



The mine closure specialists



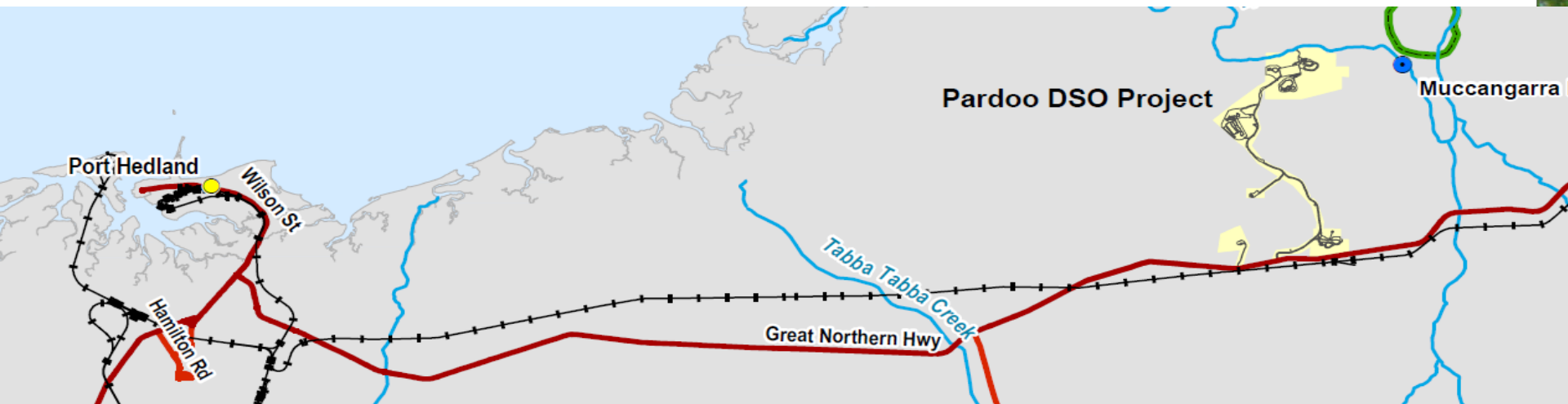
Revegetation of the Pardoo mine: planning to execution to monitoring

Stacey Gregory
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Outline

- Site description
- Closure planning process
- Revegetation activities
- Revegetation performance
- Lessons learned

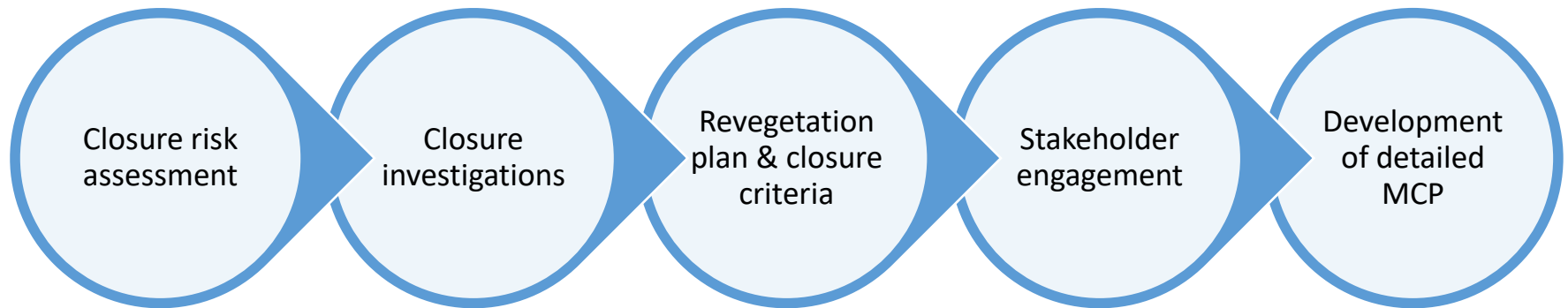


Site Description

- 75 km east of Port Hedland
- 11 open pits, six WRDs and mining infrastructure
- Mining commenced 2008 and finished 2013



Closure planning process



Closure risk assessment

Poor revegetation resulting from:

- Hostile or insufficient growth medium
- Inappropriate or poor quality seed
- Grazing pressures
- Poor climatic conditions
- Weeds becoming dominant





Closure investigations

- Topsoil
- Growth medium alternatives
- Substrate material properties
- Surface treatments
- Seed



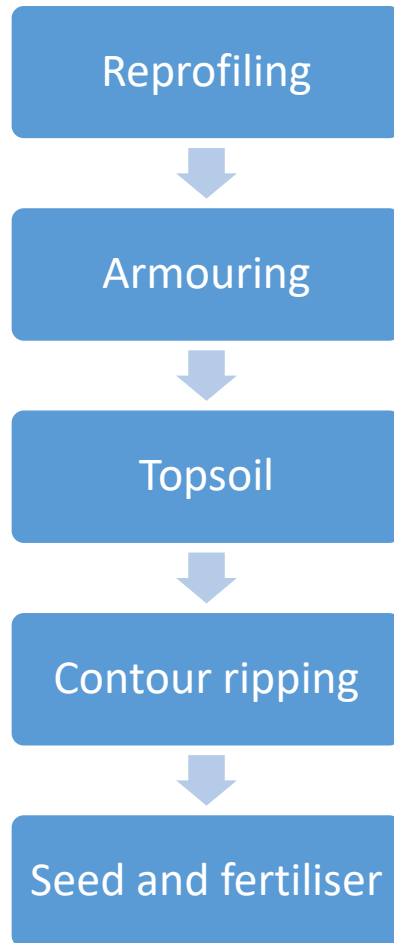
Revegetation plan and closure criteria

- Revegetation plan developed
- Closure criteria developed to measure revegetation performance
 - Revegetation was used as a benchmark for success
 - Cover species richness, plant cover, weeds and self-sustainability

