

Partnership Unlocks Value in Li processing

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ABSTRACT

The Bald Hill Lithium concentrator project was delivered from concept to nameplate production in an industry leading timeline. Included in the design was the innovative use of a direct drive rolls crusher to crush floats material from the secondary coarse DMS circuit and recycle this crushed material to maximise plant recovery.

This paper chronicles how the Engineering Company identified the need for equipment not currently available in the market and partnered with a local OEM supplier meet this requirements. It will detail the selection, design and ongoing refinement of the rolls crusher in a demanding application and discusses the challenges that have faced the Bald Hill and McLanahan team in achieving the required throughput and availability for this unit operation.

The successful implementation has enabled the site to improve recoveries by between 0.5 and 1.5 % which clearly demonstrates significant value can be achieved through the knowledgeable application of smart design principles.