April 2024 on large lithium-bearing claystone resource
- Three-phase mining and processing plan with **end-to-end process for production of Li_2CO_3** (lithium carbonate)
- **35,000 tpa** (tonnes per annum) of average for LOM (life-of-mine) estimated over a 40-year mine-life
- Cash-flow model based on **\$24,000/t** and **\$600/t** with NaOH (sodium hydroxide)
- **\$2,833/t** Li_2CO_3 with NaOH credits for LOM average estimated operating costs
- **Water rights permit owned** in Clayton Valley basin

*Note: the internal optimization study is an initial internal, non-independent review of optimization work, and studies related to the estimated capital expenses described in the NI 43-101 Technical Report on the Feasibility Study on the Clayton Valley Lithium Project, Esmeralda County, Nevada, USA, April 29, 2024 (now known as Angel Island)

Developing Angel Island

- **Permitting** - most baseline studies approved and Plan of Operations underway
- **MOU for offtake of NaOH** with Orica Specialty Mining Chemicals
- An internal optimization study* indicates a potential for **reduction of the estimated capital expenses for the Phase 1 Plan outlined in the 2024 Feasibility Study* of up to 25%** – will require an updated feasibility study for disclosure

Demonstration Plant – Amargosa Valley, Nevada, USA

- Patent-pending process for chloride leaching - combined with DLE (Direct Lithium Extraction)
- Battery-grade Li_2CO_3 samples **made on-site**



Share & Trading Information

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

Issued & Outstanding	149.5 M
Warrants	nil M
Options	7.5 M
Fully Diluted	157 M
Market Capitalization	~\$50 M
Cash Position*	~\$ 6.3 M
TSX.V 52 Week High – Low	\$ 0.93 – \$ 0.165
OTCQX 52 Week High – Low	US\$ 0.70 – \$ 0.10

Share Structure as at April 1st, 2025
 * Cash position as at Q4 2024

ANALYST COVERAGE

Alliance Global Partners	Jake Sekelsky
Noble Capital Markets	Mark L. Reichman
Hallgarten & Company	Christopher Ecclestone



U.S. Government & Accelerated Mineral Production

Executive Order ***Immediate Measures to Increase American Mineral Production**** issued on March 20, 2025

- Intends to “**facilitate domestic mineral production to the maximum extent possible**” by
 - “immediately” approving existing plans of operation or other applications within an agency’s authority
 - compiling a list of projects to be considered under the FAST-41 program
 - preparing recommendations to clarify treatment of “waste rock, tailings, and mine waste disposal” under the 1872 Mining Laws (re: Rosemont Copper decision)
- Provides for **considerably broader possibilities for project financing/funding to facilitate all facets of mineral production** (defined as “mining, processing, refining, and smelting” under this EO)



*Note: www.whitehouse.gov/presidential-actions/2025/03/immediate-measures-to-increase-american-mineral-production



Investment Highlights



ADVANCED STAGE

- Supported by April 2024 Feasibility Study* for a 3-phase development plan
- End-to-end process for lithium production
- Average LOM estimated operating costs* \$8240/t of Li_2CO_3 and **\$2833/t** after NaOH credits



PROVEN TECHNOLOGY

- Patent-pending process integrating alkaline leaching with cutting-edge DLE technology
- Process validated with operational pilot plant, now in fourth year of R&D and repeatedly making battery-grade Li_2CO_3



KEY MILESTONES

- Non-binding MOU in place for offtake of byproduct NaOH with Orica Specialty Mining Chemicals
- Own water rights permit in Clayton Valley Basin
- Most baseline surveys submitted and approved with Plan of Operations underway



DEMONSTRATION PLANT

- Tests exceed industry standard battery-grade Li_2CO_3 specs of 99.5%
- Quality meets general standards for use in electric vehicle batteries
- Ability to repeatedly make a high-purity Li_2CO_3

*Note: NI 43-101 Technical Report on the Feasibility Study on the Clayton Valley Lithium Project, Esmeralda County, Nevada, USA, April 29, 2024 (now known as Angel Island)



Angel Island – Overview

Nevada

Tier 1 jurisdiction for mining

100% owned

Billion tonne lithium clay resource on Federal US mining claims

Access

In a chloride basin adjoining Silver Peak, an established producer of lithium brine

