

Mining Management Plan Exploration Activities

Northern Territory of Australia – *Mining Management Act*

It is recommended that the Mining Management Plan is completed in conjunction with the user guide, available on the [Northern Territory Government website](#).

Section 1 – Project Details

Project Name Provide new or existing project name	Reynolds Range
Authorisation Number Insert existing authorisation number, where applicable	AN1054-01
Operator Name Use ASIC-ABR registered name (if a company), or name of the applicant	Prodigy Gold NL
Location and Access Details Include brief description of the location, access details, and distance to nearest town or community	The Reynolds Range project is centred approximately 210km northwest of Alice Springs and 65km west of Ti Tree. The project area stretches approximately 75km from Baileys Creek prospect in the northwest to 46km west of the Stuart Highway in the southeast (see Figure 1). The project is accessed via the sealed Stuart Highway with access to the main part of the project via the Mount Denison Road then via station tracks on Coniston Station.
Target Commodity Details Include target commodities (i.e. gold, copper etc)	Gold, copper
Mining Activities Summarise the mining activities (exploration) to be the subject of the proposed Authorisation or Variation	A total of 50 Aircore drillholes and 20 RCD drill holes are proposed over a portion of EL23888
Proposed Schedule Include start and finish dates of ground disturbing work	Drilling between September and December 2020 and/or April to December 2021

Organisational Structure

Position Title	Name
Managing Director	Matt Briggs
Exploration Manager	Sam Ekins
Project Geologist	Ed Keys
Project Manager (incl Environmental)	Gary Ferris
Land Manager	Gillian McBain

Delete or add rows for various position titles as required

Section 2 – Operator Self-Assessment of the Environmental Risk

The purpose of this self-assessment is to ensure Operators complete a project risk assessment of potential environmental impacts and are aware of other legislative obligations from various Agencies. As a result of this self-assessment, further information may be required in the form of a management plan to enable full assessment of the MMP. If you have any queries please contact a Mining Officer prior to submitting the MMP. Useful resources to assist with this self-assessment are provided in the User Guide.

Environmental considerations

ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION (Evidence of consultation with DENR and/or management plan)
Step 1: Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?	No	It is likely a threatened species will show up in most reports. Therefore, the Operator must undertake a likelihood analysis, which looks at the likelihood of the species or its habitat occurring at or near the site. If the analysis results in a high likelihood, then a "Significant Impact Assessment" should be undertaken, which may require consultation with the DENR – Flora and Fauna Division. The DENR may recommend a Biodiversity Management Plan – this must be developed and attached to the MMP.	No threatened flora or fauna species are indicated in the proposed exploration area on the plan produced from the DENR website. Very limited clearing is proposed. The pastoral station has previously reported to run over 6,000 head of cattle and last public reports are 5,200 head of cattle. The areas proposed for work are immediately adjacent to cattle traps/stockyards and likely well denuded of flora outside of established trees and bushes outside of annual grasses. Soil is heavily trodden reducing the potential for viable fauna habitat.
Step 2: Are there any known declared weeds within the proposed work area?	Yes	Under the <i>Weeds Management Act</i> declared weeds are required to be eliminated or controlled by the owner and occupier of land. Seek advice from DENR – Weeds Management to ensure management measures are appropriate for the level of activity proposed and attach a Weed Management Plan (if required).	Buffel grass is reported in the area. The company has a Weed Management Plan

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ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION (Evidence of consultation with DENR and/or management plan)
<p>Step 3: Will you be using water from bores or other sources for the operation?</p>	<p>Yes</p>	<p><i>Note the Government is proposing to amend the exemption of water licencing under the Water Act for mining activities, including exploration.</i> <i>This section will be updated in light of any changes in the future.</i></p>	<p>Potential water needs to be discussed with Coniston station. Two existing bores occur in the area; Algamba and Lander Water draw would be less than 5L/s. Exemption from Water Licensing approved by DENR – Water Resources</p>

Environmental assessment and cultural considerations

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
<p>Step 4: Is your project likely to have a significant impact on the environment?</p>	No	Refer to the NTEPA Environmental Factors and Objectives Guideline.
<p>Step 5: Are there Aboriginal sacred sites in the Project area?</p>	No	<p>Sacred Sites are protected under the NT <i>Aboriginal Sacred Sites Act</i> and administered by the Aboriginal Areas Protection Authority (AAPA). It is recommended that advice be sought from AAPA in relation to sacred site protection.</p> <p>No sites identified from AAPA register search or previous Central Land Clearance data within area subject to proposed drilling.</p>
<p>Step 6: Are there archaeological and heritage sites in the Project area?</p>	No	<p>Heritage and archaeology sites are protected in the NT. NT Heritage Branch of the Department of Natural Resources and Environment (DENR) administers the <i>Heritage Act</i>. Seek advice in relation to protection of heritage and archaeological sites.</p> <p>Email from NT Heritage Branch confirming no heritage or archaeology sites within the area subject to proposed drilling.</p>

Section 3 – Amendments

As per Section 41(3) of the *Mining Management Act*, an MMP reviewed and amended under Section 41(1)(a) is to clearly identify amendments made.

