

Castile Resources Pty Ltd Exploration Mining Management Plan For Rover Project

Authorisation: A0417-04

July 2020 Amended 16/10/2020

List of Acronyms

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Acronyms	Full form
AAPA	Aboriginal Areas Protection Authority
ABN and ACN	Australian Business Number and Australian
	Company Number
AMAG	Aerial Magnetic Geophysical Survey
AMEC	Association of Mining and Exploration
	Companies
ASIC-ABR	Australian Securities and Investments
	Commission – Australian Business Register
CLC	Central Land Council
DD	Diamond Drilling
DENR	Department of Environment and Natural
	Resources
DPIR/	Department of Primary Industry and
The Department	Resources
EL	Exploration Licence
DHEM	Down hole Electromagnetics
EPBC	Environment Protection and Biodiversity
	Conservation Act
EZ	Exclusion Zone – No exploration activities
	allowed.
FFS	Fauna and Flora Survey
GGRAV	Ground Gravity Geophysical Survey
IP NO.	Induced Polarisation Geophysical Survey
MCA	Minerals Council of Australia
ML	Mineral Lease
MMA	Mining Management Act
MMP MTA	Mining Management Plan Mineral Titles Act
NT	Northern Territory
NVIS	National Vegetation Information System
RC	Reverse Circulation Drilling
RWA	Restricted Work Area – only non-ground
	disturbing exploration activities allowed
SOBS	Site of Botanical Significance
SOCS	Site of Conservation Significance
STRIKE	Spatial Territory Resource Information Kit for
- · · · · · · -	F 1 C

Exploration

Survey

Transient Electromagnetic Geophysical

TEM

Background

Castile Resources Ltd (Castile), propose to undertake exploration activities at the Rover Project Mineral Field, here-in referred to as 'the Project' located approximately 67 km's southwest of the township of Tennant Creek, Northern Territory (Figure 1). Exploration activities will be undertaken at the following four deposits, including; Explorer 108, Curiosity and Explorer 142 (located within EL27039) and Rover 1 (located within EL27372). This exploration MMP encompasses all proposed exploration activities on the following five granted Exploration Leases (EL's); EL24541, EL27039, EL27292, EL27372, and two granted Exploration Retention Licences (ELR); ELR29957 and ELR29958. Collectively, these areas are referred to throughout this report as the 'project area', a total tenement area of approximately 1054 km²

Section 1 – Project Details

Trovide new or existing project name	
Project Name Provide new or existing project name	Rover Project

Authorisation Number Insert existing authorisation number, where applicable	A0417-04

Operator Name Use ASIC-ABR registered name (if a company), or name of the applicant Castile Resources Pty Ltd ACN: 124 314 085 Lvl 7, 189 St Georges Tce, Perth, WA 6000 PO Box 7068 Cloisters Square Perth, WA 6850Contact: Mark Hepburn Managing Director

Managing Director
e: mark.hepburn@castile.com.au

Location and Access Details Include brief description of the location, access details, and distance to nearest town or community Rover Project (GR107) is located 67km southwest of Tennant Creek. Access is via the Ngapamilamu Track, 6km south of Tennant Creek off the Stuart Hwy, 51km to the abandoned Kunayungku Camp, then by an exploration access track 30km south to the Rover exploration camp. See Figure 1

Target Commodity Details Include target commodities (i.e. gold, copper etc)	Gold, Copper, Lead, Zinc, Bismuth, Cobalt
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Mining Activities Summarise the mining activities (exploration) to be the subject of the proposed Authorisation or Variation	Maintenance of exploration access tracks 6 -10 surface diamond holes (dependant on results) Ground based geophysics (GGRAV, DHEM).
	Rehabilitation of historic drill sites as documented in the rehabilitation register.

Include start and finish dates of ground disturbing work	Ground disturbance will be staged around individual drill programs as required. Drilling is planned to be undertaken from mid-July until mid-December 2020, then restarting April 2021 after the wet season.
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Mining Interest and Land Ownership

List the mining interests (titles), the title holder name/s, the title expiry date and the Property name/Land holder (e.g. pastoralist or Aboriginal land trust) for each title.

