

Mining Management Exploration Activities

Northern Territory of Australia – Mining Management Act 2001

It is recommended that the Mining Management Plan (MMP) 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	Minerva
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Authorisation Number Insert existing authorisation number, where applicable	
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Operator Name Use ASIC-ABR registered name (if a company), or name of the applicant	Elevate Uranium Ltd.
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Operator ABN and ACN numbers	ACN 001 666 600
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Location and Access Details Include brief description of the location, access details, and distance to nearest town or community	The project area is located approximately 200 km NW of Alice Springs and is easily accessible by the sealed Tanami Highway which passes through the eastern portion of the tenement. The project area is located approximately 27 km from the Tilmouth Well roadhouse and 62 km from the Laramba Aboriginal settlement.
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Target Commodity Details Include target mineral commodities (i.e. gold, copper etc.)	Uranium, gold
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Mining Activities Summarise the mining activities (exploration) to be the subject of the proposed Authorisation or Variation. Drilling programs over a maximum of four years are supported and encouraged and can be staged. Please refer to the guidelines for further information.	The proposed exploration involves drilling of five diamond drillholes with an estimated total depth of between 250 and 450 m and pre-collared to approximately 80 m.
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Proposed Schedule Include start and finish dates of ground disturbing work	September 2022 – October 2022
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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	Underlying Property Name or Land Holder
32400	Elevate Uranium	18/4/27	Napperby Pastoral Lease

Delete or add rows as required

Please note a Land Access Agreement (LAA) is required for disturbance proposed on Pastoral Properties on Exploration Licence (EL).

Organisational Structure

Position Title	Name
Managing Director	Murray Hill
General Manager	n/a
Exploration Manager	Andy Wilde
Senior Project Geologist	Jason Triffitt
Environmental Manager	TBA
Radiation Safety Officer	Jessica Bezuidenhout

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 (e.g. evidence of consultation with DEPWS and/or management plan where required).
<p>Step 1: Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?</p>	<p>No</p>	<p>Generated EPBC Protected Matters Report has been included with this document. The report states that there are 10 threatened species and 9 migratory species that 'may' inhabit the tenement area. Of these species most are avian and 3 are terrestrial. It is the assertion after self-assessment of the relevant habitats that the clearing associated with the 5 proposed drillholes will not adversely affect these species.</p>	<p>Consulted the DEPWS NR Maps site on 23/11/2021. EL32400 lies within SOCS* site 54 – lake Lewis and Surrounds. NR Maps information indicates no threatened flora and fauna species have been reported or recorded as being present within the Project or the immediate area. The NR Maps site records the fauna species Grey Falcon occurring approximately 2.5km south-west from the Project area.</p> <p>A 300m no-work exclusion zone shall be applied to any tree identified as a Grey Falcon nesting site.</p> <p>The NR Maps site shows recorded instances of Southern Marsupial Mole and Central Australian Rock-wallaby approximately 8 km south-east of the Project area.</p> <p>The recorded occurrence of the Greater Bilby approximately 18 km south-west of the Project area is also noted.</p> <p>The flora species Scheonus Centralis is also recorded as occurring approximately 5.3 km south-west of the project Area.</p> <p>Consulted EPBC Protected Matters Search Tool site on 28/04/2022. A report for the Project area recorded 9</p>

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ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION (e.g. evidence of consultation with DEPWS and/or management plan where required).
			<p>threatened fauna species may potentially occur within the site. No flora species are listed in the report.</p> <p>Reports, Maps and data sheets for site and adjacent areas listed threatened species are attached at Appendix 1 as evidence of proponent awareness. If observed, the proponent shall record the occurrence and report it to the DITT and DEPWS.</p>
<p>Step 2: Are there any known declared weeds within the proposed work area?</p>	<p>yes</p>	<p>Comply with weed management protocols implemented by Napperby Station and include weed management techniques to staff induction including vehicle hygiene and work management procedures to prevent spread.</p>	<p>Consultation with DEPWS. Cover letter and assessment appended to this document.</p> <p>The NR Maps site shows reported occurrences of the following weeds in the vicinity of the Project area:</p> <ul style="list-style-type: none"> • Saffron Thistle Class B. • Nettle-leaved Goosefoot – not a declared weed in the NT; • Buffell Grass – not a declared weed in the NT; • Nettle-leaved Goosefoot – not a declared weed in the NT • Spiked Malvastrum– not a declared weed in the NT; and • Couch Grass – not a declared weed in the NT <p>No weed pest species were listed in the EPBC report.</p> <p>Copies of the NR Maps site weed species map and EPBC report are attached at Appendix 1.</p> <p>Vehicle hygiene measures are detailed in the Project Weed Management information sheet attached at Appendix 1.</p>

