



Procedures Guide to an EMS for the Red Meat Industry - print version

Environmental Management System

Project number NBP.323 Final Report prepared for MLA by:

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Natural Resources

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The North Australia Pastoral Company Pty Limited

FOREWORD

This guide to an environmental management system for the cattle industry is an outcome from Meat and Livestock Australia's project NAP3.329 Environmental Management Systems Cattle Industry Pilot, October 2002.

Producers and others are interested to know what is involved in formulating and documenting an EMS. By using a step-by-step process, and adhering to the principles of ISO 14001, this guide looks to explain the processes and illustrate by example. The guide is not meant to be comprehensive and this is apparent with a limited number of cited on-property examples. Many of the examples used relate to Victoria and Queensland as this is the where the pilot EMS groups were based.

Importantly, the reader of this guide, should remember that ISO 14001 is a process standard not an environmental standard. ISO 14001 is used worldwide across all types of industries. This guide attempts to interpret ISO 14001 for use in the grazing industry and should not be treated as a definitive recipe for EMS.

MLA NOTICE

Information in this guide is obtained from a variety of third party sources. To the best of MLA's knowledge guide accurately sets out the requirements for an environmental management system. However, MLA cannot accept responsibility for the accuracy or completeness of the information contained in this guide. You should seek professional advice before making a decision affecting your interests.

To the extent permitted by law, MLA excludes all warranties in relation to the information contained in this guide. MLA is not liable to you or to any third party for any losses, costs or expenses, including any direct, indirect, incidental, consequential, special or exemplary damages or lost profit, resulting from any use or misuse of the information contained in this guide.

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HOW TO USE THIS DOCUMENT

This document contains the process (for inclusion in individual EMS documents) and the templates for recording. Some examples have also been included. The procedures provided in this guide may need to be modified to suite the organisations requirements.

Although the relevant parts of the AS/NZ ISO 14001 Standard (in grey shading) are quoted at the start of each section a full copy should be obtained from Standards Australia (GPO Box 5420, 286 Sussex Street, Sydney NSW 2001 Australia. Phone 1300 654 646, Fax 1300 888 258).

Each section of this EMS guide has been assigned a colour at the top of each section for quick reference. Where necessary tables have a box requiring an Authorising signature (initial) and Date and EMS Document number. This is used to maintain the paper trail and current versions.

If using this guide in the electronic form, the user is advised to save this guide in its original form and rename and save subsequent versions as it is altered. See Microsoft Help for more information.

The electronic version contains comments (MS Word 95-2001) or markup (MS Word 2002). They provide extra comments or directions to the reader. They may be turned on or off (viewing/printing) It is advised that they be turned off for final authorised copies. To view or remove these comments go to View/comments or markup. Depending on the version of word they may appear as a <u>yellow highlight</u> or a (bracket) leading to the comment. See Microsoft Help for more information.

This document utilises the Table feature to format forms. To remove words without altering the structure of the table, highlight and press the Delete key; to remove columns or rows; highlight and press the Backspace key. Table headings have been shaded.

Tables can also be copied (eg to develop more action plans) by left clicking the mouse on the $\sqrt[3]{v}$ icon that appears when the mouse curser is moved over the top left hand corner, and pasting onto a new page.

The electronic version contains links (indicated by an underline), that function like a website. To see the page that the link refers to: left mouse click on an underlined word. To return to the previous location (ie go back to where the link was clicked) left mouse click on the button. This button is only displayed on the Web tool bar. To view the web tool bar in Microsoft Word go to Tools/Customise/Toolbars then tick the box in front of Web.

Reasonably good computer skills are required to efficiently use the electronic version of the EMS. For more information see Microsoft Help, or complete some form of word-processing training.

INTRODUCTION

Unlike some other standards, AS/NZS ISO14001 (now referred to as 'the Standard') stipulates that the Environmental Management System (now referred to as 'EMS') must meet all the requirements of the standard, ie elements of the standard cannot be excluded. This EMS documents and manages environmental activities, and procedures used to deal with significant environmental activities. The Standard, purpose of each section, responsibilities, document control, and the actual procedure are outlined.

Compliance with the ISO standard does not guarantee operations and products are environmentally friendly. It does however document minimum performance requirements, procedures, activities and preventative and corrective actions and provides a mechanism for continual improvement. This EMS guide documents all procedures required to meet the Standard, including:

- ☑ Writing, maintaining and communicating an environmental policy (public statement of visions and commitment to environmental management);
- ☑ Demonstration of awareness and compliance with minimum performance requirements (legislation, catchment guidelines and codes of practice);
- ☑ A process for identifying ranking and dealing with significant environmental activities (eg grazing/pasture management or cropping) and their impacts (eg sediment loads in run-off water or chemical spills);
- ☑ An environmental management program of actions with realistic objectives (eg improve riparian/creek zone management or improve chemical handling procedures) and achievable targets (for example fenced off by 2010 or chemical mixing procedures displayed in shed by October);
- ☑ Clearly defining the structure, roles and responsibilities for all those involved in the organisation and implementation of the EMS (eg owner/manager, employees or contract musterers);
- Awareness of training and competence obtained/required for all involved in the organisation and the implementation of the EMS (eg Agricultural Chemical Safety Certificate or National Feedlot Accreditation);
- ☑ Register of both internal and external communications in regards to significant environmental aspects;
- ☑ Manual for key farm activities such as grazing/pasture management, fire management or chemical handling/storage;
- Emergency prevention (eg fire breaks maintained or fire extinguishers installed), response (fire warden contacted or machinery moved to secure location) and contacts (displayed in prominent places);
- ☑ Monitoring and measurement of natural resources and impacts of management decisions (eg rainfall, sediment load in water or photographs of pasture);
- ☑ Review of incidents due to accidents, emergencies or delays in action plans, or breakdowns in the system (identified during audits and reviews) and details for preventing or correcting recurrence (eg shed contaminated by chemical spill chemicals now mixed in designated area and bucket of loam/sand handy to prevent spread of chemicals or oil spills), register of all documents (including monitoring manuals or records etc) with issue/expiry dates, storage locations (eg filing cabinet or office wall); and
- \blacksquare Audit and review procedures to ensure that the system is working and up to date.



The Environmental Management System Implementation Cycle

1 Scope of the EMS

The scope of the EMS sets out the areas and activities of the organisation to be included in the EMS. It also outlines the organisations and people responsible for the implementation of the EMS.

| Organisation: | The operating unit or person that has its own functions and administration. | |
|---------------|--|--|
| EMS Manager: | Person responsible for support/training to staff and maintaining the documents and procedures outlined in the EMS. | |
| Auditor: | Registered external auditing organisation and auditor capable of conducting audits. | |
| Scope of EMS | The areas of the organisation that are to be covered by this EMS | |



2 Comparison of EMS Elements Table <u>2a Table of Requirements</u> details the linkages between sections of this EMS guide and other existing quality assurance programs.

| Section | Section Name | AS/NZ ISO | CATTLECARE | Graincare | Feedlot |
|---------|---|------------------------|---------------------|--|-----------------------------------|
| number | | 14001:1996 & 14004* | or FlockCare | Crambare | Manual |
| 4 | Property Description | | | C3.1 | |
| 5 | Environmental Policy | 4.2 | | | |
| 6 | Minimum Performance Requirements (Legislation) | 4.3.2 | | | |
| 7 | Assessing Significant Environmental impacts | 4.3.1& 4.3.3 4.2.2* | C1 | C1.1 | |
| 8 | Environmental Management Program | 4.3.3 & 4.3.4 | | | F 3-5 Environmental Aspects |
| 9 | Structure, Roles and Responsibilities | 4.4.1 | M1 | M1.1 | 2.2 |
| 10 | Training Awareness and Competence | 4.4.2 | M1a | M1.2-M1.6 | 1C |
| 11 | Communication | 4.4.3 | | M2.4 | |
| 12 | Procedures Manual for Key Farm Activities | 4.4.5 | C2, C3, L6 | C1.02-C1.5 C2.1-C2.8 C3.2-C3.6 G1.2-G1.6 G2.1-G2.2 G3.1-G3.5 G4.1-G4.5 G5.1-G5.7 G6.1-G6.4 | 2F, 5a-e (Chemicals) |
| 13 | Emergency Preparedness and Response | 4.4.7 | | | Emergency Contacts |
| 14 | Monitoring and Measurement | 4.5.1 | | G3.4, G5.6 | 1E |
| 15 | Incident Review and Corrective/ Preventative Action | 4.5.2 | M2b | M2.2, M2.3, M2.4 | 1D |
| 16 | Document Control | 4.4.5 & 4.5.3 | M3 & M4 | M3.1, M3.2, M4.1-M4.3 G1.1 | |
| 17 | EMS Internal Audit | 4.5.4 | M2a (Part B of EMS) | M2.1 | |
| 18 | Management Audit | 4.6 | | | 1A |

3

3 Definitions and References Definitions

Aspect Cause (of an Impact)

Biodiversity is the variety of all life forms – the different plants, animals and micro-organisms, the genes they contain, and the ecosystems of which they form a part.

Continual Improvement – process of enhancing the environmental management system to achieve improvements in overall environmental performance in line with the organisation's environmental policy. Note – The process need not take place in all areas of activity simultaneously.

(3.1) AS/NZ ISO 14001:1996

Corrective action (AS/NZS ISO 8402:1994, *Quality management and quality assurance – Vocabulary*, Clause 4.14) – action taken to eliminate the causes of an existing nonconformity, defect or other undesirable situation in order to prevent recurrence.

Document an original or official paper/hardcopy or other media, relied on as the basis, proof, or support (Britannica 2002).

Duty of care - All natural resource users and managers have a duty of care to ensure that they do not damage the natural resource base. The users should be responsible for making good any damage incurred as a result of their actions.

Environment: Surroundings in which an organisation operates, including air, water, land, natural resources, flora, fauna, humans and their interrelation. Note – Surroundings in this context extend from within an organisation to the global system. (3.2) AS/NZ ISO 14001:1996

Environmental Aspect: Element of an organisation's activities, products or services that can interact with the environment. Note – Significant environmental aspect is an environmental aspect that has or can have a significant environmental impact. (3.3) AS/NZ ISO 14001:1996

Environmental Impact: any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organisation's activities, products or services. (3.4) AS/NZ ISO 14001:1996 **Environmental Management System:** The part of the overall management system that includes organisational structure, planning activities, responsibilities, practices, procedures, processes and resources for developing, implementing, achieving, reviewing and maintaining the environmental policy. (3.6) AS/NZ ISO 14001:1996

Environmental Objective - Overall environmental goal, arising from the environmental policy, that an organisation sets itself to achieve, and which is quantified where practicable. (3.7) AS/NZ ISO 14001:1996

Environmental performance - Measurable results of the environmental management system, related to an organisation's control of its environmental aspects, based on its environmental policy, objectives and targets. (3.8) AS/NZ ISO 14001:1996

Environmental policy - statement by the organisation of its intentions and principles in relation to its overall environmental performance which provides a framework for action and for setting of its environmental objectives and targets. (3.9) AS/NZ ISO 14001:1996

Environmental target - detailed performance requirement, quantified where practicable, applicable to the organisation or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives. (3.10) AS/NZ ISO 14001:1996

Impact – Effect (of an Aspect)

Mitigate means to make less severe or reduce (Britannica 2002).

Interested Party - individual or group concerned with or affected by the environmental performance of an organisation. (3.11) AS/NZ ISO 14001:1996 **Nonconformity** (AS/NZS ISO 8402:1994, *Quality management and quality assurance – Vocabulary*, Clause 2.10) – nonfulfillment of a specified requirement [Note that nonconformance and nonconformity are used interchangeably in common use]. Examples include working outside established operating criteria, not meeting legal requirements or failing to notify where required.

