

8.3 EXAMPLE OF A COMPLETED SITE-LED PROGRAMME ANNUAL REPORT

OPERATIONAL SUMMARY		File/docDM number:
Programme title	Mana Island Scientific Reserve	
Site-led or Weed-led:	Site-led	
Reporter names:	Ranger X	
Office:	Mana Island Field Centre, Kapiti Area, Wellington Conservancy	
Date:	June 2009	
Programme start and completion dates:	1 July 1995 - Ongoing	
Control year being reported on:	July 2008 - June 2009	

REFERENCES	
Tech Spec ref:	Mana Island Weed Control Plan & Register Weed Control Methods Kapiti Area
Business WBS plan no.:	Weeds - Mana Island General Weeds - Mana Island BIO
Contract/s (e.g. with spray contractor):	X and Y (DOC Temporary Staff) Helicopter spraying - Amalgamated Helicopters
Previous annual reports:	2007-2008 (docDM-xxxxx)
Operational (field) notes:	GPS points recorded daily and mapped.
Concurrent operations in/adjacent to treatment area:	Restoration programme being completed by DOC with assistance from Friends of Mana Island. This includes an ongoing revegetation and species reintroduction programmes in accordance with the Mana Island Ecological Restoration Plan
Other (Reports from similar control programmes, Health and Safety Plan, consent applications more detailed operational plans etc.):	Staff sign off and are briefed in safety/emergency procedures (Mana Island Emergency/Safety Plan). Safety Equipment required for herbicide use. (Refer document) Relevant Risk Manager Plans (Field Activities/Weed Control)
References to maps and monitoring information will be requested later in the report.	

PERFORMANCE MEASURES	
For site-led control:	
What are the desired Conservation Outcomes? Improved habitat for threatened species on Mana Island Protection of the natural Mana Island ecosystem from invasive weeds. Protect natural ecosystem.	
What are the Control Objectives?	
Weed Species	Control target
Acacia	0 % density by 2013
Acacia spp.	
Agapantha	Eradicate by 2014
Agapanthus campanulatus	
Angelica	0 % density by 2014
Angelica pachycarpa	
Banksia	Control
Banksia integrifolia	
Blackberry	0 % density by 2014

Rubus fruticosus agg.							
Boneseed Chrysanthemoides monilifera	0 % density by 2020						
Boxthorn Lycium ferocissimum	By 2014 reduce to 25 % of the density of what was spatially recorded in 2006/07 financial year.						
Broom Cytisus scoparius	0 % density by 2013						
Elaeagnus Elaeagnus x reflexa	Control						
Fennel Foeniculum vulgare	0 % density by 2014						
Gorse Ulex europaeus	0 % density by 2014						
Greater bind weed Calystegia sylvatica	Control						
Ivy English (Hedera helix) German (Senecio mikanioides)	Control						
Karo Pittosporum crassifolium	Control						
Kikuyu Grass Pennisetum clandestinum	Eradicate by 2012						
Mallow Malva Sylvestris	0 % density by 2020						
Macrocarpa Cupressus macrocarpa	0 % density by 2020 With the exception of well defined areas						
Muehlenbeckia	Discretionary control						
Pampas Common - Cortaderia selloana Purple - Cortaderia jubata	Eradicate by 2013						
Pink Ragwort Scenecio glastifolus and Purple groundsel Scenecio elegans	Control						
Pohutakawa Metrosideros excelsa	Eradicate by 2013						
Pseudopanax hybrid	Control						
Radiata Pinus Radiata	Eradicate by 2014						
Ragwort Scencio jacobaea	Control						
Sweet Pea vine Dipogon lignosus	Control						
Tasmanian Ngaio and hybrids	0 % density by 2020						
Tree Lucerne Chamaecytisus palmensis	Control						
Wandering jew Tradescantia fluminensis	Eradicate by 2014						
What is the Annual Operational target? 95 percent reduction of weeds treated							
What was the Planned Area Treated?	<table border="1"> <tr> <td>Mana Island Scientific Reserve</td> <td>What was the Actual Area Treated?</td> <td>Mana Island Scientific Reserve Refer Maps and Data Files listed in Appendix 1</td> </tr> <tr> <td>TOTAL - 217 hectares</td> <td></td> <td>TOTAL - 192 hectares</td> </tr> </table>	Mana Island Scientific Reserve	What was the Actual Area Treated?	Mana Island Scientific Reserve Refer Maps and Data Files listed in Appendix 1	TOTAL - 217 hectares		TOTAL - 192 hectares
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TOTAL - 217 hectares		TOTAL - 192 hectares					

This should align to the performance measures in business planning .Explain any differences:	Grid searching for weeds not completed in full this year. These areas have been recorded and mapped
Update Tech Specs for future operations	

