



Hallett Cove R-12 Mallee Box Rehabilitation Project

DRAFT



SECTION 1 – Project Details

This document describes the proposed scope of work for your rehabilitation/ revegetation project. Detail is given for work to be undertaken in current financial year only. Work to be undertaken in subsequent years is broadly outlined; detailed work/action plans for subsequent years will be developed subject to satisfactory completion of preceding works. Tasks have been assigned as either "Volunteer group", "Landholder" or "Board" Responsibility.

Property and Site Details

Property/ Project Address	Lower Field River Reserve (at the end of Gannet Ct)	UBD Ref.	155 E5
Council Area	City of Marion	Land zoning	
Site Management Plan/Action Plans	2010-13 Lower Field River Restoration Project		
Project Description	The rehabilitation of open Mallee Box (<i>Eucalyptus porosa</i>) woodland		
Objective	<ul style="list-style-type: none"> - Engage and educate students about local biodiversity - Protect existing remnant and planted native vegetation - Create conditions to support natural regeneration - Control woody weeds to reduce their impact on 		

Key Contacts

School	Hallett Cove R-12		
Main Contact Person	????		
Phone (Work)	???	Phone (Mob.)	?????
Postal Address	???		
Email			

Landholder (Council, NPWS, Private)	City of Marion	Contact	Jerry Smith
Phone (Work)	???	Phone (Mob.)	????
Postal Address	???		
Email	???		

AMLRNRM Board Contact	Jess Mitchell		
Phone (Work)	8278 0603	Phone (Mob.)	0488 952 026
Postal Address	328 Shepherds Hill Rd, Blackwood SA 5051		
Email	jessica.mitchell@sa.gov.au		

Community Group	Friends of Lower Field River		
Main Contact Person	David Greenhough		
Phone (Work)	8271 7125	Phone (Mob.)	0417 858 605
Postal Address	8 Osprey Court, Hallett Cove SA 5158		
Email	david.greenhough@sa.leap.com.au		

SECTION 2 – Site Analysis

Map of site detailing management areas and key features

(Note: section 4 will need to be completed for each site listed as part of the project covered in this work plan)



Site priority	Actions
Protect existing native grasses	All staff/volunteers working on the site are to be made aware of the need to protect the native grasses. Staff/volunteers should be able to identify the native grasses present <i>Stipa sp</i> and <i>Enneapogon nigricans</i> (or at least have some one present who can identify them)
Provide conditions for natural regeneration	
Control woody weeds	No slashing of woody weeds

Table 1: Site Analysis - description of each area with recommended management action

Management Issues	Management Actions	Site procedure
Invasive woody weeds	Control <i>Casuarina glauca</i> , cotton bush, olives, artichoke	
Protection of remnant grassland	Handweed scabiosa around native grasses Brushcut annual weed grasses prior to seed set	
Illegal dumping	Site has a history of illegal dumping, revegetation with treeguards may be visual deterrent to potential illegal dumpers	
Fire risk	Plant only grasses and ground covers within 10m of a property boundary Keep site maintained in high fire risk season Removal of woody weeds	
Maintenance of plantings	Regular monitoring and weeding Treeguards to protect plants Treeguards to be removed when plants are sufficiently advanced.	

SECTION 3 – Planting Plan 2011-12

Plant Species List and Order Quantities – Lower Field River

Strata	Scientific Name	Common Name	Form	Qty Area 1	Order Qty
Mid Storey Layer (spacing 3-5m)					
2	<i>Allocasuarina verticillata</i>		ST		10
3	<i>Dodonea viscosa</i>		S		10
Shrub Layer Mid Storey (spacing 3-5m)					
3	<i>Acacia pcynantha</i>		S		20
Ground cover/Grasses/Understorey (spacing <1m)					
4	<i>Dianella revoluta</i>		GC		20
4	<i>Austrostipa</i> sp		G		50
4	<i>Vittadinia</i> sp		GC		50
4	<i>Themeda triandra</i>		G		50
4	<i>Enneapogon nigricans</i>		GC		50
4	<i>Arthropodium strictum</i>		L		20
4	<i>Scaevola albida</i>		GC		20
Total plants					300
Strata Definitions 1 = Large tree 2 = Small tree 3 = Small to Medium Shrub 4 = Ground hugging shrubs, Groundcovers, Tussocks, Herbs, Grasses Ferns Annuals 5 = Riparian Reeds, Rushes, Sedges & Aquatic plants etc.			Form Definitions T = Large tree ST = Small tree S = Shrub SS = Small Shrub GC = Ground Cover G = Grass H = Herb Tu = Tussocks on ground strata Tw = Twiner/ vine R = Rush Se = Sedge		

