



EQ RESOURCES LIMITED

Sensor based sorting to enhance beneficial reuse of barren waste products

ASX : EQR

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Mt Carbine Open-cut & Modernisation Project (BFS)

100%-owned by EQ Resources

Mt Carbine Open-cut & Modernisation Project Overview



Located 130 km north of the city of Cairns in Far North **Queensland, Australia**

Situated within the Far North **Queensland critical mineral province**

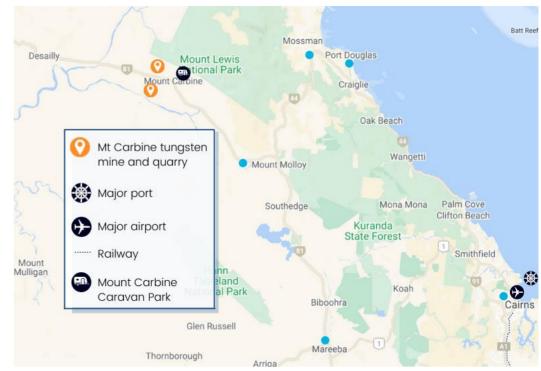
Operating tungsten mine and rock quarry resulting in no mine waste

Established mine-to-ship logistics chain to ensure the project remains scalable and reliable over its multi-decade life

Binding off-take agreement in place for tungsten product

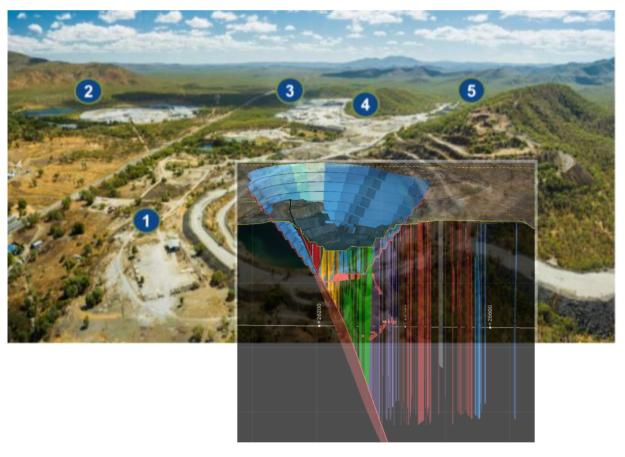
Industry-leading BFS completed and currently advancing though final stages of permitting & project funding

Project Location Map



Site Overview





- Office, Lab & Core Shed
- Tailings Pond / Retreatment Plant
- Quarry & OOSR Stockpile
- XRT Sorter
- LG Ore Stock-



Mt Carbine Overview





Quarry Screening & Extractive operations ongoing producing feed for XRT Sorter and Gravity processing plant



Beneficial reuse of barren mine wastes for quarry products



Full scale-up of SBS technology implementation on tailings and waste dump towards 500Kt/a



Installation of a second XRT Sorter to increase production throughput capacities



Underground drilling and feasibility assessment within the coming +/-12 months; renewed underground development +/-24 months

Sorting Overview



Sorter Feed

- Ideal <u>particle</u> fractions (liberation)
 - +6 to -20mm
 - +20 to -40mm
 - Works fine on +6 to -40mm
 - Mineral identification down to 100micron in particle
- Feed types
 - Discrete mineralisation is best
 - Alternatively distinct characteristic or property (colour/magnetic/mineralisation)
 - Disseminated ore bodies challenging (e.g. porphyry copper)
 - Hard rock is better
 - Sensor Selection is critical (XRT/EM/HSI/Laser/Colour)

Feed preparation

- Critical for Sorters:
 - minimal fines carry over
 - minimal moisture (surface moisture fine if clean rocks)
 - Even feed distribution across belt

General CAPEX & OPEX



CAPEX

- XRT Sorters are +/- AU\$2-Million for a 50tph prep screen and sorting plant
 - Sorter/framework/feeders/screen/conveyors/feed bin/large compressor/dryer/chiller/MCC

OPEX

- Overview
 - \$3-\$4 for initial crushing & screening cost
 - \$1/t for sorting of material (including power)
 - +/-100kW power requirement