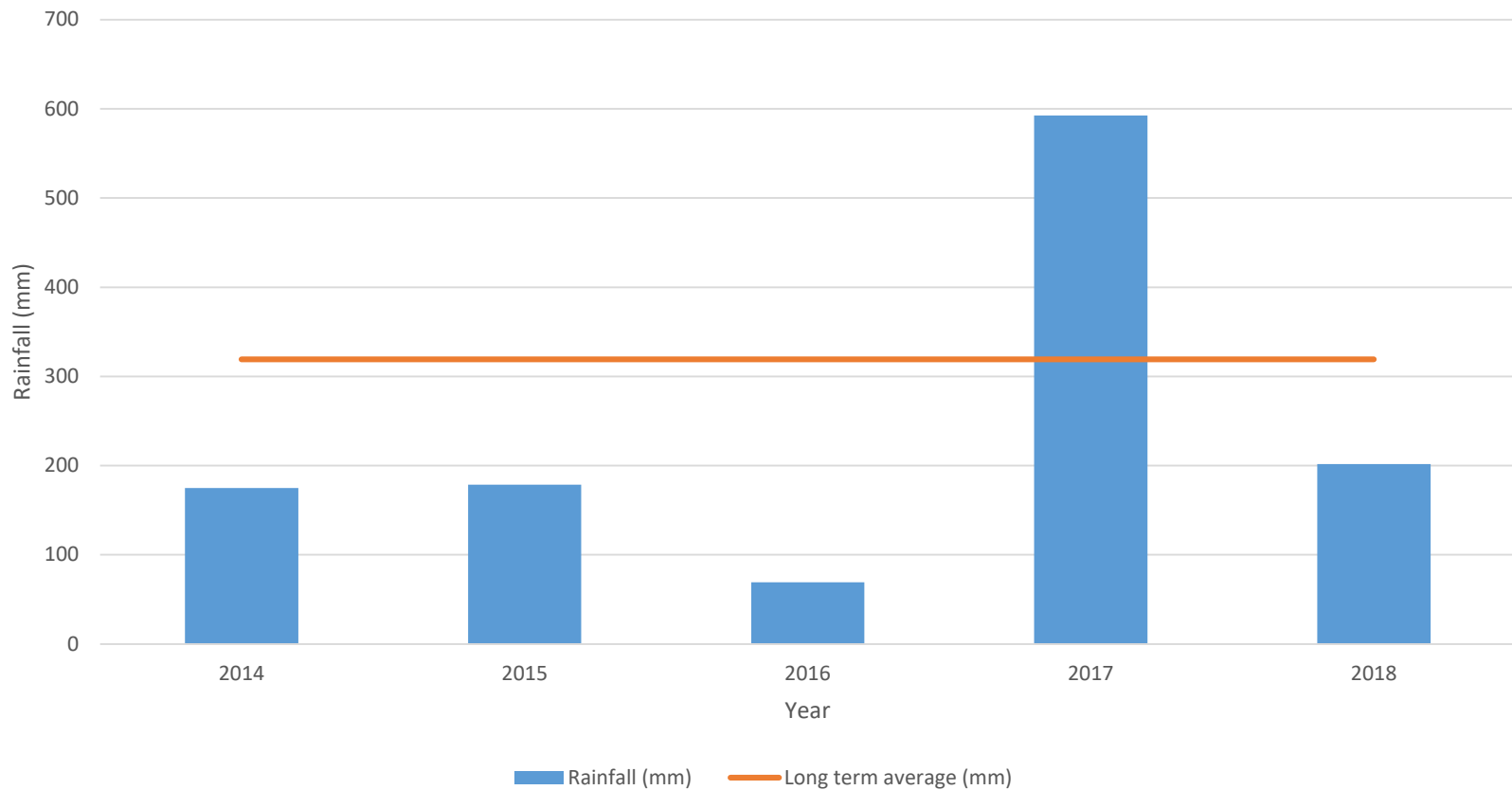
Stakeholder engagement

- Schedule of meetings to discuss:
 - Closure planning process
 - Outcomes of closure investigations
 - Closure objectives and criteria
- Detailed MCP and revegetation plan submitted and approved

Revegetation activities



Revegetation performance - climate





Plant cover (%)	Species richness	Weed cover	Key taxa seeding





Plant cover (%)	Species richness	Weed cover	Key taxa seeding





Plant cover (%)	Species richness	Weed cover	Key taxa seeding



Lessons

- Document everything
- Contractor selection and management critical
- Regular inspections – grazing and weeds
- Engage stakeholders early



End

- Thanks to Atlas Iron Limited – Brendan Bow
- Questions?