

## BEST PRACTICE ENVIRONMENTAL MANAGEMENT IN MINING **ENVIRONMENTAL RISK MANAGEMENT**

# **Worksheet 1**

#### Summary Guide for Development and Implementation of an EMS

Element	Checklist	Completed?	Responsibility	Comments
Policy	Management commitment			
,	Prepare draft policy			
	Circulate for comment at all			
	levels			
	Issue with management			
	endorsement			
	Distribute to all site employees			
Initial	Select audit group			
environmental	Carry out audit			
review	Use risk assessment to identify			
	significant impacts			
	Draft report			
	Review draft report			
	Prepare final report			
	Management endorsement			
Regulations list	Identify legal requirements			
	Prepare list of requirements			
	Distribute list to relevant staff			
Set objectives	Determine long-term objectives			
and targets	for the company			
	Set environmental objectives			
	Assign targets for meeting each			
	objective, including			
	<ul> <li>controlling significant</li> </ul>			
	impacts			
	<ul><li>ensuring regulatory</li></ul>			
	compliance			
	<ul><li>reduce emissions</li></ul>			
	<ul> <li>reduce wastes</li> </ul>			
	reduce resource use			
Environmental	Develop strategies for achieving			
management	the objectives and targets			
plan	Assign responsibilities			
	Draw up summary tables			
Documentation	Identify information required			
	If possible align with existing			
	document systems			
	Establish document control			
Otom control	procedures			
Structure and	Identify positions with potential			
responsibilities	to affect the environment			
	Define responsibilities for each			
	position			
	Issue work descriptions			



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Element	Checklist	Completed?	Responsibility	Comments
Procedures:	Identify activities with potential			
operational	for environment impact			
	Establish current procedures			
	Review procedures and amend			
	or supplement			
	Familiarise personnel			
Procedures:	Identify future sources of			
planning	pollution (both typical and			
	abnormal)			
	Assess effects on the			
	environment and the community			
	Formulate control strategies for			
	each			
Procedures:	Identify areas and operations			
emergency	where accidents may occur			
	Formulate emergency			
	procedures			
	Assign emergency			
	responsibilities			
	Train all site personnel			
	Practice emergency response			
Procedures:	Develop non-conformance			
nonconformanc	procedures			
е	Assign responsibility			
	Management gives a clear			
	message that non-conformance			
	is unacceptable			
Monitoring:	Formulate list of"			
emissions	<ul><li>sources of waste</li></ul>			
	<ul> <li>parameters to be measures</li> </ul>			
	<ul><li>sampling frequency</li></ul>			
	<ul> <li>monitoring techniques</li> </ul>			
	<ul><li>responsibility</li></ul>			
	Determine reporting structure			
Monitoring:	Lists parameters to review			
performance	Set review period			
	Assign responsibility			
<del>-</del> · ·	Determine reporting structure			
Training:	Choose a trainer			
environmental	Set course content and structure			
awareness	Train site staff			
	Establish induction courses			
Tuelielie	Establish refresher courses			
Training:	Identify specific training needs			
environmental	List training requirements for			
specific	each site position Choose trainer			
	Train relevant staff			
	Establish induction courses			
	Establish refresher courses		1	1





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Element	Checklist	Completed?	Responsibility	Comments
Communication: internal	Establish lines of communication for:  demonstrating management commitment raising awareness of environmental obligations receiving and responding to employee concerns	Completed:	Теоропоівліку	
Communication: external	Identify interested parties Establish procedures for reporting to regulators Appoint a community contact person Establish a procedure for dealing with complaints Develop a community information system			
Environmental Manual	Compile EMS components Develop system for making sure all copies are kept up to date			
Integration	Management state requiring compliance with EMS Environmental awareness training Resolve conflicts between production and EMS Use or modify existing procedures Familiarise personnel with procedures Review EMS Environment and community liaison			
Maintaining EMS: internal review	Schedule reviews (at least annual) Discuss problems with staff Change processes Identify reporting problems			
Maintaining EMS: external review	External reviews Audit EMS Review and amend EMS Familiarise personnel with changes.			