Title Number	Title Holder	Expiry Date	Property Name or Land Holder
EL24541	Castile Resources Pty Ltd	17/12/2021	Karlantiijpa South Aboriginal Land Trust
EL25511	Castile Resources Pty Ltd	17/12/2021	Karlantiijpa South Aboriginal Land Trust
EL27039	Castile Resources Pty Ltd	14/05/2021	Karlantiijpa South Aboriginal Land Trust Karlantiijpa North Aboriginal Land Trust
EL27292	Castile Resources Pty Ltd	26/05/2020	Karlantiijpa South Aboriginal Land Trust
EL27372	Castile Resources Pty Ltd	26/05/2020	Karlantiijpa South Aboriginal Land Trust
ELR29957	Castile Resources Pty Ltd	16/09/2023	Karlantiijpa South Aboriginal Land Trust
ELR29958	Castile Resources Pty Ltd	16/09/2023	Karlantiijpa South Aboriginal Land Trust

Organisational Structure

Position Title	Name	Responsibilities
Managing Director	Mark Hepburn	Corporate governance and operational oversight.
Geology Manager	Mark Savage	Planning, on-ground implementation and monitoring to ensure exploration activities are conducted in accordance with DPIR and NT WorkSafe Regulations.

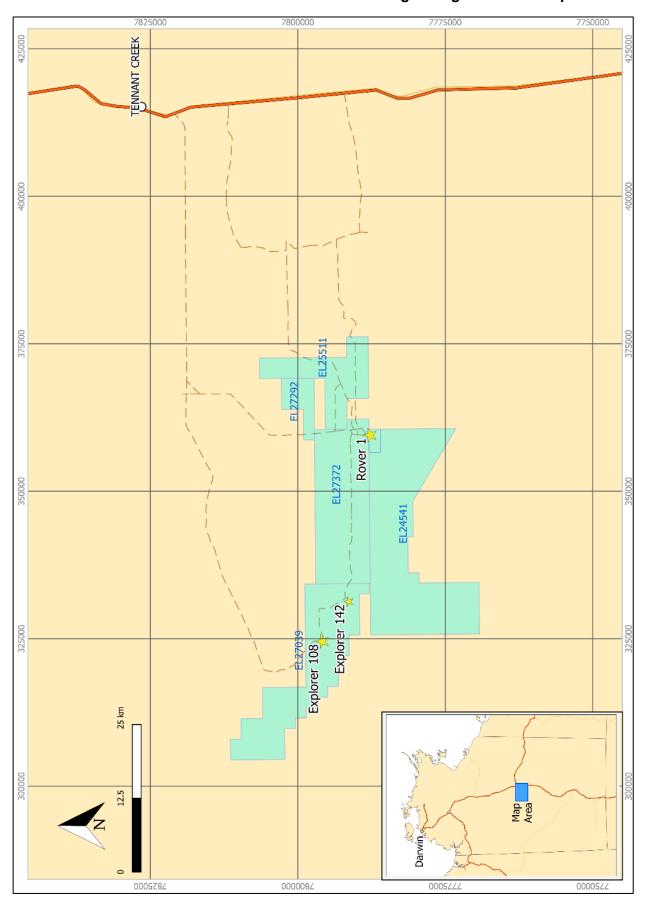


Figure 1: Rover Project Tenure as of February 2020

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.

A project risk assessment has been completed (see attached) for the proposed exploration activities. Overall, the project has resulted in low residual risk, and as a result, no environmental management plans have been completed for the proposed exploration activities.

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 species or habitats of significance that may occur in the proposed work area?	No	The Rover Project area is extensively covered by Triodia low, open hummock grassland with localised occurrences of Acacia tall open woodland (refer to NVIS). Flora surveys undertaken in 1999 (Explorer 142) and 2011 (Rover 1) identify localised flora species density variations of the above NVIS vegetation types. During these surveys no threatened flora were species identified. The areas under consideration for proposed exploration for this MMP are located in areas of previous disturbance, within Triodia low, open hummock grassland, identical to that found at Rover 1 and Explorer 142 and by extension, are unlikely to host threatened flora species. A search of the NT flora database indicates no threatened species have been observed within the Rover Project area.	Refer to: Ecologica 1999 Babylon Biological Assessment Survey and; VDM EcOz 2011 flora and fauna survey of Rover 1 (Appended) Search undertaken of eflora.nt.gov.au online database. See attached project risk assessment – Low residual risk.