Organisation - company, corporation, firm enterprise, authority or institution, or part or combination thereof, whether incorporated or not, public or private, that has its own functions and administration. Note - for organisations with more than one operating unit, a single operating unit may be defined as an organisation. (3.1.2) AS/NZ ISO 14001:1996

Prescribed wastes: are those listed in the Commonwealth or State EPA Prescribed Waste Regulations 1998 – which because of their risk to the environment require special handling, storage, transport, treatment and disposal. Prescribed wastes cannot be transported without waste transport certificates and can only be carried by accredited transporters to approved locations.

Prevention of Pollution: use of processes, practices, materials or products that avoid, reduce or control pollution, which may include recycling, treatment, process changes, control mechanisms, efficient use of resources and material substitution. Note: The potential benefits of prevention of pollution include the reduction of adverse environmental impacts, improved efficiency and reduced costs. (3.13) AS/NZ ISO 14001:1996

Preventive action (AS/NZS ISO 8402:1994, *Quality management and quality assurance – Vocabulary*, Clause 4.13) – action taken to eliminate the causes of a potential nonconformity, defect or undesirable situation in order to prevent occurrence.

Procedure (AS/NZS ISO 8402, 1.3) – specified way to perform an activity.

Record (AS/NZS ISO 8402, 3.15) – document, which furnishes objective evidence of activities performed or results achieved.

Reference List

Information from other sources that may be used in the development and maintenance of property operations has been included in the reference list below. Relevant management sections have been indicated to the right.

| | Relevant Management Areas covered by the reference | | | | | | | | | | | nce |
|--|--|-----------------------------|--------------|---------|-------------|-----------|-------------------------------|----------------------|----------------------|-------|----------------------|------------------------|
| 3a Reference List | Administration | Landscape & Biodiversity | Soil & Water | Pasture | Stock Water | Livestock | Cropping and Grain Storage | Pollution Control | Chemical Handling | Waste | Energy Efficiency | Minimum Performance |
| Government Departments | | | | | | | | | | | | |
| Agriculture Fisheries & Forestry Australia (AFFA) <u>http://www.affa.gov.au</u> | | Ø | V | Q | | | | | | | | Q |
| http://scaleplus.law.gov.au | | | | | | | | | | | | |
| ChemCollect Qld Ph: 1800 501 087 <u>www.env.qld.gov.au</u> /environment/ environment/waste/ | | | | | Ç | | | | Ø | | | |
| Environmental Protection Agency (EPA) www.epa.qld.gov.au | | Ø | | | | | | | | | | |
| Land & Water Australia (LWA) | | | V | | | | | | | | | |
| Environment Australia http://www.ea.gov.au | | | V | | | | | | | | | |
| Victorian Legislation <u>http://www.dms.dpc.vic.gov.au/</u> <u>http://www.nre.vic.gov.au</u> <u>http://www.epa.vic.gov.au</u> | | | | | | | | | | | | V |
| Natural Resources & Mines (DNR&M) PO Box 589, Dalby Qld 4405 Local Extension Staff www.dnr.qld.gov.au | | V | | | | | | | | | | V |
| NSW Agriculture Sustainable Grazing Systems – Michael Beer, Tamworth Ph: (02) 6763 1100 | | | | | | Ø | | | | | | |
| Queensland Department of Primary Industries (QDPI) Meiers Rd, Indooroopilly Qld 4068 Local Extension Staff <u>www.dpi.qld.gov.au</u> | | Ø | | | | Ø | | | | | | |
| State Development www.sd.qld.gov.au | Ø | | | Ø | | | | | | | | |
| L | | | | | | | | | | | | |

| | Re | levan | t Mai | nage | men | t Area | as co | vere | d by t | the re | efere | nce |
|--|----------------|-----------------------------|--------------|---------|-------------|-----------|-------------------------------|----------------------|----------------------|--------|----------------------|------------------------|
| 3a Reference List | Administration | Landscape & Biodiversity | Soil & Water | Pasture | Stock Water | Livestock | Cropping and Grain Storage | Pollution Control | Chemical Handling | Waste | Energy Efficiency | Minimum Performance |
| Other Organisations | | | | | | | | | | | | |
| ChemCollect schedule - http://www.qff.org.au | | | | | | | | | | | | |
| Birds Australia www.birdsaustralia.com.au | | V | | | | | | | | | | |
| DrumMuster www.drummuster.com.au | | | | | | | | | Ø | V | | |
| Fitzroy Basin Association Rockhampton Ph:07 49 212 443 Fax: 49 212 843 | | Ø | Ŋ | | | | | V | ☑ | | | |
| Greening Australia Queensland Inc. GPO Box 9868, Brisbane Qld 4001 Ph: 07 38 440 211 Fax: 38 440 727 www.qld.greeningaustralia.org.au | | V | | | V | | - | | | | | |
| Resource Consulting Services Pty Ltd Ph: 07 49 395 255, Fax: 49 395 144 | | | | V | V | Ø | | | | | | |
| Qld Landcare & Catchment Management www.landcaregld.org.au | | Ø | Ø | | | | | | | | | |
| General Reference | | | | | | | | | | | | |
| Balancing Production with Nature Conservation – case studies from inland Queensland (1998) Dorricott, K., Voller, P. and Lawrie, B. Available from DNR&M | | Ŋ | | V | | | | | | | | |
| Balancing Conservation & Production year of publication and editors CSIRO Tropical Agriculture | | Ø | | | | | | | | | | |
| CATTLECARE Manual | Ø | Ø | | | Ø | Ø | | V | Ø | Ø | | |
| Feedlot Manual | V | | | | Ø | Ø | | V | V | V | | |
| Graincare On-farm Quality Assurance Program (2000) Grains Council of Australia ISBN 1 875477 61 6 | V | | | | J | Q | | Ø | Ø | Ø | | |
| Farm Monitoring Kit - Land Management Society WA. Ph: 08 94 506 862 <u>www.lms.info.com/</u> | | Ø | Ŋ | V | Ø | | | | | | | |
| GrassCheck Monitoring Manual | | ☑ | V | Ø | |] | | | | | | |

| | Relevant Management Areas covered by the reference | | | | | | | nce | | | | |
|--|--|-----------------------------|--------------|---------|-------------|-----------|-------------------------------|----------------------|----------------------|-------|----------------------|------------------------|
| 3a Reference List | Administration | Landscape & Biodiversity | Soil & Water | Pasture | Stock Water | Livestock | Cropping and Grain Storage | Pollution Control | Chemical Handling | Waste | Energy Efficiencv | Minimum Performance |
| Land Use, Pesticide Use and Their Impact on Water Quality on the Liverpool Plains (1998) Mawhinney W., Department of Land and Water Conservation – Liverpool Plains Water Quality Project. ISSN 1329-8984 | | | | | | | | | V | | | |
| Natural Resource Monitoring Guide (1999). ISBN 0 7242 7440 5 Department of Natural Resources Qld. | | Ø | | | | | | | | | | |
| Monitoring Farm Flora & Fauna (2000) Greening Australia (Dalby) | | Ø | V | | | | | | | | | |
| Pasture Watch Manual (1993) QE92007 Department of Primary Industries, Qld | | Ø | | Ø | | | | | | | | |
| Prime Notes (CD ROM) - Department of Primary Industries Qld www.dpi.qld.gov.au | | Ø | V | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | |
| SaltWatch (1994) QE94004 Qld Department of Primary Industries and Qld Landcare and Catchment Management | | | | | | | | | | | | |
| Waterwatch and Sediment Watch Manuals - Department of Natural Resources & Mines, Biloela (Qld) | | Ø | Ø | | | | | | | | | |
| Legislation | | | | | | | | | | | | |
| Law of the Land – A guide to Environmental Law for Farmers 2nd Ed. (1998) Environmental Defenders Office | Ŋ | Ø | Ø | V | V | Q | V | Ŋ | J | Ŋ | N | Ø |
| Free email legislation update available from http://www.freehills.com | Ø | Ø | V | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø |
| Queensland legislation regular updates: http://www.legislation.gld.gov.au Native Vegetation management in | Ø | Ø | Ŋ | Ø | ☑ | Ø | Ø | Ø | Ø | Ø | Ø | Ø |
| Australia available at <u>http://www.ea.gov.au/land/vegetation/m</u> <u>anagement/commonwealth.html</u> | | Ø | | | | | | | | | | Ø |
| Environmental Protection and Biodiversity Conservation Act http://www.ea.gov.au/epbc | | Q | | | | | | | | | | Ø |
| Environmental Legislation Register January 2001, Queensland Government Department of Main Roads | | | | | | | | | | | | R |
| Document Control Officer, Road System & Engineering (07) 3834 2035 | | | | | | | | | | | | |

| | Relevant Management Areas covered by the reference | | | | | | | | | | | |
|---|--|-----------------------------|--------------|---------|-------------|-----------|-------------------------------|-----------|----------------------|-------|----------------------|------------------------|
| 3a Reference List | Administration | Landscape & Biodiversity | Soil & Water | Pasture | Stock Water | Livestock | Cropping and Grain Storage | Pollution | Chemical Handling | Waste | Energy Efficiency | Minimum Performance |
| | | | | | | | | | | | | |
| Codes of Practice & Guidelines | | | | | | | | | | | | |
| Australian Model Code of Practice for the Welfare of Animals (1992) CSIRO. Standing Committee on Agriculture, Animal Health Committee SCA Report Series No.39 | | | | | Ø | Ø | | | | | | V |
| Code of Practice for the Storage and Use of Chemicals at Rural Workplaces (2000) Qld & NSW, Also see Australian Standard 2507 | | | | | | | | | Ø | | | Ø |
| Graincare On-farm Quality Assurance Program (2000) Grains Council of Australia Ph: 02 62 733 000 | | | | | | | | | 1 1 1 1 | | | V |
| Graincare Code of Practice | | | | | | | | | Ø | | | \square |
| Individual property fire management planning kit. SEQ Fire and Biodiversity Consortium. Logan City Council Phone: 07 3826 5555 | | Ø | Ø | | Ø | Ø | Ø | | | | | |
| Queensland Farmers Federation Environmental Code of Practice <u>http://www.qff.org.au</u> | | Ø | Ø | | | Ø | V | | | | | V |

ENVIRONMENTAL REVIEW AND PLANNING

4 Initial Environmental Review

Purpose

The initial environmental review aims to clarify controllable primary production and environmental issues that may occur on the property. It covers a range of issues relating to grazing, the environment and the community. A significant benefit of the initial environmental review is that it initiates an overall review of production activities on the property. The review is designed as a tool for evaluating the strengths and weaknesses of property management.

Responsibility

The EMS manager shall be responsible for completing the initial environmental review, upon consultation with other relevant parties.

