

Application form

Environmental Protection Act 1994

Variation application for a new environmental authority for a resource activity

This is the approved form that is to be used to make a variation application for an environmental authority (EA) under sections 123 and 125 of the Environmental Protection Act 1994 (EP Act) for an environmentally relevant activity (ERA) which is a resource activity.

Note: You can apply through Online Services at: <https://www.business.qld.gov.au/running-business/environment/online-services>.

It is recommended that you read the information on what to provide with an application, prior to making an application. This information, along with eligibility criteria and standard conditions, is located on the Business Queensland website at www.business.qld.gov.au (use the search term “environmental licence”). This website also has a diagnostic tool called the “Forms and fees finder” which will take you through a series of questions and provide a customised result which will identify any forms, fees and supporting information you need to make an application.

Only use this application form if you are applying for a new EA where:

- ☒ All applicants are registered as suitable operators. A suitable operator is a person or a corporation assessed under section 318I of the EP Act as being suitable to carry out an ERA and is listed on the [Suitable operator register](#). Your EA application must be refused if you are not a registered suitable operator when the application is decided. To become a registered suitable operator, apply using the form [Application to be a suitable registered operator](#).
- ☒ The ERA/s being applied for is/are a resource activity/activities, that involve: (a) a geothermal activity, (b) a greenhouse gas (GHG) storage activity, (c) a mining activity, or (d) a petroleum activity. Note a resource activity is taken to include ancillary activities (prescribed ERAs) and other activities carried out under the authority as a resource activity.
- ☒ All of the ERA/s being applied for have eligibility criteria and standard conditions available.
- ☒ You can meet all of the eligibility criteria for all of the ERA/s being applied for however you want to vary one or more of the standard conditions.
- ☒ An application for relevant resource tenure has been made or will be made at the same time as this application.
- ☒ The applicant/s for the resource tenure are exactly the same as the applicant/s for this EA application.
- ☒ The ERA/s being applied for will not form part of an ERA project under an existing EA.
- ☒ If more than one ERA is being applied for:
 - the ERAs being applied for will be carried out under the day to day management of a single responsible person (e.g. a site manager or operations manager); and

- *all of the ERAs are operationally interrelated, that is, the operation cannot function without all of the ERAs. Separate applications will need to be made for the ERAs that cannot be carried out as a single integrated operation; and*
- *the ERA/s are, or will be, carried out at one or more places; and*
- *the places where the ERAs will be carried out are close enough to make the integrated day to day management of the activities feasible.*

If you would like to have a pre-lodgement meeting, please complete and lodge the form [Application for pre-lodgement services \(ESR/2015/1664\)](#), prior to lodging this application for an EA.

The fields marked with an asterisk * are mandatory, if they are not completed then your application may be considered not properly made under section 128 of the EP Act.

1 Applicant details

Is there more than one applicant?*	☒ No, please provide the applicant's details here. ☐ Yes, please provide the principal applicant's details here and other applicants' details at Attachment 1—Joint applicants and appointment of principal applicant	
Name—individual or contact person if applicant is an organisation*		
Damien Girffith		
Organisation name, including any trading name (*if an organisation)	ABN/ACN (*if an organisation)	
Lumei Pty Limited	119544606	
Residential or registered business address (not a post office box)*	Phone*	
86 Q9 Private Access Road, Quorrobolong NSW 2025	0403 532 499	
Postal address (if same as above, write "AS ABOVE")*	Facsimile	
PO Box 315, Cessnock NSW 2325	Insert.	
Email*	☐ Indicate if you want to receive correspondence via email	
damien@aquaregia.com.au		

1.1 Nomination of an agent for this application

I/we nominate the below agent to act on my/our behalf and to receive correspondence relating to this application.

Do you want to nominate an agent for this application?*	
☐ No → Go to <i>Question 2</i> . ☒ Yes → Complete the agent's details here.	
Name of agent—individual or contact person if agent is an organisation	
Claire Mackney	
Organisation name, including trading name (if an organisation)	ABN/ACN (if an organisation)
Claire Mackney	34 687 084 050

Postal address PO Box 706, Mareeba Qld 4880	Phone 0438 952 554
Email mail@miningqld.com.au	☐ Indicate if you want to receive correspondence via email

2 Registered suitable operator status

A suitable operator is a person or a corporation assessed under Part 4, Chapter 5A of the EP Act as being suitable to carry out an ERA and is listed on the [Suitable operator register](#).

Are all applicants registered as a suitable operator?*	
☒ Yes →	Suitable operator reference number* 100955452 The suitable operator reference number provided must belong to the individual/organisation with the exact same name, DOB or ABN/ACN as the applicant. If there is more than one applicant, include all applicants' suitable operator reference numbers on Attachment 1.
☐ No →	You must apply to be a suitable registered operator by completing the form Application to be a suitable registered operator (ESR/2015/1771) . Note: If there is more than one applicant, a separate form must be attached for each applicant.

