

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	Bynoe Lithium Project
Authorisation Number Insert existing authorisation number, where applicable	1124
Operator Name Use ASIC-ABR registered name (if a company), or name of the applicant	Charger Metals NL
Operator ABN and ACN numbers	61 646 203 465/ 646 203 465
Location and Access Details Include brief description of the location, access details, and distance to nearest town or community	The project area is situated within the Bynoe Harbour region, located approximately 30km south west of Darwin. Access to the area from Darwin is via the Stuart Highway, thence via the Cox Peninsula Road, thence via Fog Bay Road.
Target Commodity Details Include target mineral commodities (i.e. gold, copper etc.)	Lithium
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.	Charger Metals is proposing to conduct 157 AC and 141 RC drill holes and 20 Diamond holes on EL30897 to explore for Lithium. New tracks will need to be established to access most drill sites.

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Proposed Schedule Include start and finish dates of ground disturbing work	August 2023 to December 2024.
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Mining Interest and Land Ownership

Title Number	Title Holder	Expiry Date	Underlying Property Name or Land Holder
EL30897	Lithium Australia NL	21/03/2022 (Renewal Lodged 07/02/2022)	Hundred of Hughes (372) - Parcel 2529 Hundred of Hughes (372) - Parcel 2751 NT Portion (000) - Parcel 3283 Hundred of Milne (510) - Parcel 11 Hundred of Milne (510) - Parcel 2533 Hundred of Hughes (372) - Parcel 2528 Hundred of Milne (510) - Parcel 173 Hundred of Hughes (372) - Parcel 2747 Hundred of Milne (510) - Parcel 177 Hundred of Milne (510) - Parcel 165 Hundred of Milne (510) - Parcel 169 NT Portion (000) - Parcel 3193 Hundred of Milne (510) - Parcel 168 Hundred of Milne (510) - Parcel 167 Hundred of Milne (510) - Parcel 2540 Hundred of Hughes (372) - Parcel 2741 Hundred of Milne (510) - Parcel 20 Hundred of Milne (510) - Parcel 171 Hundred of Milne (510) - Parcel 170 Hundred of Milne (510) - Parcel 2859 Hundred of Hughes (372) - Parcel 2748 Hundred of Hughes (372) - Parcel 2527 Hundred of Milne (510) - Parcel 175 Hundred of Milne (510) - Parcel 176 Hundred of Milne (510) - Parcel 2532 Hundred of Milne (510) - Parcel 19 Hundred of Milne (510) - Parcel 166 Hundred of Milne (510) - Parcel 172 Hundred of Milne (510) - Parcel 174

Organisational Structure

Position Title	Name
Managing Director	David Crook
Exploration Manager	Jonathan Smalley

Section 2 – Operator Self-Assessment of the Environmental Risk

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>Yes</p>	<p>A Desktop Biodiversity Assessment (DBA) was conducted by Connect Environmental (Connect) in March 2022. Results showed that there are five threatened flora and 22 threatened fauna species have been recorded within 20 km of EL30897. The recorded locations and species are shown in Figure 4 of the DBA in Appendix 9. The list of threatened species that may occur within the licence area is located in Table 4 of the DBA.</p> <p>Connect recommended that previous proposed tracks and drillholes be moved to avoid riparian vegetation communities. The tracks and drillholes have been amended to avoid impacting on riparian vegetation communities and avoidance buffers have also been factored in to minimise impacts to potentially occurring threatened species and sensitive or significant habitats. The Avoidance Recommendations and Disturbance Footprint in section 6 of the DBA were also taken into consideration when planning the disturbance works for the project. These will also be adhered to during exploration works.</p> <p>As concluded in the DBA, the impacts resulting from the proposed exploration works, including the clearing of approximately 21.2 ha of vegetation, is likely to be generally negligible or minor for most threatened species and sensitive / significant habitats. However, some proposed works may still impact on suitable habitats for threatened species and sensitive and/or significant vegetation types. Thus, it was recommended by Connect that field assessments be conducted to confirm and further define the significance of these habitats and vegetation types. Charger Metals will avoid these areas. If avoidance of these areas are not possible, Charger will engage Connect to survey the items in section 8 of the DBA before works in those areas are conducted.</p> <p>Charger will also adhere to the environmental protection and management measures described in the Mining management plan exploration activities structure guide by avoiding significant vegetation. All on site personnel will undertake an environmental induction to ensure environmental commitments are maintained.</p>	<p>Desktop Biodiversity Assessment- Appendix 9</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>
Step 2: Are there any known declared weeds within the proposed work area?	No	A Desktop Biodiversity Assessment was conducted by Connect Environmental in March 2022. Results showed that 15 weeds are recorded within 20 km of the lease that are declared under the NT WM Act, of which three are Weeds of National Significance, however none have been recorded within the vicinity of the disturbance footprint.	Desktop Biodiversity Assessment- Appendix 9
Step 3: Will you be using water from bores or other sources for the operation?	No	Water related matters on mineral titles are no longer exempt from the <i>Water Act 1992</i> . Please consult with DEPWS Water Resources and/or familiarise yourself with the <i>Water Act</i> to ensure compliance under this Act when undertaking exploration activities.	N/A Bores will not be used. Water will be carted in if needed.