Document Control

The initial environmental review shall be reviewed annually at the <u>18a Management Review</u>. It is not expected to vary significantly between audits. The location of copies shall be recorded in the Document Control Register (see <u>16</u>. Records and Document Control Register)

Procedure

- 1. Complete the Property Description Summary, including a brief description of the physical, natural and managerial resources available on the property <u>(4a Property Description)</u>.
- 2. Draw or insert a property plan (<u>4b Property Plan</u>), in order to provide a brief overview of the scale and nature of the property.
- 3. Describe the major property activities and their associated inputs, outputs and broad environmental impacts. This information may be recorded in <u>4c Initial Environmental Review.</u>
- 4. It may also be useful to complete a SWOT or Strength, Weaknesses, Opportunities and Threats analysis on some of these activities.
- 5. The information detailed in the initial environmental review may be used later in <u>7</u> <u>Assessing Significant Environmental Impacts.</u>

4a Property Description

| Organisation Name: | | Quality Assurance Programs in Place: |
|-----------------------------------|--|---|
| Location: | | |
| Rainfall | | |
| Title Details: | | |
| Lot # | Property Plan numbers and Tenure | |
| Major Production Activities | | |
| Natural Resources Overview | | |
| History | | |
| Future Goals | | |

4b Property Plan



| | | Authority | Issue Date | EMS Doc# | | | | | | | |
|--|--|---|---|---|--|--|--|--|--|--|--|
| 4c Initial Environmental Review | | | | | | | | | | | |
| Organisations (or propertys) | Supplies or Inputs | Outp | uts | Broad | | | | | | | |
| Main Activities | Raw Materials | Products or services | Wastes / Emissions | Environmental Impacts | | | | | | | |
| Livestock Production | Sun, wind, water and fossil fuels Timber, fuel and oil (fencing) veterinary supplements. fodder, hay and molasses | Beef, sheep, wool | Steel wire, exhaust emissions, methane gas, oil | Improved pasture quantity/quality, gully erosion in heavy traffic areas | | | | | | | |
| Harvesting – Seed and Hay | Fuel, oil, seed, herbicides and pesticides, solvents. Drums, tanks and containers | Buffel seed, native pasture and hay | Batteries, tyres, packaging, chemical sprays, solvents | Reduced nutrient cycling in soil, compaction. | | | | | | | |
| Pasture, wildlife and water management | | Diverse native flora and fauna | | | | | | | | | |
| Rural Living | Groceries and Beef | | Domestic or household waste. Electrical consumption | | | | | | | | |

| Activity | | | |
|----------|---------------|------------|--|
| | Strengths | Weaknesses | |
| | | | |
| | | | |
| | | | |
| | | | |
| | Opportunities | Threats | |
| | | | |
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| | | | |
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| Activity | | | l |
|----------|---------------|------------|---|
| | Strengths | Weaknesses | |
| | | | |
| | | | |
| | | | |
| | | | |
| | Opportunities | Threats | |
| | | | |
| | | | |
| | | | |
| | | | |

5 Environmental Policy

Environmental Policy

Top management shall define the organisation's environmental policy and ensure that it:

- a) is appropriate to the nature, scale and environmental impacts of its activities, products or services;
- b) includes a commitment to continual improvement and prevention of pollution;
- c) includes a commitment to comply with relevant environmental legislation and regulations, and with other requirements to which the organisation subscribes;
- d) provides the framework for setting and reviewing environmental objectives and targets;
- e) is documented, implemented and maintained and communicated to all employees; and
- f) is available to the public (4.2) AS/NZ ISO 14001:1996

Purpose

The purpose of the environmental policy is to define a vision for the future of the organisation, its environmental priorities and goals. The policy is a publicly available document outlining the environmental management commitment.

Responsibility

This policy and its implementation is the responsibility of management in general. The policy is a working document that is reviewed as technology and practices are developed in the coming years.

Document Control

A current signed original of the policy shall be included in the EMS manual. An authorised copy shall be available to all staff, contractors, interested parties and management. A current copy shall be on display in the office.

Communication

An authorised (signed and dated copy) copy shall be made available to any interested party on request (including neighbours and clients). This copy shall be provided on company letterhead, and outgoing correspondence recorded in the <u>16a Document Control</u> Register.



Environmental policy of(business name)

To reflect our concern for managing the environmental issues highlighted in this review we have developed an environmental policy.

The purpose of this environmental policy is to define a vision for the future, its environmental priorities/ goals and to provide a framework for setting target and reviewing environmental standards. This policy covers all aspects of our grazing/ farming operation. The policy is a publicly available document outlining our environmental management commitment.

The policy, and its implementation is the responsibility of(the owner/manager name here).

The property produces livestock and a range of fodders and grains for domestic and international markets. We are committed to managing key environmental issues, with particular emphasis on promoting soil health, and maintaining environmental standards that are consistent with the local town plan, State codes of practice, industry codes of practice and all relevant legislation.

Through the promotion of the continual improvement (inherent in our Environmental Management System) we are committed to achieve the above objectives by:

- Preventing pollution of land, water and air by strict adherence to government regulations and industry codes of practice, and through continual improvement of our grazing/ farming operations using realistic and achievable guidelines;
- ✓ Protecting native flora and fauna in all areas of grazing/farming operations where possible;
- ✓ Dedicating human and financial resources to fulfil our environmental goals;
- Minimising the volume of waste generated on property and implementing reusing and recycling opportunities wherever possible and practicable;
- ✓ Using the most appropriate indicators available to monitor property operations and document our environmental progress; and
- ✓ Informing all property members, employees, contractors and suppliers of their environmental responsibilities, through training and communication.

We aim to produce a high quality product and achieve ecologically sustainable production of beef on(business name) by minimising direct and indirect environmental and social impacts and conserving our natural resources. We have taken account of relevant State and Federal compliance requirements.

| | Date |
|-----------|----------|
| Name: | |
| Position: | Location |

6 Legal and Other Requirements

Legal and other requirements

The organisation shall establish and maintain procedures to identify and have access to legal and other requirements to which the organisation subscribes, that are applicable to the environmental aspects of its activities, products or services.

6

(4.3.2) AS/NZ ISO 14001:1996

Purpose

Establish a system or process that keeps track of ongoing changes to legislation, guidelines and codes of practice etc.

Responsibility

Knowledge of the minimum performance requirements is the responsibility of the EMS manager. This includes the responsibility of periodically checking for updates (via email, newspapers, local community groups, farmer/agricultural/primary production groups/bodies and government agencies). Websites and mailing lists that may be checked are listed in section <u>Reference List</u>.

Document Control

Where possible electronic copies of updates and email shall be maintained on the property computer. Paper copies shall be maintained as per <u>16a Document Control</u>

Procedure

The following steps should be followed :

- Identify (See <u>Reference List</u>) and summarise the relevant minimum requirements in <u>6a</u> <u>Environmental legislation, guidelines and codes of practice summary.</u> This should be completed as part of the initial environmental review and as a result of triggers such as media coverage of legislation / obligations, significant changes in production activities. Minimum performance requirements should be updated at least annually.
- 2. Identify those actions or management procedures that demonstrate compliance with the minimum requirements.
- 3. Where applicable list reference documents in the <u>16a Document Control</u> or <u>Reference List</u>.
- 4. In order to track changes and updates, record details of minimum requirement checks in Table: <u>6b Legal and other requirements update log.</u>

Legal and Other Requirements



| | | Authority | Issue Date | EMS Doc # 6a - |
|---|--|---|-----------------------------|-------------------|
| 6a Environmental legi | slation, guidelines an | d codes of p | ractice sun | nmary |
| Guiding Document | Obligations & responsibility | ties Overview | Complianc | e Details |
| Australian / New Zealand St | | | • • | |
| Environmental management "continual improvement" | t systems – Specification wi Support the continual imp environmental manageme | rovement in | JSE | |
| "implement all current legal requirements" "minimising wastes" "informing all property members" | To meet the businesses' responsibilities and ensur Recycling where possible amount of waste produce To ensure that all staff are businesses' environmenta objectives and that all staff environmental responsibil | e compliance. , but also reduce d. e aware of the al policy and ff meet their | 3 | |
| "preventing pollution" | Safe storage and use of c fuels, also includes waste pollution etc | hemicals and | | |
| "broadly communicate this policy" | The policy is displayed in available to the public on Certification number will b our letterhead. | request. | | |
| Commonwealth Legislatio | n | | | |
| Environment Protection and Biodiversity Conservation Act 1999 | Commonwealth focus on fenvironmental significance World heritage areas RAMSAR wetlands Nationally threatened communities Listed migratory species | e' including: species and | | |
| State Legislation | | | | |
| Agricultural and Veterinary Chemicals (Qld) Act 1994 | Safe storage and handlin and veterinary chemicals. | - | al | |
| Environmental Protection Act QLD 1994 | Principal guiding of environmental managem responsibility to mee Environmental Duty of must not carry out any ac or is likely to cause env unless they take re practicable measures minimise harm. Requires demonstration o | ent. Outlines a bet a genera Care. A person tivity that cause rironmental harn easonable and to prevent c | a al n s n d | |
| Regional Guidelines | | | | |
| East Gippsland Catchment Management Authority Catchment Management Plan | Under the provisions of th Land Management A Government has given Catchment and land Prote function of preparing a re | ct 1994, the the section Boards the | e al e | |

Legal and Other Requirements

| | he strategy identifies particular sub- | |
|---------------------------------|--|--|
| re as w ha pl th | egional environmental issues that may be associated with properties such as vaterways degradation, vegetation/ habitation loss, soil structure decline, pest plants and animals. It identifies programs hat producers may be able to link in to esolve environmental issues on farm. | |
| Other | | |
| | Standard for storage and handling of fuel. | |
| Handling of Fuel | /linor storage 5000L petrol 10 000L diesel Emergency planning Signs | |
| В | Bunding or containment | |
| Fi La | Spill prevention, control and clean up Fire extinguishers Larger than minor storage must have strict procedures in place as indicated by Sect 9. | |
| Local Council Pest | · · · | |
| Management Plans | | |

| | | | | Authori | ity | Issue Dat | e EMS 6b- | Doc # |
|-----------|---|----------|-------|---------|-----------|-----------------|--------------|-------|
| 6b Lega | l and other requiremen | ts updat | e log | | | | | |
| | Details | | | Frequen | it update | e sources (init | ial) | |
| Date | (include source if not on the frequent list) | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Reference | References: | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

ENVIRONMENTAL IMPACTS AND ACTIONS

7 Assessing Significant Environmental Impacts

Environmental Aspects

The organisation shall establish and maintain (a) procedure(s) to identify the environmental aspects of its activities, products or services that it can control and over which it can be expected to have an influence, in order to determine those which have or can have significant impacts on the environment. The organisation shall ensure that the aspects related to these significant impacts are considered in setting its environmental objectives.

The organisation shall keep this information up-to-date. (4.3.1) AS/NZ ISO 14001:1996

Objectives and Targets

When establishing and reviewing its objectives an organisation shall consider the legal and other requirements, its significant environmental aspects, its technological options and its financial, operational and business requirements, and the views of interested parties.... (4.3.3) AS/NZ ISO 14001:1996

Purpose

Identify all key activities, that can be controlled (ie not natural disasters), and rank the aspects. Aspects were defined as the part of an activity (pasture or livestock management, infrastructure siting and design etc) that causes an environmental impact such as soil erosion or increased biodiversity.

Responsibility

Owners and all levels of management shall have input into the development of the <u>7b Aspects and</u> <u>Impacts Register</u>. Where appropriate, outside expertise (Landcare, agency officers etc) shall be enlisted.

Document Control

The location and version number (both electronic and Hardcopy) of the Aspects and Impacts Register (Table 7a) shall be recorded in <u>16a Document Control</u>.

Procedure

- 1. Identify the principle property activities that are controllable (Column A).
- 2. Identify the aspect (cause) of each of the current and potential impacts. (Column C)
- 3. Identify all current and potential impacts that may occur as a result of the activity (both positive and negative) (Column C).
- 4. Indicate if the impacts are relevant to the local catchment. (Column D)
- 5. Where applicable the relevant legislation, industry guideline or code of practice shall be noted in column D.
- 6. Indicate with a Yes or No in Column E if the impact is applicable on the property.
- 7. Notes are made in column E, indicating whether the impacts have a positive or negative effect on the environment.
- 8. Significant aspects shall be identified by completing the <u>7a Risk Assessment Matrix</u>, in the table below. The impacts of activities shall be assessed **without risk controls** (that is disregarding current management procedures that may reduce or change risk of

impacts) to determine the "real" or inherent risk and the most appropriate method of risk control. The all important *impact score* is an index of frequency x severity rating. The *total score* includes a practicality component (financial cost and 'fixability' constraints) (Column F).