ASSESSMENT ASPECT	YES or NO	ACTIONS REG (if answered Y	ES)		APPENDED INFORMATION (Evidence of consultation with DENR and/or management plan)
Step 1 (cont) Are there any threatened fauna species or habitats of significance that may occur in the proposed work area?	Yes	Territory conse potential to occ species Australian Painted Snipe Mulgara Greater Bilby Southern Marsupial Mole Great Desert Skink Australian Bustard Emu Night Parrot Black-footed Rock Wallaby Woma Python Bush Stone-curlew The 2011 VDM Australia Busta The areas under exploration action action areas of preventively many of the proposed exploration action areas of preventively many of the proposed exploration action areas of preventively many of the proposed exploration action areas of preventively many of the proposed exploration action areas of preventively many of the proposed exploration action areas of preventively many of the proposed exploration action areas of preventively many of the proposed exploration areas of preventively many of the proposed explo	er consideration of vities in 2020 are vious disturbance of the above spectaploration areas unce. Ged that this assessibility of threater the areas of proconnaissance of as will be undertable impacted by	TPWC Act 2000 Vulnerable	Refer to: Ecologica 1999 Babylon Biological Assessment Survey and; VDM EcOz 2011 flora and fauna survey of Rover 1 (Appended) Search of EPBC Act Protected Matters online database See attached project risk assessment – Low residual risk.

ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION (Evidence of consultation with DENR and/or management plan)
Step 2: Are there any known declared weeds within the proposed work area?	No	The Rover Project is accessed by a single access track to the Rover 1 exploration camp which is the location for accommodation, staging and logistics. Access to prospects within the project area is via tracks from the camp. There were no declared weed species identified during the 2011 FFS conducted at Rover 1. A search of the NT flora database indicates no declared weed species have been observed within the Rover Project area. Good vehicle hygiene practices will be employed to ensure that seeds of declared weed species will not be transported onto the Rover Project area. Any sightings of these species in the exploration project area will be reported to the Department and steps taken to control and eradicate, as discussed in the Rover Project Weed Management Document	Refer to VDM EcOz 2011 flora and fauna survey of Rover 1 and Rover Weed Management document (Appended) Search undertaken of eflora.nt.gov.au online database See attached project risk assessment – Low residual risk.
Step 3: Will you be using water from bores or other sources for the operation?	Yes	All water required for exploration activities will be sourced from existing bores where possible. Refer to Figures 2 through 4 for existing bore locations and location of planned drilling. There may be the requirement to sink new bores in support of drilling activities at the more remote prospects, if it is unfeasible to utilise existing drillholes for that purpose. New bores if required will be constructed in compliance to Department of Water Resources requirements. The camp is expected to require up to 2,000L/day. Drilling is expected to require 10,000L initially for each hole which will be recycled through use of a dual sump system. Each hole will likely require daily top-ups of 1,000-2,000L	Refer to Figs 2-4 High-res versions appended See attached project risk assessment – Low residual risk.

