Form

Mine Closure Plan for Small Mining Operations

Pursuant to section 103AT(2) of the *Mining Act 1978* (Mining Act) this is the approved form for the submission of a Mine Closure Plan (MCP) for small mining operations. The form has been designed to meet the requirements of section 103AR of the Mining Act, and therefore all sections must be completed in order for this form to constitute a valid MCP.

This pro forma cannot be used as a mechanism to submit an MCP for projects that are not considered small mining operations.

The Department of Mines, Petroleum and Exploration (DMPE) considers a small mining operation to be defined as:

- · scraping and detecting;
- · dry blowing;
- · wet and dry gravity separation activities; and
- the following activities for a total footprint for the mining operation of 10 hectares (ha) or less:
 - Mining excavations (such as pits, costeans, quarries, shafts, winzes, harvesting, and dredging), leaching operations (such as Carbon-in-Pulp (CIP), Carbon-in-Leach (CIL), vat leach, and heap leach), tailings treatment operations, crushing and screening, and any other appropriate mining or extraction activities.
 - Any construction activities incidental or conducive to the activities above including plant, tailings storage facilities, and overburden stockpiles.

DMPE generally considers that a small mining operation does not involve the mining of uranium, mineral sands or rare earth elements.

Where an operation does not meet the above criteria, approval to use the pro forma may be given by DMPE on a case-by-case basis. This approval must be received in writing prior to submitting the application and should be attached as evidence.

•	Cover page		
	Cover page		
	g Environmental Group (l	MFG) name and code*:	
	ator(s)*:	neo, name and sout :	
	act name*:		
hone		Email*:	
ate*	:		
ener	ment(s):		Tenement holder(s):
-			
equi	red		
	Ducie et eumenem	Regulation 58N(a) and	I FON/h)
.1			nine activities, infrastructure present and
	Enter a written descriptio (open pit, shaft, scrape ar the site/length of time the	nd detect, etc.), method of p e mine has been operating, a tinuous or intermittent/seas	ould include details of the operation/method of mining processing (vat leach, metal detector, etc.), the history of a list of all mine activities and infrastructure, nature of sonal mining) and operational parameters (dimensions

2.	Project summary – Regulation 58N(a) and	58N(b)		
2.2	 A site plan(s) is attached that includes: the location of the operation; all proposed and existing site activities; tenement boundaries and labels; areas under rehabilitation; a key or labelling of all infrastructure and activitie a north indication and a scale. 			Yes	
2.3	Life of mine estimate:	2.4	Total land disturbance area to date (hectare):		
2.5	Total approved area (hectare):	2.6	Total rehabilitated area to	date (hectare):	
2.7	Current mine status:				
Prop	osed Operating Care and maintenance	С	losed/monitoring		
3.	Revised mine closure plans (section not ap	plica	ble for first MCP submi	ssion)	
3.1	Summarise the improvement actions identified from	m last	approval letter in the table b	elow:	
#	Comments from approval letter		Proponent response		
1.	Example: Provide an update on the consultation undertaken to discuss infrastructure pastoralist wou like retained post closure.		Example: Stakeholder engag to include recent discussion		

2	Poviced mine electron plane (coetien not applicable for first MCD av	hmiccion)	
3.	Revised mine closure plans (section not applicable for first MCP su		
3.2	Describe the changes that have occurred to the mine closure plan since the last Detail any changes made to the MCP in the box below.	submission:	
	Detail any changes made to the MCP in the box below.		
4	Legislative framework - Regulation 58N(c)		
4.	Legislative framework – Regulation 58N(c)		
Does	Legislative framework – Regulation 58N(c) the project have or require any other approvals that will affect the post mining use and closure outcomes?	Vac	No
Does land u	the project have or require any other approvals that will affect the post mining	Yes	No
Does land u	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the	Yes	No
Does land u	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No
Does land u Comn Depar	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No
Does land u Comn Depar	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No
Does land u Comn Depar	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No
Does land u Comn Depar	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No
Does land u Comn Depar	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No
Does land u	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No
Does land u	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No
Does land u	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No
Does land u	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No
Does land u	the project have or require any other approvals that will affect the post mining use and closure outcomes? non examples include water licences and works approvals from the truent of Water and Environmental Regulation.	Yes	No