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ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION <small>(e.g. evidence of consultation with DEPWS and/or management plan where required).</small>
			<p>The proponent shall pay particular attention to personnel and contractor observance of vehicle hygiene measures.</p> <p>A copy of 2018 NT Weeds Branch Weed Management Handbook at Appendix 1 will assist the proponent with identifying and managing any incidence of site declared weeds. If observed, the proponent shall record the occurrence for pastoralist, DITT and DEPWS reference.</p>
<p>Step 3: Will you be using water from bores or other sources for the operation?</p>	YES	Water will be required to service the drill rig. It will be sourced from pre-existing bore on Napperby Station.	<p>Water usage is estimated at <5 megalitres and therefore exempt.</p> <p>The proponent will consult with the pastoralist for use of limited amounts of water for drilling purposes, if and when required.</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	The drilling will require creating of tracks, clearing of drill pads and digging of sumps to contain water. Flat lying ground will preclude affecting geomorphology, a policy of minimal clearing will prevent any impact to habitat and prompt rehabilitation will ensure no significant impact on the environment will occur.

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ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
Step 5: Are there Aboriginal sacred sites in the Project area?	Yes	<p>EL32400 does contain one restricted area that has been identified and excluded from exploration activities.</p> <p>Sacred Sites are protected under the NT <i>Aboriginal Sacred Sites Act 1989</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>The AAPA provided a report for the site on 23/11/2021 identifying two sacred sites and restricted works areas. The proponent is fully aware of the location of the sites and restrictions in relation to permitted activity.</p> <p>As the AAPA report is not permitted to be shared with any third party no copy is attached to the MMP. The report is retained by the proponent for reference purposes.</p>
Step 6: Are there archaeological and heritage sites in the Project area?	No	<p>No heritage or archaeology sites have been identified within the EL32400 tenement.</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 have amendments made since the previous MMP submission clearly identified.

Section	Amendment
	Nil – initial MMP

Delete or add rows as required

Section 4 – Activities Proposed for this MMP only

Provide relevant EL numbers

Mining Interests (i.e. titles)	EL32400	EL	EL	EL
Number and type of proposed exploration drill holes	5			
Maximum depth of proposed holes (m)	450 m			
Number and size of drill pads to be cleared (Length: m x Width: m)	5 x (10m ² x 15m ²)			
Total area of drill pads to be cleared (ha)	.075ha (750m ²)			
Number of proposed water bores	0			
Is drilling likely to encounter groundwater in multiple or confined aquifers? (Y, N, unsure) If answering yes, please provide the number of exploration holes where this is likely to occur	unsure			
Number of costeans	0			
Volume to backfill costeans (Length: m x Width: m x Depth: m)	0			
Number of bulk sample pits	0			
Volume to backfill bulk sample pits (Length: m x Width: m x Depth: m)	0			
Bulk sample pits approved under <i>Mineral Titles Act</i> ? (Y or N). If Yes provide approval	No			
Line/track clearing: (length m x width m)	1000 m x 3 m			

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Mining Interests (i.e. titles)	EL32400	EL	EL	EL
Area of proposed line/track clearing (ha)	0.3ha (3000m ²)			
Camp area to be cleared (ha)	0			
Camp Infrastructure (i.e. demountable, tents) Please provide a complete list with measurements as required in the security calculation	0			
Other	0			
Total proposed area of disturbance (ha)	0.375ha			

Staging approach based on disturbance can be proposed and will be considered by the Department.

Section 5 – Previous Disturbance (for existing Authorisations only)

The 'Disturbance Tracking' spreadsheet must be completed and attached to the MMP submission to complete this section. The spreadsheet is available on the departmental web page where this template is located.

