

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
---	-------

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

Operator Name Use ASIC-ABR registered name (if a company), or name of the applicant	Lithium Plus Minerals Ltd
---	---------------------------

Operator ABN and ACN numbers	ABN 88 653 574 219
-------------------------------------	--------------------

Location and Access Details Include brief description of the location, access details, and distance to nearest town or community	The project area is in the vicinity of Observation Hill and Kangaroo Flats areas of the Bynoe Region. Access to the project area from Darwin is via the Stuart Highway, then westwards via the Cox Peninsula Road to Observation Hill toward EL31133 and via Fog Bay Road (Dundee Road) to Charlotte River toward EL31091. Access across the MMP areas is primarily through bush tracks within.
--	---

Target Commodity Details Include target mineral commodities (i.e. gold, copper etc.)	Spodumene
--	-----------

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.	<p>EL31133 - 45 RC drill holes x 250m max planned depth (max total 11,250m) plus 75 aircore or RAB holes x 50m max planned depth (max total 3,750m). Aircore/RAB holes will be done on ~4km of new track.</p> <p>EL31091 – 8 Diamond drill holes x 300m max planned depth (max total 2,400m), 40 RC drill holes x 250m max planned depth (max total 10,000m) and 50 aircore or RAB holes x 50m max planned depth (max total 2,500m). Aircore/RAB holes will be done on ~2.5km of new track.</p> <p>Drilling is planned to occur within work area polygons provided.</p>
---	---

Mining Management Exploration Activities

Proposed Schedule Include start and finish dates of ground disturbing work	Drilling is planned to be completed during the dry season of 2022. EL31133 – May to August 2022; and EL31091 – August to October 2022 (+/- subject to rig and field crew availability.)
--	---

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
EL31133	Lithium Plus Minerals Ltd	18/09/2022	Vacant Crown land – owned by NT Government – Hundred of Parsons (605) – Parcel 1
EL31133	Lithium Plus Minerals Ltd	18/09/2022	Vacant Crown land - owned by NT Government - Hundred of Milne (510) – Parcel 157
EL31133	Lithium Plus Minerals Ltd	18/09/2022	Vacant Crown land – owned by NT Government –Hundred of Hughes (372) – Parcel 2746
EL31091	Lithium Plus Minerals Ltd	24/08/2022	Vacant Crown land – owned by NT Government –Hundred of Hughes (372) – Parcel 2746
EL31091	Lithium Plus Minerals Ltd	24/08/2022	Crown Lease Perpetual 862 – owned by NT Land Corporation – NT Portion 3283
EL31091	Lithium Plus Minerals Ltd	24/08/2022	Freehold – owned by David John Suter as Trustee for Suter Enterprises Trust - Hundred of Hughes (372) – Parcel 2749
EL31091	Lithium Plus Minerals Ltd	24/08/2022	Freehold – Bryce William Fardell and Danald Louis Honeysett (half shares) - Hundred of Hughes (372) – Parcel 2513
EL31091	Lithium Plus Minerals Ltd	24/08/2022	Freehold – owned by John Ralph Connolly and Aisla Fay Connolly - Hundred of Hughes (372) – Parcel 2511
EL31091	Lithium Plus Minerals Ltd	24/08/2022	Freehold – owned by Daniel Le Mesurier - Hundred of Hughes (372) – Parcel 2512

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	Mr Bin Guo
Exploration Geologist	Dr Bryce Healy
Environmental Manager	Mr Bin Guo

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 <small>(e.g. evidence of consultation with DEPWS and/or management plan where required).</small>
<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>The Operator must assess the likelihood of threatened species or their habitats occurring at or near the site. If the likelihood is high, then a “Significant Impact Assessment” must be undertaken and appended to this document.</p>	<p>A Desktop Biodiversity Assessment of the licence areas of EL31133 and EL31091 was undertaken by a local ecologist in April 2022 (Attachment A-1).</p> <p>Threatened flora and fauna species recorded within 20km of the licences and contained within the EPBC Act Protected Matters Search Tool were included in a likelihood of occurrence assessment, and an assessment of the potential general risks to biodiversity in relation to proposed works.</p> <p>Recommendations to avoid or reduce impacts to sensitive /significant vegetation and threatened species that may exist in the proposed work areas are summarised below. The summary should be read in conjunction with the full assessment.</p> <p>Recommendations have also been incorporated into the Operator’s induction documentation and the site policy and procedures</p>

