

# 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

<b>Project Name</b> Provide new or existing project name	Bynoe (V4)
<b>Authorisation Number</b> Insert existing authorisation number, where applicable	1121
<b>Operator Name</b> Use ASIC-ABR registered name (if a company), or name of the applicant	Lithium Plus Minerals Ltd (ASX:LPM)
<b>Operator ABN and ACN numbers</b>	ABN 88 653 574 219
<b>Location and Access Details</b> Include brief description of the location, access details, and distance to nearest town or community	The Bynoe Project is located southwest of Darwin in the Charlotte and Bynoe Regions and is accessible via Cox Peninsula Road, Fog Bay Road, and existing tracks.  1:100K Mapsheet/s: Bynoe 5072
<b>Target Commodity Details</b> Include target mineral commodities (i.e. gold, copper etc.)	Spodumene
<b>Mining Activities</b> 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.	Mining activities for which approval is sought includes the installation of 6 bores for environmental monitoring and investigation purposes. Bores are to be located on existing clear sites and will be accessed via existing tracks.  Previously approved and ongoing works at the Bynoe Project, include RC, Aircore/RAB and DD drilling programs; track clearing; and costean work under Authorisation No. 1121-01, V1, V2 and V3.

## Mining Management Exploration Activities

<p><b>Proposed Schedule</b> Include start and finish dates of ground disturbing work</p>	<p>Bore work will commence as soon as approval is received and as weather permits (subject to bore work permit approval). Bores are to be completed in 2023 (will continue to be completed in 2024 if required). Water monitoring and investigation activities will be ongoing for the foreseeable future. Previously approved works are ongoing until completion in ~2024/2025 field seasons.</p>
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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
EL31091	Lithium Plus Minerals Ltd	28/04/2024	<p><b>Vacant Crown land</b> – owned by NT Government – Hundred of Hughes (372) Parcel 2746</p> <p>Crown Lease Perpetual 862 – owned by NT Land Corporation – NT Portion 3283</p> <p>Freehold land – including land owned by David John Suter as Trustee for Suter Enterprises Trust - Hundred of Hughes (372) – Parcel 2749 Bryce William Fardell and Danald Louis Honeysett (half shares) - Hundred of Hughes (372) – Parcel 2513 John Ralph Connolly and Aisla Fay Connolly - Hundred of Hughes (372) – Parcel 2511 Daniel Le Mesurier - Hundred of Hughes (372) – Parcel 2512</p>
EL31092	Lithium Plus Minerals Ltd	28/04/2024	<p><b>Vacant Crown land</b> – owned by NT Government – Hundred of Parsons (605) Parcel 1</p>
EL31133	Lithium Plus Minerals Ltd	18/09/2024	<p><b>Vacant Crown land</b> – owned by NT Government – including parcels: Hundred of Parsons (605) Parcel 1 Hundred of Hughes (372) Parcel 2746 Hundred of Milne (510) Parcel 157</p>

Please note a Land Access Agreement (LAA) is required for disturbance proposed on Pastoral Properties on Exploration Licence (EL). *Note: Access to greyed land parcels is not required for the proposed works.*

## Organisational Structure

Position Title	Name
Managing Director	<b>Mr Bin Guo</b>
Exploration Manager	<b>Dr Bryce Healy</b>
Environmental Manager	<b>Mr Bin Guo</b>

## Mining Management Exploration Activities

### 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><b>Step 1:</b> Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?</p>	YES	<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, to assess the likely occurrence of threatened species or their habitats occurring within 20km of the title area was undertaken by a suitably qualified and experienced professional in 2022 (Attachment A). The Assessment identifies potential impacts of proposed works and outlines measures to manage/mitigate impacts through the following means:</p> <ul style="list-style-type: none"> <li>• the application of stream buffers;</li> <li>• avoidance of and appropriately buffered habitats such as vegetation containing large trees with hollows suitable for fauna;</li> <li>• application of buffers and avoidance of areas of sandsheet heath habitat type if present;</li> <li>• avoidance of high densities of Darwin Cycad (<i>Cycas armstrongii</i>) and areas of potential occurrence of <i>Typhonium praetermissum</i>, <i>Stylidium ensatum</i> and <i>Atalaya brevialata</i> if present.</li> </ul> <p>The bore work falls within the existing approved exploration drilling footprint and is considered an extension of previously approved and ongoing works.</p> <p>This summary should be read in conjunction with the full desktop assessment, and relevant detail highlighted to site personnel during environmental inductions.</p>

