Diuris Rescue Project Diuris behrii

Sponsor: Hillgrove Resources Kanmantoo SA

Diuris behrii



This project started in winter 2011 before mining of new areas commenced. 75 flowering diuris plants were marked with stakes in August.

The orchids were rescued from the mine site on 14 October 2011 by Hillgrove Resources Environmental staff assisted by members of the local Land Care Group. All of the orchids remain the property of Hillgrove Resources Ltd.

NOSSA was asked in early 2012 to cultivate and try to propagate this orchid which has a State rating of vulnerable.

I put up my hand to look after the orchids as I had space in the newly relocated Wells shadehouse.

Rescued orchids in 105 bags at Cooee Nursery May 2012

Their new home in The Wells shadehouse May 2012

After delivery and weeding May 2012





More bags





Of the 99 Diuris behrii clones collected from the mine site

only 76 clones came up in the bags in 2012 Some bags held several plants

Growing Season 2012

A variety of plants came up in the bags.
Twelve diuris plants flowered.
10 flowers were hand pollinated
Nine seed pods were harvested.
Some plants had their tubers removed.
The orchids were moved to plastic pots.







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Growing Season 2013

344 diuris plants came up by July.
A few struggled to reach the surface & needed help.
38 plants flowered.
4 flowers were hand pollinated





Mother clones July 2013

Daughter plants for replanting July 2013











Mother Clones Sept. 2013

8







3 flowers on the strongest plant 2013





Sept. 2013





Microtis parviflora ? Oct 2013



Seedlings Oct 2013

Pods 9th Nov 2013

Diuris behrii pod

Tuber removed plants Nov 2013



Repotting late 2013

All of the mother clones and last year's daughter tubers were repotted by mid December.

Dormant daughter plant after flowering

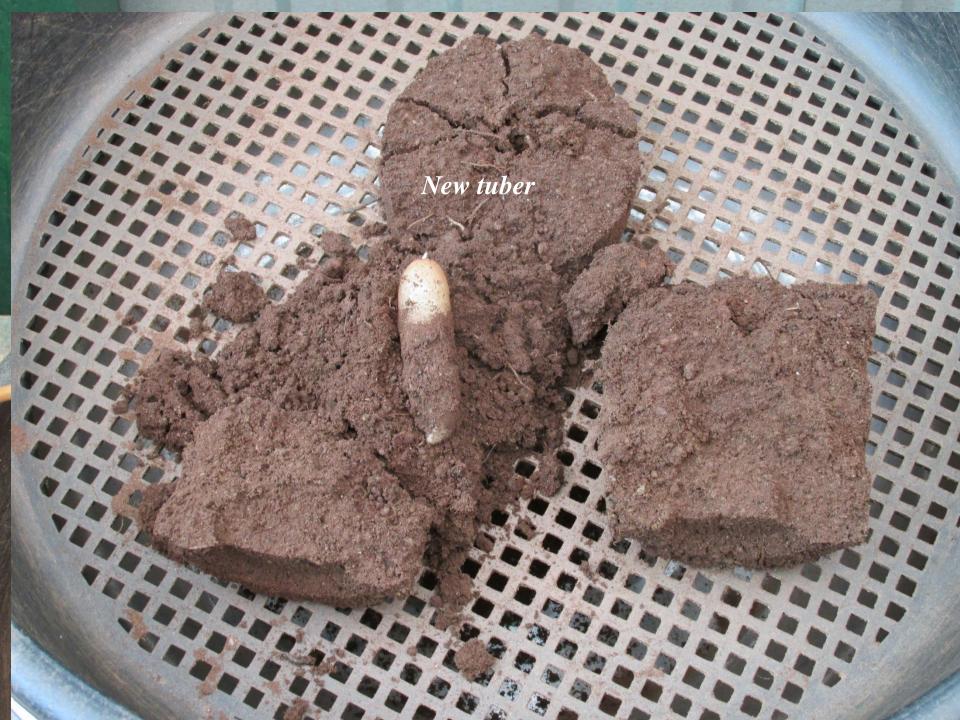
BC

1000

3

8





Tuber half buried in clay soil



C82 D2







Extra tubers formed





Small tubers into 125mm pot

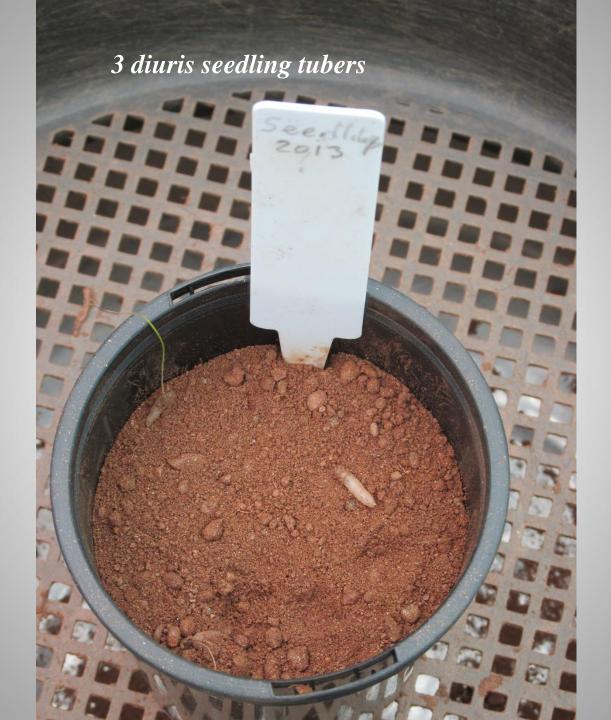
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After December 2013 repotting

- 73 mother tubers
- 249 daughter tubers
 - 280+ small tubers
 - 30+ seedlings
- Total tubers = 632 +

The seedlings

- Seedling tubers were smaller than a grain of rice.
- The seedlings are new clones.
- If they survive dormancy and grow large after several years they will become mother clones.
- Seedlings will more than replace the "lost" 26 clones.



What will 2014 bring?

More orchids? More flowers? More seedlings? Fire, storm, flood, pests or disease?



First leaves 31 Mar 14



Seed was sprinkled on all pots at the end of April



Growth starting mid April





317 plants visible

at the end of April 2014

Expecting 600+ by July

452 plants in leaf on 23rd May

70 clones/73 232 daughters/249 138 smalls/280 12 seedling leaves/30 More leaves expected in June 9 Pterostylis plants are visible

The Diuris Rescue Project will go for 10 years.

- Success is exciting
- Could result in 1000's plants