Mining Management Exploration Activities

			<p><u>1. Sensitive / significant vegetation</u></p> <p>a) Sandsheet heath habitat type (above, and detailed in Attachment A-2) has potential to exist within parts of the work areas within EL31133 and may contain areas suitable for two threatened flora Bladderwort <i>Utricularia dunstaniae</i> and <i>Utricularia singeriana</i>), and one threatened fauna species, the Howard River Toadlet.</p> <p>Work areas will be reviewed for the potential of sandsheet heath and if identified, those areas are to be buffered (max 250m) and avoided, as per DEPWS NT Land Clearing Guidelines p46 (Attachment A-3).</p> <p>b) Vegetation containing large trees with hollows suitable for fauna occur within the vicinity of proposed work areas (<i>Eucalyptus miniata</i> and <i>E. tetradonta</i> communities as a minimum of five or more stems greater than 50 cm diameter per hectare and/or 30 or more stems greater than 40 cm diameter per hectare. <i>E. miniata</i> and <i>E. tetradonta</i> communities) are to be avoided.</p> <p><u>2. Threatened species likely to, or possibly, occurring within the work areas, include:</u></p> <p>Darwin Cycad (<i>Cycas armstrongii</i>) within EL31091. The work area will be reviewed to determine the density of adult cycads (stems >50cm high). High/very high density cycad areas (400+ stems /ha) will be avoided. The intention is to avoid disturbance of any adult cycads where possible.</p> <p>Darwin Cycad (<i>Cycas armstrongii</i>) (Attachment A-4)</p> <p><i>Stylidium</i> (<i>Stylidium ensatum</i>) and Bladderwort (<i>Utricularia dunstaniae</i> and (<i>Utricularia singeriana</i>) may occur within the proposed work areas of EL31133. An assessment of habitat suitability (including vegetation types, soil type and moisture) should be conducted prior to any clearing works. If suitable habitat appears to occur, then a field survey for individuals of the species may need to be undertaken. Alternatively, the area will need to be avoided.</p> <p><i>Stylidium ensatum</i></p>
--	--	--	--

Mining Management Exploration Activities

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>Bladderwort (<i>Utricularia dunstaniae</i>)</p> <p>Bladderwort (<i>Utricularia singeriana</i>)</p> <p>Howard River Toadlet (Attachment A-5)</p> <p>Note: Bladderwort (<i>Utricularia dunstaniae</i> and (<i>Utricularia singeriana</i>) and Howard River Toadlet are likely to occur within sandheath sheet habitat.</p> <p>Other threatened flora and fauna species likely to, or possibly occurring within 20km of the licence areas are considered unlikely to require specific mitigation measures or on ground surveys given the scale of proposed activity and the application of current legislation and standard management principles outlined in this application.</p>

Mining Management Exploration Activities

<p>Step 2: Are there any known declared weeds within the proposed work area?</p>	<p>YES</p>	<p>Seek advice from DEPWS – Weed Management Branch to determine if weeds are present on site and ensure management measures are appropriate for the level of activity proposed and attach a Weed Management Plan (if required).</p>	<p>The Desktop Assessment of EL31091 and EL31133 details 21 declared weed species within 20 km of the licence areas, six of which are Weeds of National Significance. These are listed below:</p> <p><i>Andropogon gayanus</i> Gamba Grass, Grass (B, won) <i>Annona glabra</i> Pond Apple Tree (A won) <i>Azadirachta indica</i> Azadirachta, Neem, Tree, Neem Forb (B) <i>Barleria prionitis</i> Barleria, Shrub (A) <i>Calotropis procera</i>, Giant Calotrope, Shrub (B) <i>Cenchrus polystachios</i>, Perennial Mission Grass, Grass (B) <i>Hyptis capitata</i>, Hyptis Forb (B) <i>Jatropha curcus</i>, Physic Nut, Shrub (A) <i>Jatropha gossypifolia</i>, Bellyache Bush, Shrub (A) <i>Lantana camara</i>, Lantana Shrub (B) <i>Mesosphaerum suaveolens</i>, Hyptis, Hyptis, Mint Weed, Forb (B) <i>Mimosa pigra</i>, Mimosa, Shrub (A/B, won) <i>Salvinia molesta</i>, Salvinia, Aquatic fern (B, won) <i>Senna alata</i>, Senna Shrub, (B) <i>Senna obtusifolia</i>, Senna Shrub (B) <i>Senna occidentalis</i>, Senna Shrub (B) <i>Sida acuta</i> Sida, Spiny-head Sida, Shrub (B) <i>Sida cordifolia</i> Sida, Flannel Weed, Shrub (B) <i>Sida rhombifolia</i> Sida, Paddy Lucerne, Common Sida, Queensland Hemp, Jelly Leaf, Shrub (B) <i>Stachytarpheta</i>, spp. Snakeweed Shrub (B) <i>Themeda quadrivalvis</i>, Grader Grass, Grass (B)</p> <p>The weeds noted in the plan can be identified using the attached NT Weed Management Handbook, also at the following link - https://nt.gov.au/_data/assets/pdf_file/0004/233833/nt-weed-management-handbook.pdf (Attachment B)</p> <p>Prevention of the spread of weeds during the works program will be managed through application of the following measures as stipulated by the NTG, and covered within the Operator’s site and field induction manuals:</p> <ul style="list-style-type: none"> • talk to landholders about weed management before beginning work • ensure site operations staff can identify relevant weeds • inspect and clean weed seeds from all equipment before beginning work
---	------------	---	--

