

# 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	Allamber Project
---	------------------

<b>Authorisation Number</b> Insert existing authorisation number, where applicable	TBA
---	-----

<b>Operator Name</b> Use ASIC-ABR registered name (if a company), or name of the applicant	Kingsland Minerals Ltd
<b>Operator ABN and ACN numbers</b>	53 647 904 014/ 647 904 014

<b>Location and Access Details</b> Include brief description of the location, access details, and distance to nearest town or community	<p>The project area is located approximately 25 km north east of Pine Creek.</p> <p>Access to the project area from Pine Creek is via the Kakadu Highway, thence via existing tracks.</p> <p>The area of proposed work occurs wholly within the Mary River East Station Pastoral Lease.</p>
--	---

<b>Target Commodity Details</b> Include target mineral commodities (i.e. gold, copper etc.)	Uranium, copper and graphite
--	------------------------------

<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.	RC and Diamond core drilling
---	------------------------------

## Mining Management Exploration Activities

<b>Proposed Schedule</b> Include start and finish dates of ground disturbing work	April 2023 to July 2024
--	-------------------------

## 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
EL31960	Kingsland Minerals Limited	11/03/2025	Mary River East Station
EL32152	Kingsland Minerals Limited	22/10/2026	Mary River East Station
EL32418  This licence used as an entry only at this stage. Nil proposed disturbances in this MMP.	Kingsland Minerals Limited	21/04/2027	Mary River East Station Mary River East Station Ban Ban Springs Station

A Land Access Agreement (LAA) is located at Appendix 10. An updated LAA will be provided in due course.

## Organisational Structure

Position Title	Name
Managing Director and CEO	Richard Maddocks
Exploration Manager/ Geologist	Nick Revell
Radiation Safety Officer	Bruce Ryan

## 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><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>	<p>Yes</p>	<p>In July 2022, Connect Environmental prepared a Desktop Biodiversity Assessment over the project area. <b>In February 2023, this report was updated to include an assessment on additional area within the project.</b></p> <p><b>26</b> threatened fauna species have been recorded within 50 km of the lease area. The likelihood of these species being present in the project area range from unlikely, possible and likely. Kingsland will follow the mitigation recommendations in section 7.1 of the Desktop Biodiversity Assessment and work in accordance with the NT land clearing guidelines by avoiding large trees and dense vegetation. This will prevent the loss of, or damage to, nests or sheltering and roosting sites for these species.</p> <p>Four threatened flora species have been recorded within 50 km of the lease area. Kingsland will follow the mitigation recommendations in section 7.2 of the Desktop Biodiversity Assessment. Vegetation containing large trees with hollows suitable for fauna will be avoided. <b>This includes the recommended tree densities for Eucalyptus miniata and/or E. tetrodonta communities listed in section 7.2.</b></p> <p>Kingsland 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><b>Updated</b> Desktop Biodiversity Assessment in Appendix 9.</p>

## Mining Management Exploration Activities

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).
<b>Step 2:</b> Are there any known declared weeds within the proposed work area?	Yes	8 Weeds of National Environmental Significance are likely to occur within the project area. A Weed Management Plan is within the Desktop Biodiversity Assessment in Appendix 9. All employees and contractors will be required to familiarise with the weed management plan during a site induction and implement practical measures on site to prevent and manage weeds.	Desktop Biodiversity Assessment in Appendix 9.
<b>Step 3:</b> Will you be using water from bores or other sources for the operation?	Yes	An RC hole will be used to source water for diamond drilling. If a long term or permanent bore is constructed a Bore Works Permit will be applied for from DEPWS.  Nil requirement for a Water Extraction Licence, as the area is not in a Water Control District and less than 5ML per year of water will be utilised.	N/A

## Environmental assessment and cultural considerations

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
<b>Step 4:</b> Is your project likely to have a significant impact on the environment?	No	Small exploration drilling program only. Drill pads and minimal tracks to be constructed. Kingsland will follow the mitigation measures as recommended by Connect Environmental in Appendix 9. Large trees, dense vegetation and trees with hollow will be avoided.
<b>Step 5:</b> Are there Aboriginal sacred sites in the Project area?	No	Sacred Sites are protected under the NT <i>Aboriginal Sacred Sites Act 1989</i> and administered by the Aboriginal Areas Protection Authority (AAPA).  An updated Abstract of Records was obtained by the AAPA in <b>February 2023</b> . Copy attached in Appendix 1. There are nil recorded sacred sites or restricted works areas in the project area. However, if any suspected sites are found, works in the area will cease and the AAPA will be notified.

