

*AUSTRALIAN
PLAGUE
LOCUST
COMMISSION*

ENVIRONMENTAL MANAGEMENT SYSTEM

REGISTERS

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INTRODUCTION

To help control and maintain all the environmental records generated within the APLC's Environmental Management System, a number Environmental Registers have been developed. Register include:

- The Environmental Aspects and Impacts Register: maintains a list of all APLC identified environmental aspects and their related impacts.
- Legislation and Other requirements Register: identifies and maintains access to the APLC's environmental legal requirements.
- Register of Environmental Objectives and Targets: establishing and maintaining documented environmental objectives and targets.
- Communications Register: Contains a list of important environmental communications made. Includes e-mails, letters, records of phone conversations, minutes of meetings, etc.
- Document Control Register: maintains a current list off all the documentation and manuals that relate to the APLC's EMS.
- Operational Control Register: a list of all the APLC's environmental operational control procedures, especially for the activities identified as high environmental risk
- Emergency Preparedness and Response Register: maintains a list of all incident reports, investigation forms and follow up actions.
- Non-conformance and Corrective Action Register: records any of the EMS's non-conformances and any corrective action taken.

Environmental Aspects and Impacts Register

Last updated

Process	Aspect	Impact	Rank Score
Aerial Spraying	4. Controlling near sensitive areas i.e. organic properties, areas of national significance, threatened spp.	Risk to ecosystems, endangered species, long term market access for organic property, greatly damage APLC reputation, possible irreversible affects.	10
Aerial Spraying	9. Aircraft dumping chemical	Environmental pollution, market risk, health risk, long term impact, seepage to ground water, difficult to clean up.	20
Pesticide Handling	12. Transport to or from storage	Spill resulting in environmental pollution	30
Aerial Spraying	1. Off target drift	Environmental pollution, market risk, health risk, operations impact risk.	40
Pesticide Handling	14. Fire risk at storage	Wide spread air pollution, environmental risk and human safety risk, overflow of excess water.	50
Ground Operations	26. Vehicle fleet usage	vehicle air emissions and greenhouse.	60
Pesticide Handling	18. Storage security temporary and permanent	Misused stolen chemical or damaged chemical store resulting in environmental pollution/harm	70
Aerial Spraying	2. Aircraft sprayed wrong area	Environmental pollution, market risk, health risk, operations impact risk.	80
Ground Operations	22. Weed/disease spread	market risk, reputation risk, Social health risk, environmental damage.	90
Ground Operations	29. Vehicle started fire	Environmental and economic damage.	100
Aerial Spraying	6. Affect of residues	Long term impact, market risks.	110
Pesticide Handling	15. Temporary chemical and fuel storage at campaigns	Spill resulting in environmental pollution, affect APLC local reputation	120
Aerial Spraying	5. Non target spp effect	Damage to ecosystems, negative impact on non-target populations.	130
Aerial Spraying	7. In target hazard contamination	Environmental pollution.	140
Pesticide Handling	17. Waste handling and disposal	Pollution to environment, landfill issues, potential for recycling (hazardous and non hazardous waste)	150
Pesticide Handling	16. Fire at temporary storage	Air pollution, environmental hazard, OH&S safety.	160
Aerial Spraying	3. Poor application technique, not monitoring weather conditions closely	Environmental pollution, market risk, health risk, operations impact risk.	170
Aerial Spraying	8. Faulty application equipment	Over dosing/ under dosing target, leaks, environmental pollution.	180
Pesticide Handling	13. Field base chemical storage	Localised spill, social health risk and environmental.	190
Aerial Spraying	10. Use of aircraft	Greenhouse gas emissions, noise pollution.	200
Ground Operations	21. Vehicle on/off road damage	Road damage, erosion, habitat destruction, impact on sensitive/protected/culturally significant areas.	210
Pesticide Handling	19. Loading/unloading aircraft	Possible localised spill soil and water pollution	220
Ground Operations	25. Vehicle field surveys	Damage to sensitive/protected/cultural areas.	230
Ground Operations	28. Waste disposal, batteries, worn parts, rubbish	Landfill issues, environmental pollution.	240
Ground Operations	27. Survey vehicle cleaning	Environmental pollution (detergent use), Resource use (water).	250
Aerial Spraying	11. Cleaning of Aircraft.	Environmental impact from cleaning detergent, use of water for cleaning, runoff to the environment.	260
Pesticide Handling	20. Calibrating aircraft	Minor environmental spills	270
Ground Operations	24. Vehicle field surveys	Wildlife road kills,	280