SECTION 4 – Work Plan 2011-12

Timing (Date/Time)	Action	Description	Responsibility
Dec	Order plants	Order 300 local native with Indige flora	Hallett Cove R-12 NRM to assist
Dec/Jan	Artichoke control	Spray artichoke, dead head flowers (if possible to prevent seed set)	City of Marion
Jan/Feb	<i>Casuarina glauca</i> control	Cut and swab large <i>Casuarina glauca</i> and frill stumps to kill suckers.	CoM
Feb/March	Olive and cotton bush control	Drill and fill olives where possible to achieve best kill rate. Cut and swab an alternative option. Cut and swab or hand pull cotton bush. Cut and swab <i>Casuarina glauca</i> suckers.	FoLFR
March/April	Order tree guards	Order 300 treeguards and stakes	Hallett Cove R-12 NRM to assist
March/April	Learning session	Engage students in the Lower Field River region and discuss local history, biodiversity, etc	David Squirrel
April	Letter box drop to local residents	Compose letter to raise awareness of local residents about this project including; species to be removed and local native species to be planted. Include all stakeholders logos.	City of Marion NRM to assist FoLFR to deliver
May	Site visit	Handpull identified herbaceous weeds amongst native grasses	Hallett Cove R-12 NRM to assist
May	Site preparation	Mark out zones for revegetation where native grasses are not present (CoM and NRM) Spray and brushcut revegetation zones (CoM) Provide pile of clean soil to fill planting holes (CoM) Organise contractor to pre dig holes (NRM)	City of Marion NRM
May	Develop and install signage	Draft, finalise and install a simple sign to acknowledge the involvement of the school and contribution of all stakeholders to this	CoM to lead All to contribute

		site	
June	Planting	Hallett Cove R-12/FoLFR to organise logistics – i.e. date, time, ensure plants, stakes and tree guards are onsite. NRM and FoLFR to provide planting tools.	FoLFR City of Marion Hallett Cove R-12 NRM
July/August/ ongoing	Site maintenance	Monthly or bimonthly handweeding by students of herbaceous weeds around native grasses and revegetation (halo weeding). FoLFR to continue follow up artichoke, olive, <i>Casuarina glauca</i> and cotton bush control. CoM to sensitively brushcut site as required.	Hallett Cove R-12
Summer	Watering	Water plants as required over first summer	FoLFR

SECTION 5 – Resource List

Action	Tools/Equipment/Resources required	Responsible
Site visit	20 gloves Bucket/bag for weeds Plant tags to ID native grasses	Students to bring own School NRM
Planting	20 trowels Buckets, Stanley knife, mini mattock, wheel burrow Stakes and treeguards	Students to bring own School, NRM, FoLFR to organise School to organise
Olive and cotton bush control	Drill, herbicide, herbicide injector, tree popper, secateurs, loppers, cut and swab bottle	FoLFR – (see NRM if equipment required)
Site maintenance	20 gloves Bucket/bag for weeds	Students to bring own School
Watering	Long hose to attach to tap near playground	NRM can provide for loan if required

SECTION 6 – Budget

To assist with delivery of the actions listed in section 2, the Board has approved the following funding. This funding is for work to be undertaken in the 2011/12/13 year

Action/Item	School contribution (\$)	FoLFR contribution (\$)	Council Contribution (\$)	NRM Contribution (\$)	Total Contributions (\$)
Artichoke control			???		
Olive and cotton bush control (5ppl x 1hr x 4 sessions across the yr)		\$500			
<i>Casuarina glauca</i> control			????		
Site preparation - brushcut and spray - soil - pre dig holes			?? ???	\$390	
Learning Session (1p x 2hr)		\$50			
Site visit - handweeding		Inkind		Inkind	
Letterbox drop			Printing		
Planting - 300 tubestock - treeguards & stakes - planting by students (20ppl x 2hrs)	\$600 \$450 \$1000 (inkind)	Inkind assistance on planting day	Inkind assistance on planting day	Inkind assistance on planting day	
Signage			Production and installation of sign		
Watering (2ppl x 1hr x 4 times)		\$500			
Site maintenance (20ppl x 1hr x 3 sessions)	\$1500 (inkind)				
Funding Total Summary	\$3550	\$1050	?	\$390	?