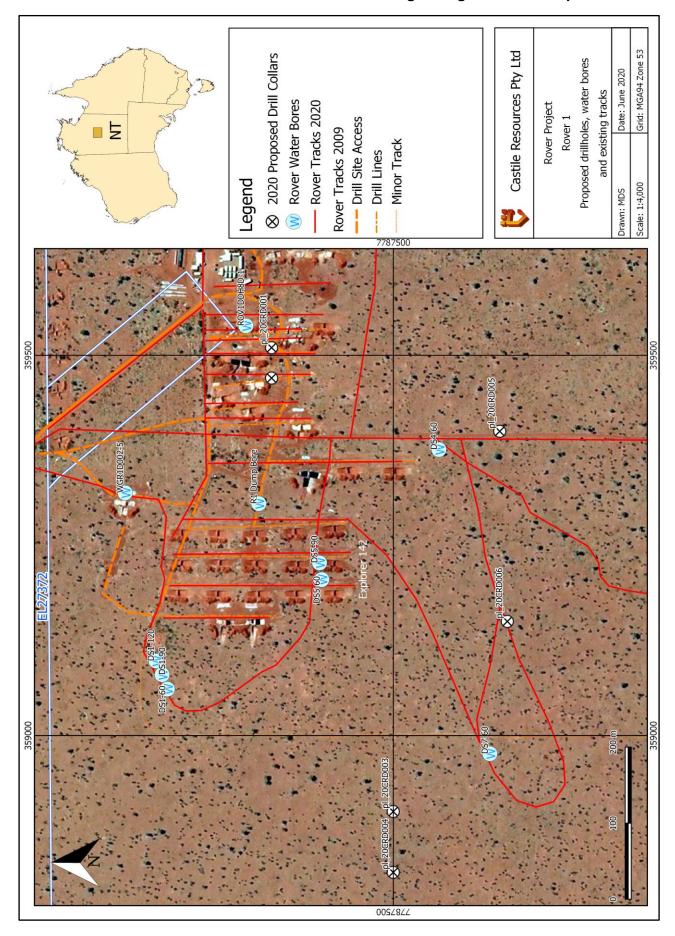


Figure 2: Rover 1 proposed drill collar locations, water bores and existing tracks on 2009 aerial photography.

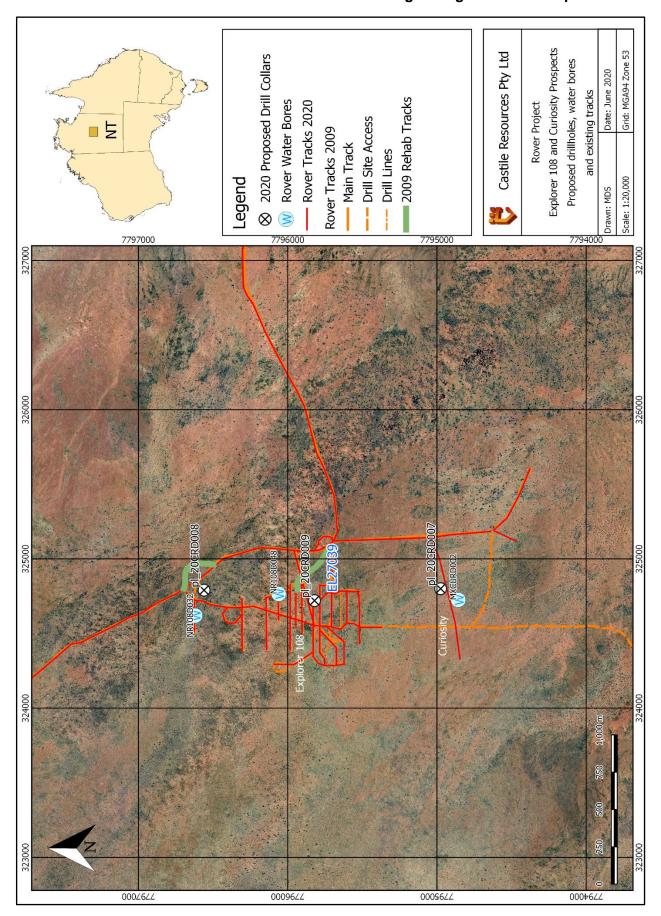


Figure 3: Explorer 108 proposed drill collar locations, water bores and existing tracks on 2009 aerial photography.

