

# Nevada Sunrise Produces Lithium Carbonate in Metallurgical Testing, Gemini Lithium Project, Nevada

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VANCOUVER, July 31, 2023 - [Nevada Sunrise Metals Corp.](#) ("Nevada Sunrise", or the "Company") (TSXV: NEV) (OTC: NVSGF) is pleased to announce further results of metallurgical testing carried out on lithium mineralization from its 100%-owned Gemini Lithium Project ("Gemini") located in the Lida Valley basin in Esmeralda County, Nevada. A substantially pure sample of lithium carbonate equivalent ("LCE") was produced from the leach solutions that realized a 90.2% lithium recovery rate reported by the Company in June 2023 (see Nevada Sunrise news release dated June 5, 2023).

## Highlights of Gemini Metallurgical Testing

- A novel method of small-scale column testing achieved a 90.2% lithium extraction rate under the direction of Willem Duyvesteyn, of Extractive Metallurgy Consultancy LLC, based in Reno, Nevada. Mr. Duyvesteyn utilized the facilities of McClelland Laboratories Inc. ("McClelland") in Sparks, Nevada for the metallurgical tests.
- From the leach solution provided by the initial extraction, McClelland produced an LCE sample that was near-100% lithium carbonate ( $\text{Li}_2\text{CO}_3$ );
- Subsequent X-ray diffraction analysis ("XRD") matched the standard pattern of lithium carbonate (see Gemini LCE XRD profile comparison to recognized  $\text{Li}_2\text{CO}_3$  XRD profile below<sup>1</sup>).

<sup>1</sup> Lithium carbonate precipitation by homogeneous and heterogeneous reactive crystallization, (Han, Bing; Anwar Ul Haq, Rana; Louhi-Kultanen, Marjatta, 2020)

"The production of a high-quality LCE sample at this early stage in our project timeline bodes well for Gemini," said Warren Stanyer, President and CEO of Nevada Sunrise. "The positive results of our first-pass metallurgical work will provide valuable information for the upcoming engineering studies on the viability of the Gemini Project."

## About the 2022-2023 Gemini Drilling Program

In March and April 2022, Nevada Sunrise drilled two RC boreholes for a total of 2,020 feet (615.85 metres) in its maiden drilling program at Gemini. The drill sites were located within a defined gravity low that hosts conductive layers detected by historical ground electromagnetic surveys. The results from the first two holes at Gemini represented a new discovery of lithium mineralization in the western Lida Valley, which was not historically drill tested for lithium (see Nevada Sunrise news release dated May 18, 2022). In July 2022, Nevada Sunrise received a permit for an expanded drilling area from the Bureau of Land Management and began Phase 2 drilling at Gemini in October 2022. Three additional boreholes were completed from October 2022 to April 2023, with each intersecting lithium mineralization (see Nevada Sunrise news release dated May 24, 2023).

Nevada Sunrise believes that the southern and western parts of the Gemini basin are highly prospective for additional lithium mineralization and that further drilling could eventually define a large lithium resource. The Company has engaged ABH Engineering Inc. of Surrey, BC, Canada to calculate a National Instrument 43-101-compliant resource estimate leading to a Preliminary Economic Assessment of the lithium-bearing zones at Gemini.

The 90.2% lithium extraction rate achieved from the Gemini mineralization compares favourably with the average lithium extraction of 84% reported by Lithium Americas at its Thacker Pass lithium project (Source: Feasibility Study, National Instrument 43-101 Technical Report for the Thacker Pass Project, Humboldt County, Nevada, USA, by Roth, D., et al, dated November 2, 2022.) As follow-up to the successful outcome of this small-scale column testing, Mr. Duyvesteyn has designed a larger scale test involving 50 kilograms of

Gemini clay mineralization, which began in late May 2023. The larger test will employ selected higher-grade mineralization averaging approximately 2,000 ppm lithium.