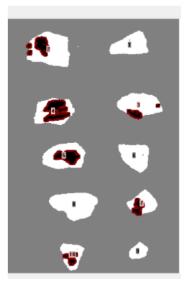
Sensor Based Sorting



Tomra X-ray Ore Sorter

- The waste rock stockpiles at the Mt Carbine site contain tungsten mineralisation.
 These stockpiles were previously crushed and screened directly for quarry material with tungsten in the quarry aggregates "being lost".
- The Mt Carbine operation has demonstrated a reliable method of recovering tungsten from the existing material ahead of its use as quarry material and then the beneficial reuse of the barren waste.
- The successful implementation of the sorter and refinements to the operations of the processing plant have resulted in >78% tungsten recovery from the low-grade stockpile with barren waste being used for aggregate







Typical X-Ray scan showing Tungsten Mineralization

Low-Grade Stockpile

LGS Mining area







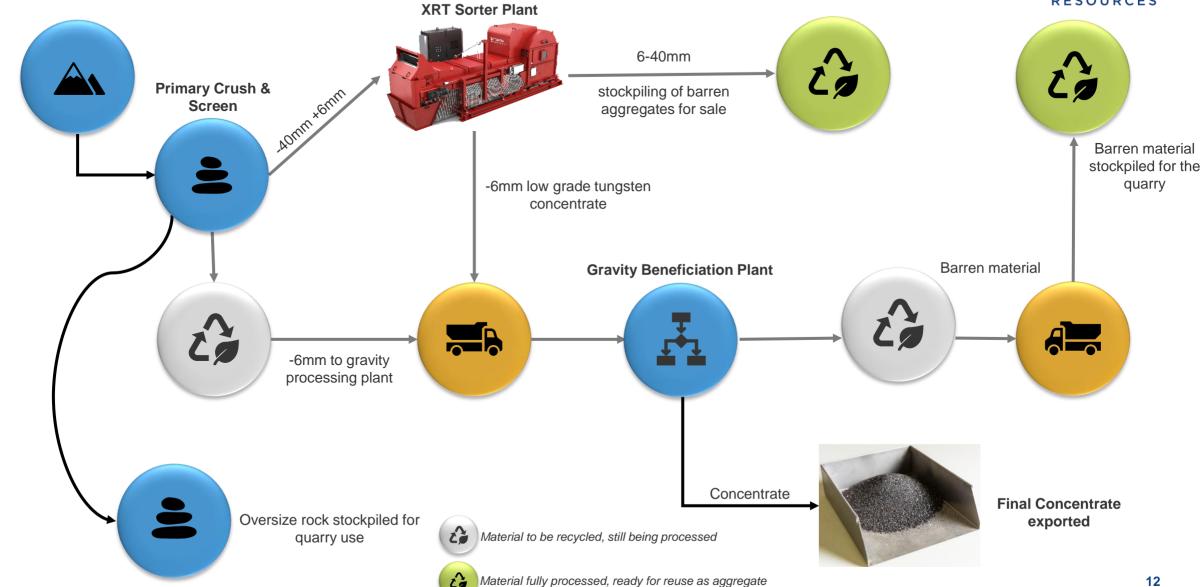
Low-Grade Stockpile





Mt Carbine Material Flow



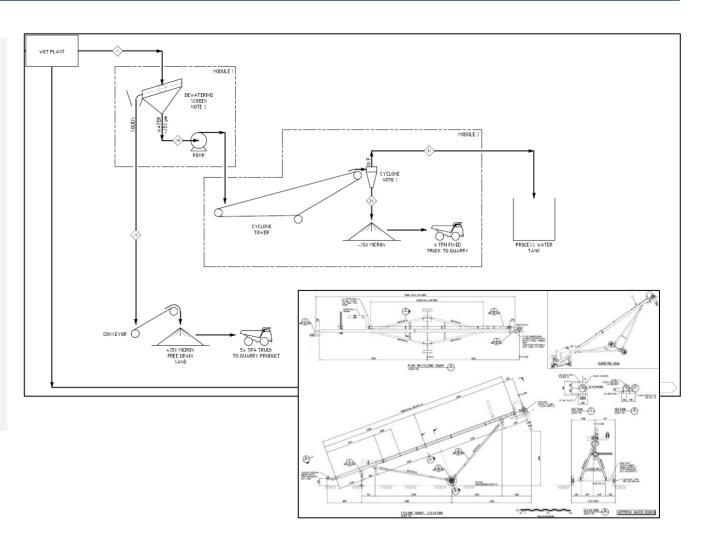


Project Overview



Development Activities – Dewatering System

- All processing plant reject sent to dewatering system
- +250 micron free draining sand screened off and trucked to quarry (sand used for road construction)
- -250 micron ultrafines dewatered and trucked to quarry (ultrafines used as cement ingredient)
- Water recycled back into process water tank for re-use



