

# Locksley Advances Toward Production of High Purity Antimony Concentrate and Next-Generation Materials through its partnership with Rice University Researchers

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[Locksley Resources Ltd.](#) (ASX: LKY; OTCQX: LKYRF) today announced that the company is advancing toward production of high purity antimony concentrate and next-generation materials as a result of its sponsored research program with Rice University in Texas. The latest laboratory results from this program demonstrate significant advancements across antimony extraction, materials fabrication and battery related applications.

"Laboratory optimization of DeepSolv&TRADE; system processing has demonstrated under controlled conditions, strong antimony extraction performance using feedstocks from Locksley's Desert Antimony Mine (DAM), part of our Mohave Project," said Kerrie Matthews, Managing Director and CEO of Locksley. "Rice University continues to make important advancements in achieving production of high purity antimony concentrate as well as other uses for antimony across a range of high-tech defense and industrial applications, reinforcing the value of this mineral," she added.

Both concentrate upgrading and direct ore processing pathways continue to advance, with ongoing optimization targeting high-purity antimony suitable for downstream industrial and defense applications. "Importantly, these results indicate the potential to process antimony-bearing material without conventional flotation pre-treatment, supporting simplified flowsheets and reduced processing complexity," Matthews explained.

Locksley and Rice University have expanded the research scope to investigate innovative downstream antimony products for industrial and advanced technology markets. The two are advancing development of antimony-based composite materials for potential use in next-generation battery systems. Additional information on the activity the two organizations continue to move forward can be found here: <https://cdn-api.markitdigital.com/apiman-gateway/ASX/asx-research/1.0/file/2924-03073402-6A1318406&v=undefined>.

Locksley Resources Limited is focused on critical minerals in the United States of America. The Company is actively advancing the Mojave Project in California, targeting rare earth elements (REEs) and antimony. Locksley is executing a mine-to-market strategy for antimony, aimed at re-establishing domestic supply chains for critical materials, underpinned by strategic downstream technology partnerships with leading US research institutions and industry partners. This integrated approach combines resource development with innovative processing and separation technologies, positioning Locksley to play a key role in advancing US critical minerals independence.

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