Impact score = A * B

9. The cut off point for significance shall be recorded in the total score significance threshold box in <u>7a Risk Assessment Matrix.</u> For the changes to the environment (impacts listed in column C) that had a total score over the threshold; 'yes' shall be placed in column G. This column shall also used to indicate relative operational procedures/ management strategies or action plans. Those not yet in place shall be underlined. Where relevant the EMS Document Reference Number should also be recorded.

| | | | Sigr | Impact Score Significance Threshold | | |
|--|----|--|------|---|--------|---|
| 7a Risk Assessi A Frequency | ne | nt Matrix B Severity (including potential) | | C Practicality | | |
| Continuous or several times per day | 5 | Where action requires a licence / permit, or is specifically covered by legislation | 100 | Simple to fix No cost | | 5 |
| Very Frequent (several times per week) | 4 | Severe impact- Permanent or wide scale damage to the landscape / ecosystems, loss of flora/fauna, may take greater than 10 years to recover | 4 | Simple to fix Low-Moderat | e cost | 4 |
| Frequent (several times per year) | 3 | Moderate impact - Able to be contained and remediated with no long-term effects | 3 | Hard to fix Low cost | | 3 |
| Seldom (once every couple of years) | 2 | Indirect impact | 2 | Hard to fix High cost | | 2 |
| Once in 10 years or over | 1 | Minor indirect impact | 1 | Impact is wid property High cost and resources | | 1 |
| Unheard of | 0 | Negligible | 0 | | | |

10. Aspects with significant impacts shall be ranked according to the impact score. Those without controls or management strategies already in place shall be rewritten in the table <u>7c Ranked Significant or Priority Issues</u>. Ranking may not always fully reflect the real situation – decisions can be made and recorded to ensure that key issues were tackled first in the action plans. Consideration should also be given to the 'fixability' rating (refer to the Total Score).

11. Action plans shall be developed for all significant impacts not covered by operational/management procedures (See section <u>12. Procedures Manual for Key Farm Activities</u>). If an issue received a low total score, but is considered to be of principal concern (received a high impact score) to the property or region, it should also have an action plan (see section <u>8 Environmental Management Program</u>).

7 Assessing Significant Environmental Impacts

| Authority Issue Date EMS Doc # 7b Aspects and Impacts Register | | | | | | | | | |
|---|---|--|--------------------------------|---|---|----------------|------------------------------------|-----------|---|
| A Principal property activity | B Aspect or Cause Issue Address in action plans if related to a | C Relevant Impacts | | D Relevant Legislation, Industry Guidelines or Codes of Practice Legislation in italics | Legislation,ImpactsGuidelinesapplicable onof PracticepropertyYes or NoIndicate if | | F Scores See instructions | | G ignificant Impacts I on the impact score I Indicate relevant |
| | significant impact | Current or potential | Catchmen Scale? es or No | | positive or negative impact | Impac Score | Total Score | or No? | Management Strategy |
| Grazing | | Reduced creek bank stability (due to stock movement) | Y | | Y - | 20 | 80 | Y | |
| | | Weed seed spread | Y | Rural Lands Protection Act (QLD) 1994 | Y - | 5 | 20 | | |
| | Grazing of riparian | Nutrification (from stock watering in creek) | Y | | Y - | 15 | 60 | Y | |
| (creek) zone | (creek) zones | Fire hazard | | | Y - | 12 | 24 | Y | <u>12.4 Fire</u> Management |
| | | Erosion/ sedimentation | Y | Water quality standards | Y - | 12 | 36 | Y | |
| | | Changes in diversity (tall rank grass on creek flats) | Y | | Y - | 16 | 48 | Y | |



| | | | Auth | nority | Issue Date EMS Doc # 7c- |
|------------------------------|---|-----------------|-------|--------|---|
| 7c Ranked Sigr | nificant or Priority | lssues | | | |
| Aspect | Impact | Impact Score | Total | Rank | Environmental Management Program proposed or in place |
| Grazing in Riparian zones | Reduced creek bank stability (due to stock movement) | 20 | 80 | 1 | 8b-01 Riparian Zone Management |
| Grazing in Riparian zones | Changes in Diversity (tall rank grass on creek flats) | 16 | 48 | 3 | |
| Grazing in Riparian zones | Nutrification (from stock watering in creek) | 15 | 60 | 2 | |
| Grazing in Riparian zones | Erosion / Sedimentation | 12 | 36 | 4 | |
| Grazing in Riparian zones | Fire hazard | 12 | 24 | 5 | 12.4 Fire Management |
| | | | | | |
| | | | | | |
| | | | | | |

8 Environmental Management Program

Objectives and targets

The organisation shall establish and maintain documented environmental objectives and targets, at each relevant function and level within the organisation.

The objectives and targets shall be consistent with the environmental policy, including the commitment to prevention of pollution. (4.3.3) AS/NZ ISO 14001:1996

Environmental Management Programs

The organisation shall establish and maintain (a) program(s) for achieving its objectives and targets. It shall include:

- a) designation of responsibility for achieving objectives and targets at each relevant function and level of the organisation; and
- b) the means and time-frame by which they are to be achieved.

If a project relates to new developments and new or modified activities, products or services, programme(s) shall be amended where relevant to ensure that environmental management applies to such projects. (4.3.4) AS/NZ ISO 14001:1996

Actions within this EMS will be given priority to ensure that all plans are achievable and contribute to improvements in property management and sustainability, and take into account the viability of the enterprises on the property.

Purpose

In order to deal with the significant impacts listed in table <u>7c Ranked Significant or Priority Issues</u> goals or objectives are to be identified. By setting targets and completion dates progress can be managed, monitored and audited.

Responsibility

The development and monitoring action plans are the responsibility of the EMS manager and management.

Document Control

The location and version number (both electronic and hardcopy) of the environmental management program shall be recorded in <u>16.</u> Records and Document Control.

Procedure

- 1. Based on the ranking of significant impacts (7c Ranked Significant or Priority Issues), priorities for action shall be established in the <u>8a-01 Action Plan Summary</u>.
- 2. Objectives to achieve these actions shall be identified. For each objective, achievable target dates, responsibilities and performance indicators shall be established.
- 3. Where more space is required a detailed action plan (eg <u>8b-01 Riparian Zone Management</u>) may be completed.
- 4. When objectives (and targets) have been met, they should be signed off (initialled and dated).
- 5. Where targets have not been completed, or if changes are required to action plans the corrective action review section at the end of the action plan shall be completed. If a complaint or significant change is needed an <u>15a</u> Incident Preventative and Corrective Action Reporting Sheet shall be completed.



| | | | | Authority | | EMS Doc# 8a-01 | | | |
|--|--------------------------|--------------------|---------------------------------|---|--------------------------------------|-------------------|--|--|--|
| Ba-01 Action Plan Summary EMS Doc # and Action plan Title: Objective (or issue to be improved) Objective Person responsible Completion date Performance indicator Cost or benefit to be gained D (I a date | | | | | | | | | |
| <u>8b-01 Riparian Zone</u> <u>Management</u> | See detailed action plan | Owner / Manager | 01/06/03 30/11/03 | Fence completed and pasture monitoring in place | Improved riparian zone management | | | | |
| | | | | | | | | | |



| | | Authority | | Date | | EMS Do 8b- 01 |)C # | | | | |
|---|---|--|--|-----------|--|-------------------|------------------------------------|--|--|--|--|
| Title | 8b-01 Ripa | 8b-01 Riparian Zone Management | | | | | | | | | |
| Purpose or issue to be addressed | | Creek banks stability, weed seed spread, nutrification, erosion/ sedimentation, basture diversity/ quality. | | | | | | | | | |
| Aims, goals or objectives | | Minimise stock movement in the creek bed, limit stock access to stream water, and mprove the quality (both species diversity and quality) of feed on the creek flats. | | | | | | | | | |
| References | | d Management Research & Deve | | | | | /ater | | | | |
| Actions | | Person responsible | Performance | indicator | and | t date pletion | Completed (initial and date) | | | | |
| Design layout of (taking into cons structure siting a procedures) | ideration | <u>9a-01 Mr</u> <u>Beef</u> <u>Producer</u> (Owner/ Manager) | property map cer r/ | | 01/0 ² 01/02 | | 20/01/03 OM | | | | |
| Develop a budge construction | et for | Owner/ Manager | Know the tota construction | I cost of | 20/0 ² 01/02 | | 25/01/03 OM | | | | |
| Contact Greenin and Landcare to project is suitabl devolved grant. | see if | Owner/ Manager | Contact details logged in the <u>11a</u> <u>Communication</u> <u>Register</u> . | | 01/0 ⁻ 01/02 | | 10/01/03 OM | | | | |
| Purchase materi | als | Owner/ Manager | Equipment / n on property. | naterials | 01/02 | | 28/02/03 OM | | | | |
| Clear and peg lir | ne; | Owner/ Manager | Fence line cle | ared | 01/02 01/00 30/1 ⁻ | 6/03 | | | | | |
| Erect Fence | | 9a-03 Contractors Name | Photographs f grant success | | 01/02 01/00 30/1 | 6/03 | | | | | |
| Cost/ benefit | Cost/ benefit Currently the creek flats have a large quantity of rank, unpalatable grass. By completing this fencing project we will be able to alter the grazing pressure to suit the creek country. This will also reduce some of the pressure on the 'sweeter' surrounding hill country. This should result in improved pasture quality and quantity in both paddocks. | | | | | | | | | | |
| Monitoring and recording | established | Pasture condition shall be monitored using Grasscheck. Benchmarks shall be established before fence line is complete. Monitoring shall be carried out at least once a year to evaluate the impact of changed management. | | | | | | | | | |
| Corrective Action/ Review | (review dat | Due to illness and contractor delays only 50% of fence line has been completed (review date 15/06/03). See <u>15a-01 Riparian Zone Management.</u> A new completion date has been set for 30/11/03. | | | | | | | | | |

IMPLEMENTATION AND OPERATION

9 Structure, Roles and Responsibilities

Structure and Responsibility

Roles responsibilities and authorities shall be defined, documented and communicated in order to facilitate effective environmental management.

Management shall provide resources essential to the implementation and control of the environmental management system. Resources include human resources and specialised skills, technology and financial resources.

The organisation's top management shall appoint (a) specific management representative(s) who, irrespective of other responsibilities, shall have defined roles, responsibilities and authority for:

a) ensuring that environmental management system requirements are established, implemented and maintained in accordance with this International Standard;

b) reporting on the performance of the improvement of the environmental management system. (4.4.1) AS/NZ ISO 14001:1996

Purpose

The purpose of this element is to define the roles, responsibilities and authorities of those involved in the implementation and control of the EMS. The roles, responsibilities and authorities must be defined to ensure that the EMS is implemented and maintained according to the Standard. This shall include specific representative(s) and their roles in the management and reporting of the EMS.

Responsibilities

The owner/manager controls all management responsibilities for farm activities and the EMS. (See <u>1 Scope of the EMS</u> It is the responsibility of the owner/manager to ensure that roles and responsibilities are current, and communicated appropriately. Where staff and other individuals have acknowledged responsibilities they shall then assume them

Document Control

All current, authorised, Roles and Responsibility Sheets shall be maintained in the EMS Manual. Authorised copies shall be provided to staff/ managers on completion and upon request.

Procedure

Roles and Responsibility sheets shall be completed for all involved individuals. Staff and management shall then sign off, indicating their intention to carry out assigned duties, and assume responsibilities bestowed upon them.

The procedures of Key Farm Operations (eg branding, handling chemicals etc) shall be defined in <u>12.</u> Procedures Manual for Key Farm Activities.