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<p><b>Step 2:</b> 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 Biodiversity Assessment (Attachment A) indicates records of declared weeds, including Weeds of National Significance as tabled are present within 20km of the Project area.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="text-align: left;">Scientific Name</th> <th style="text-align: left;">Common Name</th> <th style="text-align: left;">Growth Form</th> <th style="text-align: left;">Declaration under WM Act</th> <th style="text-align: left;">Weed of National Significance</th> </tr> </thead> <tbody> <tr> <td><i>Andropogon gayanus</i></td> <td>Gamba Grass</td> <td>Grass</td> <td>B</td> 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<td>Snakeweed</td> <td>Shrub</td> <td>B</td> <td>No</td> </tr> <tr> <td><i>Themeda quadrivalvis</i></td> <td>Grader Grass</td> <td>Grass</td> <td>B</td> <td>No</td> </tr> </tbody> </table> <p>Measures to prevent weed spread when undertaking exploration works will be adopted as outlined by the NTG including:</p> <ul style="list-style-type: none"> <li>• ensure site operations staff can identify relevant weeds;</li> <li>• inspect and clean weed seeds from all equipment before beginning work;</li> <li>• if vehicles pass through weed infestations ensure they are cleaned before moving them to weed-free areas;</li> <li>• clean machinery, vehicles and equipment before moving them between sites or across property lines;</li> <li>• clean down in areas that are flat, easy to access, and that don't drain into a waterway;</li> <li>• record the location of clean down areas;</li> </ul>	Scientific Name	Common Name	Growth Form	Declaration under WM Act	Weed of National Significance	<i>Andropogon gayanus</i>	Gamba Grass	Grass	B	Yes	<i>Annona glabra</i>	Pond Apple	Tree	A	Yes	<i>Azadirachta indica</i>	Azadirachta, Neem Tree, Neem	Forb	B	No	<i>Barleria prionitis</i>	Barleria	Shrub	A	No	<i>Calotropis procera</i>	Giant Calotrope	Shrub	B	No	<i>Cenchrus polystachios</i>	Perennial Mission Grass	Grass	B	B	<i>Hyptis capitata</i>	Hyptis	Forb	B	No	<i>Jatropha curcus</i>	Physic Nut	Shrub	A	No	<i>Jatropha gossypifolia</i>	Bellyache Bush	Shrub	A	Yes	<i>Lantana camara</i>	Lantana	Shrub	B	Yes	<i>Mesosphaerum suaveolens</i>	Hyptis, Hyptis, Mint Weed	Forb	B	No	<i>Mimosa pigra</i>	Mimosa	Shrub	A/B	Yes	<i>Salvinia molesta</i>	Salvinia	Aquatic fern	B	No	<i>Senna alata</i>	Senna	Shrub	B	No	<i>Senna obtusifolia</i>	Senna	Shrub	B	No	<i>Senna occidentalis</i>	Senna	Shrub	B	No	<i>Sida acuta</i>	Sida, Spiny-head Sida	Shrub	B	No	<i>Sida cordifolia</i>	Sida, Flannel Weed	Shrub	B	No	<i>Sida rhombifolia</i>	Sida, Paddy Lucerne, Common Sida, Queensland Hemp, Jelly Leaf	Shrub	B	No	<i>Stachytarpheta 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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>
			<ul style="list-style-type: none"> <li>• check for weed growth on corridors and clean down areas after the first rains and control weeds before they establish;</li> <li>• minimise the disturbance to soils and native vegetation;</li> <li>• work to control weeds with government agencies and landholders, particularly those with adjoining or overlapping corridors.</li> </ul> <p><b>Site personnel will take care NOT to:</b></p> <ul style="list-style-type: none"> <li>• drive through weeds;</li> <li>• import or export contaminated material including sand, gravel, rock and fill.</li> </ul> <p><b>Further resources:</b> NT Weed Management Handbook at the following link - <a href="https://nt.gov.au/environment/weeds/how-to-manage-weeds/weed-management-handbook">https://nt.gov.au/environment/weeds/how-to-manage-weeds/weed-management-handbook</a> A link to the NTG Vehicle Hygiene Brochure also follows - <a href="https://nt.gov.au/data/assets/pdf_file/0009/972432/vehicle-hygiene-brochure-a4-web.pdf">https://nt.gov.au/data/assets/pdf_file/0009/972432/vehicle-hygiene-brochure-a4-web.pdf</a></p>
<p><b>Step 3:</b> Will you be using water from bores or other sources for the operation?</p>	NO	<p>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.</p>	<p>For ongoing (previously approved) exploration drilling and other works water will be transported to site.</p> <p>The bores proposed in this MMP are for <b>environmental monitoring and investigation purposes only</b>. A bore work permit application was submitted for approval to Water Resources Division, DEPWS, in October 2023. On enquiry, DEPWS advised that a water extraction licence will not be required for the purposes of environmental monitoring and inspection activities.</p>

Environmental assessment and cultural considerations

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
<p><b>Step 4:</b> 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><b>Step 5:</b> 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>An information request was made to the AAPA in 2022 regarding Aboriginal sacred sites within EL31091. No registered or recorded sites were revealed within the title area. Details of a previous work clearance in the vicinity was also reviewed and was not applicable to the proposed activity (Attachment B).</p>
<p><b>Step 6:</b> 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 in 2022 to identify known sites within EL31091 (Attachment C) (refer 8.7 and 8.8). The request for information returned advice of heritage sites located within the title area. All recorded sites are well away from areas of proposed activities.</p> <p>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.