Legislation and Other Requirements Register

Last updated

State	Legislation/Other Requirement name	Controlling Authority	Location of Details	Proposed Updates/changes
Commonwealth	<i>Environment Protection and Biodiversity Conservation Act 1999</i>	Environment Australia	http://www.environment.gov.au/epg/EPBC	
	<i>National Environment Protection Council (NEPC) Act 1994</i>			
	<i>National Environment Protection Measures (Implementation) Act 1998</i>			
	<i>Agricultural and Veterinary Chemicals Act 1994</i>			
	<i>Road Transport Reform (Dangerous Goods) Act 1995</i>			
	<i>Australian Heritage Commission Act 1975</i>			
NSW	<i>Protection of Environment Operations Act 1997</i>	EPA	APLC Spill reporting requirements	
	<i>Environmental Hazardous Chemicals Act 1985</i>			
	<i>Dangerous Goods Act 1975</i>			
	<i>Pesticides Act 1999 and Pesticides Amendment (Records) Regulations 2001</i>			
	<i>Rural Lands Protection Act 1989, - Pest Animals (Part 9A/ see Act No 55 of 94)</i>			
	<i>Contaminated Land Management Act 1997</i>	EPA	APLC Spill reporting requirements	
	<i>Threatened Species Conservation Act 1995 (plant and animal)</i>			
	<i>Heritage Act 1977</i>			
	<i>NEPC Act 1995</i>			
Victoria	<i>Environmental Effects Act 1978</i>			
	<i>Environment Protection Act 1970</i>			
	<i>Planning and Environment Act 1987</i>			
	<i>Pollution of Waters by Oil and Noxious Substances Act 1986</i>			
	<i>Catchment and Land protection Act 1994</i>			
	<i>Dangerous Goods Act 1985</i>			
	<i>Petroleum Act 1998</i>			
	<i>Plant Health and Plant Products Act 1995</i>			

State	Legislation/Other Requirement name	Controlling Authority	Location of Details	Proposed Updates/changes
Queensland	<i>Environment Protection Act 1994</i>	EPA	APLC Spill reporting requirements	
	<i>The Environmental Protection (Waste Management) Policy 2000 (the Policy) and the Environmental Protection (Waste Management) Regulation 2000 (the Regulation)</i>	EPA	APLC Spill reporting requirements	
	<i>Nature Conservation Act 1994</i>			
	<i>Land Act 1994</i>	QDNR		
	<i>Rural lands Protection Act 1990 (Covers the destruction of pests) 1999 draft amendments still to be passed.</i>	QDNR		
	<i>Contaminated Land Act</i>	EPA		
South Australia	<i>Environment Protection Act 1993</i>	EPA		
	<i>Public and Environmental Health Act 1987</i>			
	<i>Soil Conservation And Land Care Act 1989</i>			
	<i>Dangerous Substances Act 1979 and Dangerous substances Act Regulation 8 2002.</i>	Workplace Services		
	<i>Waste Management Act 1987</i>			
Western Australia	<i>Conservation and Land Management Act 1984</i>			
	<i>Environmental Protection Act 1986</i>			
	<i>Control of Vehicles (Off-Road Areas) Act 1978 (including regulations)</i>			
Other Requirements				
National Programs	<i>National Strategy for the Conservation of Australia's Biological Diversity</i>		http://www.environment.gov.au/portfolio/esd/biodiv/strategy/contents.html	
	<i>National Wetlands Program</i>		http://www.biodiversity.environment.gov.au/environm/wetlands/nwp/nwpindex.htm	
International Treaties	<i>Convention on Biological Diversity (1992);</i>			
	<i>Convention for the Protection of the World Cultural and Natural Heritage (1975)</i>	UNESCO		
	<i>Convention on Wetlands of International Importance (1971) (Ramsar Convention)</i>			
	<i>Convention on the Conservation of Migratory Species of Wild Animals (1979) (CMS or Bonn Convention)</i>			