Section 6 – Environmental Management

By checking these shaded 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	Y	Blade-up approach for clearing will be used (i.e. no windrows, leave root stock and topsoil)
6.2	Y	Significant vegetation will be avoided during clearing (i.e. large trees, specimens providing habitat or food sources, riparian vegetation, and threatened species)
6.3	Y	Vegetation clearing during, and immediately after rainfall events, will be avoided
6.4	Y	Vegetation clearing will be kept to the minimum required to safely traverse vehicles and drill rigs along tracks and drill pads
6.5	Y	Where blade-up techniques cannot be employed, topsoil and vegetation will be stockpiled appropriately for rehabilitation 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	Y	Sumps will be lined or tanks of appropriate size to contain water, sediment and drilling fluids encountered during drilling, will be used
6.8	Y	Sumps, drill holes, and fuel stores will be located away from environmentally significant areas and water courses
6.9	Y	Excavations (sumps, costeans and pits) will be appropriately ramped to allow fauna egress
6.10	Y	Drill holes will be securely capped immediately after drilling
6.11	Y	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	Y	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	Y	Hazardous substances (including hydrocarbons) will be stored and handled in accordance with relevant Australian Standards
6.14	Y	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	Y	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> .
6.18	Y	Acid and Metalliferous Drainage (AMD) and Potentially Acid Forming (PAF) material derived from drilling cuts will be managed to avoid AMD and PAF related issues on site.

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6.19	Y	Radioactive/NORM drill cuttings will be managed to avoid radiation related issues on site.
6.20	Y	Dust management will be implemented on site.

Justification and alternative management measures:

Section 7 – Rehabilitation and Closure

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

A refund of security related to completed rehabilitation on site requires the submission of a rehabilitation report including photographs, an updated security calculation and updated disturbance tracking spreadsheet to the Department.

7.1	Y	Drill holes will be 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	Y	Drill holes encountering multiple or confined aquifers will be grouted with concrete.
7.3	Y	Drill samples/spoil will be returned down drill holes, buried in sumps, or removed from site.
7.4	Y	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site.
7.5	Y	Cut and fill drill pads will be re-contoured to be consistent with the surrounding terrain.
7.6	Y	Drill pads and compacted areas along the contour (on sloping ground) will be ripped/scarified of and tracks will be cross-ripped (zig-zag).
7.7	Y	Tracks will be rehabilitated, including pushing in all windrows, unless otherwise agreed in writing by the land holder or appropriate third party.
7.8	Y	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur.
7.10	Y	Access through watercourses will be removed and banks restored.
7.11	Y	All previously disturbed areas will be stable, with no evidence of active soil erosion.
7.12	Y	All excavations will be backfilled within 6 months of their completion.
7.13	Y	All water bores will be decommissioned unless otherwise agreed in writing by the land holder or appropriate third party.
7.14	Y	All rubbish and infrastructure will be removed from site.
7.15	Y	Topsoil will be replaced and vegetation re-established.
7.16	Y	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be rehabilitated or removed from site.
7.17	Y	Monitoring will be undertaken following the wet season or a significant rainfall event.

Justification and alternative management measures:

Section 8 – Required Attachments

8.1	Y	Initial Application for Authorisation or variation of Authorisation (only if details on the form have subsequently changed).
8.2	Y	Nomination of Operator Form, where required
8.3	Y	Security Calculation Spreadsheet
8.4	Y	Evidence of Land Access Agreement if operating on an Exploration Licence (EL) on Pastoral Lease (e.g. two-ways exchange of email)
8.5	Y	Disturbance tracking spreadsheet (for existing Authorisations)
8.6	Y	Spreadsheet with coordinates of proposed drill holes or polygons of target areas
8.7	Y	KML/shape files/track logs of proposed tracks, camp sites and proposed drill holes or polygons of target areas
8.8	Y	Map(s) of the work area(s) showing: <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. rehabilitated areas 5. camp sites 6. heritage sites or significant environmental areas 7. environmental constraints
8.10	Y	Radiation Management Plan (if applicable)
8.12		Document(s) being appended in relation to Section 2 (if any): <ul style="list-style-type: none"> - Protected Matters – MNES layers – May 16th 2022 - DEPWS EL32400 Cover letter - DEPWS EL32400 on NT Portions 747 and 748 - Minerva_Proposed_Drillholes_180522