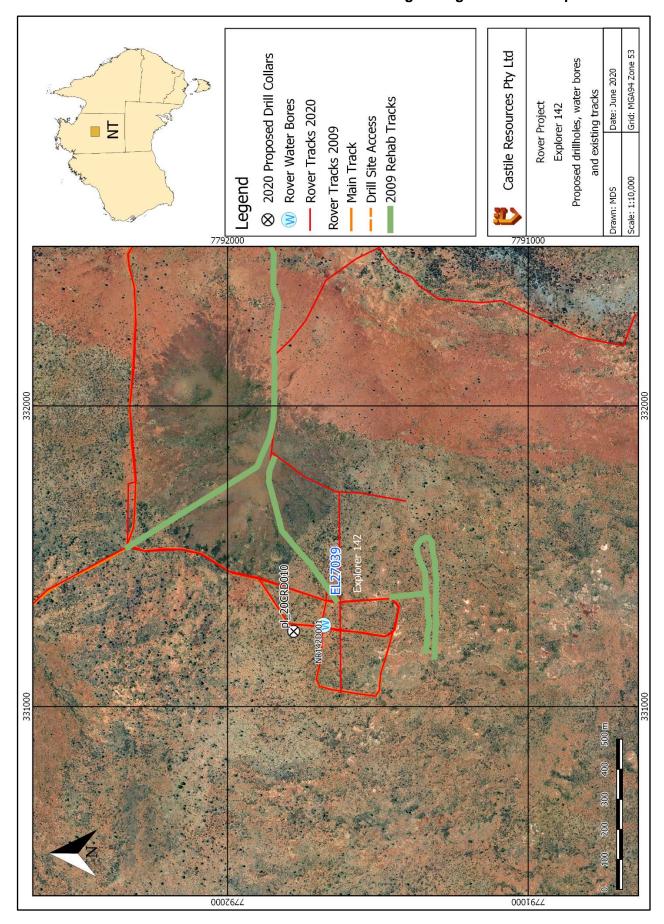


Figure 4: Explorer 142 proposed drill collar locations, water bores and existing tracks on 2009 aerial photography.

Environmental assessment and cultural considerations

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS	
Step 4: Is your project likely to have a significant impact on the environment?	No	The proposed exploration activities are not expected to have a significant environmental impact (See attached project risk assessment – Low residual risks). Particularly for drilling on ELR29957, clearing will be mostly located within and around previous disturbance areas as part of extensional exploration and resource development drilling. New drilling locations are designed thave a small footprint, with access tracks minimised. The <i>maximum</i> proposed clearing for 2020 totals 0.89Ha. Protection and management of the environment is documented under the Deed for Exploration between the CLC and Castile under Article 10 and Annexure 9	
		Refer to Appendices for relevant extracts from the Deed of Exploration	
Step 5: Are there Aboriginal sacred sites in the Project area?	Yes	Refer to section 2.6 below	
Step 6: Are there archaeological and heritage sites in the Project area?	Yes	Castile regularly consults with the CLC and is required to submit Work Programs annually which are then compared against prior SSCC containing advice of RWA's and EZ's on Rover Project titles. Where new areas are involved, CLC anthropologists and traditional owners will undertake on-ground heritage surveys and provide a new SSCC. It should be noted that the existence of RWA and EZ areas does not explicitly mean that areas contain sacred, heritage or archaeological sites, only the type of exploration work that may be undertaken; Only non-ground disturbing exploration activities as approved by the CLC in the Deed for Exploration are permitted on RWA's No unauthorised entry or exploration activities are to be undertaken on EZ's. All existing clearances (SSCC-2011-047 and 054) are currently under review by the CLC. It is expected they will be re-instated by August 2020. Protection and management of Heritage, Archaeological and Sacred Sites is documented under the Deed for Exploration between the CLC and Castile Resources under Article 7 and Annexure 10. Refer to Figure 5 below for the location of SSCC Restricted Areas. Refer to Appendices for relevant extracts from the Deed of Exploration	