Document Control Register

Last Updated

Manuals/materials	Publisher	Location	Version	Date last updated	Notes
APLC Occupational Health & Safety Manual	APLC	All staff maintain a copy	Nov-01		
AFFA OH&S Policy and Procedures for field workers	AFFA	AFFA intranet			
AEMS OpsManager User Manual V2.0	AEMS/APLC	All bases have a copy, with two spares in Canberra	Aug-02		
Agsafe Accreditation Training Manual	AGSAFE NSW	All staff have a copy	Version 9, May-02		
APLC Field Operations Manual (includes standing orders)	APLC	All staff have a copy	Aug-97	Aug-97	
APLC Locust Biology and Behaviour Manual	APLC	All staff, Control cases	Nov-86		
Instructions to spray pilots	APLC	Operations Manager, Control cases	APLC000906	Currently being updated, W.S. 19/11/02	
Australian Dangerous Goods Code	Federal Office of Road Safety	Operations Manager, All Field Bases	5th edition	1992	
ADG Code Vol 1 Requirements and Recommendations	Federal Office of Road Safety	Operations Manager, All Field Bases	6th edition	Jan-98	
ADG Code Vol 2 Technical Appendices	Federal Office of Road Safety	Ops Manager, All Field Bases	6th edition	Jan-98	
Active First Aid	PARASOL EMT Pty Ltd	All Staff	5th edition	2002	
The Load Restraint Guide		All Field Staff			
AFFA Induction Manual	AFFA- PwC	AFFA intranet		Aug-02	
APLC Induction Manual	APLC	Operations Manager		Currently being updated, W.S. 19/11/02	
Chemical Handling Manual for Agricultural Aviation	AAAA	All Field Bases, Operations Manager	Sep-98	Apr-98	
APLC Micronair AU5000 Handbook	APLC	All Field Bases, Control cases, Operations Manager, and Spray Officer	Ver 3, 5/87		
APLC Principles of Aerial Spraying	APLC	All Field Bases, Control cases, Operations Manager, and Spray Officer	Aug-92		
APLC- Requirements for Acceptance of Helicopter Spotter and Fixed-wing Spray Aircraft	APLC	Field Bases, and HQ outside Ops Managers Office	APLC001103	3/11/2000	
APLC- Landholder Consultation Record	APLC	Field Bases, and HQ outside Ops Managers Office		2/05/2001	
APLC- Release & Indemnity Forms	APLC	Field Bases, and HQ outside Ops Managers Office	APLC000220	20/02/2000	
Information on the Insecticide Fipronil	APLC	Field Bases, and HQ outside Ops Managers Office	APLCSEP2000	Sep-00	
Information on the Insecticide Fenitrothion	APLC	Field Bases, and HQ outside Ops Managers Office	APLCSEP2000	Sep-00	
APLC Training Manual	APLC	APLC Training Officer, all Field Staff	Version 1	Sep-02	
APLC- Description of Workplace duties	APLC	Operations Manual		6-Oct-01	Check location

