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Thacker Pass Project February 5 & 6, 2020

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#### CAUTIONARY STATEMENT & DISCLAIMER

#### **Technical Information**

Scientific and technical information in this presentation about the Thacker Pass Project has been reviewed and approved by Rene LeBlanc, a qualified person under NI 43-101. Further information about the Thacker Pass Project (formerly Stage 1 of Lithium Nevada project), including a description of data verification and QA/QC programs, is available in the NI 43-101 technical report of Lithium Americas effective August 1, 2018 entitled "Technical Report on the Pre-Feasibility Study for the Thacker Pass Project, Humboldt County, Nevada, USA", available on SEDAR at www.sedar.com.

The Mineral Resource and Mineral Reserve estimates contained in this press release have been prepared in accordance with the requirements of the securities laws in effect in Canada, which differ from the requirements of United States securities laws and use terms that are not recognized by the United States Securities and Exchange Commission ("SEC"). Canadian reporting requirements for disclosure of mineral properties are governed by NI 43-101. U.S. reporting requirements are governed by the SEC Industry Guide 7 under the United States Securities Act of 1933, as amended. Accordingly, technical information set forth herein may not be comparable with information made public by companies that report in accordance with U.S. standards.

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This presentation contains "forward-looking information" within the meaning of applicable Canadian securities legislation, and "forward-looking statements" within the meaning of applicable United States securities legislation (collectively referred to as "forward-looking information"). All statements, other than statements of historical fact, are forward-looking information. Forward looking information can be identified by the use of statements that include words such as "anticipate", "plan", "continue", "estimate", "expect", "exceed", "may", "will", "project", "predict", "propose", "potential", "targeting", "exploring", "scheduled", "intend", "could", "might", "should", "believe" and similar words or expressions. Forward-looking timing, production and operation forecasts, and results thereof; all financial estimates for the Thacker Pass project; forecasts for future lithium market demand and pricing; and statements related to the expected impact, results and benefits of the Thacker Pass project.

Forward-looking information involve known and unknown risks, assumptions and other factors that may cause actual results to differ materially. These forward-looking information reflect management's current views with respect to future events, and while considered reasonable by management at this time, there can be no certainty that they will accurately reflect actual results. Assumptions upon which such forward-looking information is based include, without limitation: long term pricing and demand growth for lithium products; Lithium Americas' (and that its subsidiaries) ability to fund, advance and develop the Thacker Pass project as currently forecast, including results therefrom; a stable and supportive legislative and regulatory environment for mining development; the impact of increasing competition; ability to operate in a safe and effective manner; and ability to obtain financing on reasonable terms or at all. Our actual results, programs and financial position could differ materially from those anticipated in such forward-looking information as a result of numerous factors, risks and uncertainties, many of which are beyond our control. These include, but are not limited to: inherent risks in development of capital intensive mineral project; possible variations in mineral resource and reserve estimates; recovery rates; lithium prices; changes in project parameters as plans continue to be refined; changes in legislation or governmental policy; security of mineral property titles and permits; failure of plant, equipment or processes to operate as anticipated; accidents; acts of god or severe weather;

labour disputes; environmental liabilities; cost overruns or unanticipated costs and expenses; the availability of funds; and general market and industry conditions.

The foregoing list of risks, assumptions and uncertainties is not exhaustive. Additional information on these and other factors can be found in Lithium Americas' annual information form and most recently filed management discussion & analysis available on SEDAR and their equivalents on EDGAR. There can be no assurance that forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, readers are cautioned not to place undue reliance on forward-looking information. We do not intend, and expressly disclaims any obligation to, update any forward-looking information whether as a result of new information, future events or otherwise, except as, and to the extent required by, applicable securities laws.

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All figures in US Dollars unless otherwise noted.

### About Lithium Americas Corp.

- Merged with Western Lithium in 2016.
- Established Lithium Nevada Corp. (LNC) a wholly owned subsidiary of Lithium Americas, which is headquartered in Reno.
- Assembled team with the leading technical, financial and project execution experience in the lithium industry.
- Developing the Thacker Pass lithium-clay project in northern Nevada since 2008.
- Lithium Americas is jointly developing the Caucharí-Olaroz Lithium Brine Project, which is currently under construction.