In kind contribution to be calculated at \$25/hour for volunteers and best estimate /hour for professional services

SECTION 7 – Acceptance of Proposed Work Plan

Conditions of receiving support from the Adelaide and Mount Lofty Ranges Natural Resources Management Board

The Adelaide & Mount Lofty Ranges Natural Resources Management Board (AMLR NRMB) invests public money in the rehabilitation works it assists Community Volunteer groups and land owners to undertake. For this reason, the Board is required to ensure that this investment is secure. To achieve this, the Board places the following conditions on Community Volunteer groups and landholders receiving Board assistance.

- All works undertaken by the land owner will be done entirely at the land owner's own risk. The Board will not be liable for any loss or damage to property, or injury or death of persons arising from or associated with the landholder's own works.
- Works listed in this plan as undertaken by AMLR NRM Board volunteers will be carried out under the guidance of AMLR NRM Board Project Officers as agreed to in this plan and in accordance with the AMLR NRM volunteer OH&S policies and procedures. AMLR NRMB registered volunteer groups and volunteers working in accordance with these guidelines are covered through the Board by NRM Personal Injury and Public Liability Insurance underwritten by SAICORP.
- The land owner and volunteer group(s) will undertake the works identified as the either "land owner" or "volunteer group" responsibility respectively as shown in Section 2 of the Proposed Work Plan, and do so within the time period indicated in Section 5.
- Under this workplan, any natural regeneration of indigenous plant species that may occur will be protected, and will not be removed by any means, without consent from a representative of the AMLR NRM Board and/or land owner following consultation between all parties.
- Revegetation as listed in this plan will only be carried out by the AMLR Board and/or AMLR volunteers *after* appropriate weed control has been instigated and/or undertaken as agreed, unless otherwise advised. Plants resulting from revegetation projects will not be removed by any means, without consent/consultation between all parties.
- All areas where weed and/or exotic tree control has been undertaken will be revegetated with local indigenous species only, (plants grown from local provenance material) as indicated on the revegetation list. Volunteer groups and/or land owner will not purposely reintroduce exotic species and all reasonable effort must be undertaken to exclude accidental reintroduction and maintain weed control on revegetated sites in future years.
- Responsibility for the ongoing care and maintenance of the land remains with the Landholder, including all normal statutory obligations.

ACCEPTANCE OF WORKPLAN by ALL PARTIES

As Contact person for the Volunteer Group/Land Owner/Manager, I accept this scope of work and request that the Board undertake those tasks listed as being the responsibility of the Board, and agree to undertake those tasks listed as being the responsibility of the volunteer group or landholder. I have also read and accept the "**Conditions of Receiving Board Funding**" as attached above.

Land Owner /Manager

Name..... Position.....

Signed:..... Date:.....

Adelaide and Mount Lofty Ranges Natural Resources Management Board

Name..... Position:

Signed:..... Date:.....

Appendix: Site Plant List (Mallee Box Woodland species)

Scientific Name	Common Name	Remnant	Planted
<i>Eucalyptus porosa</i>	Mallee box		
<i>Allocasuarina verticillata</i>	Drooping sheoak		
<i>Arthropodium strictum</i>	Vanilla lily		
<i>Enneapogon nigricans</i>	Blackhead grass		
<i>Austrostipa sp</i>	Spear grass		
<i>Danthonia sp</i>	Wallaby grass		
<i>Dododonea viscosa</i>	Sticky hop bush		
<i>Scaevola albida</i>	Pale fan flower		
<i>Casuarina glauca</i> *	Grey buloake		
<i>Asclepias rotundifolia</i> *	Cotton bush		
<i>Scabiosa atropurpurea</i> *	Scabiosa		
<i>Olea europea</i> *	Olive		
<i>Avena barbatua</i>	Wild oats		

* Weed species