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 <u>Northern Territory Government website</u>.

Section 1 - Project Details

Project Name Provide new or existing project name	Bynoe (Perseverence/Jewellers/Jewellers Extended)
Authorisation Number Insert existing authorisation number, where applicable	1121
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 proposed works are located in the Bynoe locality, north of Cox Peninsula Road, approximately 25km north-west of Berry Springs. Access is gained via an existing track (1121-01 V1 and 1121-01 V2).
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.	Drilling of 120 shallow RAB holes, 40 RC holes, 10 DD holes, and 1000m of costeaning is planned to occur within the work area polygon provided. (RC holes may be combined with diamond tail if ground conditions require this.) 3km of new tracks will be required to complete the program.

ground disturbing work	Works are planned to occur during the 2023 field season, commencing on approval. Program timing will be extended should weather conditions or other occurrence result in program delays.
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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
EL31092	Lithium Plus Minerals Ltd	24/08/2024	Vacant Crown land – owned by NT Government – Hundred of Parsons (605) – Parcel 1

Organisational Structure

Position Title	Name
Managing Director	Bin Guo
Exploration Manager	Bryce Healy
Environmental Manager	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 (e.g. evidence of consultation with DEPWS and/or management plan where required).
Step 1: Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?	YES	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.	A Desktop Biodiversity Assessment, to assess the likely occurrence of threatened species occurring (within 20km) of the area of EL31092, was undertaken by a suitably qualified and experienced professional in August 2022 (Attachment A). The assessment outlines potential impacts of works proposed within EL31092 and management measures. Recommendations, in addition to the measures listed in Section 6 of this form, include: • the application of stream buffers; • the avoidance of and appropriately buffered habitats such as vegetation containing large trees with hollows suitable for fauna; • avoidance of high densities of Darwin Cycad (Cycas armstrongii) and areas of potential occurrence of Typhonium praetermissum, Stylidium ensatum and Atalaya brevialata. A species guide has been provided.
			Additional works specifically proposed in Section 1 – Mining Activities fall within the areas considered and further outlined by letter dated 27 October 2022, Desktop Biodiversity Assessment, Jewellers's prospect, EL31092, Bynoe, NT (Attachment A2). Attributes, constraints and recommendations relevant to the proposed works are summarised as follows: • works are located entirely within open woodland;

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).
			 works are situated further than 100m from the outer edge of riparian vegetation along the third order stream to the west of the proposed works, and at least 25m from the outer edge of a drainage depression as recommended in NT Government ("NTG") guidelines; species distribution modelling by the NTG indicate that proposed works are generally outside modelled habitat for the following threatened flora species: Typhonium praetermissum Stylidium ensatum Atalaya brevialata Helicteres macrothrix Ptychosperma macathurii significant vegetation including large trees or specimens providing habitat or fauna food sources should be avoided during clearing; high or very high densities of adult individuals of threatened flora species Cycas armstrongii should be avoided during clearing (refer Attachment A2, Table 2); This summary should be read in conjunction with the full desktop assessment. Relevant detail should be highlighted to site personnel during environmental inductions.

Step 2:

Are there any known declared weeds within the proposed work area?

YES

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).

Attachment A identifies the below tabled declared weeds that have a high number of records (>100) or are Weeds of National Environmental Significance (WONS), recorded within 20km of the Project area.

Scientific Name	Common Name	No. Record s within 20km	Growth Form	Declared Weed (NT)
Andropogon gayanus	Andropogon, Gamba Grass	241	Grass	A/B wons
Cenchrus polystachios	Perennial Mission Grass	283	Grass	В
Eichhornia crassipes	Eichhornia, Water Hyacinth	1	Forb	A wons
Jatropha gossypifolia	Jatropha, Belly Ache Bush, Bellyache Bush	24	Shrub	A/B wons
Lantana camara	Lantana	44	Shrub	B wons
Mimosa pigra	Mimosa	15	Shrub	A/B wons
Prosopis pallida	Prosopis, Mesquite, Algaroba	1	Tree	A wons
Salvinia molesta	Salvinia	3	Aquatic fern	B wons

The assessment reiterates NTG advice of measures specific to exploration activities to prevent the spread of weeds including:

- map locations and densities of declared weeds by carrying out a dedicated weed survey;
- 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;
- 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;

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).	
			 work to control weeds with government agencies and landholders, particularly those with adjoining or overlapping corridors. Site personnel will take care NOT to: drive through weeds; import or export contaminated material including sand, gravel, rock and fill. Weeds can be identified if necessary using the NT Weed Management Handbook at the following link - https://nt.gov.au/ data/assets/pdf file/0006/2 52168/weed-management-handbook.pdf. A link to the NTG Vehicle Hygiene Brochure also follows -	
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 Water Act 1992. Please consult with DEPWS Water Resources and/or familiarise yourself with the Water Act 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
Step 4: Is your project likely to have a significant impact on the environment?	NO	Refer to the NTEPA Environmental Factors and Objectives Guideline.