### PROJECT PURPOSE AND NEED

- The **Purpose** of the Federal Action is to grant LNC authorization to construct and operate a lithium mine and lithium processing plant on public lands.
- There is a Need to satisfy the nation's growing demand for lithium, a critical mineral for US economic security and defense. Most lithium used in the US is processed in China.
- A **domestic supply** of lithium is important for a more reliable, efficient and cost-effective lithium battery supply chain in the US.



## **Lithium**Nevada

### Lithium Nevada's Thacker Pass Project

- Thacker Pass is 100% owned by LNC
- World Class Lithium Deposit, largest in the U.S.
- 41-year mine life, open pit lithium mine
- New, sustainable, innovative process
- Generating carbon free energy on-site, to be used in the process
- Goal to be a carbon neutral lithium mining & process operation
- Developing Project in two phases (Phase 1 & 2)
- 33,000 66,000 tpy LCE, anticipated to meet most or all of U.S. lithium demand
- Producing a variety of battery-grade lithium chemicals
- Construction 2021-2022
- Mining, Operation & Production late 2022-2065

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		Winnemucca
	Reno	
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		NEVADA
	CALIFORNIA	
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### **Montana Mountains**

Mine Area

Plant site

### PRINCIPAL FACILITIES AND RECLAMATION

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OPEN PIT

Recover 230 M CY of ore

Concurrent pit backfill using waste rock and coarse gangue material

#### STOCKPILES

Two WRSFs: 45.9 MC Y; West 3:1 Slope, East 4:1 Slope

One Coarse Gangue Stockpile: 48.4 M CY; 4:1 Slope

One Clay Tailing Storage Facility: 353.6 M CY; 4:1 Slope

Concurrent reclamation of all stockpiles when feasible

VISUAL RESOURCES/RECLAMATION Paint colors will be strategically chosen to blend with landscape OPEN PIT

Concurrently backfilled and reclaimed

STOCKPILES

Sloped and graded to blend with current topography

Concurrently reclaimed to mitigate long term visual impacts

Coated reclamation seed mix developed in conjunction with UNR

PROCESSING FACILITY

Sulfuric Acid Plant: providing acid for the process plant and also generating steam to power the project facilities

Lithium Hydroxide Facility

Lithium Carbonate Facility

Using Best Available Control Technology

Low CO<sub>2</sub> Emissions

Facilities will have primary and secondary containment

Spill Management and Emergency Management Plans developed

Sound buffering and acoustic insulation to minimize noise



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## Thacker Pass Project Plan of Operations Thacker North and South Exploration Project Plan of Operations





Source: Lithium Nevada 2019

### **ENVIRONMENTAL STUDIES AND EVALUATIONS**

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**9 Years Collecting Environmental, Land and Cultural Data** 

18,600 Acres surveyed for baseline environmental surveys

Over \$6 million spent on **Studies and Modeling** 

**Project Consolidated in** Thacker Pass, away from **Montana Mountains** 



WATER Hydrogeology Baseline Report

Aquatic Resource **Delineation Report** 

Water Quantity Impacts Assessment

Water Quality Impacts Assessment

**Baseline Geochemistry** Report



WILDLIFE Wildlife Impact Assessment Bird & Bat Survey **Eagle Conservation Plan** Est. Great Basin Sagebrush Restoration Fund at UNR NV Sagebrush Ecosystem **Technical Team** Coordination



**COMMUNITY &** CULTURE **Cultural Inventory Cultural Technical Report Cultural Treatment Plan** Socioeconomic Assessment Project Engagement Agreement with Fort McDermitt Tribe

AIR Greenhouse Gas **Emissions Report** Air Emission Inventory Air Dispersion Model **Dust Management Plan** Volunteering to use Best Available Control Technologies Class II Permit



LAND **USE/RECLAMATION** 

Soil & Growth Media Assessment

**Reclamation & Closure** Plan

**Tailings Technical Stability** Report

Pit Wall Geotechnical Report

Vegetation & Weed Report

#### PIT DEVELOPMENT

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- Concurrent Pit Backfill (west to east)
- **Concurrent Pit Reclamation** •
- No formation of a pit lake ٠