3 Details of the activity/activities being applied for

Complete the table below by advising which activities you are applying for and the location they will be conducted at. By selecting "yes" you are certifying that you have a complete and thorough understanding of, and can comply with the eligibility criteria and standard conditions for that activity. By selecting "no" you are advising that you cannot comply with one or more of the standard conditions. ERAs with eligibility criteria and standard conditions (ERA standards) are listed at: [Activities suitable for standard applications | Business Queensland](#).

Resource activity/activities, e.g. gemstone mining, geothermal activities, exploration—minerals, petroleum exploration activities, data acquisition authority*	I can comply with the eligibility criteria*	I can comply with the standard conditions*	Tenure number(s)*
Gold Mining	☒ Yes	☐ Yes ☒ No	ML 100482
Insert.	☐ Yes	☐ Yes ☐ No	Insert.
Insert.	☐ Yes	☐ Yes ☐ No	Insert.
Insert.	☐ Yes	☐ Yes ☐ No	Insert.

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4 Standard conditions to vary

For each activity listed in *Question 3* where you cannot comply with the standard conditions, please provide details of the variation being applied for below, or on an attachment.

For coordinated projects, if the conditions in the Coordinator-General's (CG's) evaluation report vary the standard conditions for the relevant activity/activities provide all variations in the table below and tick the box in the 'CG's condition' column. If the evaluation report states additional conditions (i.e. additional to the standard or varied conditions) provide the details in *Question 10.2* below.

More information on the technical information requirements for an EA application is available at [Technical information requirements | Business Queensland](#)

Activity name*	Standard condition to be varied (e.g. PESCB 3)*	Requested variation*	CG's condition	Justification—provide information for the administering authority to assess the environmental risk of the requested variation (*not required if a CG's condition)
Gold Mining	A13	A Variation of condition is sought to allow activities up to, but not within 15 metres of the category B Environmentally Sensitive Area – Regional Ecosystem	☐	The Mining lease is located near to identified regional ecosystems. 11.4.9 (endangered) - Acacia harpophylla shrubby woodland with Terminalia oblongata on Cainozoic clay plains. 11.11.1 (least concern) - Eucalyptus crebra +/- Acacia rhodoxylon woodland on old sedimentary rocks with varying degrees of metamorphism and folding. 11.11.16 (of concern) - Eucalyptus cambageana, Acacia harpophylla open forest to woodland on old sedimentary rocks with varying degrees of metamorphism and folding. Lowlands. There will be no wet processing with the proposed activities. Mining activities are shallow open cut operations with either scrape and detect operations or dry blower as a processing method. The nature of the proposed operations won't impact the identified ESA's.
Insert.	Insert.	Insert.	☐	Insert.

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Activity name*	Standard condition to be varied (e.g. PESCB 3)*	Requested variation*	CG's condition	Justification—provide information for the administering authority to assess the environmental risk of the requested variation (*not required if a CG's condition)
Insert.	Insert.	Insert.	☐	Insert.
Insert.	Insert.	Insert.	☐	Insert.
Insert.	Insert.	Insert.	☐	Insert.
Insert.	Insert.	Insert.	☐	Insert.

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Activity name*	Standard condition to be varied (e.g. PESCB 3)*	Requested variation*	CG's condition	Justification—provide information for the administering authority to assess the environmental risk of the requested variation (*not required if a CG's condition)
Insert.	Insert.	Insert.	☐	Insert.

☐ I have attached the documentation to support the variations to the standard conditions listed above.

5 Description of land where the activity/activities will be carried out

Project name (*if relevant): Insert.		GPS coordinates (*if known): Insert.	
Other land description or land marks to locate the activity (*if relevant): Insert.			
Tenure type(s) e.g. DAA, EPM, EPC*	Tenure number(s)*	Local Government Area (LGA)*	Date on application*
ML	100482	Isaac	18/11/2026
Insert.	Insert.	Insert.	Insert.
Insert.	Insert.	Insert.	Insert.
Insert.	Insert.	Insert.	Insert.
Insert.	Insert.	Insert.	Insert.
Insert.	Insert.	Insert.	Insert.
Insert.	Insert.	Insert.	Insert.
Insert.	Insert.	Insert.	Insert.

6 Details of contaminated land

Is there a site management plan in effect for contaminated land that relates to the land that is the subject of this application?*		
☒ No →	Go to <i>Question 7</i> .	
☐ Yes →	Description of land*	
	Lot and plan number(s)	LGA
	Lot Insert. Plan Insert.	Insert.
	Lot Insert. Plan Insert.	
	Lot Insert. Plan Insert.	
Lot Insert. Plan Insert.		
If you are not able to provide all relevant details above, please attach them to this application and indicate you have done so below:		
☐ I have attached the description of the land for which a site management plan is in effect.		

7 Regional interests development approval

A regional interests development approval (RIDA) is required when a resource activity is proposed in an area of regional interest under the *Regional Planning Interests Act 2014*. Further information, including application forms, can

be found on the Department of State Development, Infrastructure and Planning(DSDIP) website,
<https://planning.statedevelopment.qld.gov.au/planning-issues-and-interests/areas-of-regional-interest>.