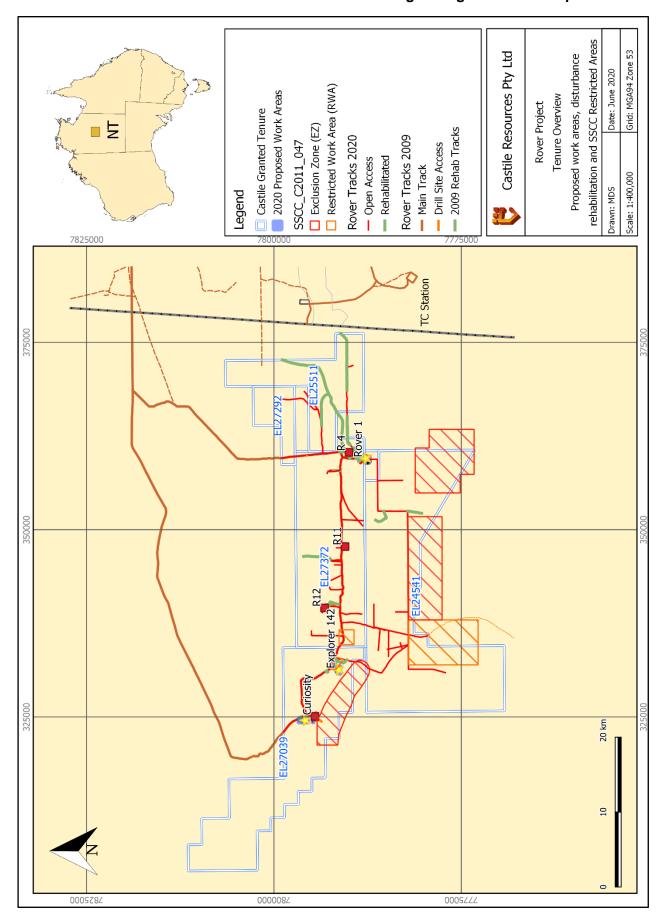


Figure 5: Rover Project 2020 Proposed Work Areas with disturbance, rehabilitation and SSCC Restricted Areas

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		
Section 1.0 Organisational Structure	Managing Director Castile Resources – Mark Hepburn Geology Manager – Mark Savage		
Section 1.0 Mining Interests	Updated Tenement Status to include EL27292 and EL27372, transferred from Adelaide Resources. Variation of Authorisation for A0417-04 dated 19/02/2020 appended		
Section 0.0 Preamble	August 2020 - Removed 'Statutory Requirements' section on recommendation of DPIR. Amended 21/02/2020		
Section 5 Previous Disturbance	Line km entered as Ha in line/track row. Amended table and Security Calculation. Amended 21/08/2020		
Section 5 Previous Disturbance	Previous disturbance for EL27292 and EL27372 has been removed from the July submission as it is directly related to Adelaide Resources (now Andromeda Metals) exploration activity between 2009 and 2011 with it's own security. Amended table and Security Calculation. Amended 9/09/2020		
Section 5 Previous Disturbance	Aligned number of holes with rehab register. Amended 9/09/2020		
Section 5 Previous Disturbance	Review undertaken of existing tracks prior to grant of tenure under the Babylon agreement in 1998 and historic disturbance to Jan 2019 via aerial photography. New calculation of track disturbance throughout tenement area. Additional supporting documentation included in appendices. 23/09/2020.		
Section 8	At the request of the department, a drillhole tracking ledger was created to determine outstanding approved holes (undrilled), completed holes and rehabilitation. Updated security calculator with updated disturbance and remediation figures. 16/10/2020		

Section	Amendment
Section 5	Align drilling disturbance and remediation from tracker with Section 5 figures. 16/10/20

Section 4 – Activities Proposed

Mining Interests (i.e. titles)	EL27039	ELR29957
Number and type of proposed drill holes	4 Diamond	6 Diamond
Maximum depth of proposed holes (m)	850	1400
Number and size of drill pads to be cleared (Length: 40m x Width: 20m)	4 - area includes sumps	6 - area includes sumps
Total area of drill pads to be cleared – assumes max holes drilled (ha)	0.32	0.48
Is drilling likely to encounter groundwater? (Y, N, unsure)	Υ	Υ
Number of costeans (Length: m x Width: m x Depth: m)	0	0
Number of bulk sample pits	0	0
Total bulk sample (tonnes) (Length: m x Width: m x Depth: m)	0	0
Bulk sample pits approved under <i>Mineral Titles Act</i> ? (Y or N)	N/A	N/A
Length of line/track clearing (km: x Width: 3m)	0.02	0.08
Camp area to be cleared (ha)	N/A	Existing Rover Camp
Camp Infrastructure (i.e. demountable, tents)	N/A	Demountable
Previous disturbance yet to be remediated on title (ha) if known	See Section 5 for detail	See Section 5 for detail
Other	Refer To Figs 3 and 4	Refer to Fig 2
Total area disturbed proposed (ha)	0.34	0.55