Section	Amendment
	N/A

Delete or add rows as required

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Section 4 – Activities Proposed

Mining Interests (i.e. titles)	EL23888	EL23888		
Number and type of proposed drill holes	50 AC	20 RCD		
Maximum depth of proposed holes (m)	60m	300m		
Number and size of drill pads to be cleared * AC (raised blade Length: 3 m x Width: 5m) RCD (Length: 20 m x Width: 30 m)	50	20		
Total area of drill pads to be cleared (ha)	0.08 ha	1.20 ha		
Is drilling likely to encounter groundwater? (Y, N, unsure)	unsure	unsure		
Length of line/track clearing (km: 6 x Width: 3 m)	1.8 ha	Existing track		
Camp area to be cleared (ha)	0.25 ha	N/A		
Camp Infrastructure (i.e. demountable, tents)	Tents and caravan	Tents and caravan		
Previous disturbance yet to be remediated on title (ha) if known	Nil			
Total area disturbed proposed (ha)	2.13 ha	1.20 ha		

Section 5 – Previous Disturbance (for existing Authorisations only) N/A

Mining Interests (i.e. titles)									
Number/type of holes drilled									
Maximum depth of holes drilled (m)									
Number of holes remediated (i.e. plugged/capped)									
Number and size of drill pads cleared (Length:20m x Width:20m)									
Total area of drill pads cleared (ha)									
Total area of drill pads remediated (ha)									
Was groundwater encountered? (Y or N)									
Length of line/track cleared (Length:km x Width: 3 or 4m)									
Length of line/track remediated (Length: km x Width: m)									
Camp areas cleared (ha)									
Camp area/s remediated (ha)									
Total area disturbed (ha)									
Total area remediated (ha)									

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Section 6 – Environmental Management

By checking these boxes, you are agreeing to implement the following minimum environmental management standards on the project area. Where boxes have been left unchecked, justification is required.

6.1	<input checked="" type="checkbox"/>	Blade-up approach for clearing will be used (i.e. no windrows, leave root stock and topsoil)
6.2	<input checked="" type="checkbox"/>	Significant vegetation will be avoided during clearing (i.e. large trees, specimens providing habitat or food sources, riparian vegetation, and threatened species)
6.3	<input checked="" type="checkbox"/>	Vegetation clearing during, and immediately after rainfall events, will be avoided
6.4	<input checked="" type="checkbox"/>	Vegetation clearing will be kept to the minimum required to safely traverse vehicles and drill rigs along tracks and drill pads
6.5	<input checked="" type="checkbox"/>	Where blade-up techniques cannot be employed, topsoil and vegetation will be stockpiled appropriately for remediation purposes
6.6	<input checked="" type="checkbox"/>	All employees and contractors will be trained and inducted in relation to the management of environmental risks in the work area, including weeds, waterways, threatened species, soil erosion, sacred sites and heritage areas
6.7	<input type="checkbox"/>	Sumps will be lined or tanks of appropriate size to contain water, sediment and drilling fluids encountered during drilling, will be used
6.8	<input checked="" type="checkbox"/>	Sumps, drill holes, and fuel stores will be located away from environmentally significant areas and water courses
6.9	<input checked="" type="checkbox"/>	Excavations (sumps, costeans and pits) will be appropriately ramped to allow fauna egress
6.10	<input checked="" type="checkbox"/>	Drill holes will be securely capped immediately after drilling
6.11	<input checked="" type="checkbox"/>	Vehicle hygiene measures will be employed to prevent the introduction and spread of invasive species and pathogens when mobilising vehicles and equipment from one location to another
6.12	<input checked="" type="checkbox"/>	Hydrocarbon spills will be minimised using liners and drip trays under machinery, and appropriately sized spill-kits available in the event of a spill
6.13	<input checked="" type="checkbox"/>	Hazardous substances (including hydrocarbons) will be stored and handled in accordance with relevant Australian Standards
6.14	<input checked="" type="checkbox"/>	Hydrocarbons will be stored in lined and bunded areas
6.15	<input checked="" type="checkbox"/>	Waste will be stored securely while on-site to minimise windblown rubbish and access by feral animals
6.16	<input type="checkbox"/>	Waste will be removed off-site and disposed of at an appropriate waste management facility
6.17	<input checked="" type="checkbox"/>	All environmental incidents will be reported to the Department in accordance with Section 29 of the <i>Mining Management Act</i> .