Is the resource activity located anywhere within an area of regional interest?*	
☒ No	
☐ Yes →	Which area of regional interest, has or will require a RIDA? ☐ Priority Agricultural Areas (PAAs) ☐ Priority Living Areas (PLAs) ☐ Strategic Environmental Areas (SEAs) ☐ Strategic Cropping Area (SCA) ☐ No RIDA required, I am an exempt activity.
	If you have applied for a RIDA, provide the application reference below: Insert.

8 Environmental offsets

An environmental offset, under the *Environmental Offsets Act 2014*, may be required for an ERA where, despite all reasonable measures to avoid and minimise impacts on certain environmental matters, there is still likely to be significant residual impact on one or more of those matters.

You must verify the presence, whether temporary or permanent, of those environmental matters.

For more information refer to the Queensland Environmental Offsets Policy and the Significant Residual Impact Guideline at the Queensland Government website at www.qld.gov.au, using the search term “environmental offsets”.

Will the activity/activities being applied for result in a significant residual impact to a matter of State environmental significance (MSES)?*	
☒ No →	Go to <i>Question 8.3</i> .
☐ Yes →	You must attach supporting information that: - Details the magnitude and duration of the likely significant residual impact on each prescribed environmental matter (other than matters of local environmental significance) for the entire activity; and - Demonstrates that all reasonable measures to avoid and minimise impacts on each of those matters will be undertaken.

8.1 Notice of election

Has a notice of election been submitted to the administering authority, or is being submitted as part of this application?	
☐ No →	Go to <i>Question 8.2</i> .
☐ Yes →	☐ You can attach the notice of election, if it has not already been submitted. Go to <i>Question 8.3</i> .

8.2 Staged environmental offsets

Offset delivery can be staged, however for this to occur, the condition of any approved EA needs to state that both the activity and the offset may be staged. As part of your notice of election for each stage under the *Environmental Offsets*

Act 2014, you are required to provide a detailed assessment of the quantum of impact of that stage and the offset obligation requirement to be delivered for that stage.

Will the proposed activity/activities and delivery of an environmental offset be undertaken in stages?*	
☐ No	
☐ Yes →	You must attach supporting information that details of how the activity/activities are proposed to be staged.

8.3 Nature conservation environmental offset

Has another authority issued under the <i>Nature Conservation Act 1992</i> required an environmental offset for the same, or substantially the same, impact and the same, or substantially the same, MSES?	
☒ No	
☐ Yes →	Provide permit number: Insert.

8.4 Marine parks environmental offset

Has marine park permit issued under the <i>Marine Parks Act 2004</i> required an environmental offset for the same, or substantially the same, impact and the same, or substantially the same, MSES?	
☒ No	
☐ Yes →	☐ You must attach a copy of the marine park permit to this application.

9 Matters of national environmental significance

There are currently nine matters of national environmental significance (MNES) which have been defined in the *Environment Protection and Biodiversity Conservation Act 1999 (Cth)* (EPBC Act). These are:

- world heritage properties
- national heritage places
- wetlands of international importance (listed under the Ramsar Convention)
- listed threatened species and ecological communities
- migratory species protected under international agreements
- Commonwealth marine areas
- the Great Barrier Reef Marine Park
- nuclear actions (including uranium mines)
- a water resource, in relation to coal seam gas development and large coal mining development

To determine whether the proposed activity/activities will have a significant impact on MNES and for referral requirements, please refer to the guidance provided by the Federal Government's Department of Environment and Energy on www.environment.gov.au.

Would the carrying out of the proposed activity/activities be likely to have a significant impact on a MNES?*	
☒ No →	Go to <i>Question 10</i> .
☐ Yes →	Has the proposal been referred to the Federal Department of Environment and Energy for formal assessment and approval?
	☐ No → Go to <i>Question 10</i> .
	☐ Yes → Go to <i>Question 9.1</i> .

9.1 EPBC Act approval for environmental offsets

Has an approval been issued under the EPBC Act required an environmental offset for the same, or substantially the same, impact and the same, or substantially the same, MSES?	
☐ No →	Go to <i>Question 10</i> .
☐ Yes →	☐ I have attached a copy of the approval under the EPBC Act. Are there any MNES which were assessed under the EPBC Act which are the same, or substantially the same as an MSES, but that were not conditioned in the approval? ☐ No → Go to <i>Question 10</i> . ☐ Yes → List these MNES: Insert.

10 Environmental impact statement under the State Development and Public Works Organisation Act 1971

Certain stages of the EA application process may not apply if the proposed activities were assessed as part of a coordinated project declared under the *State Development and Public Works Organisation Act 1971* (SDPWO Act). You are only required to answer Questions 10 to 10.2 if the CG's evaluation report for the project is current.

