WA Bauxite Rehabilitation Overview

Rehabilitation

Huntly Mine

06 March 2017



Visit Agenda



13:00 – 13:05	Arrive at Myara Mine
13:05 – 13:30	WA Mining Rehabilitation Overview presentation
13:30 – 14:05	Tour active mining operations
14:05 – 14:45	Site visit: Rehabilitation (4 & 7 years)
14:45 – 15:30	Site visit: Huntly Lookout (mature rehabilitation)
15:30	Tour Complete



Your safety today

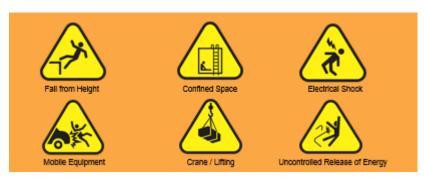




Fall from Height
Confined Space
Electric Shock
Mobile Equipment
Crane / Lifting
Uncontrolled Release of Energy

Haul Trucks

Critical Risks 6 + 1



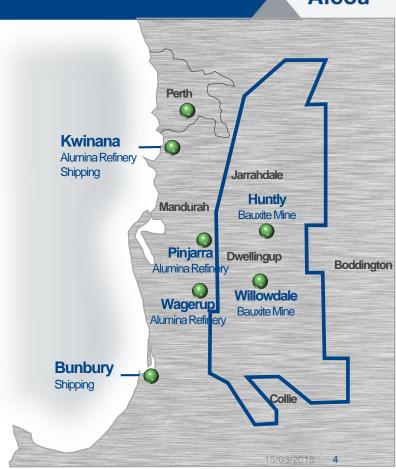
- PPE required
- ☐ Know the Muster Point
- ☐ Stay close and together!



World class integrated mining and refining system underpinned by a secure mineral lease



- Three alumina refineries: Kwinana, Pinjarra and Wagerup
- Two dedicated port facilities: Kwinana and Bunbury
- Two bauxite mines: Huntly, 2nd largest bauxite mine in the world, 26 million tonnes a year; and Willowdale 10.2 million tonnes a year
- Mineral Lease of 7,129 km2 granted under State Agreement. Less than 10% of lease planned to be mined
- Exclusive rights to mine bauxite 1961-2045, with option to extend
- Access to bauxite contingent on preserving and restoring recreation, water catchment, timber resource and conservation land-use values
- To the end of 2016; 24,556ha cleared for mining, 18,927ha of which is under rehabilitation with ~14,500 ready for handback



Huntly Bauxite Mine: the second largest bauxite mine in the world



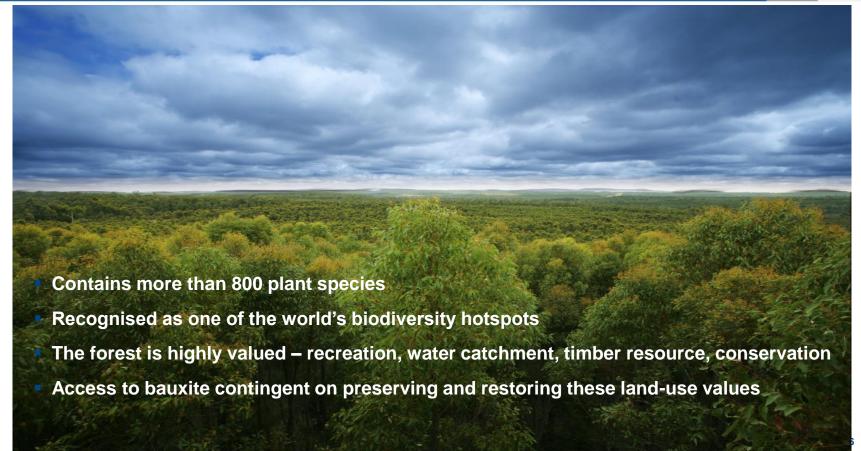


Overview

- Established in 1976 (Jarrahdale 1963 1998)
- Produces around 26 million tonnes per year
- Bauxite via overland convening system to Pinjarra Refinery
- Bauxite via overland conveying system and rail to Kwinana Refinery
- Current crusher location at Myara east of North Dandalup
- Approximately 600 employees and over 100 contractors
- Recognised work leader in mine site rehabilitation

