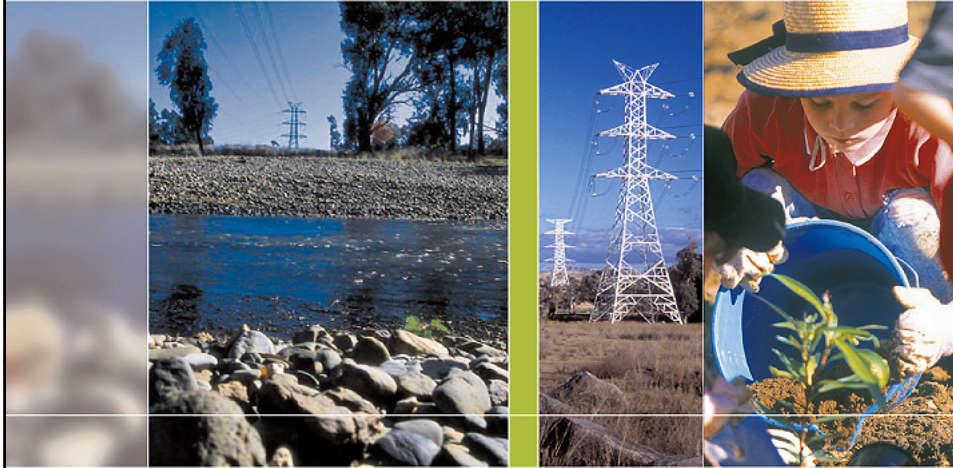


Workable EMPs and links to EWPs



EIANZ Workshop
November 2007



Overview

- Powerlink's Reality
 - What is required from a regulators perspective?
 - What are the most effective tools to ensure delivery of the EMP requirements?
 - What do "we" currently do well & what could "we" do better?
 - What is the most effective and seamless way of developing a planning EMP to a construction level EMP?
 - What about maintenance???






Government expectations

- Low tolerance for substandard or perceived substandard business practices or performance
- Increased shareholder expectations for transparency in all areas of the business
- Increased monitoring of performance and GOC reporting
- Information to be provided in an accurate and timely manner



An Inconvenient Truth on DVD
November 21

Actual Vs Desired Realities


Desired Reality

EMPs that identify all relevant environmental issues and appropriate control measures that are understood by all staff and contractors

Review of Handover Issues with EMPs

Actual Reality

- EMP's are developed to gain development approval.
- EWP's are developed to assist in compliance during construction.
- Maintenance try to understand issues that carry over for the life of the asset.





Environmental Management Plans – Report Card

- Planning & Design (8/10)
- Construction (6/10)
- Maintenance (4/10)
- Refurbishment (2/10)
- Decommissioning (6/10)




Environmental Plans

Environmental Strategy Plans (ESPs) – Corporate (EMS)
Plans developed where areas of risk exist for the business. Designed to provide proactive continual improvement opportunities for the business.

Environmental Management Plans (EMPs) – Development Approval
Plans developed by consultants and/or internal environmental staff. Plans are designed to meet development approval (ministerial designation).

Environmental Work Plans (EWPs)
Plans are developed by internal staff. Plans are designed for people implementing construction or maintenance activities. Normally linked to electronic data sets and have spatial relevance (i.e. spreadsheets & maps).





Environmental Strategy Plans



The screenshot shows a web browser displaying the 'Powerlink Environment' website. The page title is 'Significant Environmental Aspects'. The main content area includes a section titled 'What are our high risks and who is involved?' with a sub-heading 'Powerlink Queensland reviews its environmental aspects on an annual basis...'. The text describes the process of identifying significant environmental aspects through a 'collective wisdom process' involving the Environmental Steering Committee. It mentions that in 2002, the committee decided to undertake a review of significant environmental aspects, based on an interview process with 28 key staff. The review identified significant aspects based on perceived risk to the organization, and a workshop was held to agree on these aspects, the level of risk, and the need to develop Environmental Strategy Plans. The list of aspects and aspect owners is outlined below. A review of objectives and targets was recently undertaken, resulting in a reduction in the number of significant aspects and targets due to progress made since 2002. The future review and weighting of environmental aspects will be dependent on progress made on annual targets, audit results, risk assessments, incident reporting, prosecutions, and internal/external survey results.