Roles, responsibilities and authorities must be defined to ensure that the EMS is implemented and maintained according to the standard. This shall include specific representative(s) and their roles in the management and reporting of the EMS. Contractors are listed in external communications.


| | | | | Authority | Date | EMS Doc # 9a- 01 | | | |
|---------------|--|----------|---|-----------------------|-------------------|---------------------|--|--|--|
| Name | e: | | 9a-01 Mr Beef Producer | | | | | | |
| Posit | ion: | | Owner/ Manager and EMS Manager | | | | | | |
| Role: | : | | Ultimate responsibility for the total bu | usiness. | | | | | |
| Resp | onsibi | lities[/ | 437] | | | | | | |
| 1. | | | t the majority of office (including EM o the ISO 14001 Standard. | S manager) and ma | anual work and | d maintaining | | | |
| 2. | Resp | onsib | le for all staff | | | | | | |
| 3. | | | aining to new staff in the areas of liv ource management, and workplace he | | t, agricultural i | management, | | | |
| 4. | Prov | ide tra | ining to staff in environmental awaren | ess and managemer | nt. | | | | |
| 5. | 5. Responsible for the husbandry practices conducted on the property, such as mustering, branding, supplementary feeding, mating, weaning and supervision of animal welfare. | | | | | | | | |
| 6. | Responsible for ensuring proper use and administration of veterinary chemicals, including drenching, vaccination, and treatment of external parasites. | | | | | | | | |
| 7. | | | le for marketing and sales of lives nt and preparation. | stock from the prop | erty, including | g live animal | | | |
| 8. | Resp | onsib | le for completing chemical inventory a | and self-assessment. | | | | | |
| 9. | | | of all "Quality" records including Livecords. | vestock Sales and F | Purchases, Tre | eatments and | | | |
| 10. | | | le for organising internal audits, auc outlined by audits. | lits and carrying out | action plans | or corrective | | | |
| Chen | nical A | uthor | isation Details:[A38] | | | | | | |
| Perm | hitted to | o use | all property chemicals used on the pro | operty. | | | | | |
| l und | Declaration: I understand the above Roles and Responsibilities and have a copy of the environmental policy for In addition the Quality Assurance Programs, Emergency response procedures and Operating Procedures for Key Farm Activities have been outlined to me. | | | | | | | | |
| | | | | | | | | | |
| Signe | ed: | | | Date: | | | | | |
| Print Name | | | | | | | | | |
| | - | | | | | | | | |



| | | | Authority | Date | EMS Doc # 9a- 02 | | | | |
|---------------|--|---|---------------------|-------------------|---------------------|--|--|--|--|
| Name |): | 9a-02 Casual Employee Nam | ne | | | | | | |
| Positi | on: | Casual station hand | | | | | | | |
| Role: | | Provide assistance to the owner/ ma | nager and complete | e tasks as outlin | ed. | | | | |
| Respo | Responsibilities[A41] | | | | | | | | |
| 1. | 1. Reports to owner/ manager. | | | | | | | | |
| 2. | | property chemicals under supervision b nduction training. | based on quality as | surance proced | lures outlined | | | | |
| 3. | 3. Animal husbandry duties under supervision taking into account quality assurance procedures outlined during induction training. | | | | | | | | |
| 4. | Carry out station duties as instructed by owner/ manager taking into account environmental policy, environmental awareness training and occupational health and safety. | | | | | | | | |
| 5. | | operty plant and equipment as instrumental policy and environmental awa | | | | | | | |
| 6. | Other d | uties as directed. | | | | | | | |
| Chem | nical Auth | orisation Details:[A42] | | | | | | | |
| Permi | itted to us | e property chemicals on the property u | nder supervision. | | | | | | |
| Decla | ration: | | | | | | | | |
| | I understand the above roles and responsibilities and have a copy of the environmental policy for In addition the Quality Assurance Programs, Emergency response procedures and Operating Procedures for Key Farm Activities have been outlined to me. | | | | | | | | |
| Signe | ed: | | Date: | | | | | | |
| Print Name | | | | | | | | | |



| | | | Authority | Date | EMS Doc # 9a- 03 | | | |
|--|---|---|-------------------------|------------------|---------------------|--|--|--|
| Name | e: | 9a-03 Contractors Name | I | | | | | |
| Positi | on: | Contractor | | | | | | |
| Role: Fence construction | | | | | | | | |
| Responsibilities[A44] | | | | | | | | |
| 1. | Reports | to owner/ manager. | | | | | | |
| 2. | | out standard contractor duties with an kplace health and safety. | awareness of the pr | operty environ | mental policy | | | |
| 3. | Ensuring that work complies with the property environmental policy and workplace health and safety. | | | | | | | |
| 4. | | omplies with CATTLECARE, Flockcare ality assurance certification. | e and Organic Qualit | y Assurance | Guidelines or | | | |
| Cherr | nical Author | prisation Details:[A45] | | | | | | |
| Perm | itted to us | e chemicals on the property under sup | ervision if required as | s part of the co | ntract work. | | | |
| | ration: | | | | | | | |
| I understand the above roles and responsibilities and have a copy of the environmental policy for In addition the Quality Assurance Programs, emergency response procedures and Operating Procedures for Key Farm Activities have been outlined to me. | | | | | | | | |
| Signe | ed: | | Date: | | | | | |
| Print Name |) | | | | | | | |
| | | | | | | | | |

(4.4.2) AS/NZ ISO 14001:1996

10 Training Awareness and Competence

Training Awareness and Competence

The organisation shall identify training needs. It shall require that all personnel, whose work may create a significant impact upon the environment, have received appropriate training.

It shall establish and maintain procedures to make its employees or members at each relevant function and level aware of:

- a) the importance of conformance with the environmental policy and procedures and with the requirements of the environmental management system;
- b) the significant environmental impacts, actual or potential, of their work activities and the environmental benefits of improved personal performance;
- c) their roles and responsibilities in achieving conformance with the environmental policy and procedures and with the requirements of the environmental management system, including emergency preparedness and response requirements; and
- d) the potential consequences of departure from specified cooperation procedures.

Personnel performing the tasks which can cause significant environmental impacts shall be competent on the basis of appropriate education, training and/or experience.

Purpose

Training records enable the owner/ manager to identify the skills and qualifications of workers relating to the property and documents what, if any, training needs to be carried out. This element enables the owner/ manager to establish and maintain procedures in order to ensure that all managers and employees are aware of the environmental impacts (actual/ potential) of their work, and that their training is adequate to understand the importance of, and carry out their work, according to, the environmental policy and procedures the EMS.

Staff who are aware of the environmental impacts of their work are likely to be more enthusiastic. Adequate training and/or experience in their duties will lead to a better understanding of the EMS and decrease the chance of negative impacts occurring.

Responsibility

The EMS Manager is responsible for assessing competence and/or the need for training of staff and contractors, or for delegating roles to third parties.

Document Control

Training record details shall be maintained within this EMS. Where necessary copies (certified if required) of certificates and qualifications should be kept with employee records and noted in the <u>16a</u> <u>Document Control.</u>

Procedure

All new personnel (including employees, managers and contractors) undergo induction training and through that process identify training needs. External training is provided by independently audited organisation where appropriate.

Complete the <u>10a-01 Training Record Register</u>, by identifying current and future training needs of all staff and management. This should be reviewed on an annual basis, or for new staff. Key questions to be answered:

- a) Is current training adequate to perform their duties?
- b) If not, what training would best suit their needs and what training is planned?



| | | | | ty | Date | EMS Doc # 10a-01 | |
|---|--------------------------------|--|---------------------------------|--------|-------|---------------------|---|
| 10a-01 Training Record Re | egister | | | | | | I |
| 9 Structure, Roles and Responsibilities (EMS Document Reference, including Staff Name) | Training Adequate Yes/No | Required or completed training Details (Title, Certificate Numbers and Renewal Date) | Provider | | Locat | ion | Date completed or to be completed by: |
| 9a-01 Mr Beef Producer | Y | Agricultural Chemical Safety Certificate | ChemSafe Training | j Qld. | | | |
| | | Veterinary Chemical Safety Certificate | ChemSafe Training | ı Qld. | | | |
| | | Artificial Breeding Australia Certificate | Qld Rural Tra Council | aining | | | |
| | | MSA Producer Certificate | Meat and Live Australia Ltd. | stock | | | |
| | | National Feedlot Accreditation Scheme | AusMeat Accredite | d | | | |
| | | 40 years on the job training and general experience. | Prior learning | | | | |
| | | | | | | | |

11. Communication

Communication

With regard to its environmental aspects and environmental management system, the organisation shall establish and maintain procedures for:

- a) internal communication between the various levels and functions of the organisation;
- b) receiving, documenting and responding to relevant communication from external interested parties.

The organisation shall consider processes for external communication on its significant environmental aspects and record its decision. (4.4.3) AS/NZ ISO 14001:1996

Purpose

To establish and maintain procedures for communications within the organisation and for receiving, documenting and responding to relevant communication from interested external parties. Communication procedures also provide the scope for significant environmental aspects to be communicated to outside parties.

Internal communication regarding the EMS will help employees manage the environment better and deal with questions and concerns about the environmental impact of the organisation's activities. Addressing these questions or concerns and dealing with any incidents will lead to a more informed workforce and continual improvement in environmental management.

Communication with external interested parties will increase awareness of the organisation's environmental performance and this understanding should lead to fewer complaints. Contractors who are made aware of their obligations are less likely to create negative impacts on the environment. Communication with external parties also increases awareness within the organisation (ie contact with research organisations, government agencies, and conservation groups).

Responsibility

Maintaining the communications register is the responsibility of the EMS Manager. Managing and responding to relevant (significant environmental issues), communications is the responsibility of the EMS manager.

Document Control

Relevant correspondence records shall be logged according to the procedure below. Location of key references such as the farm diary shall be recorded in <u>16a Document Control</u> Register.

Procedure

Internal communication of incidents relating to environmental management shall be recorded on form 11a Communication Register. Management will determine the nature and extent of action to be taken and where necessary document the actions taken. Staff and external parties shall be made aware of the results of their reports (or communications) and any changes in policy or procedure that occur as a result of them (also to be recorded in the Communication Register).

External communication received on significant environmental aspects shall be recorded on form <u>11a</u> <u>Communication Register</u>. These communications and their replies are to be stored in a manner as to prevent deterioration for a period of **five** years.

Where communications relate to significant impacts (Complaints), the procedure should be followed as in <u>15. Incident Review and Corrective / Preventative Action</u>.



Example Only

| 11a Communication Register | | | | | Author | ity | Date | | EMS Doc # 11a- |
|----------------------------|---|-----------------------|-------------------------------------|---|--------|--------------------------------|-------------|---------------|---|
| Date | Person who initiated Contact | Person who replied | Inwards, Outwards or Internal | Details – including main topics, type of communication & location of copy.Action Needed?If yes Include Incident Reporting Sheet where necessary. | | EMS Amendment Details | | | |
| 12/12/02 | Shire Council / Landcare Group | | | *Letter: Advising that s weed species commonly within the local creek subcatchment. | occur | None at present information | - awareness | when creek | nation to be considered looking at management of areas (<u>8b-01 Riparian Zone</u> agement) |
| | | | | | | | | | |
| | | | | | | | | | |

12. Procedures Manual for Key Farm Activities

Operational Control

The organisation shall identify those operations and activities that are associated with the identified significant environmental aspects in line with its policy, objectives and targets. The organisation shall plan these activities, including maintenance, in order to ensure that they are carried out under specified conditions by:

- a) establishing and maintaining documented procedures to cover situations where their absence could lead to deviations from the environmental policy and the objectives and targets;
- b) stipulating operating criteria in the procedures; and
- c) establishing and maintaining procedures related to the identifiable significant environmental aspects of goods and services used by the organisation and communicating relevant procedures and requirements to suppliers and contractors. (4.4.5) AS/NZ ISO 14001:1996

Purpose

Procedures shall be developed to minimise any adverse affects that relevant operations or activities may have on the environment.

By establishing and maintaining documented procedures, the risk of adverse affects on the environment is minimised, and the potential benefits of operations are greater. These procedures may cover a wide range of operations, help with management planning and reduce costs. They also provide a guide for staff and contractors to follow.

Responsibility

The key farm management and operation procedures should be developed in conjunction with all staff and management. The EMS Manager is responsible for ensuring that all relevant people are aware of and follow procedures in day-to-day operations.

Document Control

An authorised copy shall be maintained in the EMS Manual. Relevant sections should be displayed where needed (chemical handling procedures stored in chemical shed). The location of these copies should be recorded in the <u>16a Document Control</u> Register.

Procedure

- 1. Based on identified **significant environmental issues** (<u>7c Ranked Significant or Priority Issues</u>), identify the key aspects and **property operations involved**.
- 2. Establish a set of written procedures to cover those operations that relate to significant aspects, stipulating operating criteria where necessary.
- 3. Review these procedures annually or when changes occur that may impact upon them.