## Mining Management Exploration Activities

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
<p><b>Step 6:</b> Are there archaeological and heritage sites in the Project area?</p>	No	<p>A search of the Heritage Register was conducted and the McLachlans Tree can be found within the NT Portion that the project is within. However, this site is located south of the Kakadu Highway and the project area is north of the Kakadu Highway. Works will not impact on the McLachlans Tree site. Details located in Appendix 2.</p> <p>A search of the project area was conducted by the Heritage Branch from the Department of Territory Families, Housing and Communities, where it was confirmed that there are no declared heritage places located within EL31690 (within NT Portion 1631). There are also no previously recorded Aboriginal archaeological sites recorded in EL31690. <b>An update was requested in February 2023 to include ELs 32152 and 32418. The searches found that there are no nominated, provisionally declared or declared heritage places or objects within the licences.</b> Results provided in Appendix 3.</p>

## Section 3 – Amendments

Section	Amendment
<b>Section 1 – Project Details</b>	Update to Proposed schedule and Licences.
<b>Section 2 – Operator Self-Assessment of the Environmental Risk</b>	Updated Environmental Updated AAPA & Heritage Details.
<b>Section 4 – Activities Proposed for this MMP</b>	New Proposed Activities.
<b>Section 5 – Previous Disturbance &amp; Appendix 8</b>	Updated Disturbance Tracking' spreadsheet added to Appendices.
<b>Appendices 5 &amp; 6</b>	New Proposed Works Files added to Appendices
<b>Appendix 7</b>	Updated security calculation spreadsheet
	Updated Application for Authorisation Form Attached

## Section 4 – Activities Proposed for this MMP only

<b>Mining Interests (i.e. titles)</b>	<b>EL31960</b>	<b>EL32152</b>
Number and type of proposed exploration drill holes	38 RC Drillholes	27 RC Drillholes
Maximum depth of proposed holes (m)	260 m	230 m
Number and size of drill pads to be cleared (Length: m x Width: m)	38 RC Drill Pads - 30m x 30m= 3.42 Ha	27 RC Drill Pads - 30m x 30m= 2.43 Ha
Total area of drill pads to be cleared (ha)	3.42 Ha	2.43 Ha
Number of proposed water bores	Nil	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	Unsure
Number of costeans	Nil	Nil
Volume to backfill costeans (Length: m x Width: m x Depth: m)	N/A	N/A
Number of bulk sample pits	Nil	Nil
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

## Mining Management Exploration Activities

Mining Interests (i.e. titles)	EL31960	EL32152
Line/track clearing: (length m x width m)	3.417 km X 3 m	2.355 km X 3 m
Area of proposed line/track clearing (ha)	1.0251 Ha	0.7065 Ha
Camp area to be cleared (ha)	<p>Likely commute from Pine Creek but may camp on site near dense drillhole locations near previously approved hole 22.</p> <p>Below included in security calculation in case camp is required. 30m x 30m = <b>0.09 Ha</b></p>	<p>Likely commute from Pine Creek but may camp on site near dense drillhole locations near previously approved hole 22.</p> <p>Below included in security calculation in case camp is required. 30m x 30m = <b>0.09 Ha</b></p>
Camp Infrastructure (i.e. demountable, tents) Please provide a complete list with measurements as required in the security calculation	<p>2 X light vehicles 1 X rig light truck Tents</p>	<p>2 X light vehicles 1 X rig light truck Tents</p>
Other	Nil	Nil
Total proposed area of disturbance (ha)	4.4451 Ha	3.1365 Ha

## Section 5 – Previous Disturbance (for existing Authorisations only)

An updated 'Disturbance Tracking' spreadsheet is attached at Appendix 8.