Has an environmental impact statement (EIS) process under the SDPWO Act been completed?*	
☒ No →	Go to <i>Question 11</i> .
☐ Yes →	What is the title and project name of the completed EIS? Insert.
	Was the EIS completed for all activities that are the subject of this application?
	☐ No → Please list the activities that were not included in the EIS or attach documentation with this information to this application: Insert. ☐ I have attached the required supporting information.
	☐ Yes

10.1 Environmental risks

Have the environmental risks or the way the activity/activities are proposed to be carried out changed since the EIS was completed?*
☐ No
☐ Yes

10.2 Coordinator-General's conditions

Are there CG's conditions that relate to the activities being applied for?*									
☐ No →	Go to <i>Question 11</i> .								
☐ Yes →	Name of the CG's evaluation report: Insert. Also list any standard conditions that are not the same as the conditions stated in the CG's evaluation report in <i>Question 4</i> above, and provide any conditions stated in the CG's evaluation report that are additional to the standard conditions below or attach them to this application: <table border="1"> <tr><td>Insert.</td></tr> <tr><td>Insert.</td></tr> <tr><td>Insert.</td></tr> <tr><td>Insert.</td></tr> <tr><td>Insert.</td></tr> <tr><td>Insert.</td></tr> <tr><td>Insert.</td></tr> <tr><td>Insert.</td></tr> </table> ☐ I have attached any additional conditions from the CG's evaluation report to this application.	Insert.	Insert.	Insert.	Insert.	Insert.	Insert.	Insert.	Insert.
Insert.									
Insert.									
Insert.									
Insert.									
Insert.									
Insert.									
Insert.									
Insert.									

11 Assessment of the environmental impact

This question is **not applicable** if an EIS process under the SDPWO Act has been completed for all the activities that are the subject of this application **and** the environmental risks of the activities and the way they are proposed to be carried out has not changed since the EIS was completed.

You must attach to this application an assessment of the likely impact of each ERA on environmental values, to the extent that it is relevant to the proposed variation to the standard condition/s (*if applicable), including:

- a description of the environmental values likely to be affected by each relevant activity
- details of any emissions or releases likely to be generated by each relevant activity
- a description of the risk and likely magnitude of impacts on the environmental values
- details of the management practices proposed to be implemented to prevent or minimise adverse impacts
- details of how the land the subject of the application will be rehabilitated after each relevant activity ceases.

☒ I have attached an assessment of the environmental impact and specific supporting information.

12 Details of waste management

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Describe the proposed measures for minimising and managing waste generated by the proposed activity/activities below or attach supporting information to this application*

With consideration to the State Forest values, all waste (principally domestic in this type of operation) will be removed to the local refuse centre. This is also a requirement of the Reserve Trustee, being Queensland Parks and Wildlife Services and will be covered in the Environmental Works Program (EWP).

☐ I have attached the proposed measures.

13 Payment of fees

You are required to pay an application fee at the time of application. If your application is approved you will be required to pay a fee annually. Each ERA has a regulated fee and the annual fee will be the highest annual fee of any ERA associated with the project. The first annual fee will be invoiced when one or more of the tenures are granted. Information on fees is available on [Forms and fees for environmental authorities | Business Queensland](#) and in the information sheet [Summary of fees for environmentally relevant activities \(ESR/2015/1746\)](#).

The application fee is:	\$
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Preferred

☐ Apply using [Online Services](#) – submit the application online and pay by credit card.

Alternatively

☒ Email the completed application with a request to pay the application fee by Bpoint. Please do not email your credit card details – we will send you a link to pay securely by credit card via BPoint.

14 Applicant declaration

I declare that the information I have provided is true and correct. I understand that it is an offence under the EP Act to give information that I know is false, misleading or incomplete.

I will comply with all conditions on my EA as well as any relevant provisions in the EP Act.

I understand that I am responsible for managing the environmental impacts of these activities, and that approval of this application is not an endorsement by the administering authority of the effectiveness of the management practices proposed or implemented.

Applicant's full name*	Applicant's position (*if an organisation)
Claire Mackney	Tenement Manager
Applicant's signature*	Date*
	6/04/2026

15 Important note: Estimated rehabilitation cost (ERC)

It is a condition of all EA's for resource activities, under section 297 of the EP Act, that the holder must not carry out, or allow the carrying out of, a resource activity under the authority unless an ERC decision is in effect, and the holder has paid scheme assurance and complied with the requirements under the *Mineral and Energy Resources (Financial Provisioning) Act 2018* for paying this assurance. If your application for an EA is approved, you must lodge a separate application for an ERC decision either using Online Services or by submitting the approved form [Application for a decision on the estimated rehabilitation cost \(ESR/2018/4426\)](#). For further information regarding the estimated rehabilitation cost, refer to the guideline [Estimated rehabilitation cost under the Environmental Protection Act 1994 \(ESR/2018/4425\)](#).

Once you have submitted your resource application and received your tenure number, please submit this completed application by post using the address provided below:

Post:

Permit and Licence Management
Department of the Environment, Tourism, Science and
Innovation
GPO Box 2454
BRISBANE QLD 4001

Further information:

www.business.qld.gov.au
Email: palm@detsi.qld.gov.au
Phone: 13 QGOV (13 74 68)

Privacy statement

The Department of the Environment, Tourism, Science and Innovation (the department) and the Department of Natural Resources and Mines, Manufacturing, and Regional and Rural Development are collecting the information on this form in accordance with and as authorised by Chapter 5 of the EP Act.