12.1 Management and Administration

- Property and business management plan has addressed all relevant topics and documented information is up to date.
- All staff have been made aware and understand, the documented management and administration plan, and are committed to its application. Workplace Health and Safety issues have been addressed. Relevant documentation is up to date and displayed.
- Staff training is in place and regularly updated. Training and cross-skilling in all relevant facets of the business, has been undertaken. Regular Workplace Health and Safety checks are undertaken.
- Staff are allocated tasks in which they are fully trained and competent. Multi-skilled staff attend refresher courses, and are rotated.
- Training has been put in place to establish a chain of command (succession). To overcome staff changes, and to ensure the business continues to function competently (especially in emergencies), retraining is ongoing.
- Detailed records are kept of financial, management, succession, and staff details. Disaster and accident or other emergency response plans are documented and displayed.

12.2 Machinery

- Oil, water and fuel are to be checked prior to starting the machine at the beginning of each day.
- Tyres (including spare) are to be checked once a week to ensure all are inflated to correct level.
- Appropriate personnel protective gear is to be worn when using grader, bulldozer, tractor, and backhoe.
- Seatbelts are to be worn in all vehicles that have them provided.

- Helmets are to be worn on motorbikes and horses.
- Information relating to location of where work is to take place is to be given to another person when work is taking place away from the homestead.

12.3 Grazing

- A sustainable utilisation rate is used, and strategic resting of pasture is always practiced.
- Grazing decisions are based on suitable, fixed time frame repeatable monitoring program. These standard practices lead to improved pasture health, and minimal water run-off.
- Full consideration is given to the relationship between trees and pastures before any development is undertaken.

12.4 Fire Management

- Fire breaks maintained on boundaries (especially along public and access roads). Controlled burns also conducted in high-risk areas, especially along public access roads.
- Sensitive areas identified (houses, machinery shed, softwood scrub, orchards) and protected from potential fires (slashing and firebreaks).
- Internal fences protected by slashing when appropriate.
- Full consideration is given to a balanced eco-system. Fire is only used under strictly controlled conditions. Fire prevention measures are in place at all times. Fire control equipment is fully maintained.
- Essential service features such as water storages, and creek crossings are marked on property map or emergency plan. Location of fire extinguishers and fire fighting equipment also marked. Appropriate training undertaken with the rural fire brigade.

13. Emergency Preparedness and Response

Emergency Preparedness and response

The organisation shall establish and maintain procedures to identify potential for and respond to accidents and emergency situations, and for preventing and mitigating the environmental impacts that may be associated with them.

The organisation shall review and revise, where necessary, its emergency preparedness and response procedures, in particular, after the occurrence of accidents or emergency situations.

The organisation shall also periodically test such procedures where practicable.

(4.4.7) AS/NZ ISO 14001:1996

Purpose

Develop an emergency plan to respond to and minimise environmental damage that may occur as a result of a normal conditions, accidents or natural disasters.

Responsibility

It is the responsibility of the owner/ manager and all staff to be aware of emergency response procedures and contact numbers (or at least the location of such information). The owner/ manager shall be responsible for maintaining the procedures, running drills and tests where necessary and ensuring that an up to date copy is available.

Document Control

Response Plans and Contacts should be highly visible. Authorised copies shall be made available to all staff, management and contractors.

Procedure

- 1. Develop a set of emergency response procedures using table 13a Emergency Prevention & Response Plan.
- 2. Define appropriate emergency response.
- 3. Include preventative measures that should be undertaken to avoid emergency situations developing.
- 4. Complete <u>13b Emergency Contact List</u> containing numbers and addresses.
- 5. When significant emergencies do occur, complete an <u>15a</u> Incident Preventative and Corrective <u>Action Reporting Sheet.</u>



| | | nority | Date | EMS Doc # | |
|---|---|---|---|---|--|
| 13a Eme | rgency Prevention & Response | Plar | า | | 13a- |
| Incident (in order of relative risk) | Preventative measures | | | Res | sponses |
| Bush Fire | Ensure that critical areas such as fuel bowsers, chemical shed and equipment storage areas are free of litt and fire risk is reduced. Maintain fire breaks on boundary fences (see the farm plan in section 2.0 and other sensitive environmental area (eg riparian zones) Use slasher to reduce fuel load of relevant internal fences. Conduct controlled burn in high- areas along public access roads. Join, or be in contact with memb of the local bush fire brigade. Attend Bushfire Brigade training courses. Locate essential features such a nearest suitable water and creek cross on farm plan (have copies available). Designate an emergency channe (UHF or mobile phone number) | er /)) is on risk ers s ings | wate b the fo new | hbours whe Load fire- r tank on ve Assess si ollowing if r | ocal fire warden and ere necessary. fighter pump and ehicle. tuation and do one of necessary - make grader or bulldozer) |
| Fuel Spills | Ensure tanks are sealed with protective coatings. Locate major storage units away f environmentally sensitive areas, such a creeks, water bodies and underground aquifers. Regularly check the maintenance bulk fuel storage facilities (minimise lea and identify potential risks). Never leave running fuel tanks unattended. Where possible have back up shu taps (especially if facility uses gravity). | of aks, | > other > (saw from > conta | er spillage. Transfer r r storage. Spread ak dust/sand) reaching w Clean up, aminated so opriate con Inform rel ired. | removing bil into bucket or |



| Chemical Spills including smaller quantities of fuels and oils) | Ensure storage and mixing occur in specified areas (bunded or contained if large quantities are involved). Ensure all operators have protective clothing and appropriate training. This includes access to clean water where relevant. Bucket with absorbent material checked before chemicals mixed or used. | Where spills occur small use sand/bentonite/soil/sawdust or other absorbent material to minimise spread of contamination. Place contaminated absorbent material into a bucket or suitable container. Where possible soil is renovated in situ, or deposited in a secure landfill. Report according to legal requirements (if the spill is significant). |
|---|--|--|
| Equipment or machinery fire | Ensure that all machinery have fire extinguishers available for when in use. Fire fighting equipment (including extinguishers, water trailers, pumps, overalls etc) are serviced and ready to be used. | In the event of significant fire contact Emergency Services. Where appropriate contact the local Rural Fire Brigade. Isolate fire where possible using appropriate extinguishers. |
| Flood | Where possible move livestock to higher ground. | • |
| Septic Systems | | • |



| | | Authority | Date | EMS Doc # 13b- | |
|---|------------------------|------------------------|------------------------------------|-------------------|--|
| 13b Emergency C | Contact List | Business I | Hours | After Hours | |
| Police | | | | | |
| Rural Fire Service | All fires 24 hours | | 00 | 0 | |
| | Fire Control Officer | | | | |
| | Mobile service | | | | |
| | Radio channel | | | | |
| | Permit | | | | |
| State Emergency | Phone | | | | |
| Services SES | UHF | | | | |
| | Mobile | | | | |
| Shire Council | Administration | | | | |
| | Waste services | | | | |
| | Environmental | | | | |
| | services | | | | |
| Ambulance | Local office | | | | |
| | All hours | | 000 | 0 | |
| Doctor | Hospital | | | | |
| | Out-patients | | | | |
| Poisons Info Centre | | | 131 1 | 126 | |
| Electricity Provider | Supply | | | | |
| | Customer service | | | | |
| | Emergency line | QL | QLD – Ergon Energ VIC - TXV 131 | | |
| | Local contractor | | | | |
| Department of | Local officer | | | | |
| Natural Resources & Mines | Dalby office | | | | |
| Environmental | Roma | | | | |
| Protection Agency | Toowoomba | | | | |
| | Pollutions & incidents | | 1300 13 | 30 372 | |
| Department of Land | Catchment manager | 5662 | 4555 | | |
| and Water Conservation/ Department Natural Resources | Regional office | 5662 | 9900 | | |
| Department of Primary Industries – Exotic Diseases | | | 1800 67 | 75 888 | |
| Insurance Company Workers | | | 1800 0 | 1716 | |
| Compensation | | | 1000 0 | | |
| WorkCover | Information | QLD – 130 VIC – 964 | 0 362 128 | | |
| | Emergency | | | | |
| Fuel | Emergency all hours | | | 1 | |
| Spray Contractors | | | | | |
| Vet | | 1 | | | |
| | | 1 | | | |

CHECKING AND CORRECTIVE ACTION

14 Monitoring and Measurement

Monitoring and Measurement

Organisation shall establish and maintain documented procedures to monitor and measure, on a regular basis, the key characteristics of its operations and activities that can have a significant impact on the environment. This shall include the recording of information to track performance, relevant operational controls and conformance with the organisations environmental objectives and targets.

Monitoring equipment shall be calibrated and maintained and records of this process shall be retained according to the organisation's procedures.

The organisation shall establish and maintain documented procedure for periodically evaluating compliance with relevant environmental legislation and regulations (4.5.1) AS/NZ ISO 14001:1996

Purpose

Monitoring is an essential part of the property /operational plan. It enables success and progress (of Action Plans and environmental management) to be benchmarked, and standards set in order to achieve goals. Regular monitoring should also identify changes or situations where monitoring targets have not been met.

Responsibility

It is the responsibility of the EMS manager to ensure that the monitoring program is current and implemented.

Document Control

The relevant sections and records of the monitoring program (eg. rainfall chart and <u>14a Monitoring</u> <u>Program</u>) shall be displayed in the office. All monitoring records are to be maintained for at least five years before being archived.

Procedure

Individual monitoring procedures shall be identified in the table $\underline{14a \text{ Monitoring Program}}$. They may also be detailed in other documents if more room is required. Location of these documents shall be recorded in the $\underline{16a \text{ Document Control.}}$

Responsibilities, frequencies and locations of records shall also be recorded.

Legal requirements shall be monitored and legal and other requirements will be in compliance.



| | | Authority | Date | EMS Doc # 14a-01 | | |
|--|---|---------------------------------------|--|--------------------------------|------|--|
| 14a Monitor | ing Program | | | | | |
| Activity or Indicator | Method | Person responsible | Frequer | cy Record location | | |
| Rainfall | Rain gauge at house | Owner/ manager | When necessa | Rainfall Recordin sheet. | g | |
| Chemical Store Inventory | Determine condition of stored chemicals. Check use by dates and remove from store. CATTLECARE Code of Practice | Owner/ manager | Biannua | Ily CATTLE Records | CARE | |
| Daily and weekly checks of sto water quality and quantity Water Quality | | k Owner/ manager al all employe | | Farm dia | ry | |
| Water Quality | Sediment watch, pesticide and nutrient sampling, see manual | Employees | As need during water flo | office and | - | |
| Sediment run- | As above Sediment watch | | | | | |
| off / erosion from paddock | During stock checks major erosion events are noted | All | As need | led Farm Dia | ary | |
| | Monitor soil levels (photographs against permanent pegs placed in key erosion points of riparian zone | | | | | |
| Soil Salinity | | | | | | |
| Soil Water | | | | | | |
| Soil Nutrients | Agritech Food Method | Owner/ manager | Periodic – within seven years | ally | | |
| Pest Levels | | | | | | |
| Groundcover | Photo-standards- photographs taken showing permanent markers (pickets) | Owner/ manager | At least twice a year | Farm offi | | |
| | Grasscheck pasture monitoring | Owner/ manager | Owner/ At least | | се | |
| | | | | | | |

15. Incident Review and Corrective / Preventative Action

Non-conformance and corrective and preventative action

The organisation shall establish and maintain procedures for defining responsibility and authority for handling and investigating non-conformance, taking action to mitigate any impacts caused and for initiating and completing corrective and preventative action.

Any corrective or preventive action taken to eliminate the causes of actual and potential non-conformances shall be appropriate to the magnitude of problems and commensurate with the environmental impact encountered.

The organisation shall implement and record any changes in the documented procedures resulting from corrective and preventative action. (4.5.2) AS/NZ ISO 14001:1996

Purpose

To verify ongoing compliance with the EMS standard by undertaking and recording periodic internal audits and implementing corrective and preventative actions for any complaints and non-compliance identified. Corrective action shall also occur as a separate process to auditing. Management should ensure that the corrective actions are implemented and that there is a systematic follow up to ensure their effectiveness.