Environmental Management Plans

- Risk Management (reduce impacts & meet obligations)
- Decision Making Tool (checklist or database)
- Educational Tool (implementing control measures)
- Development Approval Process (meeting obligations)





Environmental Management Plans

Powerlink Environment - Powerlink Queensland

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites

Address: http://powerlinkenvironment[web page]test_webpage_11/index.htm

Environmental care is in your hands

Powerlink Environment

Managing Environmental Risk

Managing Environmental Risk

If you are aware of an environmental hazard in the workplace, please report it through to our **Environmental Compliance Group** or complete a **Corrective & Preventative Action Reporting Form**.

The principles of managing environmental risks are similar to managing other risks on projects. These include:

- Identifying and evaluating potential incidents and existing conditions
- Prevention of the occurrence of incidents
- Improvement of adverse conditions
- Mitigation of the consequences of incidents should they occur
- Monitoring management of risks

The main objectives of an environmental risk assessment are to:

- Understand where the environmental risks arise from an operation
- Assess the significance of the risks
- Enable the operator to manage the risks

Performance against a set criteria is also important to monitor and measure. Outlined below is the criteria Powerlink has used to determine the level of performance and risk for areas of its business.

Guidelines have been developed to assist with better understanding

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Environmental Performance and Risk Rating Criteria

Performance

Risk

Likelihood Rating Table

Consequence rating Table

Powerlink

Environment - The Next 3 Years

Emergency Response Plan

1800 353 031


Guidelines

Done

start Microsoft Office... EMPS EMAC - Workable EM... 4 Internet Explorer... Local intranet

7:00 PM

Powerlink



Environmental Management Plans

Powerlink Environment - Powerlink Queensland

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites

Address: http://powerlinkenvironment[web page]test_webpage_11/index.htm

Environmental care is in your hands

Powerlink Environment

Environmental Management Plans

The preparation of Environmental Management Plans (EMPs) for projects forms an integral part of the commitment by Powerlink to minimise the environmental impact of its activities. Powerlink Queensland often prepares its own EMP's for maintenance and refurbishment projects that do not require an Environmental Impact Assessment (EIA). Such works may include the repair of structures and foundations, insulator replacement, construction of single towers or communications tower and easement maintenance activities.

The two major areas that Powerlink undertakes that may need an EMP are:

- substation refurbishment and maintenance, and
- transmission line projects such as pre-construction works, small operational projects and regular maintenance activities.

Undertaking an EMP is a 4 part process.

Step 1	Step 2	Step 3	Step 4
Environmental Issues Assessment	Environmental Management Plan	Implementation	Review

Step 1 - Project Manager undertakes an [Environmental Issues Assessment](#). This document will form the basis for what will be contained in the Generic EMP.

Step 2 - A Powerlink Queensland [Substation Generic Environmental Management Plan \(EMP\)](#) or [Line Work's Generic Environmental Management Plan \(EMP\)](#) is prepared using the Environmental Issues Assessment to help identify issues and impacts specific to the project. These generic EMP's are based on

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Powerlink

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1800 353 031


Guidelines

Done


start Microsoft Office... EMPS suggested work... 4 Internet Explorer... Local intranet

7:00 PM

Powerlink



Environmental Management Plans



Powerlink Environment
Environmental care is in your hands

Sensitive Areas

Powerlink's assets can impact on various parcels of land which can be recognised as 'sensitive' by the community. These land parcels can include Wet Tropics areas, fish and marine habitat areas, environmental parks, National Parks, etc... where legislation or stakeholders impose permit or other strict controls on vegetation clearing, control access track maintenance and other easement works. Any work in 'sensitive' areas may be subject to additional control measures to limit the risk of non-compliance with community and stakeholder expectations.