Section 5 – Previous Disturbance (for existing Authorisations only)

Mining Interests (i.e. titles)	EL24541	EL25511	EL27039	ELR29957	ELR29958
Number/type of holes drilled	12 DD	4 DD	63 DD/RC	60 DD	0
Maximum depth of holes drilled (m)	750m	730m	900m	1180m	0
Number of holes remediated (i.e. plugged/capped)	12	4	63	60	0
Number and size of drill pads cleared (Length: 40m x Width: 20m)	12	4	63	60	0
Total area of drill pads cleared (ha)	0.96	0.32	5.04	0	0
Total area of drill pads remediated (ha)	0.8	0.24	4.8	0	0
Groundwater encountered? (Y or N)	Υ	Y	Υ	Υ	0
Length of line/track cleared (Length: X km x Width: 3m)	10.88	2.09	8.03	1.94	0.13
Length of line/track remediated (Length: km x Width: 3m)	0.79	0	3.68	0.37	0
Number of costeans excavated (L: m x W: m x D: m)	0	0	0	0	0
Number of costeans remediated	0	0	0	0	0
Total bulk sample pits excavated (Length: x Width: x Depth:	0	0	0	0	0
Total bulk sample pits remediated	0	0	0	0	0
Camp area/s cleared (ha)	0	0	0	1.3	0
Camp area/s remediated (ha)	0	0	0	0	0
Total area disturbed (ha)	11.84	2.41	13.07	0	0
Total area remediated (ha)	1.59	0.24	8.48	0	0

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

•	Justilication and alternative management measures:						
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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	Υ	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	Υ	Drill samples/spoil returned down drill holes, buried in sumps, or removed from site		
7.3	Y	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site		
7.4	Υ	Re-contouring of cut and fill drill pads will be consistent with the surrounding terrain		
7.5	Y	Ripping/scarifying of drill pads, and compacted areas along the contour (on sloping ground) and cross-ripping (zig-zag) along tracks		
7.6	Υ	Tracks will be remediated, including pushing in all windrows		
7.7	Y	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur		
7.8	Y	All tracks will be remediated unless otherwise agreed in writing by the land holder or appropriate third party		
7.9	Υ	Access through watercourses will be removed and banks restored		
7.10	Υ	No erosion is occurring in disturbed areas, on tracks and in remediated areas		
7.11	Υ	All excavations backfilled within 6 months of completion of drilling		
7.12	Υ	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	Υ	All rubbish and infrastructure will be removed from site		
7.14	Υ	Replacement of topsoil and vegetation		
7.15	Υ	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be remediated or removed from site		
7.16	Υ	Monitoring will be undertaken following the wet season or a significant rainfall event		

Justification and alternative management measures:	

Section 8 – Required Attachments

8.1	Υ	Security Calculation Spreadsheet		
8.2	N/A	Title Holder is the Operator		
8.3	Υ	Spreadsheet with coordinates of proposed drill holes		
8.4	Υ	Google Earth KML/shape files/track logs of proposed tracks and camp sites. Includes shape files and maps of existing tracks prior to grant of tenure.		
8.5	Y	A map of the work area(s) showing: 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		
		7. environmental constraints		
8.6	Υ	Remediation Register (for existing Authorisations)		
8.7	Υ	Photographs of remediation work		
8.8	N/A	Radiation Management Plan - not applicable for 2020 field season		
8.9	Additional Documents: 0. Approval, drilling and rehabilitation tracker 1. Exploration Environmental Risk Assessment 2. Flora and Fauna 3. Declared Weeds and Weed Management 4. AAPA and SSC 5. Environmental and Sacred Site Protection Proceedures			

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	1/07/2020	03/07/2020	6/07/2020
Name	Mark Savage	Suzanne Barber	Mark Hepburn
Signature	MSH	S. Barken	M.74gph

I, Mark Savage (Geology 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: 16TH OCTOBER 2020