Responsibility

Filing of incident reports may be done by staff, management and contractors. Oversight, monitoring and action of results is the responsibility of the EMS manager. Authorisation is the responsibility of the EMS manager (specifically relating to responding to complaints and significant incidents).

Document Control

Periodic internal audits are required to verify on-going compliance with the EMS standard. Records of internal audits shall be kept.

Procedure

- 1. Identify non-conformity (targets dates have not been met, minimum performance requirements have not been met or a specific incident may have occurred).
- 2. Isolate the non-conformity.
- 3. Assess the extent.
- 4. Identify root cause(s) of incidents or non conformity.
- 5. Notify staff and discuss how to correct.
- 6. Correct errors, operational procedures or improve staff training.
- 7. Record non-conformance and actions taken in the form provided <u>15a</u> Incident Preventative and <u>Corrective Action Reporting Sheet.</u>



| | | | | Autho | ority | Date | EMS Doc # | |
|---------------------------------------|--------------------------------|---|------------------------------|--|------------|----------------|-------------|--|
| | | | | | | | 15a-01 | |
| | | entative and | | | Reportin | ig Sheet | | |
| Title | 15a-01 R | iparian Zon | e Managen | nent | | | | |
| Review Date | 15/06/03 | | | Did all el work? | ements of | f the procedu | YES NO | |
| Reviewed By | Owner/ Ma | nager | | lf No, wh | y not? | | | |
| Incident Location | Creek Pade | dock | | NA | | | | |
| Date | 15/06/03 | Time: | | - | | ts should be i | made to the | |
| Details: | | nt to action plar | | procedui NA | re? | | | |
| on time due new estima 30/11/03 | to illness ar ted time of p | e creek was no nd contractor de roject completi | elays. The on shall be | | | | | |
| | | ty to cause ha | arm and | | any cont | | . YES | |
| seriousnes | s of that ha | | | be imple | | ns that should | NO | |
| | MED urrently in p | | GH | NA | inenteu : | | | |
| no | | | | | | | | |
| Were there | any injurie | s, & if so to w | hom? | | | t these action | | |
| NA | | | | are carrie | ed out im | mediately (Dat | te) TES NO | |
| | | | | Date: Action plan extension to take effect immediately | | | | |
| | Damage to | property/ infra | structure | Who is responsible for carrying out these actions | | | | |
| NA | | | | As stated in the Action Plan | | | | |
| Was the iss | sue avoidab | ole, & how? | | Were the | Correctiv | /e & | YES NO | |
| | | | | | | ns effective | TES NO | |
| | | vere sudden an | ld | | hat should | l be done? | | |
| unexpected | | | | NA | | | | |
| | procedures | | VEC | | | hat should be | | |
| followed fo | | YES NO | during the Management Review | | | | | |
| | ency Respo | IISC FIdII (| | No | | | | |
| Which proc NA | | | | | | | | |
| Was the Pr | ocedure Fo | llowed? | YES NO | Auditor | Auditor's | Name | | |
| NA | | | | Date: | 20/07/03 | | | |
| 11/7 | | | | Signed: | | | | |

16. Records and Document Control

Document Control

The organisation shall establish and maintain procedures for controlling all documents required by this International Standard to ensure that:

- a) They can be located;
- b) They are periodically reviewed, revised as necessary and approved for adequacy by authorised personnel;
- c) The current versions of relevant documents are available at all locations where operations essential to the effective functioning of the environmental management system are performed;
- d) Obsolete documents are promptly removed from all points of issue and points of use, or otherwise assured against unintended use;
- e) Any obsolete documents retained for legal and/or knowledge preservation purposes are suitably identified.

Documentation shall be legible, dated (with dates of revision) and readily identifiable, maintained in an orderly manner and retained for specified period. Procedures and responsibilities shall be established and maintained concerning the creation and modification of the various types of document. (4.4.5) AS/NZ ISO 14001:1996

Purpose

To ensure that all EMS documentation reflects precisely what actually occurs within the business, and that information has been stored or communicated according to the relevant procedures. It shall also facilitate location of information by other interested parties, especially where EMS has been integrated with other quality assurance programs.

Operational processes and procedures should be defined and appropriately documented and updated as necessary.

Responsibility

Maintaining the records and documents shall be the responsibility of the EMS manager. EMS manager is also responsible for final authorisations on procedures, changes to documents and EMS records.

Document Control

Obsolete files shall be removed from the EMS manual, only the latest revision shall be available.

Procedure

All individual documents when issued shall contain an Authorisation (Signature, Date, EMS Document Reference Number)

The naming convention for electronic files shall consist of: the title, version number and issue date. To be identified as an authorised copy the document shall be password protected, but able to be viewed as 'read only' document without authorisation. Permanent back up copies of all electronic files shall be made after EMS Audits and Reviews.

A list of all documents shall be maintained in <u>16a Document Control.</u>

Out of date documents shall be marked as Archived and removed from the EMS Manual. The version number on both Electronic and Hardcopy documents shall change, and major changes/ reviews recorded in the <u>16a Document Control.</u>

No record to be maintained within the EMS Manual. The Archived records of this EMS, and other supporting evidence shall be recorded in the <u>16b EMS Records Register</u>.



| | | | Authori | ity | Date | EMS Doc # 16a- |
|--|-----------|---------------------------------|--------------------------------------|--------------------------------------|--|--|
| 16a Documen | t Control | Register | | | | J |
| Document Title | Da | ate | Number of | Location | Details | |
| | Issue | Expiry | Copies & Type | | | |
| Environmental Management System manual latest version | 06/11/02 | 01/07/03 | 2, Electronic and hard copy | Filing cabinet and computer | Office compute C:/EMS/prope Jan 2003.doc Filing cabinet | rty name V8 05 |
| Initial Environmental Review | 06/11/02 | 01/07/03 | 2 hardcopy | EMS manual and office wall | Copy included version of the above. | EMS manual |
| 6a Environmental legislation, guidelines and codes of practice summary | 06/11/02 | 01/07/03 | 1 | EMS manual, office bookcase | | ated in office islation section. ates and copies |
| <u>8b-01 Riparian</u> <u>Zone</u> <u>Management</u> | 01/01/03 | 01/06/03 30/11/03 | 1 | EMS manual | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |



| | | | | Authori | ty | Da | ate | EMS Doc # 16b- |
|---|----------|----------|------------|---------|---|---------|---|--|
| 16b EMS Reco | ords Reg | ister | | | | 1 | | |
| Document Title | Da | ate | | mber of | Location | | Details | |
| | Issue | Expiry | Сор Тур | oies & | | | | |
| <u>6a</u> <u>Environmental</u> <u>legislation,</u> <u>guidelines and</u> <u>codes of</u> <u>practice</u> <u>summary</u> | 06/11/02 | 01/07/03 | 1 | | EMS manual, office bookcase (notes on compliance |) | bookshelf Leg Electronic up | reference cated in office gislation section. dates and copies MS/Legislation |
| Pasture Monitoring Records | | | 1 | | Monitoring folder | | maintained in folder in the c | |
| | | | 2 | | Spreadshee on compute (C:/My Documents, Monitoring/ 2003 | er / | Data analyse spreadsheet over time. | d in a to track changes |
| Rainfall Records | | | 1 | | Rainfall charts on office wall | | Rainfall recor rainfall chart i | ds recorded on n office. |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

17. **EMS Internal Audit**

Environmental management system audit

The organisation shall establish and maintain (a) programme(s) and procedures for periodic environmental management system audits to be carried out, in order to: a)

- determine whether or not the environmental management system:
 - Conforms to planned arrangements for environmental management 1) including the requirements of this International Standard; and
 - 2) Has been properly implemented and maintained; and
- b) provide information on the results of audits to management.

The organisation's audit programme, including any schedule, shall be based on the environmental importance of the activity concerned and the results of previous audits. In order to be comprehensive, the audit procedures shall cover the audit scope, frequency and methodologies, as well as the responsibility and requirements or conducting audits and reporting results. (4.5.2) AS/NZ ISO 14001:1996

Purpose

Internal Audits should be carried out in order to ensure that the EMS conforms with the Standard, and that it has been properly implemented and maintained.

Responsibility

It is the responsibility of the EMS Manager to ensure that audits are carried out within the required timeframe and that the recommendations following audits have been implemented.

Record Control

Only the latest authorised copy shall be retained in this EMS manual. 16b EMS Records Register shall record the archived copies.

Procedure

Internal audits shall be carried out according to the 17a EMS Internal Audit Schedule:.

Example Only

| 17a EMS Internal Audit Schedule: | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--|--|
| Location | On property or head office | | | | | | | |
| Date/Frequency | To best fit in with the property activities cycle. Minimum | | | | | | | |
| | of 2 audits per year | | | | | | | |
| Scope/ Summary | To be indicated on the front page of the audit (17b-01 | | | | | | | |
| | Summary Internal Audit Inspector's Report). | | | | | | | |
| Auditor | Various (some may be self audited) | | | | | | | |
| Audit Structure | A. Interview with property management - complete | | | | | | | |
| | checklist, brief inspection of key property documents and | | | | | | | |
| | site inspection. <u>17c Internal Audit Checklist</u> Part A | | | | | | | |
| | B <u>17d</u> Audit of Key Farm Activities Part B Audit significant | | | | | | | |
| | activities that can be observed. | | | | | | | |
| Audit Duration | A 4 hours B 4 hours (approximate) | | | | | | | |
| Reference | EMS manual, and tables, monitoring records etc. | | | | | | | |
| documents | | | | | | | | |
| Report Structure | Conforms to ISO 14001 and established procedures | | | | | | | |
| | Review objective evidence | | | | | | | |
| | Dated | | | | | | | |
| | Conclusions and recommendations | | | | | | | |
| | Detailed minutes to accompany report | | | | | | | |
| Legal Information | Review significant impacts, and compliance with | | | | | | | |
| | legislation (<u>6 Legal and Other Requirements</u>) | | | | | | | |
| Objective | To check how well the EMS is functioning | | | | | | | |
| Priorities | Streamline paperwork – to keep concise clear records, | | | | | | | |
| | and continually improve the EMS | | | | | | | |
| Language | Plain English | | | | | | | |
| Audit Length | Concise with observations and recommendations | | | | | | | |



| | | | | Aut | hority | Date | e | EMS Doc # 17b-01 |
|--|---------|------------|-------------|----------|----------------------|------|---------------------|---------------------|
| 17b-01 Summary I | nterna | l Audit In | spector | 's Rep | ort | 1 | | |
| Area/Location | ocation | | | | | | | |
| Conducted By: | ed By: | | | | | | | |
| Position: | | | | | Since Last Audit: | | | |
| Audit Structure and Scope: | | | | | Aim: | | | |
| EMS Document Refer | ence | Key Findir | ngs and F | Recomr | nendations | | Correctiv Report | e Action |
| <u>8b-01 Riparian Zone</u> Management | | New comp | letion date | e set du | e to illness. | | 15a-01 R Managem | iparian Zone |
| U | | | | | | | Managen | |
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| Mana | gement | Systems A | udit | | Key Fa | rm A | ctivities A | Audit |
| | | | | | | | | |
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| | | | | | | | | |
| nary | | | | | | | | |
| Summary: | | | | | | | | |
| Auditor's | | | Date: | | | Auc | | |
| Signature | | | | | | Dur | ation: | |