## 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	<b>X</b>	Blade-up approach for clearing will be used (i.e. no windrows, leave root stock and topsoil)
6.2	<b>X</b>	Significant vegetation will be avoided during clearing (i.e. large trees, specimens providing habitat or food sources, riparian vegetation, and threatened species)
6.3	<b>X</b>	Vegetation clearing during, and immediately after rainfall events, will be avoided
6.4	<b>X</b>	Vegetation clearing will be kept to the minimum required to safely traverse vehicles and drill rigs along tracks and drill pads
6.5	<b>X</b>	Where blade-up techniques cannot be employed, topsoil and vegetation will be stockpiled appropriately for rehabilitation purposes
6.6	<b>X</b>	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	<b>X</b>	Sumps will be lined or tanks of appropriate size to contain water, sediment and drilling fluids encountered during drilling, will be used
6.8	<b>X</b>	Sumps, drill holes, and fuel stores will be located away from environmentally significant areas and water courses
6.9	<b>X</b>	Excavations (sumps, costeans and pits) will be appropriately ramped to allow fauna egress
6.10	<b>X</b>	Drill holes will be securely capped immediately after drilling
6.11	<b>X</b>	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	<b>X</b>	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	<b>X</b>	Hazardous substances (including hydrocarbons) will be stored and handled in accordance with relevant Australian Standards
6.14	<b>X</b>	Hydrocarbons will be stored in lined and bunded areas
6.15	<b>X</b>	Waste will be stored securely while on-site to minimise windblown rubbish and access by feral animals
6.16	<b>X</b>	Waste will be removed off-site and disposed of at an appropriate waste management facility
6.17	<b>X</b>	All environmental incidents will be reported to the Department in accordance with Section 29 of the <i>Mining Management Act</i> .
6.18	<b>X</b>	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	<b>X</b>	Radioactive/NORM drill cuttings will be managed to avoid radiation related issues on site.
6.20	<b>X</b>	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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	Drill holes encountering multiple or confined aquifers will be grouted with concrete.
7.3	<input checked="" type="checkbox"/>	Drill samples/spoil will be returned down drill holes, buried in sumps, or removed from site.
7.4	<input checked="" type="checkbox"/>	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site.
7.5	<input checked="" type="checkbox"/>	Cut and fill drill pads will be re-contoured to be consistent with the surrounding terrain.
7.6	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	Tracks will be rehabilitated, including pushing in all windrows, unless otherwise agreed in writing by the land holder or appropriate third party.
7.8	<input checked="" type="checkbox"/>	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur.
7.10	<input checked="" type="checkbox"/>	Access through watercourses will be removed and banks restored.
7.11	<input checked="" type="checkbox"/>	All previously disturbed areas will be stable, with no evidence of active soil erosion.
7.12	<input checked="" type="checkbox"/>	All excavations will be backfilled within 6 months of their completion.
7.13	<input checked="" type="checkbox"/>	All water bores will be decommissioned unless otherwise agreed in writing by the land holder or appropriate third party.
7.14	<input checked="" type="checkbox"/>	All rubbish and infrastructure will be removed from site.
7.15	<input checked="" type="checkbox"/>	Topsoil will be replaced and vegetation re-established.
7.16	<input checked="" type="checkbox"/>	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be rehabilitated or removed from site.
7.17	<input checked="" type="checkbox"/>	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	X	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	X	Disturbance tracking spreadsheet (for existing Authorisations)
8.6	X	Spreadsheet with coordinates of proposed drill holes or polygons of target areas
8.7	X	KML/shape files/track logs of proposed tracks, camp sites and proposed drill holes or polygons of target areas
8.8	X	Map(s) of the work area(s) showing: <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. rehabilitated areas</li> <li>5. camp sites</li> <li>6. heritage sites or significant environmental areas</li> <li>7. environmental constraints</li> </ol>
8.10	X	Radiation Management Plan (if applicable)
8.12	X	Document(s) being appended in relation to Section 2 (if any): <ul style="list-style-type: none"> <li>- Appendix 1- AAPA Abstract of Records</li> <li>- Appendix 2- Heritage Register Results</li> <li>- Appendix 3- Historic and Archaeological Results</li> <li>- Appendix 9- Connect Environmental Desktop Biodiversity Assessment</li> </ul>