5.	Environmental data and risk assessment - Regulation 58N(f) and 5	8N(g)(i), (ii)	and (iii)
5.1	Describe the existing environment of the site/surrounding environment: Enter a brief description of the environment, topography, presence of major features in the box below. Where applicable include: detail of any known contamination and remediation required; and outcomes of monitoring progressive rehabilitation.	(roads, homes	teads, etc.)
	The MCP application must consider the risks associated with a mining activity.		
	DMPE has identified the common risks and environmental impacts associated with a developed a list of standard management strategies to manage these risks and impacts.		operation and
5.2	Confirm you have reviewed the environmental risks/impacts and associated management strategies provided in Table 1 and confirm that this assessment captures all relevant risks for your operation and you agree with the management strategies. If no, please attach a description of all environmental risks/impacts and proposed	Yes	No
	management strategies to this application.		
5.3	Are there any additional environmental risks or impacts associated with your op details on the proposed management strategy to mitigate risk.	eration? If yes,	provide
	If no, proceed to 6.		

6.	Post-mining land use and stakeholder engagement
0.	- Regulation 58N(d), 58N(e) and 58N(m)
6.1	Describe the underlying tenure (unallocated Crown land, pastoral lease, etc.) and any pre-mining land use(s):
	Enter details in the box below. This may include details on any contamination, its remediation and any impacts to the post-mining land use.
6.2	If an Approvals Statement exists for this site – please state the post-mining land use (PMLU) as per the Approvals Statement.
6.2	
6.2	Approvals Statement.

6.3	Is the underlying/pre-existing land use expected to change after the completion of mining?					Yes	No
6.4	If yes at 6.3, describe the proposed change to post-mining land use in the box below.						
	If the underlying/pre-existing land use is expected to change after completion of mining, then engagement is expected to be conducted with the relevant stakeholders, especially the proposed post-mining landowners.						
6.5		d by, or have an	interes	ure related matters (cor t in, rehabilitation and c			
	rehabilitation, the results. Common	e proposed post- n examples of ke d Attractions – v	mining l y stakel vhere loo	ar. Discussion topics sho land use(s), completion c nolders include regulator cated within DBCA mana	riteria and rehabilit y agencies (e.g. De	tation monitoring partment of Bio	g diversity,
Date	of engagement	Stakehold	ler	Description of items discussed	Stakeholder comments or is raised	Applica	ant response r resolution
6.6				eholder engagement (co and what will be discuss		below).	
	Stakehold	ler	Timeframe for engagement Description		ion of items to be discussed		

7. Closure outcomes, completion criteria and monitoring – Regulation 58N(g)(iv) and 58N(h)

7.1 Describe the closure outcomes, completion criteria and monitoring for the mining operation (complete the table below). Please ensure all closure outcomes for the mining operation as listed on the Approvals Statement or the last approved/accepted MCP are included.

DMPE standard closure outcomes entered for reference.

No.	Closure outcome	Criteria and monitoring to demonstrate outcome is being met (i.e. how will it be determined that the outcome has been achieved?)	Frequency and timing of monitoring
C15	All mining related landforms and disturbances must be rehabilitated, in a progressive manner where practicable, to ensure they are safe, stable, non-polluting, integrated with the surrounding landscape and support self-sustaining, functional ecosystems or alternative agreed outcome to the satisfaction of the department.		
C16	All excavations will be backfilled and/or closed to ensure they are stable and safe, to the satisfaction of the department.		
C17	Placement of waste material must be such that the final footprint after rehabilitation will not be impacted upon by pit wall subsidence or be within the zone of pit instability to the satisfaction of the department.		
C18	All waste materials, rubbish, plastic sample bags, abandoned equipment, and temporary buildings to be removed from the site prior to or at the termination of the operation.		
C19	Any watercourses that are disturbed by mining operations will be restored, as far as practicable, to the pre-disturbance conditions.		
C20	Any shafts that have been operated within the activity envelope will be covered, fenced, or otherwise made safe to the satisfaction of the department.		
C21	All chemicals and hydrocarbons will be removed from site prior to or at the termination of the operation.		
C22	Upon discontinuation of use of heap leach or vat leach facilities, the lessee to appropriately flush each facility to ensure the absence of free cyanide within the facility.		

8. Closure implementation – Regulation 58N(i)(i), 58N(i)(ii) and 58N(i)(iii)

8.1 Describe the rehabilitation and monitoring program that will be implemented for all landform(s) and each mine activity to achieve the closure outcomes. Complete the table below.