Pursuant to section 540 of the EP Act, the Department is required to maintain a register of certain documents and information authorised under the EP Act. A copy of this document will be kept on the public register. The register is available for inspection by members of the public who are able to take extracts, or copies of the documents from the register. Documents that are required to be kept on the register are published in their entirety, unless alteration is required by the EP Act. There is no general discretion allowing the Department to withhold documents or information required to be kept on the public register. For more information on the Department's public register, search 'public register' at www.qld.gov.au. For queries about privacy matters please email privacy@detsi.qld.gov.au or telephone 13 74 68.

Attachment 1—Joint applicants and appointment of principal applicant

We are joint applicants for this EA and hereby appoint: Insert.
as the principal applicant to receive statutory documents relating to this application.

Name—individual or contact person if applicant is an organisation Insert.	Suitable operator reference number Insert.
Organisation name, including any trading name (if an organisation) Insert.	ABN/ACN (if an organisation) Insert.
Residential or registered business address (not a post office box) Insert.	Phone Insert.
Postal address (if different from above) Insert.	Facsimile Insert.
Email Insert.	☐ Indicate if you want to receive correspondence via email
Signature	Date Insert.

Name—individual or contact person if applicant is an organisation Insert.	Suitable operator reference number Insert.
Organisation name, including any trading name (if an organisation) Insert.	ABN/ACN (if an organisation) Insert.
Residential or registered business address (not a post office box) Insert.	Phone Insert.
Postal address (if different from above) Insert.	Facsimile Insert.
Email Insert.	☐ Indicate if you want to receive correspondence via email
Signature	Date Insert.

Name—individual or contact person if applicant is an organisation Insert.	Suitable operator reference number Insert.
Organisation name, including any trading name (if an organisation) Insert.	ABN/ACN (if an organisation) Insert.
Residential or registered business address (not a post office box) Insert.	Phone Insert.
Postal address (if different from above) Insert.	Facsimile Insert.
Email Insert.	☐ Indicate if you want to receive correspondence via email
Signature	Date Insert.

Assessment of the environmental impact

Holder: Lumei Pty Limited

Permit number: ML 100482

Background

ML 10082 is applied for within the Copperfield State Forest. Parts of the northern end of the permit are a distance of 15 metres from the mapped boundary for Regional Ecosystems 11.4.9, 11.11.1 and 11.11.16.

The mining operation is proposed to be a seasonal eluvial concern with mineralisation being several metres deep. Mineralisation will be extracted by way of push and detect for the most part. Small areas will be disturbed with metal detecting being the principal methodology of extracting minerals at surface and sub-surface. A dry blower may also be used in this operation. Queensland Parks and Wildlife Services do not allow wet processing to occur in State Forests around Clermont. They also do not allow mining activities to occur within 50 metres of identified MSES.

Overburden and low grade material will be stockpiled to be used in final rehabilitation. Large trees will be left in place where practical to assist with stabilisation of the land. Reseeding of areas with native grasses and trees. Rehabilitation will be progressive and ongoing as part of our rehabilitation plan with monitoring to be ongoing to ensure stabilisation of land form.

A small camp will be constructed on the mining lease to allow for accommodation on site.

A description of the environmental values likely to be affected by each relevant activity

Water

The mining methodology proposes to have no impact on seasonal water courses and surface flow as QPWS, as reserve trustee will not consent to operating inside the primary watercourses. Operations will occur in the dryer, cooler months of the year.

Ground Water

The proposed mining methodology is shallow surface operations. It is anticipated that there will be no impact to groundwater in this operation, particularly given that operations will only be undertaken in the dry season.

Wetlands

There are no wetlands identified within the area of the lease. There are wetlands near to the lease boundaries, but the nature and timing of production activities is unlikely to cause harm to the identified wetland areas.

Assessment of the environmental impact

Land and Land Use

The parcel of land on which this mining lease is located is currently designated as State Forest and Lands Lease (grazing). The permit is surrounded by other mining lease applications having recently been in moratorium and many applications being made whilst ground was available. The addition of this permit comprising an area of 56.38 hectares does not provide significant additional impact upon the current and proposed land usage. Mining will occur in small segments and will be progressively rehabilitated.

Acoustic

The seasonal operation is likely to add to the noise created by existing mining operations in the area, however the noise, by the nature of the mining, will be for a few hours of the day throughout the dry season. This is also the peak season for tourists, locals and those engaging in fossicking and metal detecting activities, many of these visitors will be entering via 4WD vehicles which also contribute to the acoustic values of the area.

Air

This kind of operation may create some dust with the movement of the soil surface. This is proposed to be minimised by only clearing small areas at a time with consideration to the daily wind conditions.

Waste

With consideration to the State Forest values, all waste (principally domestic in this type of operation) will be removed to the local refuse centre.