Water

Own water rights permit 1,770 acre-feet/year

Power

Adjacent to Greenlink West, a planned 525 KV power corridor



Angel Island – Clayton Valley



NE project looking SW
outcropping lithium-bearing claystone



Central project looking NW
Angel Island in the background



Comparison of Nevada Lithium Projects

Host	Company	Project	Project Status	Finance Status
Brine	Albemarle*	Silver Peak Operation	Producing	-
	SLB/Pure Energy*	Clayton Valley	PEA, Pilot Plant	-
Claystone	Century Lithium	Angel Island	Feasibility, Pilot Plant	Discussions underway with DoE
	Lithium Americas	Thacker Pass	In construction	\$2.26 billion from DoE
	Ioneer	Rhyolite Ridge	Construction in 2025	\$968 million from DoE

* Adjoining Century Lithium



Angel Island – Project Elements

Mining

- Shallow surface mine with limited overburden
- Soft claystone lithologies
- No drilling or blasting required for excavation

Leaching

- High relative extractions of lithium from clay
- Low reagent consumptions

Filtration

- Easy separation of clay solids from liquid
- Direct lithium extraction
- Li_2CO_3 production on-site

Chlor-Alkali Plant

- HCl and NaOH generated on-site
- Using salt, water and power



Angel Island – Project Fundamentals*

In \$US

End-to-end process

- 35,000 tpa average estimated LOM production of battery-grade Li_2CO_3 on-site

Positive Economics

- IRR 17.2% and NPV \$3.16B (after tax) using Li_2CO_3 price of \$24,000/t
- Low average LOM estimated operating costs \$8240/t Li_2CO_3 or \$2833/t after NaOH credits

Phased Production Plan

- First Phase estimated capital cost \$1.581B

Large Resource

- Mineral Reserves total 287Mt (million tonnes) @ 1149 ppm (parts per million) Li (lithium) containing 1.76Mt LCE (lithium carbonate equivalent)

Water Rights Permit

- In Clayton Valley basin for 1,770 acre-feet/year

*Note: NI 43-101 Technical Report on the Feasibility Study on the Clayton Valley Lithium Project, Esmeralda County, Nevada, USA, April 29, 2024 (now known as Angel Island)



Angel Island – Resources & Reserves*

Mineral Resource Estimate				
	Tonnes Above Cut-off (millions)	Li Grade (ppm)	Li Contained (million t)	LCE (million t)
Measured	858.26	990	0.850	4.523
Indicated	280.33	891	0.250	1.329
Measured & Indicated	1,138.59	966	1.099	5.582
Inferred	187.28	820	0.154	0.817

The effective date of the Mineral Resource Estimate is April 29, 2024. The QP for the estimate is Ms. Terre Lane, MMSA, an employee of GRE and independent of Century. The Mineral Resources are constrained by a pit shell with a 200 ppm Li cut-off and density of 1.505 g/cm³. The cut-off grade considers an operating cost of \$20/t mill feed, process recovery of 78% and a long-term lithium carbonate price of \$24,000/t. The Mineral Resource estimate was prepared in accordance with 2014 CIM Definition Standards and the 2019 CIM Best Practice Guidelines. Mineral Resource figures have been rounded. One tonne of lithium = 5.323 tonnes lithium carbonate. Mineral Resources are inclusive of Mineral Reserves.

Mineral Reserve Estimate				
	Tonnes Above Cut-off (millions)	Li Grade (ppm)	Li Contained (million t)	LCE (million t)
Proven	266.39	1,147	0.306	1.626
Probable	21.26	1,174	0.025	0.133
Proven & Probable	287.65	1,149	0.330	1.759

The effective date of the Mineral Reserve Estimate is April 29, 2024. The QP for the estimate is Ms. Terre Lane, MMSA, an employee of GRE and independent of Century. The Mineral Reserve estimate was prepared in accordance with 2014 CIM Definition Standards and 2019 CIM Best Practice Guidelines. Mineral Reserves are reported within the final pit design at a mining cut-off of 900 ppm. The mine operating cost is \$5.44/t milled, processing cost of \$40.9/t milled, G&A cost of \$2.68/t milled and a credit for the NaOH sales of \$28.95/t milled. The NaOH sales credit is proportionally applied to all the operating costs to get appropriate costs for the cut-off grade calculation. The cut-off grade considers a mine operating cost of \$2.22/t, a process operating cost of \$16.69/t milled, a G&A cost of \$1.09/t milled, process recovery of 78% and a long-term lithium carbonate price of \$24,000/t. The cut-off of 900 ppm is an elevated cut-off selected for the mine production schedule as the elevated cut-off is 4.5 times higher than the break-even cut-off grade. Mineral Reserve figures have been rounded. One tonne of lithium=5.323 tonnes lithium carbonate.