## Mining Management Exploration Activities

Section	Amendment
1. Project Details	Amended to reflect location of broader Bynoe Project area (EL31091, EL31092 and EL31133).
1. Mining Activities	Amended to include 6 x new monitoring bores within EL31091, and to confirm previously approved works under 1121-01, V1, V2 and V3 are still ongoing.
1. Proposed Schedule	Amended proposed completion timeframe.
1. Mining Interest and Land ownership	Amended to include all three titles the subject of the Bynoe Project and previously approved and ongoing activities.
2. Environmental Considerations (Step 1)	Amended to include biodiversity assessment relevant to activities proposed in this MMP.
2. Environmental Considerations (Step 2)	Amended to include weeds identified in the biodiversity assessment with the potential to occur in the Project area relevant to activities proposed in this MMP.
2. Environmental Considerations (Step 3)	Amended to include additional information about the proposed bores and to confirm that the bores are for environmental monitoring purposes only.
2. Environmental Considerations (Step 5)	Amended to include information relating to the request for sacred site information from AAPA relevant to the proposed works in this MMP.
2. Environmental Considerations (Step 6)	Amended to include information relating to the request for heritage and archaeological information from the Heritage Branch of DTFHC, relevant to the proposed works in this MMP.

Delete or add rows as required

**Section 4 – Activities Proposed for this MMP only**

Provide relevant EL numbers

<b>New / Previously Approved</b>	<b>New</b>	<b>Previously Approved</b>	<b>Previously Approved</b>	<b>Previously Approved</b>
Mining Interests (i.e. titles)	EL31091 A1121-01-V4	EL31091 A1121-01	EL31133 A1121-01	EL31092 A1121-01-V1 A1121-01-V2 A1121-01-V3
Number and type of proposed exploration drill holes	N/A	DD – 8 RC – 40 AC/RAB – 50	RC – 45 AC/RAB – 75	RC – 34 (V1) RAB – 120 (V3) RC – 40 (V3) DD – 10 (V3)
Maximum depth of proposed holes (m)	N/A	DD – 300m RC – 250m AC/RAB – 50m	RC – 250m AC/RAB – 50m	RC – 180m (V1) RAB - 50m (V3) RC – 250m (V3) DD – 450m (V3)
Number and size of drill pads to be cleared (Length: m x Width: m)	N/A	48 pads, length 20m x width 20m	45 pads, length 20m x width 20m	34 pads, length 20m x 20m (V1) 50 pads, length 25m x width 25m (V3)
Total area of drill pads to be cleared (ha) – (20m x 20m, located on existing clear sites)	N/A	<b>1.92ha</b>	<b>1.8ha</b>	<b>1.088ha (V1)</b> (1.36ha less drill pad overlap of 20m x 4m to a total of 0.272ha) <b>3.125ha (V3)</b>
Number of proposed <b>monitoring</b> bores	6	N/A	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 holes	Yes, ground water could occur in holes	Yes, ground water could occur in holes	Yes, ground water could occur in holes
Number of costeans	N/A	N/A	N/A	Total length 1000m <b>0.1ha (V3)</b>
Volume to backfill costeans (Length: m x Width: m x Depth: m)	N/A	N/A	N/A	1000m <sup>3</sup> (length 1000m x width 1m x depth 1m) (V3)



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New / Previously Approved	New	Previously Approved	Previously Approved	Previously Approved
Number of bulk sample pits	N/A	N/A	N/A	N/A
Volume to backfill bulk sample pits (Length: m x Width: m x Depth: m)	N/A	N/A	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	N/A	N/A
Line/track clearing: (length m x width m)	N/A	2.5km length x 4m width	4km length x 4m width	(1630m x 4m) (600m x 4m) (3km x 4m)
Area of proposed line/track clearing (ha)	N/A	1ha	1.6ha	0.652ha (V1) 0.24ha (V2) 1.2ha (V3)
Camp area to be cleared (ha)	N/A	N/A	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	N/A	N/A
Other	N/A	N/A	N/A	N/A
Total proposed area of disturbance (ha)	<b>0.0ha</b>	<b>2.92ha</b>	<b>3.4ha</b>	<b>6.405ha</b>

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	X	Initial Application for Authorisation or variation of Authorisation (only if details on the form have subsequently changed).
8.2	X	Nomination of Operator Form, where required
8.3	✓	Security Calculation Spreadsheet
8.4	X	Evidence of Land Access Agreement if operating on an Exploration Licence (EL) on Pastoral Lease (e.g. two-ways exchange of email)
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		<p>Map(s) of the work area(s) showing:</p> <ol style="list-style-type: none"> <li>1. title boundaries and title numbers</li> <li>2. current and proposed drill holes, or polygons of target areas</li> <li>3. current and proposed tracks</li> <li>4. heritage sites or significant environmental areas</li> </ol>
8.10	X	Radiation Management Plan (if applicable)
8.12		<p>Document(s) being appended in relation to Section 2 (if any):</p> <ul style="list-style-type: none"> <li>- Attachment A – Desktop Biodiversity Assessment</li> <li>- Attachment B – Sacred Sites</li> <li>- Attachment C – Heritage Sites</li> </ul>