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Salta Lithium Project

Santa Ines Copper-Gold Project

**Australia**Eyre Peninsula Kaolin-Halloysite-  
REE ProjectMusgrave Nickel-Copper-Cobalt-  
PGE Project

## DLE Pilot Plant tests deliver up to 96% lithium recoveries at Incahuasi Project

- **Summit Nanotech reports excellent interim results of Direct Lithium Extraction (DLE) Pilot Plant tests of lithium brines from Power's Incahuasi project in Argentina**
- **DLE tests obtained up to 96% lithium recovery with 91% lithium yield to eluate from 50 cycle runs**
- **DLE tests achieved greater than 99% rejection of impurities**
- **Under the Power-Summit JV, ongoing steady-state DLE tests will provide data for flowsheet development, mass balances and design parameters for future lithium chemical production**
- **Summit Nanotech's proprietary denaLi™ DLE technology aims to deliver industry-leading commercial outcomes and minimise environmental impacts, especially water use**

Power Minerals Limited (ASX: **PNN, Power** or **the Company**) is pleased to report excellent interim results from Direct Lithium Extraction (DLE) Pilot Plant tests by JV partner Summit Nanotech (Summit) on lithium brines from Power's Incahuasi Project, in the Salta province of Argentina.

The DLE tests are being undertaken as part of the joint venture agreement between Power and Summit (ASX announcement 27 December 2023) and are being conducted at Summit's DLE Pilot Plant facility located near Santiago, Chile (see Figure 1- depicting the pilot plant at its previous location in La Negra). The DLE tests were undertaken on bulk lithium brine samples taken from Power's recent exploration program at the Incahuasi Project.

Stability trials processed 4,324 litres of brine from the Incahuasi project over a 10 day period (1-10 March 2024), and returned summary interim performance results, including:

- **Sorbent Capacity Deviation: 5%**
- **Lithium Recovery: 95.3%\***
- **Lithium Yield: 91.1%**
- **Impurity Rejection: 99.3%**

*\* Peak lithium recovery at 96% to date during steady-state extraction.*

Pilot testing is ongoing including further performance testing and process optimization. Summit's proprietary denaLi™ DLE technology aims to minimise environmental impacts, especially water use, while also delivering industry-leading DLE commercial outcomes.

**"We are very pleased with these highly encouraging interim DLE test results on the Incahuasi lithium brines. They confirm the suitability of the lithium grade and the level of impurities at our Incahuasi Project for processing via Summit Nanotech's proprietary DLE technology.**

**Our joint venture with Summit continues to deliver positive DLE test results and impress with its commercial drivers and ESG focus, especially on minimising water use. These positive results place Power in a strong position for the evaluation phase of DLE lithium production at Incahuasi."**

**Power Minerals Managing Director Mena Habib**



**Figure 1:** Summit Nanotech's DLE pilot plant facility in La Negra, Chile

### Next Steps

- Conclusion of steady-state DLE pilot test work will provide data for planning of proposed future lithium chemical production, including:
  - Process flow sheet development,
  - Mass balances on inputs (reagent chemicals, power, water) and outputs (waste streams),
  - Engineering equipment design parameters, and
  - Supporting data, charts, and uncertainty estimates, along with other elements required for delivering a Pre-Feasibility Study (PFS).
- PFS evaluation for DLE pilot plant lithium chemical production onsite at the Incahuasi project, in conjunction with JV partner Summit.

Authorised for release by the Board of Power Minerals Limited.

**-ENDS-**

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**About Power Minerals Limited**

Power Minerals Limited is an ASX-listed lithium-focused exploration and development company, committed to the systematic exploration and development of its core asset, the Salta Lithium Brine Project in the prolific lithium triangle in the Salta Province in Argentina. It is currently undertaking a major JORC Mineral Resource expansion drilling campaign at Salta, and is focused on expediting development of the Project in to a potential, future lithium producing operation. Power also has a portfolio of other assets in key, demand-driven commodities including; kaolin-halloysite-REE, nickel-copper-cobalt and PGEs plus copper-gold.