Operational Control Register

Last Updated

Aspect	Covering Procedures	Manual
4. Controlling near sensitive areas i.e. organic properties, areas of national significance, threatened spp.	5.6 Restraints and Precautions Sensitive areas Database	Field Operations Manual Chapter 59
	Landholder consultation record	Control Briefcases & Outside Operation Managers Office
	Pre-application forms & risk assessment	AEMS OpsManager, all field laptops
9. Aircraft dumping chemical	APLC aircraft contract requirements	Operations Manager
	Insecticide Safety Policy	OH&S Manual Chapter 2
	Credible Emergencies	OH&S Manual Chapter 4
	Incident follow up procedures	? EMS Manual
12. Transport of DG's to or from storage	Insecticide Safety Policy	OH&S Manual Chapter 2
	Credible Emergencies	OH&S Manual Chapter 4
	Dangerous Goods	Field Operations Manual Chapter 8
	Dangerous Goods Transport Checklist	Control Briefcases & Outside Operation Managers Office
	Credible Emergencies in the APLC 2.1 Major Dangerous Goods Spill & 2.4 Major Vehicle Accident	OH&S Manual Chapter 3
1. Off target drift of pesticide	Instructions to Spray Pilots	Control Briefcases & Outside Operation Managers Office
	Pre-application forms & risk assessment	AEMS OpsManager, all field laptops
	APLC Principle for aerial spraying	All bases, control brief cases
	Control	
	5.3 Principle of Spraying 5.6 Restraints and Precautions	Field Operations Manual Chapter 5
	Incident follow up procedures	? EMS Manual
14. Risk of fire at a chemical/fuel store	Agsafe storage guidelines	Agsafe Accreditation Manual, Chapter 5A 5B & 6
	8.12 Fire Extinguishers	Field Operations Manual Chapter 8
	Credible Emergencies in the APLC 2.6 Fire	OH&S Manual Chapter 3
26. Vehicle fleet usage and ozone depleting emissions	<i>No guidelines yet (see industry standards)</i>	<i>Need to do</i>
18. Storage security temporary and permanent		Agsafe guidelines for Chemical Storage
	APLC Control Base - Interim Plan	OH&S Manual Chapter 12
2. Aircraft sprayed wrong area	APLC Aircraft contract	Operation Manager
	Incident Investigation Procedures	<i>work in progress Paul Storey</i>
	Credible Emergencies in the APLC 2.2 Accidental Spraying of Non-Target Area	OH&S Manual Chapter 3
	Incident Reporting Requirements	AEMS OpsManager
22. Weed/disease spread by vehicle	<i>No procedures established</i>	<i>Part of EMP to improve this aspect, see risk management review.doc</i>
29. Vehicle started grass fire	<i>No procedures established</i>	<i>Part of EMP to improve this aspect, see risk management review.doc, add to survey requirements</i>
6. Affect of residues	Control	
	5.5 Insecticides - Withholding periods 5.6.1 Permission to spray	Field Operations Manual Chapter 5
	<i>Need Procedures for MSDS sheets, Landholder information pack.</i>	<i>Update Field Operations Manual - Control section.</i>
15. Temporary chemical and fuel storage at campaigns	Dangerous Goods	
	8.7 Marking Chemical & Fuel Dumps at Airstrips	Field Operations Manual Chapter 8
	APLC Control Base - Interim Plan	OH&S Manual Chapter 12

Operational Control Register cont.

Aspect	Covering Procedures	Manual
5. Non target impacts	Control 5.6 Restraints and Precautions	Field Operations Manual Chapter 5
	Pre-spray risk assessment, and Application Product Guidelines	AEMS OpsManager procedures
	Post Spray Environmental Assessment	<i>New procedures to be established (Paul Storey)</i>
	APLC Landholder Consultation Record	All control briefcases, and outside Operation Managers Office
17. Waste handling and disposal	Control 5.6.4 Storage & Disposal of Pesticide Drums. 6.3 The Control base	Field Operations Manual Chapter 5 & 6 <i>Out of date procedures</i>
	APLC Hazardous Waste Disposal Guidelines	Disposal Contract (<i>Under development, Operations Manager</i>)
8. Equipment Maintenance	APLC Inspection and Maintenance Checklist	Inspection and Maintenance Requirements Manual - APLC
	APLC Requirements for the Acceptance of Aircraft (APLC001103)	All control briefcases, and outside Operation Managers Office
	Aircraft Contract Requirements	Held by Operations Manager.
	Cleaning Pesticide Pumps and Hoses	<i>Procedure to be developed and held in Inspection and Maintenance Manual</i>
21. Vehicle on/off road damage	Survey 4.9 Surveys in National Parks	Field Operations Manual Chapter 4.
19. Loading/unloading aircraft	Insecticide Safety 5.2 Insecticide Handling Procedures	APLC OH&S Manual, Chapter 2
28. Waste disposal, batteries, worn parts, rubbish	Internal AFFA requirements	?
	Commonwealth Guidelines	?
27. Survey vehicle and aircraft cleaning	<i>No procedures Established</i>	
20. Calibrating aircraft	Calibration 9.1.1 Flow Rate Calibration for Stationary Aircraft	Field Operations Manual Chapter 9.