REPORT ON OPERATIONS															
Please fill in for each different location or treatment method as planned for this year															
Location:	Mana Island Scientific Reserve														
Species:	Acacia (Acacia spp.) Agapantha (Agapanthus campanulatus) Angelica (Angelica pachycarpa) Banksia (Banksia integrifolia) Blackberry (Rubus fruticosus agg.) Boneseed (Chrysanthemoides monilifera) Boxthorn (Lycium ferocissimum) Broom (Cytisus scoparius) Eleagnus (Eleagnus x reflexa) Fennel (Foeniculum vulgare) Gorse (Ulex europaeus) Greater bind weed (Calystegia sylvatica) Ivy English (Hedera helix) German (Senecio mikanioides) Karo (Pittosporum crassifolium) Kikuyu Grass (Pennisetum clandestinum) Mallow (Malva Sylvestris) Macrocarpa (Cupressus macrocarpa) Muehlenbeckia Pampas Common - Cortaderia selloana Purple - Cortaderia jubata Pink Ragwort (Scenecio glastifolus and Purple groundsel (Scenecio elegans) Pohutakawa (Metrosideros excelsa) Pseudopanax hybrid Radiata (Pinus Radiata) Ragwort (Scenecio jacobaea) Sweet Pea vine (Dipogon lignosus) Tasmanian Ngaio and hybrids Tree Lucerne (Chamaecytisus palmensis) Wandering jew (Tradescantia fluminensis)														
Was planned work achieved?	<table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Yes</td> <td>Area (25ha) not grid-searched for weeds this year will be prioritised for the 2009/2010 weeding season. See Appendix One.</td> </tr> </table>	Yes	Area (25ha) not grid-searched for weeds this year will be prioritised for the 2009/2010 weeding season. See Appendix One.												
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What was the proposed control method?	Various, as guided by Weed Control Methods Kapiti Area document Annual Summary of Chemical use from island spray records*: <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="width: 50%;">Chemical</th> <th style="width: 50%;">Quantity Used (l)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	Chemical	Quantity Used (l)												
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What was the actual	As per methods outlined														

control method?	
Explain any differences and lessons learned:	See X document for ongoing actions and priorities.
Name of weed control operator/s and level of performance:	X and Y (Temp staff). Z Helicopters for Sweet Pea Vine helicopter spraying on northern/western cliffs. Good level of performance.
Update Tech Specs for future operations	

OPERATIONAL COSTS			
GL code	Details	Budget (excl. GST)	Actual (excl. GST)
	Weedspray supplies		
	Field equipment		
	Contractor (incl. Temp Staff)		
	Aircraft Hire		
Total			
Total hours			
Explain any differences:	Temp staff labour makes up the largest component of expenditure due to the grid search for weeds being labour intensive.		

MONITORING	
Is your monitoring Informal/formal? (result or outcome?) for weed- led -mark and mapping), a herbicide trial or was no monitoring undertaken? Formal and result	
docDM reference for monitoring plan (include reference for monitoring map):	Maps and GPS Data points for all 2008/2009 recorded weeds listed in Appendix 1.
List where monitoring data and results are held:	Mana Island Field Centre
State monitoring objectives Summarise methods, Discuss any limitations and changes to either:	Objective is to completely grid search the island annually for weeds, as part of the control programme. This grid search results in the GPS location of weeds on Mana Island, which is subsequently mapped using software. The maps are produced annually, and any changes or patterns to weed infestations and their distribution can be monitored and compared over time using this method (see Appendix 1).
Summarise monitoring results:	Refer to review of Mana weed control programmes and revised actions and priorities
If results show that operational targets are not being met, state implications for management:	N/A

OTHER ISSUES	
List new areas of target weed/s discovered: (Include reference to map, if any).	Nil
List new weed species discovered on site: (Include reference to map, if any).	Nil
List additional non-target species or unplanned impacts:	Nil
Community	A regular volunteer weeding group has been organised quarterly

Relations?	through FOMI (Friends of Mana Island) to target those weed species which mature rapidly, to prevent seed set and spread. Updates to local community through publications and newsletters to stakeholders (eg: Mana Cruising Club Newsletter, Friends of Mana Island Newsletter). Visitors to Mana are guided through quarantine procedures, including checking gear for any plant seeds; and a 'pack-in, pack-out' policy is in place with regards to rubbish.
List any changes or improvements to the Health and Safety Plan:	Ensure all staff inducted into DoC Health and Safety (including sign-off on relevant Risk Manager plans) Island Safety/Emergency Plan updated in July each year.

RECOMMENDATIONS	
List all recommendations for future operations and or /or the changes made to the Tech Specs as the result of the lessons learned:	Continue current level of effort and the adoption of recommended actions from review of programmes in 2007/2008 and ensure that weeds staff are thoroughly briefed on these actions (including use of correct GPS abbreviations when recording weeds data. The 25ha area not grid searched this year should be prioritised and searched first in 2009/2010. Supervisor to ensure staff complete a spray diary and spray record sheets (held in pesticides store), as no spray records were kept this year. Invest in two new GPS units that work under the canopy to decrease the canopy/valley areas (approx 15ha) not mapped for weeds due to lack of GPS coverage.

Checklist: remember to...	Done	N/A
Make appropriate changes to the Tech Specs:		X
Add new information to the Weeds Database:		X
Address other issues	X	
Provide your TSO with a copy of this report:		X
Release report to external interested parties:		X
Update the Monitoring spreadsheet		X
Add this report to the: Report spreadsheet	X	

Authorisation Signatory:

Area Manager

Date

APPENDIX ONE:

Data (GPS waypoints) and Maps created for the 2008/2009 Weeds Programme - Mana Island:

Boneseed Infestation Map

Boxthorn Infestation Map

Karo Infestation Map

Senecio Weed Infestation Map

Tree Lucerne Infestation Map

All Weeds 0809 GPS Data (Excel)