Application form

*Environmental Protection Act 1994*

Application for a decision on the estimated rehabilitation cost

*This document is the approved form that is to be used by an applicant under section 298 of the* Environmental Protection Act 1994 *(EP Act) to apply to the administering authority for an estimated rehabilitation cost decision for a resource activity.[[1]](#footnote-2)*

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| For applications to the Department of Environment, Science and Innovation, you can apply through Online Services at: <https://business.qld.gov.au/running-business/environment/online-services>. |

Environmental authority holders for resource activities are required to use the approved methodology in the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994’* (ESR/2018/4425[[2]](#footnote-3)) to calculate the amount the holder considers to be an estimate of the total rehabilitation cost. The administering authority will then assess the application and decide the estimated rehabilitation cost (the ERC decision).

The ERC decision made by the administering authority will then be provided to the scheme manager, under the *Mineral and Energy Resources (Financial Provisioning) Act 2018*, who will determine the amount and form of scheme assurance the environmental authority holder must pay.

**An ERC decision must be in effect and the scheme assurance must be paid to the scheme manager before any relevant activity under the environmental authority can commence.**

Note that the estimated rehabilitation cost is calculated for the environmental authority as a whole and cannot be split across tenures.

For information on estimated rehabilitation cost, including details of application requirements, supporting information to be provided and the approved methodology for how to make a calculation, please refer to the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994’* (ESR/2018/44252).

**If the environmental authority holder does not comply with all of the relevant requirements in section 298 of the EP Act and sections 2.2.1 and 2.2.2 of the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994’* (ESR/2018/44252), the department may not accept the application. If the application is not accepted it will be returned without assessment and the holder will be required to resubmit a new application for an ERC decision.**

If you would like to have a pre-lodgement meeting, please fill out and lodge the form ‘Application for pre-lodgement services’ (ESR/2015/16642), prior to lodging this application.

**Checklist for making an application**

You must complete this checklist before you continue with the application form.

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| **Checklist questions** | **Guidance** |
| Is your environmental authority for a resource activity?  | [ ]  Yes[ ]  No | If no, you do not need to apply for an ERC. If your environmental authority relates to a prescribed ERA then the Financial Assurance provisions apply.  |

**Definitions of terms used in this form**

*Where there is inconsistency between the definition of terms here and the terms used in the EP Act, the terms in the EP Act apply*.

|  |  |
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| Eligible ERA | An environmentally relevant activity that complies with the eligibility criteria in effect for the activity.  |
| Environmentally relevant activity (ERA) | A resource activity or a prescribed ERA. |
| ERC period | For the estimated rehabilitation cost for a resource activity, means-1. if a PRCP schedule applies for the activity – the period of between 1 and 5 years stated in the application for an ERC decision under section 298(2)(b) of the EP Act; or
2. if the activity is a petroleum activity that is an ineligible ERA, other than a petroleum activity to which a plan of operations applies, or the activity relates to a 1923 Act petroleum tenure granted under the *Petroleum Act 1923* – the period of between 1 and 5 years stated in the ERC decision about the estimated rehabilitation cost; or
3. if a plan of operations applies for the activities – the plan period for the plan of operations; or
4. otherwise – the total period during which the resource activity is likely to be carried out under the environmental authority for the activity.

If the initial ERC period ends before a PRC plan is approved for an ineligible mining activity EA holder; the ERC period must be between 1 and 5 years.  |
| Ineligible ERA  | An environmentally relevant activity that is not an eligible ERA.  |
| Mining activity  | A mining activity is – 1. an activity that is an authorised activity for a mining tenement under the *Mineral Resources Act 1989*; or
2. another activity that is authorised under an approval under the *Mineral Resources Act 1989* that grants rights over land.
 |
| Petroleum activity | A petroleum activity is – 1. an activity that, under the *Petroleum Act 1923*, is an authorised activity for a 1923 Act petroleum tenure under that Act; or
2. an activity that, under the *Petroleum and Gas (Production and Safety) Act 2004*, is an authorised activity for a petroleum authority under that Act; or
3. exploring for, exploiting or conveying petroleum resources under a licence, permit, pipeline licence, primary licence, secondary licence or special prospecting authority granted under the *Petroleum (Submerged Lands) Act 1982*.
 |
| Plan of operations  | For a petroleum lease, includes a plan of operations given to the administering authority for a proposed lease substantially the same as the petroleum lease.  |
| Progressive Rehabilitation and Closure Plan (PRC plan) | For land the subject of a mining lease, a PRC plan means a progressive rehabilitation and closure plan for the land that consists of – 1. the rehabilitation planning part of the plan; and
2. the PRCP schedule for the plan, including any conditions imposed on the schedule.
 |
| PRCP schedule | A schedule of the PRC plan that-1. complies with section 126D of the EP Act; and
2. is approved under chapter 5, part 5, division 2 of the EP Act, with or without conditions.
 |
| Prescribed ERA | An environmentally relevant activity that is not a resource activity.  |
| Resource activity | An activity that is any of the following:1. a geothermal activity
2. a GHG storage activity
3. a mining activity
4. a petroleum activity.
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| Scheme assurance | A contribution paid to the scheme fund or a surety given under the *Mineral and Energy Resources (Financial Provisioning) Act 2018*.  |