Mining Management Exploration Activities

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>
			<ul style="list-style-type: none"> • if vehicles pass through weed infestations ensure they are cleaned before moving them to weed-free areas • clean machinery, vehicles and equipment before moving them between sites or across property lines • clean down in areas that are flat, easy to access, and that don't drain into a waterway • record the location of clean down areas • check for weed growth on corridors and clean down areas after the first rains and control weeds before they establish • minimise the disturbance to soils and native vegetation • work to control weeds with government agencies and landholders, particularly those with adjoining or overlapping corridors. <p>Site personnel will take care <u>NOT</u> to:</p> <ul style="list-style-type: none"> • drive through weeds • import or export contaminated material including sand, gravel, rock and fill.
<p>Step 3: Will you be using water from bores or other sources for the operation?</p>	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.	Water will be transported to site.

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	<p>Refer to the NTEPA Environmental Factors and Objectives Guideline.</p>
<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 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>Information requests were made to the AAPA in March and April 2022 regarding Aboriginal sacred sites within EL31091 and EL31133. No registered or recorded sites were located within the licences. Details of previous work clearances in the vicinity were also reviewed and were not applicable to the proposed activity. Background documentation is restricted and therefore cannot be shared or published (Attachment C).</p>
<p>Step 6: Are there archaeological and heritage sites in the Project area?</p>	YES	<p>Heritage and archaeology sites are protected in the NT. NT Department of Territory Families, Housing and Communities (DTFHC) administers the <i>Heritage Act 2011</i>.</p> <p>Seek advice in relation to protection of heritage and archaeological sites.</p> <p>The Heritage Branch of DTFHC was consulted to identify known sites within EL31133 and EL31091. (Attachment D) The request for information returned advice of heritage sites located within the licence areas. All recorded sites are well away from areas of proposed works. Work areas will be reviewed before commencement and if conditions are favourable for potential sites, the areas will be avoided. If sites become known during the program, work will stop and the site will be reported to the Heritage Branch.</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

Delete or add rows as required

Section 4 – Activities Proposed for this MMP only

Provide relevant EL numbers

Mining Interests (i.e. titles)	EL31133	EL31091	EL	EL
Number and type of proposed exploration drill holes (planned)	RC – 45 AC/RAB – 75	DD – 8 RC – 40 AC/RAB – 50		
Maximum (planned) depth of proposed holes (m)	RC – 250m AC/RAB – 50m	DD – 300m RC – 250m AC/RAB – 50m		
Number (planned) and size of drill pads to be cleared (Length: m x Width: m)	45 pads, length 20m x width 20m	48 pads, length 20m x width 20m		
Total (planned) area of drill pads to be cleared (ha)	1.8ha	1.92ha		
Number of proposed water bores	N/A	N/A		
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	Yes, ground water could occur in all holes	Yes, ground water could occur in all holes		
Number of costeans	N/A	N/A		
Volume to backfill costeans (Length: m x Width: m x Depth: m)	N/A	N/A		
Number of bulk sample pits	N/A	N/A		
Volume to backfill bulk sample pits (Length: m x Width: m x Depth: m)	N/A	N/A		
Bulk sample pits approved under <i>Mineral Titles Act</i> ? (Y or N). If Yes provide approval	N/A	N/A		
Line/track clearing planned (length m x width m)	4km length x 4m width	2.5km length x 4m width		

Mining Management Exploration Activities

Mining Interests (i.e. titles)	EL31133	EL31091	EL	EL
Area of proposed line/track clearing planned (ha)	1.6ha	1ha		
Camp area to be cleared (ha)	N/A	N/A		
Camp Infrastructure (i.e. demountable, tents) Please provide a complete list with measurements as required in the security calculation	N/A	N/A		
Other	N/A	N/A		
Total proposed area of disturbance (ha)	3.4ha	2.92ha		

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	✓	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.

Mining Management Exploration Activities

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	✗	Evidence of Land Access Agreement if operating on an Exploration Licence (EL) on Pastoral Lease (e.g. two-ways exchange of email) Not required. Proposed works are planned to be accessed via and undertaken on vacant Crown land.
8.5	✗	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	✗	Radiation Management Plan (if applicable)
8.12	✓	Document(s) being appended in relation to Section 2 (if any): <ul style="list-style-type: none"> - Desktop Biodiversity Assessment, EL31133 and EL31091, Bynoe NT, April 2022 - DENR Sensitive Vegetation Sandsheet Heath Information Sheet - DEPWS Land Clearing Guidelines - DEPWS Cycas Armstrongii Information Sheet - DEPWS Howard River Toadlet - NTG Weed Management Handbook - AAPA Background Information (Restricted) - Heritage Branch of DTFHC Consultations - Induction Manuals