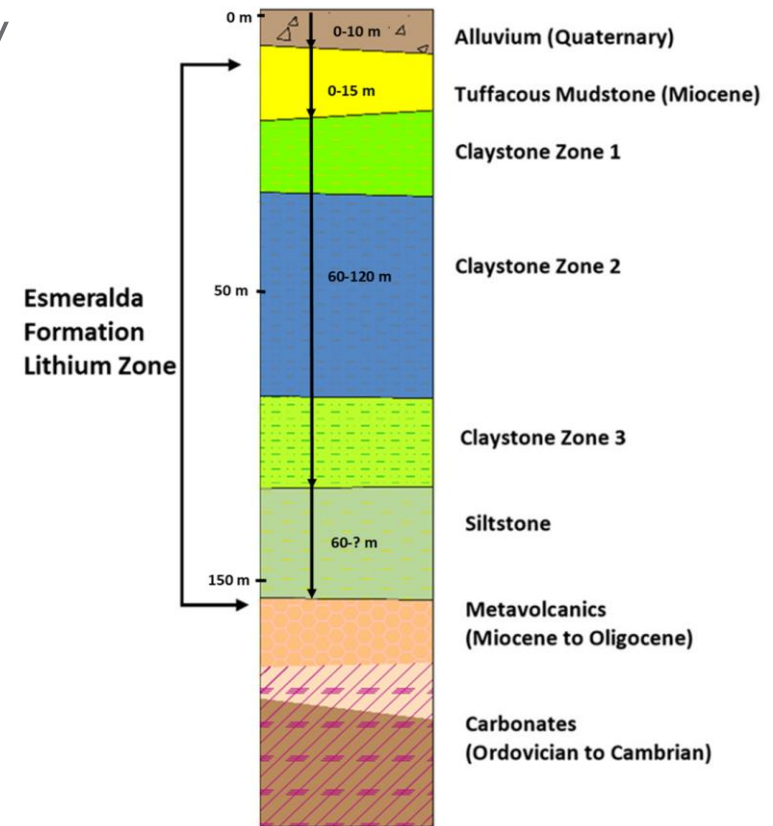
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Claystone from Angel Island

Angel Island – Deposit Features & Lithology

- **Extensive** flat-lying deposit
- **Lithium** in illite and montmorillonite clays to depth of 150m
- **Minimal** gravel overburden
- **Soft clay** no drilling or blasting required
- **Leachable clay** with low reagent consumptions



Angel Island – Feasibility Study Results*

After-tax cash-flow analysis in US\$

	Initial Phase 1	Expansion Phase 2	Expansion Phase 3
Years	1 - 4	5 - 8	9+
Mining Rate	7,500 tpd	15,000 tpd	22,500 tpd
Average Annual Li ₂ CO ₃ Production	13,000 tpa	28,000 tpa	39,000 tpa
Estimated Capital Costs	\$1.581 billion	\$657 million	\$1.339 billion
LOM Average Estimated Operating Costs		\$8,240/t	
With NaOH Credit		\$2,833/t	
Net Present Value (NPV 8%)		\$3.16 billion	
LOM Average Li ₂ CO ₃ Production		35,000 tpa	
Internal Rate of Return (IRR)		17.2%	
Base Case Price for Li ₂ CO ₃		\$24,000/t	
Base Case Price for NaOH		\$600/t	



Angel Island Claystone feed for Demonstration Plant

*Note: NI 43-101 Technical Report on the Feasibility Study on the Clayton Valley Lithium Project, Esmeralda County, Nevada, USA, April 29, 2024 (now known as Angel Island)