Contact a member of the [environmental compliance team](#) for assistance if you are unsure what control measures need to be in place.

[Powerlink GIS](#)

[Management and Conservation of Habitat Trees in Suburban Brisbane](#)



[Procedure for Managing Environmental Risks](#)

[Fire Act Approved Risk Management Plan](#)


[Procedure for Managing Declared Pests](#)

[Guidelines for Access Track Construction](#)

Please contact [Matthew Smart](#) if you have any technical problems with accessing the GIS.


Environmental Management Plans



Powerlink Environment
Environmental care is in your hands


Environmental Policies, Permits and Guidelines

<p>Powerlink Policy and Procedures</p> <ul style="list-style-type: none"> Managing Declared Pests Fire Act Management Plan Contaminated Land Procedure Managing Environmental Risks Environmental Compliance Policy - Whole of Life for Powerlink Assets <p>Codes of Practice</p> <ul style="list-style-type: none"> Fish Habitat Code of Practice Protected Area Code of Practice Wet Tropics Guidelines Water Act Guidelines 	<p>Information Sheets</p> <ul style="list-style-type: none"> Brid Next Removal Contaminated Land Cultural Heritage Declared Plants Erosion & Sediment Control Fire Acts Marine Plants Non-fatal water crossings Oil & Regulated Waste Potential Acid Sulphate Soils Protected Areas & Species
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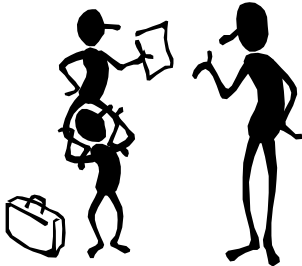






The Science Behind EMPs









The Regulations Behind EMPs








The Value of EMPs

Understanding EMPs & Understanding our Business





Environmental Work Plans

Powerlink Environment - Powerlink Queensland

Environmental care is in your hands

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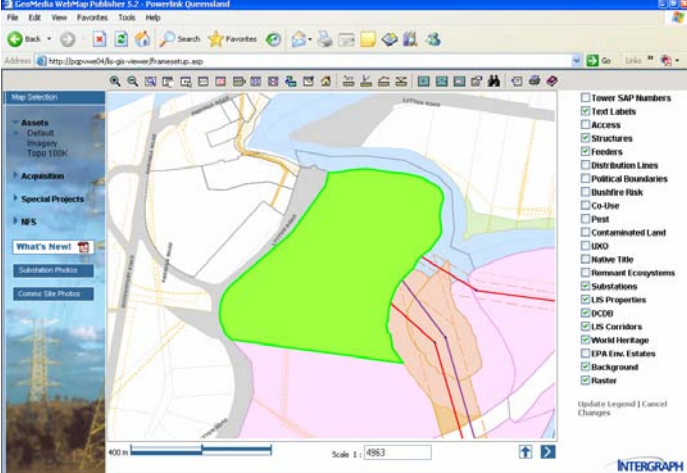
Powerlink logo



Environmental Work Plans

Esri ArcGIS WebMap Publishing 8.2 - Powerlink Queensland

Address: http://pqrweb04/fgi-viewer/frameSetup.asp



Map Selection:

- Assets
- Acquisition
- Special Projects
- GIS
- What's New!
- Substation Photos
- Connect Site Photos

Legend:

- Tower SAP Numbers
- Text Labels
- Access
- Structures
- Feeders
- Disturbance Lines
- Political Boundaries
- Bushfire Risk
- Co-Use
- Pest
- Contaminated Land
- LDO
- Native Title
- Remnant Ecosystems
- Substations
- LIS Properties
- DCDB
- LIS Corridors
- World Heritage
- EPA Env. Estates
- Background
- Raster

Scale 1:1963

INTERGRAPH

Powerlink logo



Environmental Work Plans



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Questions???