Justification and alternative management measures:

6.7 Sumps for RC and AC (if required) will not be lined. RC sumps will be used to control groundwater discharge. Lining RC sumps is not practical as not all RC holes will intersect water

and using a liner restricts water dispersal to evaporation only slowing down the remediation process. DD holes will be lined as it important to contain and recycle drilling water and contain drilling fluids and cuttings.

6.16 All recyclable waste (aerosols, batteries, cans, etc) is sorted and stored at camp then disposed of at an appropriate waste facility in Alice Springs. Flammable and perishables (food scraps) are burnt at the field camp disposal pit and all non-recyclable material will be removed from site and disposed of at an appropriate waste facility in Alice Springs

Section 7 – Remediation and Closure

By checking these boxes, you are agreeing to implement the following minimum remediation standards on the project area. Where boxes have been left unchecked, justification is required.

7.1	√	Drill holes plugged below ground level at a minimum depth of 0.4 metres and soil mounded to prevent subsidence, within 6 months of completion of drilling
7.2	√	Drill samples/spoil returned down drill holes, buried in sumps, or removed from site
7.3	√	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site
7.4	√	Re-contouring of cut and fill drill pads will be consistent with the surrounding terrain
7.5	√	Ripping/scarifying of drill pads, and compacted areas along the contour (on sloping ground) and cross-ripping (zig-zag) along tracks
7.6		Tracks will be remediated, including pushing in all windrows
7.7	√	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur
7.8	√	All tracks will be remediated unless otherwise agreed in writing by the land holder or appropriate third party
7.9	√	Access through watercourses will be removed and banks restored
7.10	√	No erosion is occurring in disturbed areas, on tracks and in remediated areas
7.11	√	All excavations backfilled within 6 months of completion of drilling
7.12	√	All water bores decommissioned unless otherwise agreed in writing by the land holder or appropriate third party. The bore must comply with the Minimum Construction Requirements for Water Bores in Australia and may require permits or licenses under the <i>Water Act</i>
7.13	√	All rubbish and infrastructure will be removed from site
7.14	√	Replacement of topsoil and vegetation
7.15	√	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be remediated or removed from site
7.16	√	Monitoring will be undertaken following the wet season or a significant rainfall event

Justification and alternative management measures:




7.6 All access tracks will be remediated with the exception of AC/RAB lines. Experience in the Tanami region has shown that, given the limited clearing undertaken for AC/RAB, ripping with machinery at the end of a program creates more significant disturbance. Therefore remediation of AC/RAB lines is limited to manual raking of compacted areas. Monitoring of AC/RAB lines is scheduled and further remediation will be completed if required.

Section 8 – Required Attachments

8.1	√	Security Calculation Spreadsheet
8.2	√	Nomination of Operator Form
8.3	N/A	Spreadsheet with coordinates of proposed drill holes or polygons of target areas
8.4	√	Google Earth KML/shape files/track logs of proposed tracks and camp sites
8.5	√	<p>A map of the work area(s) showing:</p> <ol style="list-style-type: none"> 1. title boundaries and title numbers 2. current and proposed drill holes, or polygons of target areas 3. current and proposed tracks 4. remediated areas 5. camp sites 6. sacred/heritage sites – Unable to show sacred sites due to confidentiality restrictions in Exploration Agreements with CLC 7. environmental constraints
8.6	N/A	Remediation Register (for existing Authorisations)
8.7	N/A	Photographs of remediation work
8.8	N/A	Radiation Management Plan (if applicable)

Section 9 – Declaration

The Mining Management Plan must be endorsed by a senior representative of the company who has the appropriate level of authority to do so.

	Author	Reviewed by	Approved by
Date	22/07/2020	30/07/2020	3/08/2020
Name	Sam Ekins	Gillian McBain	Matt Briggs
Signature			

I Sam Ekins, Exploration Manager, declare that I have the authority to make the commitments contained in this mining management plan on behalf of the company. To the best of my knowledge the information contained in this plan is true and correct and commit to undertake the works in accordance with the agreed minimum standards and all relevant Northern Territory and Commonwealth Government legislation.



SIGNATURE:

DATE: 3 AUGUST 2020

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