Angel Island - Economic Model & Sensitivity*

US\$

Variation	Units	-25%	Base Case	+25%
Lithium Price	%/t LCE	\$18,000	\$24,000	\$30,000
NPV-8%	\$B	\$1.58	\$3.16	\$4.70
IRR	%	12.9%	17.2%	21.0%
Lithium Grade	ppm	862	1,149	1,436
NPV-8%	\$B	\$1.58	\$3.16	\$4.70
IRR	%	12.9%	17.2%	21.0%
Capital Cost incl. Sustaining Capital	\$M	\$2,919	\$3,892	\$4,864
NPV-8%	\$B	\$3.78	\$3.16	\$2.53
IRR	%	21.8%	17.2%	14.2%
Operating Cost	\$/t LCE	\$6,145	\$8,194	\$10,242
NPV-8%	\$B	\$3.68	\$3.16	\$2.62
IRR	%	18.6%	17.2%	15.7%

*Note: NI 43-101 Technical Report on the Feasibility Study on the Clayton Valley Lithium Project, Esmeralda County, Nevada, USA, April 29, 2024 (now known as Angel Island)

Cash-flow Model Developed Using

- \$24,000/t for Li_2CO_3 and \$600/t NaOH

Produces

- 17.2% after-tax IRR (internal rate of return)
- \$3.16 billion NPV (net present value) at 8% discount
- \$8240/t Li_2CO_3 average LOM estimated operating costs or \$2833/t after NaOH credits
- \$1.581B first phase estimated capital cost
- 35,000 tpa Li_2CO_3 average estimated LOM production

Angel Island - Capital Cost Estimates*

US\$ - millions

Installed Capital Costs (\$M)	Phase 1	Phase 2	Phase 3
Mining & Site Preparation	\$65	\$6	\$29
Process Facilities	\$517	\$205	\$477
Chlor-Alkali Plant	\$496	\$336	\$496
Buildings, Services & Infrastructure	\$130	\$5	\$42
Indirect & Owners Costs	\$277	\$79	\$190
Contingency	\$96	\$26	\$105
Total Installed Cost	\$1,581	\$657	\$1,339

*Note: NI 43-101 Technical Report on the Feasibility Study on the Clayton Valley Lithium Project, Esmeralda County, Nevada, USA, April 29, 2024 (now known as Angel Island)

Phased Approach to Mine Plan

- Reduces capital risk and exposure
- Eases construction timelines and labor demands
- Viable equipment procurement and installation
- Utilizes all estimated Mineral Reserves*



Angel Island – Internal Optimization Study*

Century Lithium's review of the 2024 Feasibility Study led to an **Internal Optimization Study***

- The internal optimization study* indicates a potential for **reduction of the estimated capital expenses for the Phase 1 Plan outlined in the 2024 Feasibility Study* of up to 25%**
- The information in the internal optimization study will require in an **updated Feasibility Study** for disclosure

Potential areas for reductions:

- Changes in flow sheet, equipment selection and updated vendor quotes in the processing areas of filtration, DLE and the chlor-alkali plant
- Evaluation of the estimated engineering and construction plans to **identify areas of overlap** and locations within the plan where modifications of site facilities and elimination of redundancies and inefficiencies may further streamline the process
- **Reductions in the estimated cost for on-site services** resulting from the changes in processing
- **Reduction in estimated indirect costs for contingency and EPCM** calculated in the Feasibility Study as a percentage of direct costs related to the potential cost reductions above

*Note: the internal optimization study is an initial internal, non-independent, review of optimization work, and studies related to the estimated capital expenses described in the NI 43-101 Technical Report on the Feasibility Study on the Clayton Valley Lithium Project, Esmeralda County, Nevada, USA, April 29, 2024 (now known as Angel Island)



Demonstration Plant – Armargosa Valley



Demonstration Plant Facilities



Components of Demonstration Plant



Demonstration Plant – Overview

- **Patent-pending process** integrating chloride leaching with cutting-edge DLE technology
- **Entering fourth year of R&D** and repeatedly making battery-grade Li_2CO_3 over 99.5% purity on- and off-site
- **Feed material** grades from Angel Island average 1,149ppm
- **Leach solution** concentrations have ranged from 200 to 320ppm Li
- **Lithium extractions** average 88% and have ranged from 80 to 95%, with an overall lithium recovery of 78%
- **Evaluating adaptability** of Century Lithium's process for use on alternative lithium feedstocks, brine, spodumene concentrates, and recycled materials