For further information on Gemini, including maps and photos click [here](#)

#### About Gemini

Gemini consists of 582 unpatented placer and lode claims located in the western Lida Valley, Esmeralda County, approximately 6 miles (10 kilometres) east of the town of Lida, Nevada. The Lida Valley is a flat, arid basin with a similar geological setting to the better-known Clayton Valley basin where Albemarle Corporation operates the Silver Peak lithium brine mine, which has operated continuously since 1966.

Gemini is situated adjacent to the Gold Point Solar Energy Zone, a BLM land reserve set aside for solar and wind power generation projects until 2033. Exploration at Gemini is complemented by the Company's 80.09 acre/feet/year water right, a pre-requisite for the exploration and development of lithium projects in Nevada.

#### Sampling and Analytical QA/QC and Statement of Qualified Person

The scientific and technical information contained in this news release has been reviewed and approved by Willem Duyvesteyn, M.Sc., who is a Qualified Person for Nevada Sunrise as defined in National Instrument 43-101 - Standards of Disclosure for Mineral Projects. XRD analysis was performed by The Mineral Lab, of Golden, CO.

#### About Nevada Sunrise

Nevada Sunrise is a junior mineral exploration company with a strong technical team based in Vancouver, BC, Canada, that holds interests in lithium, gold, and copper exploration projects located in the State of Nevada, USA.

Nevada Sunrise owns 100% interests in the Gemini, Jackson Wash and Badlands lithium projects, with no applicable royalties, all of which are located in the Lida Valley in Esmeralda County, NV. The Company owns Nevada water right Permit 86863, also located in the Lida Valley basin, near Lida, NV.

The Company's key gold asset is a 20.01% interest in a joint venture at the Kinsley Mountain Gold Project near Wendover, NV with CopAur Minerals Inc. Kinsley Mountain is a Carlin-style gold project hosting a National Instrument 43-101 compliant gold resource consisting of 418,000 indicated ounces of gold grading 2.63 g/t Au (4.95 million tonnes), and 117,000 inferred ounces of gold averaging 1.51 g/t Au (2.44 million tonnes), at cut-off grades ranging from 0.2 to 2.0 g/t Au <sup>1</sup>. The Company has elected not to contribute to the 2023 exploration program at Kinsley Mountain and expects to incur dilution of its participating interest in the joint venture to an approximate 19.0% interest.

Nevada Sunrise has the right to earn a 100% interest in the Coronado VMS Project, located approximately 48 kilometers (30 miles) southeast of Winnemucca, NV. The Company owns a 15% interest in the historic Lovelock Cobalt Mine and the Treasure Box copper properties, each located approximately 150 kilometers (100 miles) east of Reno, NV with Global Energy Metals Corp. ("GEMC") holding an 85% participating interest. A transaction is in progress for GEMC to own a 100% interest, scheduled to close on or before June 30, 2023.

<sup>1</sup> Technical Report on the Kinsley Project, Elko County, Nevada, U.S.A., dated June 21, 2021 with an effective date of May 5, 2021 and prepared by Michael M. Gustin, Ph.D., and Gary L. Simmons, MMSA and filed under New Placer Dome Gold Corp.'s Issuer Profile on SEDAR ([www.sedar.com](http://www.sedar.com)).

#### FORWARD LOOKING STATEMENTS

This release may contain forward-looking statements. Forward looking statements are statements that are not historical facts and are generally, but not always, identified by the words "expects", "plans", "anticipates", "believes", "intends", "estimates", "projects", "potential" and similar expressions, or that events or conditions "will", "would", "may", "could" or "should" occur and include disclosure of anticipated exploration activities. Although the Company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results may differ materially from those in forward looking statements. Forward-looking statements are based on the beliefs, estimates and opinions of the Company's management on the date such statements were made. The

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<https://www.rohstoff-welt.de/news/449594-Nevada-Sunrise-Produces-Lithium-Carbonate-in-Metallurgical-Testing-Gemini-Lithium-Project-Nevada.html>

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