Details of any emissions or releases likely to be generated by each relevant activity

The only foreseeable emissions will be the exhaust from the machinery in use on site and the 4WD vehicle used to enter the site.

A description of the risk and likely magnitude of impacts on the environmental values

The mining operation, by its nature will impact upon the category C environmentally sensitive area, being the Copperfield State Forest. Excavation and rehabilitation are proposed to be undertaken in a way to ensure that rehabilitation is progressive and ongoing to ensure that revegetation of disturbed areas is successful and monitored throughout the life of the permit. The Environmental Works Program (EWP) required by QPWS also provides that the department can check up on the progression of operations to ensure that excavation and rehabilitation are sound.

Assessment of the environmental impact

Details of the management practices proposed to be implemented to prevent or minimise adverse impacts

Rehabilitation will be progressive and ongoing. Revegetation of disturbed areas will be assisted by seed and seedlings where appropriate. Monitoring of vegetation growth and stabilisation of the land form will be monitored as mining progresses. Per above, QPWS Rangers make contact from time to time to visit the site.

Details of how the land subject of the application will be rehabilitated after each relevant activity ceases

Overburden and lowgrade material will be stockpiled to be used in final rehabilitation. Large trees will be left in place where practical to assist with stabilisation of the land. Alluvial wash will be returned to creeks from which they were removed. Reseeding of areas with native grasses and trees as appropriate. Rehabilitation will be progressive and ongoing as part of our rehabilitation plan. Monitoring of the rehabilitation areas will continue throughout the permit life to ensure that the land is returned as near to the pre-mining condition as possible.

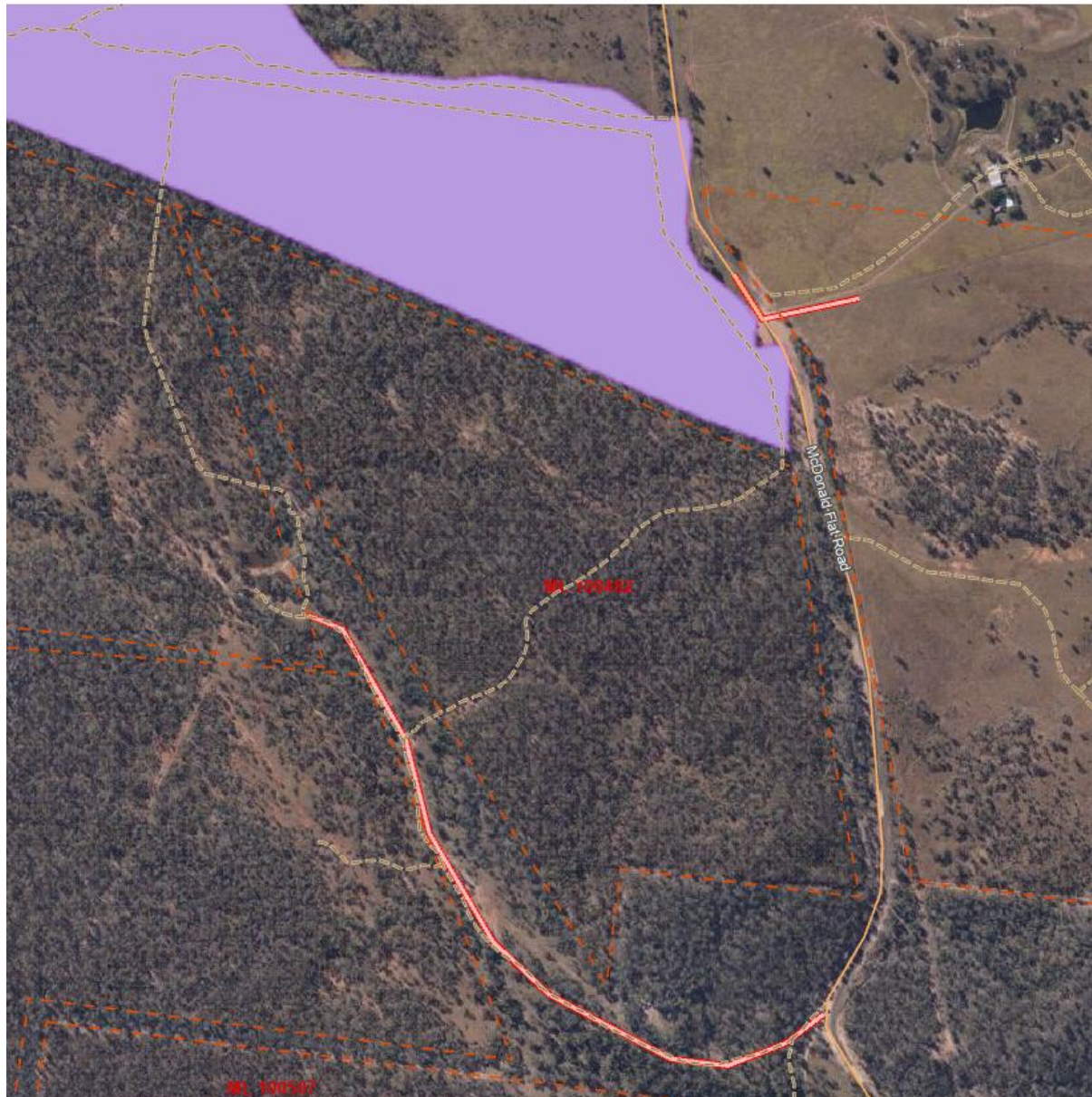
Additional attachments:

ML 100482 environmentally sensitive area map

Regional ecosystem details for 11.4.9, 11.11.1 & 11.11.16

Assessment of the environmental impact

Regional ecosystem map depicting 11.4.9, 11.11.1 & 11.11.16 boundaries





Queensland Government home >For Queenslanders >Environment, land and water >
Plants and animals >Plants >Regional ecosystems >Regional ecosystem descriptions >
Regional ecosystem details for 11.4.9

Regional ecosystem details for 11.4.9

Regional ecosystem	11.4.9
Vegetation Management Act class	Endangered
Wetlands	Contains Palustrine
Biodiversity status	Endangered
Subregion	7, 11, 10, 6, (23), (5), (13), (21), (8), (14), (9), (15), (17), (12), (19), (16), (18), (24), (4), (2), (20), (10.2)
Estimated extent ¹	Pre-clearing 989000 ha; Remnant 2021 89000 ha
Short description	Acacia harpophylla shrubby woodland with Terminalia oblongata on Cainozoic clay plains
Structure code	Woodland

Description Acacia harpophylla woodland to open forest, usually with a low tree mid-storey of Terminalia oblongata and Eremophila mitchellii. Casuarina cristata sometimes replaces Acacia harpophylla in the overstorey and Lysiphyllum cunninghamii sometimes co-dominates. Other low tree or shrub species such as Alectryon diversifolius, Carissa ovata, Pittosporum spinescens, Ehretia membranifolia, Geijera parviflora and Flindersia dissosperma may occur in the mid-storey or low shrub layer. Occurs on level to gently undulating Cainozoic plains, including weathered basalt. Associated soils are predominantly moderately deep to deep cracking clays that may be brown, red-brown or grey-brown, and with much surface gravel in some areas. Contains Palustrine. (BVG1M:

25a).

Vegetation communities in this regional ecosystem include:

11.4.9a: *Acacia harpophylla*, *Lysiphyllum carronii* +/- *Casuarina cristata* open forest to woodland. Occurs on level to gently undulating Cainozoic plains, including weathered basalt. Associated soils are predominantly moderately deep to deep cracking clays that may be brown, red-brown or grey-brown, and with much surface gravel in some areas. Not a Wetland. (BVG1M: 25a).

11.4.9b: *Acacia harpophylla*, *Eucalyptus thozetiana* (sometimes *E. cambageana*) open forest to woodland. Occurs on level to gently undulating Cainozoic plains, including weathered basalt. Associated soils are predominantly moderately deep to deep cracking clays that may be brown, red-brown or grey-brown, and with much surface gravel in some areas. Not a Wetland. (BVG1M: 25a).

Supplementary description	Gunn et al. (1967), Avon (2), Blackwater (2, 3, 4), Cungelella (3), Disney (3), Durrandella (4), Humboldt (4, 5), Islay (2), Kareela (3), Kinsale (1,3,4), Loudon (5), Monteagle (5), Peak Vale (3), Playfair (4), Somerby (2,3,4), Ulcanbah (3), Waterford (2)
Protected areas	Carnarvon NP, Junee NP, Dipperu NP (S), Nairana NP, Taunton NP (S), Peak Range NP, Belmah CP, Zamia Creek CP, Mazeppa NP, Humboldt NP, Roundstone CP, Albinia NP, Albinia CP, Blackwater CP, Tooloombah Creek CP, Snake Range NP, Narrien Range NP
Special values	11.4.9: Potential habitat for NCA listed species: <i>Cadellia pentastylis</i> , <i>Solanum adenophorum</i> , <i>Solanum dissectum</i> , <i>Solanum elachophyllum</i> , <i>Solanum johnsonianum</i> , <i>Xerothamnella herbacea</i> .
Fire management guidelines	INTERVAL: Fire return interval not relevant. INTERVAL_MIN: 100. INTERVAL_MAX: 100. STRATEGY: Maintain fire management of surrounding country so that wildfires will be very limited in extent. Frequent fire at the edge of this RE keeps fuel loads low. Protection from fire is necessary. ISSUES: <i>Casuarina cristata</i> is fire sensitive, although germination can be good in bare areas. Brigalow is soft-seeded, so germination is not promoted by fire. Buffel grass invasion will increase risk from fire. High intensity fires will cause damage to overstorey. Grazing may be an option for reducing fuel loads where exotic grass such as buffel have invaded.
Comments	11.4.9: The presence of <i>Terminalia oblongata</i> often distinguishes this regional ecosystem from <i>Acacia harpophylla</i> on clay plains in southern Queensland (11.4.3). Areas mapped as 11.4.9b have been re-classified as 11.4.8a (<i>Acacia harpophylla</i> , <i>Eucalyptus cambageana</i> open forest to woodland). Extensively cleared for cropping and pasture.