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	Refer to the NTEPA Environmental Factors and Objectives Guideline. Low impact drilling program.
Step 5: Are there Aboriginal sacred sites in the Project area?	No	There are no Registered Sacred Sites, however there are Restricted Works Areas. Charger Metals have obtained An Abstract of Records over the Project Area. Please see Appendix 1. Further viewing of previous certificates over the area showed that conditions have been imposed on previous operators. Charger Metals have decided to proceed with obtaining an AAPA Authority Certificate. An Application for an Authority Certificate was lodged on 16 March 2022. Charger will follow conditions in the Authority Certificate obtained from the AAPA. Any DITT approved works that become restricted from the AAPA Authority Certificate results will not be conducted.

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ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
<p>Step 6: Are there archaeological and heritage sites in the Project area?</p>	Yes	<p>A Historical and Archaeological search was provided by the Heritage Branch of the Department of Territory Families, Housing and Communities (DTFHC) in March 2022. 3 known site were identified in the area. These are located along an existing road. These will not be impacted on. Map and information attached at Appendix 3.</p> <p>A search of the NT Heritage Register was conducted in March 2022. Nil Heritage results were found within the proposed works area. Results found in Appendix 2.</p>

Section 3 – Amendments

New MMP- N/A

Section	Amendment
Section 1 – Project Details	Update of mining activities and mining schedule
Section 4 – Activities Proposed for this MMP	Update of Drilling activities and track information.

Section 4 – Activities Proposed for this MMP only

Provide relevant EL numbers

Mining Interests (i.e. titles)	EL30897
Number and type of proposed exploration drill holes	157 AC Drillholes 141 RC Drillholes 20 Diamond holes
Maximum depth of proposed holes (m)	Aircore (AC) holes will be drilled to blade refusal (about 50m). The maximum depth of the RC drill holes is approximately 180 metres. The maximum depth of Diamond holes is approximately 400 metres.
Number and size of drill pads to be cleared (Length: m x Width: m)	157 AC- 10 m X 15 m- 2.355 Ha 141 RC- 10 m X 20 m- 2.82 Ha 20 Diamond- 10 m X 20 m- 0.4 Ha
Total area of drill pads to be cleared (ha)	3.22 Ha
Number of proposed water bores	Nil
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	Nil
Volume to backfill costeans (Length: m x Width: m x Depth: m)	Nil
Number of bulk sample pits	Nil
Volume to backfill bulk sample pits (Length: m x Width: m x Depth: m)	Nil
Bulk sample pits approved under <i>Mineral Titles Act</i> ? (Y or N). If Yes provide approval	N/A
Line/track clearing: (length m x width m)	16.4 km X 0.004 km

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Mining Interests (i.e. titles)	EL30897
Area of proposed line/track clearing (ha)	6.56 Ha
Camp area to be cleared (ha)	Nil
Camp Infrastructure (i.e. demountable, tents) Please provide a complete list with measurements as required in the security calculation	Nil
Other	Nil
Total proposed area of disturbance (ha)	9.78 Ha

Section 5 – Previous Disturbance (for existing Authorisations only)

The 'Disturbance Tracking' spreadsheet will be completed and attached to subsequent MMPs.