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
Step 5: Are there Aboriginal sacred sites in the Project area?	NO	Sacred Sites are protected under the NT Aboriginal Sacred Sites Act 1989 and administered by the Aboriginal Areas Protection Authority (AAPA). It is recommended that advice be sought from AAPA in relation to sacred site protection.
		Information requests were made to the AAPA in August 2022 regarding Aboriginal sacred sites within EL31092. No registered or recorded sites were located within the licence. 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 B).
Step 6:	YES	Heritage and archaeology sites are protected in the NT.
Are there archaeological and heritage sites		NT Department of Territory Families, Housing and Communities (DTFHC) administers the <i>Heritage Act 2011</i> .
in the Project area?		Seek advice in relation to protection of heritage and archaeological sites.
		The Heritage Branch of DTFHC was consulted to identify known archaeological or heritage sites within EL31092 (Attachment C). The enquiry identified a small number of previously recorded Aboriginal archaeological sites on the boundary of EL31092. No declared heritage places were identified. Aboriginal archaeological sites identified are situated more than 2km from proposed works. If any site becomes known during the program, work will stop and the site will be reported to the Heritage Branch.

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
Section 1 – Project Name	Delete (Jewellers/Jewellers Extended) Insert (Perseverence/Jewellers/Jewellers Extended)
Section 1 – Location and Access Details	Delete (1121-01 V1). A section of new track is required to reach the works site. Insert (1121-01 V1 & 1121-01 V2).
Section 1 - Mining Activities	Delete An access track measuring approximately 0.6km x 4m wide is proposed. Insert Drilling including 120 shallow RAB holes, 40 RC holes, 10 DD holes, and 1000m of costeaning is planned to occur within the work area polygon provided. (RC holes may be combined with diamond tail if ground conditions require this.) 3km of new tracks will be required to complete the program.
Section 1 – Proposed Schedule	Delete Works are planned to occur as soon as approval is received in November and December 2022. Program timing will be extended should weather conditions (or other occurrence) result in program delays. Insert Works are planned to occur during the 2023 field season, commencing on approval. Program timing will be extended should weather conditions or other occurrence result in program delays.
Section 2 – Operator Self- Assessment of the Environmental Risk - Environmental considerations Step1:	Delete Additional works specifically proposed in Section 1 – Mining Activities were considered and further outlined by letter dated 27 October 2022, Desktop Biodiversity Assessment, Jewellers's prospect, EL31092, Bynoe, NT (Attachment A2). Insert Additional works specifically proposed in Section 1 – Mining Activities fall within the areas considered and further outlined by letter dated 27 October 2022, Desktop Biodiversity Assessment, Jewellers's prospect, EL31092, Bynoe, NT (Attachment A2).

Section 4 – Activities Proposed for this MMP only

Provide relevant EL numbers

Mining Interests (i.e. titles)	EL31092	EL31091	EL31133	
Number and type of proposed exploration drill holes	RAB – 120 RC – 40 DD – 10	N/A	N/A	
Maximum depth of proposed holes (m)	RAB - 50m RC - 250m DD - 450m	N/A	N/A	
Number and size of drill pads to be cleared (Length: m x Width: m)	50 pads, length 25m x width 25m	N/A	N/A	
Total area of drill pads to be cleared (ha)	3.125ha	N/A	N/A	
Number of proposed water bores	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 all holes	N/A	N/A	
Number of costeans	Total length 1000m	N/A	N/A	
Volume to backfill costeans (Length: m x Width: m x Depth: m)	1000m3 (length 1000m x width 1m x depth 1m)	N/A	N/A	
Number of bulk sample pits	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	

Mining Interests (i.e. titles)	EL31092	EL31091	EL31133	
Bulk sample pits approved under <i>Mineral Titles Act</i> ? (Y or N). If Yes provide approval	N/A	N/A	N/A	
Line/track clearing: (length m x width m)	3km x 4m	N/A	N/A	
Area of proposed line/track clearing (ha)	1.2ha	N/A	N/A	
Camp area to be cleared (ha)	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	
Other	N/A	N/A	N/A	
Total proposed area of disturbance (ha)	4.325ha	0ha	0ha	

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 Mining Management Act.
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.

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.

Jus	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	N/A	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) N/A – 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: title boundaries and title numbers current and proposed drill holes, or polygons of target areas current and proposed tracks heritage sites or significant environmental areas environmental constraints 				
8.10	N/A	Radiation Management Plan (if applicable)				
8.12	√	 Document(s) being appended in relation to Section 2 (if any): Attachment A - Desktop Biodiversity Assessment for EL31092 Attachment A2 - Desktop Biodiversity Assessment, Jeweller's prospect, EL31092, Bynoe, NT Attachment B - AAPA extract for EL31092 Attachment C - Details of enquiry to Heritage Branch 				