Li_2CO_3 circuit at Demonstration Plant



Demonstration Plant – Recent Developments

- **Making battery-grade Li_2O_3 on-site** using lithium solutions derived from Angel Island claystone
- **Li_2O_3 purity exceeding 99.5%** repeating the making of battery-grade Li_2CO_3
- **Eliminated downstream processing** using a verified end-to-end process
- **Supply Li_2O_3 test samples** to OEMs and strategic partners
- **Process improvements implemented** in collaboration with Amalgamated Research, LLC
- **Reduced recycle loops** within the DLE and lithium carbonate areas, while increasing eluate grades



Li_2CO_3 made at Demonstration Plant

Demonstration Plant – Chlor-Alkali Process

Salt is the Key

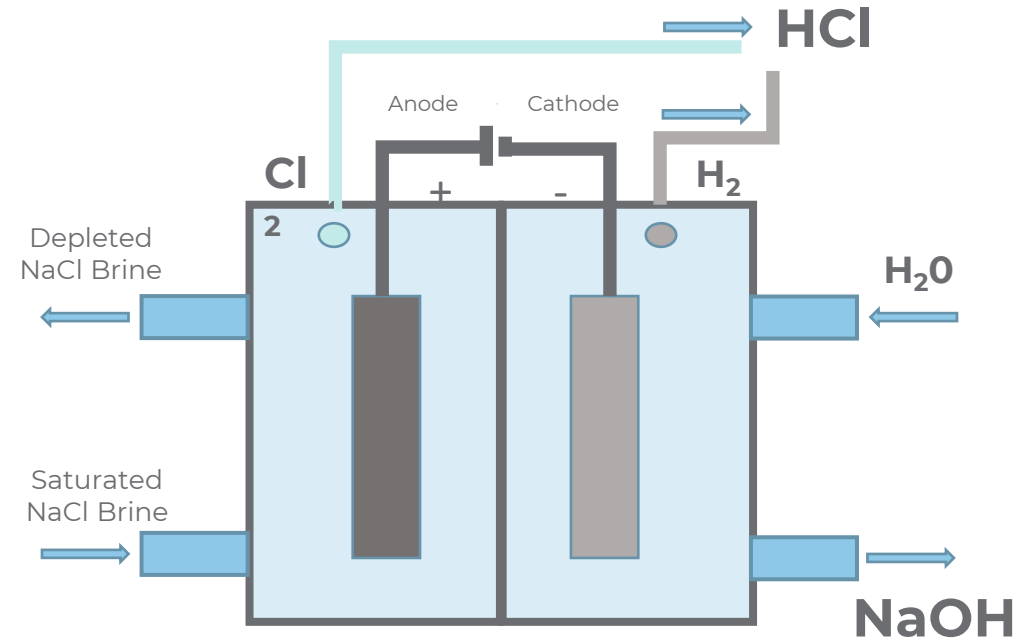
- NaCl (sodium chloride) sources are abundant in the western United States
- Clayton Valley brines are a potential source