No.	Mine activity	Rehabilitation work programme	Timing
8.2		ecords of approval documents, monitoring data or other at the above commitments have been met.	Yes
8.3	Confirm that you will provide of the rehabilitation monitor	Yes	
8.4		end of operations, provide evidence to DMPE to demonstrate and rehabilitation implementation have been achieved/	Yes
	Note: The format for the subguidelines available on the c	omission is contained in the Mine Closure Completion lepartment's website.	

9.		cted closure/temporary suspension and closure costs ation 58(i)(iv) and 58N(i)(v)
9.1	Describe enters a p	the rehabilitation and closure actions that will occur if the mining operation prematurely ceases or period of temporary suspension (e.g. excavations backfilled/made safe, rehabilitate areas where as been completed, hydrocarbons and chemicals removed from site).
9.2	Provide a the estim	n estimate of the closure costs for the operation and detail the method used to calculate ate.
		ils in the box below. Do not use the Rehabilitation Liability Estimate (RLE) tool used in the abilitation Fund (MRF) as this will not reflect actual closure costs.
Λtta	chmente	(including reports/photographs, etc.)
No	Yes	If yes, please remember to include the attachments when you submit this form.
Res	et Form	Print Form

Table 1: Risk Assessment for small mining operations

	Potential impacts from proposed activities	Management strategy
Land and soil		 All excavations will be backfilled and/or closed to ensure they are stable and safe. Topsoil and vegetation to be removed ahead of mining operations and appropriately stockpiled for later respreading or immediately respread as rehabilitation progresses. All rubbish and waste will be appropriately managed and disposed. All hydrocarbon spills or chemical spills will be contained and cleaned up within a timely manner. Practicable measures (e.g. water carts) will be implemented to prevent or minimise the generation of dust. All chemicals and hydrocarbons will be stored in appropriately bunded containers and removed from site prior to or at the termination of the operation. Scrape and detecting and dry blowing operations are to be progressively rehabilitated so that no more than two hectares will be open (meaning disturbed without rehabilitation works being completed) at any one time. Stormwater runoff directed away from areas adjacent to tailings storage, vat leach or heap leach facilities to minimise the potential for pollution or contamination of stormwater, or erosion of the facility. Vat leach or heap leach facilities being constructed with an appropriate liner to prevent the pollution or contamination of the natural ground. Tailings storage, vat leach or heap leach facilities constructed in a manner to prevent discharges from the facility to the environment.
Water resources	caused by mining infrastructure/landforms. Contamination of groundwater.	 Water storage dams/containers will be appropriately lined/bunded. Soil and material stockpiles will be sited appropriately to minimise run-off and sedimentation. Disturbance within and next to waterways will be avoided where practicable.
		 Vat leach or heap leach facilities constructed with an appropriate liner to prevent the pollution or contamination of surface or underground waters. Where an operation includes river sand mining no materials extracted from below the bed load zone of the river.

	Potential impacts from proposed activities	Management strategy
Biodiversity	Impacts to fauna. Loss of conservation	Approval boundaries will be marked using an appropriate method (flagging, geo-fence etc.).
	significant fauna habitat. Loss of conservation significant flora.	Clearing of large, mature trees will be avoided, where practicable.
		The development and operation of the project being
	Vegetation clearing outside approved areas.	carried out in such a manner so as to create the minimum practicable disturbance to the existing native vegetation and natural landform.
		Reasonable and practicable measures will be taken to prevent the spread of dieback and weeds.
		All excavations have appropriate fauna egress.
Rehabilitation and mine closure	Rehabilitation of landscape to agreed outcomes not achieved. Rehabilitated area unsafe to humans and animals. Landforms are physically unstable or result in contamination to surrounding environment.	All excavations will be backfilled and/or closed to ensure they are stable and safe.
		Landforms are progressively rehabilitated to ensure they are safe, stable, non-polluting and integrated with the surrounding landscape.
		Topsoil and vegetation respread over disturbed areas.
		Final landforms are located such that they will not be impacted by pit wall subsidence or be within the zone of pit instability.
	Post mining land use not achieved.	All waste materials, rubbish, plastic sample bags, equipment and temporary buildings removed prior to or at termination of operations.
		Any shafts will be covered or otherwise made safe.
		All chemicals and hydrocarbons removed from site prior to or at termination of operations.
		Heap leach or vat leach facilities appropriately flushed to ensure the absence of free cyanide within the facility.