XRT Sorter Setup





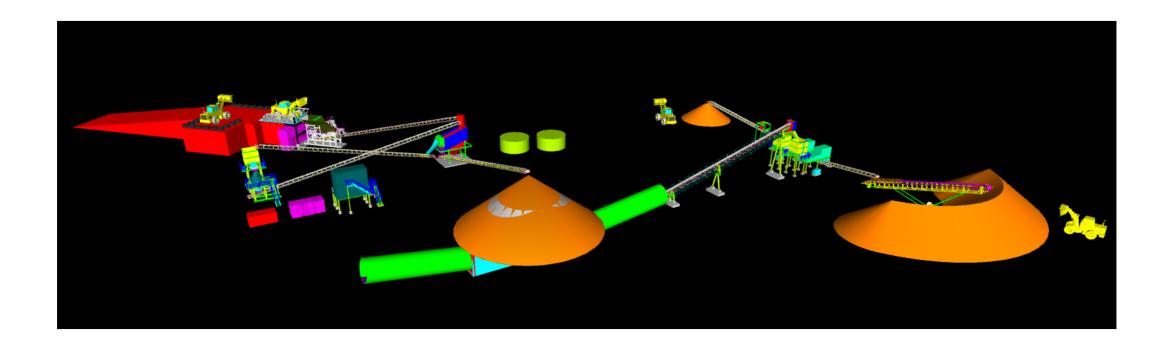
Addition of 2nd XRT Sorter





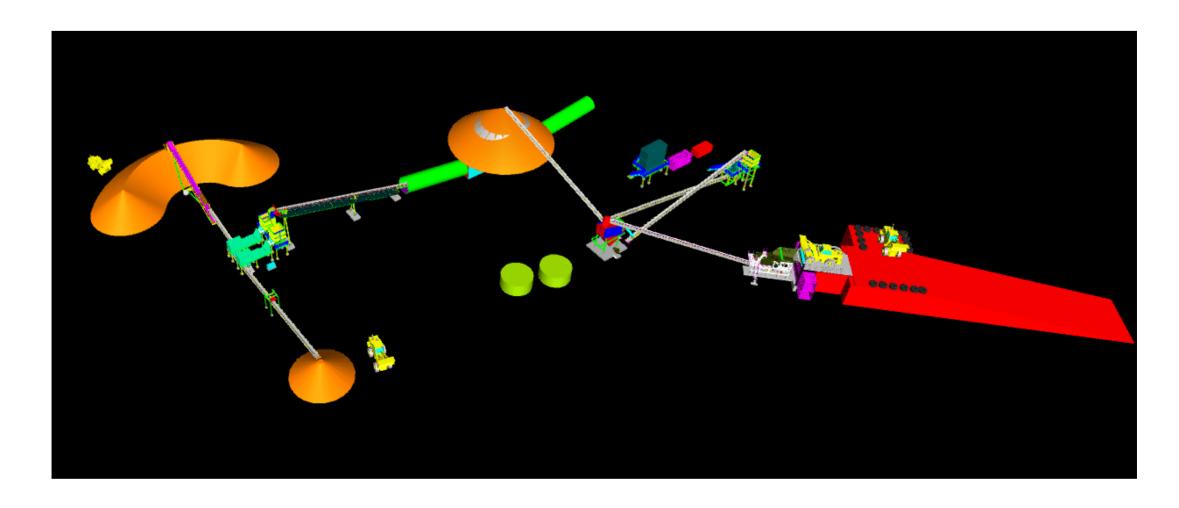
Crushing, Screening & Sorting Phase 2





Crushing, Screening & Sorting Phase 2

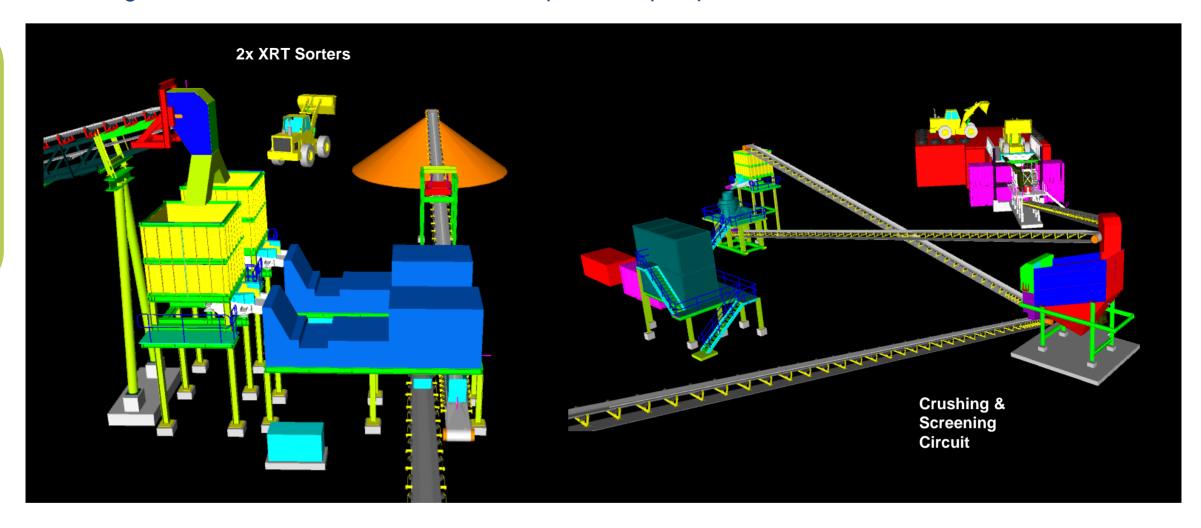




Phase 2 – Expanded Crushing & XRT Sorting Circuit

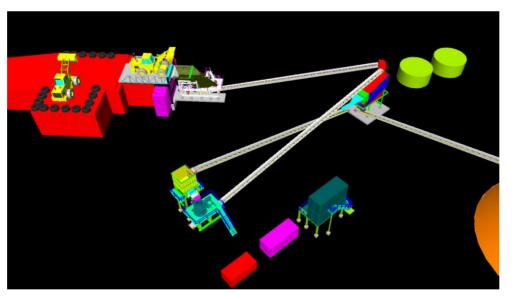


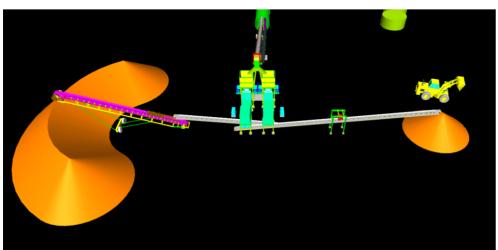
- In line with 1MTPA extraction permit
- Allowing for combined feed material from stockpile and open pit

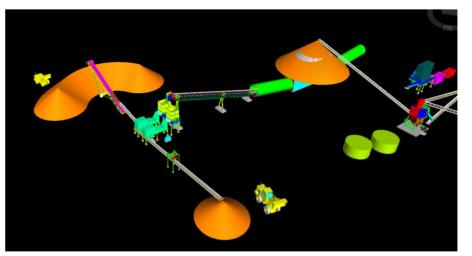


Crushing Plant Phase 2 – 3,000 – 5,000tpa









Quarry Products through beneficial re-use





XRT Sorter rejects (6-40mm)



Aggregate for Sale (10mm)

Gabian (100-170mm)

Main Quarry Products

- Road Base (2.1/2.2/2.3/2.5)
- 20/10 Concrete Stone
- 150 cross over stone
- Aggregates
 - 7mm; 10mm; 14mm; 16mm; 25mm)
- Manufactured sand

Thank You



Questions?

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