| Authority | Date | EMS Doc # |
|-----------|------|-----------|
| | | 17c- |

| 17c Internal Audit Checklist |)one | 1eeds | ٧/A | Evidence Sighted or Actions Required |
|--|--------|-------|-----|--------------------------------------|
| Part A | , ente | Work | | "Minutes" |
| Environmental Management System | | | | |
| 1. An environmental Policy is displayed | | | | |
| on the property. | | | | |
| 2. All staff, contractors and interested | | | | |
| parties have access to a copy of the | | | | |
| policy. | | | | |
| 3. A register of legal and other obligations is maintained and updated | | | | |
| at least annually. | | | | |
| 4. Relevant codes of practice and best | | | | |
| management practice have been | | | | |
| identified. | | | | |
| 5. Compliance with key environmental | | | | |
| legislation has been checked. | | | | |
| 6. The list of all current property general activities is up to date. | | | | |
| activities is up to date. | | | | |
| 7. The environmental risk assessment of | | | | |
| property activities and environmental | | | | |
| impacts is reviewed annually. | | | | |
| Action Plans – Objectives and Targets | | | | |
| Action plans have been developed with appropriate objectives and | | | | |
| targets listed. | | | | |
| 9. The action plans are consistent with | | | | |
| the Environmental Policy. | | | | |
| 10. Actions are reviewed at least | | | | |
| annually. | | | | |
| Communications | | | | |
| 11. Communications between neighbours | | | | |
| and interested parties are recorded. Any immediate actions needed were | | | | |
| attended to and recorded. | | | | |
| Emergency Planning | | | | |
| 12. Emergency response plans are | | | | |
| available, and have been given to all | | | | |
| relevant parties. | | | | |
| 13. Training has been given, and has | | | | |
| been recorded, for all those who may be required to respond in an | | | | |
| emergency. | | | | |
| Corrective Action | | | | |
| 14. An issue review record is used to deal | | | | |
| with issues or incidents of | | | | |
| significance. | L | | L | l |

| 17c Internal Audit Checklist |)one | leeds | ٩/٧ | Evidence Sighted or Actions Required |
|---|------|-------|-----|--------------------------------------|
| Part A | | Work | | "Minutes" |
| Monitoring 15. Monitoring programs are in place to assess environmental impacts of property activities. | | | | |
| Records 16. Records are legible, identified and accessible. | | | | |
| 17. Records are reviewed during the annual management review. | | | | |
| The EMS Manual documentation is checked to ensure that only the latest version of each document is being used. | | | | |
| 19. The EMS is reviewed at least annually and changes or updates made where needed. The review covers audit reports; issues review records, corrective action records, property activities environmental aspects/ impacts review, business goals, action plans, monitoring records, communications, staff training and capabilities. | | | | |
| Key Farm Activities | | | | |
| Livestock 20. Stock identification system in place (includes brands and if appropriate individual beast identification). 21. Mob numbers recorded. | | | | |
| 22. Animal health program in place. | | | | |
| 23. Stocking rates match available feed. | | | | |
| 24. Groundcover in pastures maintained according to best practice. | | | | |
| Soil 25. Significant erosion occurrences are identified, monitored and dealt with where necessary. Energy Efficiency 26. Regular equipment and maintenance | | | | |
| of property machinery is carried out and a clear record kept. | | | | |
| 27. Energy efficiency is considered when buying household and property items. | | | | |

| 17c Internal Audit Checklist |)one | 1eed: | ۱ /A | Evidence Sighted or Actions Required |
|--|------|-------|-------------|--------------------------------------|
| Part A | | Work | | "Minutes" |
| Fuel and oil consumption is monitored. Efficiency is compared to previous audits. | | | | |
| 29. Machinery practices aimed at increasing energy efficiency ie: appropriate tractor/ dozer/ vehicle size for operations, Tyres inflated appropriately, vehicles run at appropriate revolutions. | | | | |
| Emergency Planning | | | | |
| 30. A site plan is displayed in the office and the workshop, identifying hazardous storage areas, environmentally sensitive areas, safety equipment and contaminated | | | | |
| sites. | | | | |
| 31. Safety equipment is in an identified place, is regularly inspected for damage, wear and compliance dates. | | | | |
| Staff | | | | |
| A record of the job description, responsibility and training for all staff is maintained. | | | | |
| Waste Management | | | | |
| Household wastes are disposed of to landfill or recycled. | | | | |
| 34. A recycling program is in place for suitable waste materials. | | | | |
| 35. Metal and machinery wastes are recycled, sold or stored in an appropriate manner. | | | | |
| 36. Waste oil is collected and disposed or recycled. | | | | |
| Crops | | | | |
| 37. Water use (irrigation) efficiency is calculated for crops on the property. | | | | |
| 38. Crop pests are monitored and | | | | |
| managed using IPM principles. 39. Crop rotation combined with | | | | |
| opportunity cropping is an integral part of the crop, soil and disease | | | | |
| management strategy. 40. Planting decisions based on available nutrients and the depth of wet soil in the fallow. | | | | |
| 41. Fallow efficiency and crop water use monitored. | | | | |
| 42. Crop diseases managed through cultural methods (resistant varieties, rotations, equipment sanitation, | | | | |

| 17c Internal Audit Checklist |)one | leeds Work | N/A | Evidence Sighted or Actions Required "Minutes" |
|---|------|---------------|-----|---|
| Part A | | | | IVIIIIULES |
| certified seed etc.). 43. Property plan shows soil type, erosion risk, compaction problems, slope class, wetlands and drainage lines and nutrient status. | | | | |
| 44. Crop/paddock fields tested annually, Sampling takes place across all paddocks and the property. | | | | |
| 45. Leaf tissue analysis taken and nutrient budgeting used to match soil condition to crop needs.46. Field conditions are always assessed prior to operations. | | | | |
| Managing Chemicals (Ag and Vet) 47. Chemical containers are rinsed/ disposed of correctly. | | | | |
| 48. Unregistered chemicals have been disposed of in legal off property areas (eg ChemCollect) or isolated from other chemicals in separate locked storage. | | | | |
| 49. The chemical storage areas has adequate spill control measures. | | | | |
| 50. A stock take of the chemical store is completed annually, and a record kept of any chemicals disposed of and how, and the date of the stock take and name of the person. | | | | |
| 51. Chemicals used are approved and applied according to the label permit. | | | | |
| Chemical application equipment is calibrated at least yearly. Date and person responsible is recorded. | | | | |
| 53. The application of chemicals is recorded, detailing date, chemical used, application rate/ method, area treated, withholding period/ date safe to harvest/ stock, and operator. | | | | |
| 54. The person responsible for supervising the use of property chemicals has a current certificate from a NRA approved property chemical use course. | | | | |
| Fuel and Oil Storage | | | | |
| 55. Fuel and oil storage areas are identified and if applicable meet the storage and handling requirements of the Australian Standard 1940 – | | | | |
| | 62 | | I | |

| 17c Internal Audit Checklist |)one | leeds | ٩/٨ | Evidence Sighted or Actions Required |
|---|------|-------|-----|--------------------------------------|
| Part A | | Work | | "Minutes" |
| Storage and Handling of Fuel. 56. Fuel hoses have cut-off nozzles and taps. | | | | |
| Fertilisers 57. The application of fertilisers and soil additives is recorded, detailing name of product, date, area treated, rate and person applying. 58. Fertilisers and soil additives are stored, used and disposed of in a manner. Where there is a significant risk of heavy metal contamination, fertilisers and soil additives are | | | | |
| selected to minimise the risk. Grain Storage 59. Grain stores are monitored as per GrainCare guidelines. | | | | |
| 60. Treatments of storage facilities and treatment of product after harvest have been recorded, including: date; chemical (type and amount); amount grain treated; rate and method; withholding period; name of person who applied treatment. Withholding periods are clearly identified at the storage facility. | | | | |
| 61. Grease, oil, fuel, property machinery, and workshop equipment are separated from grain storage areas to prevent contamination of produce. | | | | |
| 62. You notify all neighbours of your intention to spray where applicable | | | | |
| Delivering Produce and Livestock 63. Delivery vehicles are checked for cleanliness, physical contamination and weed infestation before loading/disembarking. | | | | |
| 64. Copies of National Vendor Declarations are maintained. | | | | |
| 65. Records have been kept of harvest/b Sale date and growing/ grazing area, and destination of produce/livestock. | | | | |
| Natural resources 66. Watercourses, tree lines, and other wildlife features are protected from field operations by uncropped/ buffer strips. Buffer zones managed for multiple use eg occasional shelter, windbreaks, protection from pests. | | | | |
| | 63 | | | |

| 17c Internal Audit Checklist Part A |)one | √eeds Work | N/A | Evidence Sighted or Actions Required "Minutes" |
|---|------|---------------|-----|---|
| 67. Environmental weeds are monitored and controlled.68. Surface and ground water tested for excessive nutrients and chemicals. Salinity levels monitored. | | | | |
| 69. Contoured buffer or filter strips in place to slow run-off transport of soil, nutrient and chemical into watercourses. | | | | |
| 70. The property management plan identifies endangered or threatened species/ communities on or likely to be on your property and implements actions to protect them. | | | | |
| Auditor's Name: | | | | |
| Auditor's Signature: | | | | - |
| Date: | | | | - |

| | | | Autho | ority | Date | | EMS Doc # 17d- |
|---|---|---------|---------------|--------|------|--------|--------------------------|
| | it of Key Farn | n Activ | vities Pa | ırt B | | • • | |
| Activity: | | | | | | | |
| Location: | | | | | | | |
| | | Done | Needs work | Commei | nts | | |
| | pare with the and were there | | | | | | |
| | ell do you and the re? ppens if is are ? u made the ate record for <i>r</i> ity (if le)? | | | | | | |
| | ords up to date? read? | | | | | | |
| any changes implemented | ocedure need to be to d? cording format changes to e required | | | | | | |
| any further t activity? | perator require training in this | | | | | | |
| from previou this activity I out? | nmendations us audits for been carried mmendations? | 1 | | | | | |
| Auditor's Name: | | Signed | l: | | | Date: | |

18. Management Review

Management Review

The organisations top management shall, at intervals that it determines, review the environmental management system, to ensure its continuing suitability, adequacy and effectiveness. The management review process shall ensure that the necessary information is collected to allow management to carry out this evaluation. This review shall be documented.

The management review shall address the possible need for changes to policy, objectives and other elements of the environmental management system audit results, changing circumstances and the commitment to continual improvement.

(4.6) AS/NZ ISO 14001:1996

Purpose

To review the management system to ensure that the system is:

- > Suitable
- > Adequate
- > Effective

Responsibility

It is the responsibility of the EMS manager to ensure that management reviews are carried out, that any areas of concern are being addressed and outputs of previous audits/reviews have been dealt with.

Record Control

Only the latest authorised copy shall be retained in this EMS manual. <u>16b EMS Records Register</u> shall record the archived copies.

Procedure

Management reviews are completed each year.

The following are considered as part of the review:

- Normal property activities
- > Incidents, accidents and potential emergency situations; and
- > Past activities, current activities and planed activities.

| | | Authority | / | Date | EMS Doc # 18a- | |
|--|--|--|---|----------------|---------------------------------|--|
| 18a Managem | nent Review | | | | | |
| Area/Location Conducted By: Position: | | Report Date: Period Since Last Audit: | | | | |
| Audit Structure and Scope: | | Aim: | | | | |
| | | Person Responsible | | Target Date | Completed Date and Signature | |
| Environmental F Is it still relevant? | ? | | | | | |
| Review of Legal compliance with Have Websites b Is the copy of the Legal Guide curre | | | | | | |
| they been implem | nendations and have nented? | | | | | |
| Training Review Are there areas v be improved? | <i>r:</i> where training needs to | | | | | |
| Have any concer parties been reco | nication Register rns raised by interested orded and dealt with? | | | | | |
| Incident Review Anything urgent t | | | | | | |
| corrective & prev | | | | | | |
| Aspects & Impa Is the ranking and significant impact | d identification of | | | | | |
| Have the monitor been updated? | gram & Action Plans: ring and action plans nd Targets being met? | | | | | |
| | | | | | | |

| | Action Plan Targets – Alterations to dates and Progress to date: | | | | |
|--------------------|--|--|--|--|--|
| EMS Reference # | Progress and comments | | | | |
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| | New Action plans proposed (if relevant) | | | | |
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| Miscellaneou | s Actions or Events | | | | |
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