On-site reagent generation

- HCl (hydrochloric acid)
- NaOH

Advantages for Angel Island

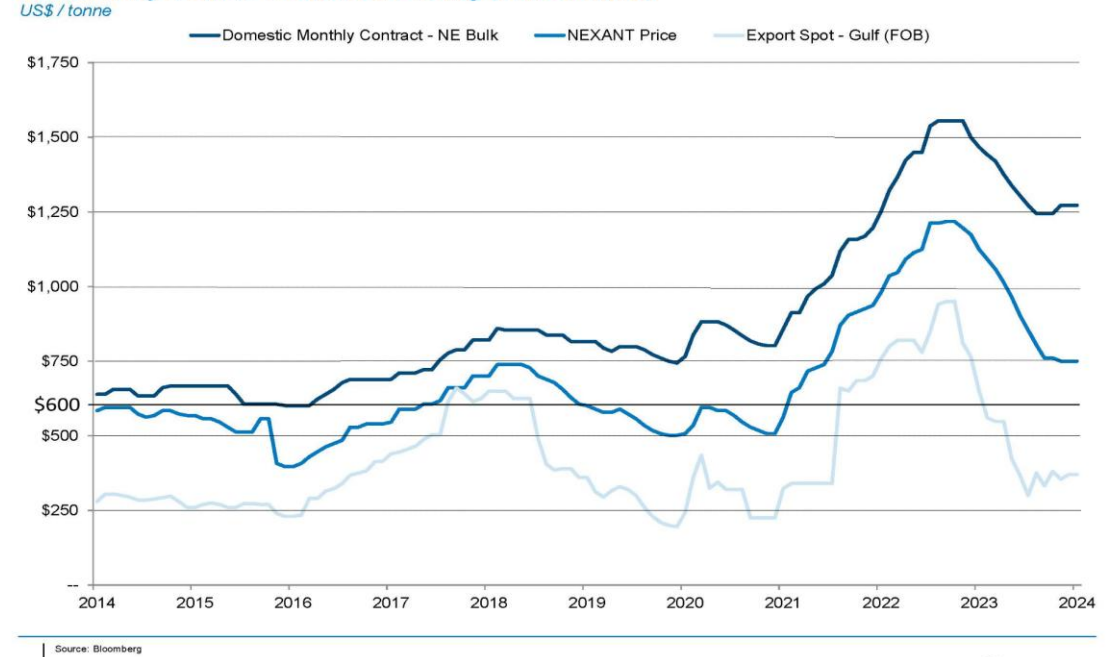
- Primary components for process developed on site
- Water and all salt components are recycled and reused
- Process is not tied to hydrocarbon production or oil fields
- Surplus NaOH available for sale



Angel Island – Sodium Hydroxide Facts

- **Primary uses** of NaOH are
 - Pulp and paper manufacturing
 - Water treatment – both industrial and municipal
 - Making of sodium hypochlorite (bleach)
 - Mining – primarily making of sodium cyanide for gold projects
 - Agriculture – fertilizers
- **NaOH demand** is closely linked to the general economy and expected to grow linearly with the US economy
- **Forecasts indicate** the US will need new capacity as growth in China increases and absorbs Asian supply and US plants are forced to close or upgrade from older technology
- Global Exchange indicates that prices above **\$800/dmt** (dry metric tonne) will be sustainable over the long term

Sodium Hydroxide Historical Pricing (United States)



Angel Island – Non-Binding MOU for Sodium Hydroxide Sales

- **Orica Specialty Mining Chemicals** a leading mining and infrastructure solutions provider and major US manufacturer and supplier to Nevada's mining industry
- **Purchase of Membrane-grade NaOH** surplus from Angel Island's future chlor-alkaline plant
- **Initial 5-year term** and right of first offer for an additional 5 years - pricing to be determined by definitive agreement
- **Sales to Nevada** and western US markets
- **Orica – Century Lithium** relationship will strengthen the US supply chain, reduce reliance on imports of NaOH to the US and support Nevada's mining industry



Pearl or flake NaOH



NaOH in solution



Environmental & Social Governance



Initial baseline studies completed



Project design will minimize environmental and cultural impact



Opportunities for use of **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

- Continue to test Li_2CO_3 with domestic original equipment manufacturers (OEMs)
- Finalize optimization program to drive reductions in the Project's estimated capital and operating costs
- Updating draft **Plan of Operations** with baseline study and engineering deliverables - preparation of key state permits underway
- Initiate NEPA permitting process
- Pursue Financial Opportunities
 - Continue to work with the U.S. **Department of Energy's** (DoE) **Loan Programs Office**
 - **Department of Defense** (DoD) - grant
 - **Strategic Partnership**



Summary

Advanced Stage Project – Nevada, USA

- One of the largest lithium deposits in the USA
- Feasibility Study* completed in April 2024
- Three-phase mining and processing plan with **end-to-end process** for production of **Li₂CO₃** on large lithium-bearing claystone resource
- **35,000 tpa** of average for LOM estimated over a **40-year mine-life**
- **Low OPEX \$2,833/t** Li₂CO₃ with NaOH credits for LOM average
- After-tax IRR of 17.2% and \$3.16 billion NPV-8% at prices of \$24,000/t Li₂CO₃

*Note: the internal optimization study is an initial internal, non-independent review of optimization work, and studies related to the estimated capital expenses described in the NI 43-101 Technical Report on the Feasibility Study on the Clayton Valley Lithium Project, Esmeralda County, Nevada, USA, April 29, 2024 (now known as Angel Island)