5200

5000

4800

50+00 55+00

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- Year 2055 ~ minor in-pit seepage, when mining advances into the southeast, est. 10 gpm
- Year 2065 ~ maximum in-pit seepage to peak at est. 190 gpm (anticipated)
- Sump pumps will be used to dewater and directly fill water trucks for dust suppression
- No storage tanks or dewatering wells will be needed to support dewatering

### **GENERAL PROCESS FACILITY LAYOUT**

## **Lithium**Nevada



### THACKER PASS PROCESSING





### FILTERED CLAY TAILINGS STORAGE FACILITY

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#### FACILITY DESIGN

- Safe stacking of dewatered tailings with an exterior structural tailings zone designed at ~4:1 (h:v) slope
- The CTFS is not a water-retaining structure or a dam, eliminating risk of catastrophic tailings flow
- The majority of process water will be recirculated via dewatering
- The CTFS design conforms to seismic standards
- Facility designed by NewFields, experienced in filtered tailings design.



#### ENVIRONMENT AND RECLAMATION

The facility is underlain by a geomembrane liner and a granular drainage layer to address any seepage risk

- The CTFS has been designed to avoid operational impacts at Pole Creek and to stock-watering
- The entire facility will be reclaimed, topdressed with native topsoil and re-seeded
- The facility's structural stability enables concurrent reclamation
- Coated reclamation seed mix developed with UNR to be applied.





### THACKER PASS ENVIRONMENTAL RESPONSIBILITY

Thacker Pass is designed to be a low carbon, low water usage source of lithium

- Carbon-free power generation
  - Sulfuric acid plant will provide carbon-free energy
- Low water consumption using recycling
  - Uses up to 2600 AF of well water per year for Phase 1, using existing basin water rights.
  - High water efficiency by using various water recycling techniques
- Reduced footprint using filter stacked tailings
  - Significantly less risk of ground failure than a conventional tailings pond
- Environmental baseline program completed
  - Spent over \$6 million on environmental studies and collected data from over 18,600 acres
- Established the Great Basin Sagebrush Habitat Restoration fund
  - Established fund to improve the efficacy of sagebrush habitat reclamation and stop the degradation of sagebrush habitat from wildfires



Low carbon footprint with CO<sub>2</sub> offset from carbonfree power plant

Low water consumption with process designed to recycle water



+65 million EVs reserves support lithium for +1 million electric vehicles per year



Community engagement established Great Basin Sagebrush habitat restoration fund LithiumNevada

#### COMMUNITY BENEFITS



#### SPENDING IMPACTS

\$1.3 billion in capital investment through Phase 1 and Phase 2

Ripple effect of \$650MM additional dollars added to local economy



#### COMMUNITY ENGAGEMENT

Several open houses

Regular community engagement for 8 years

Van for Fort McDermitt Tribe

Science supplies for local schools

Great Basin Sagebrush Restoration Fund

Mining Industry Foundation for Lowry High

Contributions to Winnemucca Domestic Violence Services Winnemucca Food Bank



## **Lithium**Nevada

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#### **TAXES**

**\$6.7 billion** - Federal, State and Local Taxes over the ~46-year mine life

\$24.5 million - Annual Nevada Net Proceeds of **Minerals** Taxes

**\$115.5 million -** Annual federal income taxes

**\$4.5 million** - Annual property taxes



#### **EMPLOYMENT**

1,000 jobs during construction

300+ permanent jobs following full build-out

175 jobs created indirectly in Humboldt County

### **SUMMARY**



Lithium Nevada has identified a world-class deposit at Thacker Pass capable of a >41-year mine life.

Addresses lithium critical-mineral risks for U.S.

The Lithium Nevada team plans to permit and build a sustainable mine and processing facility at Thacker Pass.

The Thacker Pass Project can have a profoundly positive impact on U.S. lithium supply and the environmental benefits that flow from electric vehicles and battery storage.

Lithium Nevada is committed to being a great Nevada business:

- listen and respond to community concerns and needs
- create great jobs for the local community
- be a leader in responsible environmental stewardship
- invest in our state through tax generation & the purchase of goods and services

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