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	✓	Blade-up approach for clearing will be used (i.e. no windrows, leave root stock and topsoil)
6.2	✓	Significant vegetation will be avoided during clearing (i.e. large trees, specimens providing habitat or food sources, riparian vegetation, and threatened species)
6.3	✓	Vegetation clearing during, and immediately after rainfall events, will be avoided
6.4	✓	Vegetation clearing will be kept to the minimum required to safely traverse vehicles and drill rigs along tracks and drill pads
6.5	✓	Where blade-up techniques cannot be employed, topsoil and vegetation will be stockpiled appropriately for rehabilitation purposes
6.6	✓	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	✓	Sumps will be lined or tanks of appropriate size to contain water, sediment and drilling fluids encountered during drilling, will be used
6.8	✓	Sumps, drill holes, and fuel stores will be located away from environmentally significant areas and water courses
6.9	✓	Excavations (sumps, costeans and pits) will be appropriately ramped to allow fauna egress
6.10	✓	Drill holes will be securely capped immediately after drilling
6.11	✓	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	✓	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	✓	Hazardous substances (including hydrocarbons) will be stored and handled in accordance with relevant Australian Standards
6.14	✓	Hydrocarbons will be stored in lined and bunded areas
6.15	✓	Waste will be stored securely while on-site to minimise windblown rubbish and access by feral animals
6.16	✓	Waste will be removed off-site and disposed of at an appropriate waste management facility
6.17	✓	All environmental incidents will be reported to the Department in accordance with Section 29 of the <i>Mining Management Act</i> .
6.18	✓	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	✓	Radioactive/NORM drill cuttings will be managed to avoid radiation related issues on site.
6.20	✓	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	✓	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	✓	Drill holes encountering multiple or confined aquifers will be grouted with concrete.
7.3	✓	Drill samples/spoil will be returned down drill holes, buried in sumps, or removed from site.
7.4	✓	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site.
7.5	✓	Cut and fill drill pads will be re-contoured to be consistent with the surrounding terrain.
7.6	✓	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	✓	Tracks will be rehabilitated, including pushing in all windrows, unless otherwise agreed in writing by the land holder or appropriate third party.
7.8	✓	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur.
7.10	✓	Access through watercourses will be removed and banks restored.
7.11	✓	All previously disturbed areas will be stable, with no evidence of active soil erosion.
7.12	✓	All excavations will be backfilled within 6 months of their completion.
7.13	✓	All water bores will be decommissioned unless otherwise agreed in writing by the land holder or appropriate third party.
7.14	✓	All rubbish and infrastructure will be removed from site.
7.15	✓	Topsoil will be replaced and vegetation re-established.
7.16	✓	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be rehabilitated or removed from site.
7.17	✓	Monitoring will be undertaken following the wet season or a significant rainfall event.

Justification and alternative management measures:

Section 8 – Required Attachments

8.1	✓	Initial Application for Authorisation or variation of Authorisation (only if details on the form have subsequently changed).
8.2	✓	Nomination of Operator Form, where required
8.3	✓	Security Calculation Spreadsheet
8.4	N/A	Evidence of Land Access Agreement if operating on an Exploration Licence (EL) on Pastoral Lease (e.g. two-ways exchange of email)
8.5	N/A	Disturbance tracking spreadsheet (for existing Authorisations)
8.6	✓	Spreadsheet with coordinates of proposed drill holes or polygons of target areas
8.7	✓	KML/shape files/track logs of proposed tracks, camp sites and proposed drill holes or polygons of target areas
8.8	✓	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	N/A	Radiation Management Plan (if applicable)
8.12	✓	Document(s) being appended in relation to Section 2 (if any): <ul style="list-style-type: none"> - Appendix 1 AAPA Abstract of Records & Authority Certificate Application - Appendix 2 Heritage Register Results - Appendix 3 Historic and Archaeological Results - Appendix 9 Environmental Likelihood Assessment