Permitting & Developing

- Tier 1 jurisdiction – Nevada, USA
- Most baseline studies approved and Plan of Operations underway
- MOU for **offtake of NaOH** with Orica Specialty Mining Chemicals
- An internal optimization study* indicates a potential for reduction of the estimated capital expenses for the Phase 1 Plan outlined in the 2024 Feasibility Study* of up to 25% – will require an updated feasibility study for disclosure
- **Water Rights Permit owned**

Demonstration Plant – Amargosa Valley, Nevada, USA

- Patent-pending process for chloride leaching - combined with DLE
- **On-site production** of battery grade Li₂CO₃ demonstrates the commercial viability of the project





CENTURY LITHIUM

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Contact

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APPENDIX

Century Lithium – Management

William Willoughby, PhD, PE

PRESIDENT, CEO & DIRECTOR

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

Abraham (Braam) Jonker, CPA, CA

CHIEF FINANCIAL OFFICER

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

Spiros Cacos, MA

VICE PRESIDENT, INVESTOR RELATIONS

25+ years experience in public markets, ranging from exploration and development to full scale production

Todd 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

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

Adam Knight, PE

PROJECT MANAGER

29+ years experience in management and operations of mining corporations



Century Lithium – Board of Directors

Bryan Disher

CHAIR

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

Donald G. Myers

DIRECTOR

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

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, FIChemE

DIRECTOR

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

Ken Owen, M.Sc

DIRECTOR

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



Appendix – Extraction Testing of Lithium-bearing Claystone



Pilot Plant Components

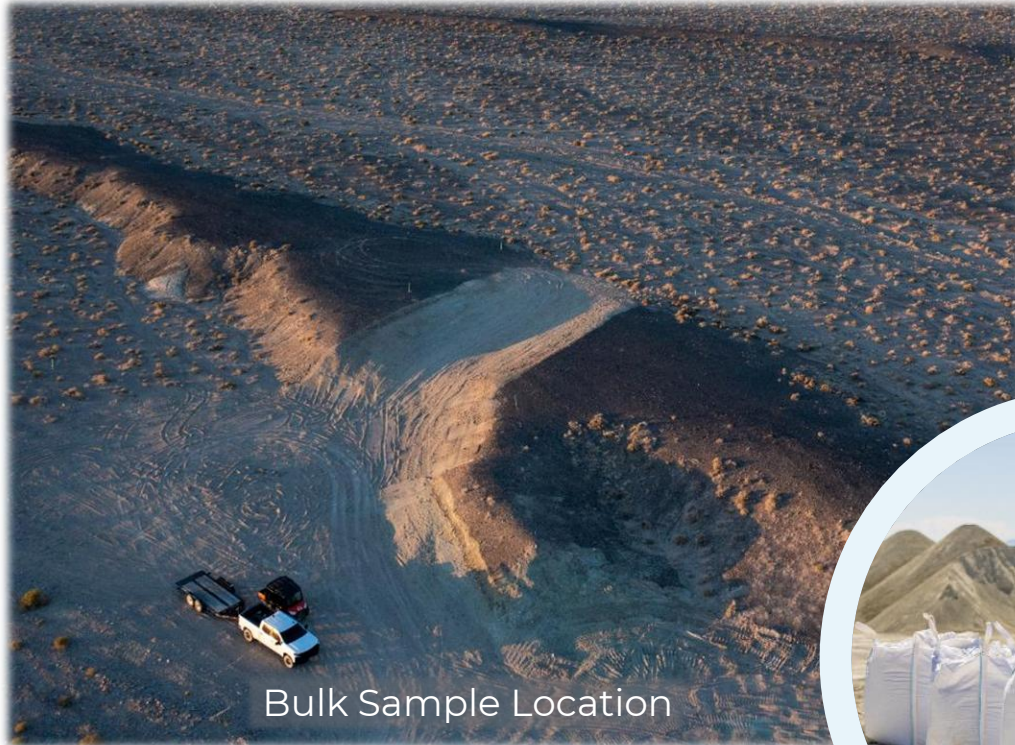


Crushed Claystone Ready to Process

Appendix – Filtration System & Tailings



Appendix – Mining & Processing of Bulk Sample



Bulk Sample Location



Crushing Claystone