Privileged to mine in the world's only natural jarrah forest





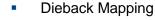
Stage 1: Development

Stage 2: Pre-mining

Stage 3: Load and haul

Stage 4: Crushing, conveying and refining







- Pre-Mining Surveys
 - EuropeanHeritage
 - Aboriginal Heritage
 - Fauna
 - > Flora



Wood Waste





Top soil/Overburden



Ripping



SOBR



Blasting















Rehabilitation process















Contour Ripping

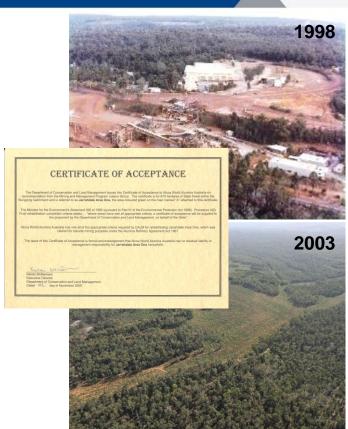
Planting

Fertilising

Completion criteria and mine closure

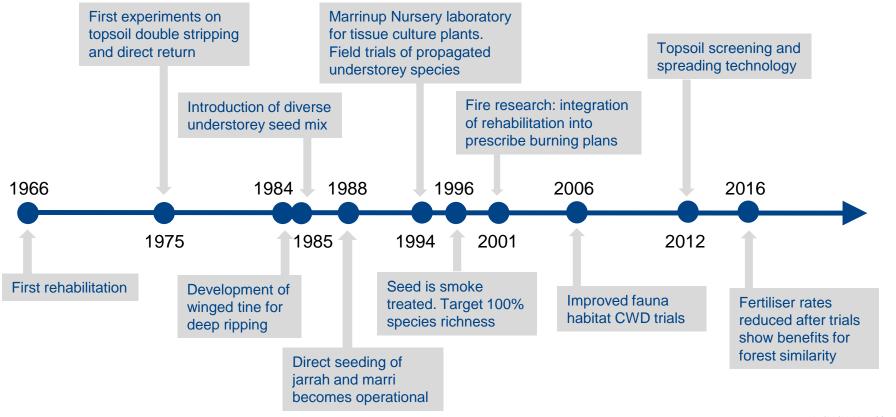


- 1996 First completion criteria for 'post-1988' rehabilitation developed
- 2001 Jarrahdale Mine decommissioned and rehabilitated
- 2002 Completion criteria for 'pre-1988' rehabilitation approved
- 2005 First Certificate of Acceptance for 975ha of rehabilitation at Closed Jarrahdale Mine issued
- 2007 2nd revision of 'post-1988' rehabilitation completion criteria
- 2015 3rd revision of 'post-1988' rehabilitation completion criteria
- 2016 Current program of rehabilitation sign-off commenced



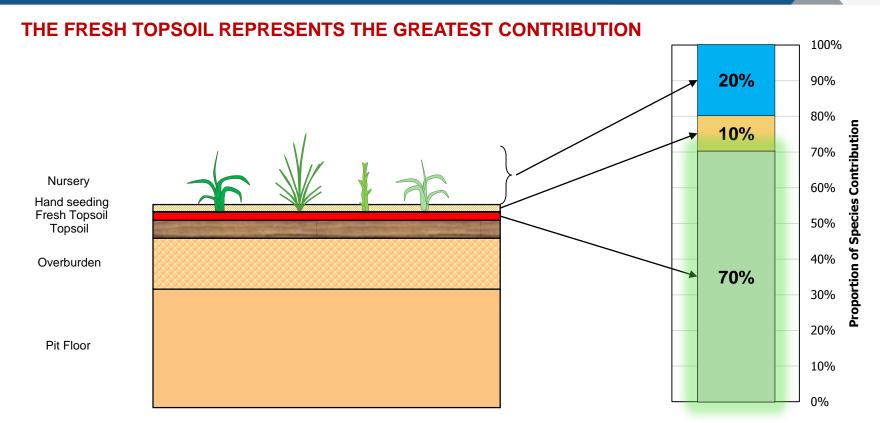
Research has been integral to improving rehabilitation





Species Contribution Breakdown









Returning a self-sustaining jarrah forest ecosystem to enhance or maintain water, timber, recreation & conservation values



Achieved100% plant species richness in rehabilitated areas and 100% marsupial, 89% reptile, 90% bird return rates

Del Park 1980 Del Park 2001 Del Park 2017