¹ Estimated extent is from version 13.1 pre-clearing and 2021 remnant regional ecosystem mapping. Figures are rounded for simplicity. For more precise estimates, including breakdowns by tenure and other themes see [remnant vegetation in Queensland](https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/remnant-vegetation/) (<https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/remnant-vegetation/>).

Access vegetation management regional ecosystem descriptions

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Regional ecosystem details for 11.11.1

Regional ecosystem details for 11.11.1

Regional ecosystem	11.11.1
Vegetation Management Act class	Least concern
Wetlands	Not a Wetland
Biodiversity status	No concern at present
Subregion	9, 17, 6, 14, (11), (4), (2), (3), (18), (5), (7), (12), (13), (9.4), (19), (27), (22), (1), (10), (21), (12.10)
Estimated extent ¹	Pre-clearing 242000 ha; Remnant 2021 160000 ha
Short description	Eucalyptus crebra +/- Acacia rhodoxylon woodland on old sedimentary rocks with varying degrees of metamorphism and folding
Structure code	Woodland
Description	Eucalyptus crebra woodland, often with Acacia rhodoxylon. Other species that may be present include Corymbia citriodora, C. leichhardtii, E. melanophloia, C. erythrophloia, C. clarksoniana, E. fibrosa subsp. fibrosa (subregion 18) and E. moluccana on lower slopes (subregions 14, 17, 18). Macrozamia spp. sometimes present in shrub layer. Lophostemon grandiflorus occurs in gullies within this regional ecosystem in the north of the bioregion. Occurs mainly on sub-coastal hills and ranges formed on moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 13c).

Supplementary description	Forster and Barton (1995), Rosewood, Boomer; Gunn et al. (1967), Copperfield, Borilla; Kent (1987), Ra6, Cd3; Speck et al. (1968), Boomer, Malakoff, Rosewood; Gunn and Nix (1977) LU 62
Protected areas	Goodedulla NP, Homevale NP
Special values	11.11.1: Potential habitat for NCA listed species: <i>Corymbia clandestina</i> , <i>Cycas ophiolitica</i> .
Fire management guidelines	INTERVAL: Fire return interval not relevant. INTERVAL_MIN: 100. INTERVAL_MAX: 100. STRATEGY: Manage surrounding country. Burn surrounding country only under conditions of good soil moisture and when plants are actively growing. Will be difficult to burn owing to a lack of ground fuel that normally occurs in this RE.

¹ Estimated extent is from version 13.1 pre-clearing and 2021 remnant regional ecosystem mapping. Figures are rounded for simplicity. For more precise estimates, including breakdowns by tenure and other themes see [remnant vegetation in Queensland](https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/remnant-vegetation/) (<https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/remnant-vegetation/>).

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Regional ecosystem details for 11.11.16

Regional ecosystem details for 11.11.16

Regional ecosystem	11.11.16
Vegetation Management Act class	Of concern
Wetlands	Not a Wetland
Biodiversity status	Of concern
Subregion	13, 10.3, 3, 5, 8, 9, 7, (11), (15), (10), (12), (14), (18), (21), (19), (4), (17), (6)
Estimated extent ¹	Pre-clearing 83000 ha; Remnant 2021 21000 ha
Short description	Eucalyptus cambageana, Acacia harpophylla open forest to woodland on old sedimentary rocks with varying degrees of metamorphism and folding. Lowlands
Structure code	Open Forest
Description	Eucalyptus cambageana, Acacia harpophylla open forest to woodland. Occurs on gently undulating plains and rises formed on moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 25a).
Supplementary description	Speck et al. (1968), Malakoff, Highworth
Protected areas	Narrien Range NP, Snake Range NP, Blackwood NP

Fire management guidelines	INTERVAL: Fire return interval not relevant. INTERVAL_MIN: 100. INTERVAL_MAX: 100. STRATEGY: Maintain fire management of surrounding country so that wildfires will be very limited in extent. Frequent fire at the edge of this RE keeps fuel loads low. Protection from fire is necessary. ISSUES: Casuarina cristata is fire sensitive, although germination can be good in bare areas. Brigalow is soft-seeded, so germination is not promoted by fire. Buffel grass invasion will increase risk from fire. High intensity fires will cause damage to overstorey. Grazing may be an option for reducing fuel loads where exotic grass such as buffel have invaded.
Comments	11.11.16: Extensively cleared for pasture.

¹ Estimated extent is from version 13.1 pre-clearing and 2021 remnant regional ecosystem mapping. Figures are rounded for simplicity. For more precise estimates, including breakdowns by tenure and other themes see [remnant vegetation in Queensland](https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/remnant-vegetation/) (<https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/remnant-vegetation/>).

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