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| **GUIDE** | Application details |
| If you require assistance in answering any part of this form or have any questions about your application, please contact the relevant business centre. Contact details are at the end of this form. The environmental authority (EA) number and details may be found on the existing environmental authority or quoted in other correspondence received from the administering authority. If the application relates to a de-amalgamation application for which there is, or has been an ERC decision in place, an ERC application must be submitted for each of the proposed de-amalgamated EAs. If the application does not relate to the original (or parent) EA, enter ‘de-amalgamation application pending’ for the EA number in section 1. Note that the de-amalgamated EAs will not take effect until section 250D of the EP Act has been complied with.If more space is required for any responses, please attach additional information as a separate page. To assist in the assessment process, attachments should be provided as separate PDF files which are not locked, restricted, or scanned.If there is an agent acting on behalf of the environmental authority holder, details of the agent are to be provided in this section. An agent could be a consultant or a contact for the environmental authority holder. A letter of authorisation to act as an agent on behalf of the EA holder must be provided to the administering authority with the application.  | Environmental authority

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| ENVIRONMENTAL AUTHORITY NUMBERInsert number. |
| ENVIRONMENTAL AUTHORITY HOLDER NAMESInsert names. |

**Agent details/address for service**The address supplied here will be used as a service address for sending statutory documents.

|  |
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| INDIVIDUAL OR BUSINESS NAME (INCLUDE TRADING NAME IF RELEVANT)Insert name. |
| RESIDENTIAL ADDRESS OR REGISTERED BUSINESS ADDRESS (NOT A POST OFFICE BOX ADDRESS)Insert address. |
| POSTAL ADDRESS (IF DIFFERENT FROM ABOVE)Insert address. |
| CONTACT PERSON AND POSITIONInsert name and position. |
| PHONEInsert number. | FACSIMILEInsert number. |
| EMAILInsert email. |

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| A new ERC decision can be applied for under section 302 of the EP Act at any time after an ERC decision is made.Section 304 of the EP Act outlines when a holder must re-apply for an ERC decision. The administering authority also has the ability to issue a notice under section 303 of the EP Act to direct a holder to re-apply for an ERC decision.Eligible and ineligible ERAs are described in the definitions section at the start of this application form. The relevant eligibility criteria and standard conditions (ERA standard) should be attached to your environmental authority. If not, you can access a copy from [www.business.qld.gov.au/running-business/environment/licences-permits/applying/activities-suitable](https://www.business.qld.gov.au/running-business/environment/licences-permits/applying/activities-suitable). The departmental calculators can be located on the Business Queensland website [www.business.qld.gov.au](http://www.business.qld.gov.au). To calculate estimated rehabilitation cost, you must use the approved methodology outlined in the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994*’(ESR/2018/44254).The definitions section at the start of this form outlines the different ERC period options. The start date for the ERC decision is the day the ERC decision is made by the administering authority, unless the decision is for an application that accompanied a de-amalgamation application, in which case the ERC decision start date is the day the de-amalgamation takes effect. If you select a period of years and months the decision notice will state the specific ERC period end date by calculating your nominated period of time from the ERC decision date. See the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994*’(ESR/2018/44254) for more information on ‘year of maximum liability’.  | Reason for applicationPlease tick one of the below options for the reason you are making this application:[ ]  First ERC decision[ ]  Current ERC period due to expire[ ]  There is an increase in the likely maximum amount of disturbance [ ]  There is a change in the activity that may result in an increase to the current ERC decision[ ]  Annual return stated there was a change in activity that may affect the current ERC decision[ ]  An application to amalgamate an EA has been approved[ ]  An application to de-amalgamate an EA has been made[ ]  A notice was issued directing the EA holder to re-apply for an ERC decision[ ]  New ERC decision – please provide details of the reason below (e.g. partial surrender approved, a change in operations which may result in a decrease in ERC, etc.)

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| Insert. |

Eligible mining activitiesIf your EA relates to a petroleum activity or ineligible mining activity, please skip to *Question 4*. This section is only applicable for activities that comply with the eligibility criteria as set out in the relevant ERA standard for mining activities.

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| Have you used the Schedule of Rehabilitation Costs found in the appendix of the relevant eligibility criteria and standard conditions to calculate your ERC? |
| [ ]  No →  | Go to *Question* 4. Note that only eligible mining activities on a mining lease have the option of using the ERC calculator to calculate ERC*.*  |
| [ ]  Yes →  | Complete Appendix 1 of this form. Skip *Question 4* and use the forms in the appendix of the relevant ERA standard to calculate the proposed ERC decision completed in *Question 5.* If the application relates to a mining lease, form 5 and 6 in the ERA standard must be completed and attached to this application. |

CalculatorYou must use the department’s ERC calculator to calculate the ERC amount in accordance with the approved methodology described in the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994*’(ESR/2018/4425[[3]](#footnote-4)), and submit a completed ERC calculator workbook in Microsoft Excel format with this form. [ ]  The department’s calculator workbook has been completed and attached.  [ ]  Third party quotes in the form ‘Third party quotes for estimated rehabilitation cost’ (ESR/2021/5691[[4]](#footnote-5)) have been attached (if used).Proposed estimated rehabilitation costState the proposed amount and period for calculating the estimated rehabilitation cost below.

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| --- | --- |
| Maximum area of disturbance within ERC period  | Insert ha |
| Total estimated rehabilitation cost for the year of maximum liability within the ERC period. | $Insert. |
| ERC periodWhere a plan of operations applies – end date of the plan (e.g. 10 July 2025)Nominate a period of years and months between 1-5 years (e.g. 2 years and 6 months) where, 1. a PRCP schedule applies for the activity; or
2. the activity is a petroleum activity that is an ineligible ERA to which a plan of operations does not apply; or
3. the activity relates to a petroleum tenure granted under the *Petroleum Act 1923*

Otherwise – state “life of resource project” | Insert. |

Disturbance detailsIf your EA relates to an eligible activity, please skip to *Question 9*. For ineligible ERAs proposing an ERC period of over 1 year, the ERC must be calculated on the rehabilitation costs for the year in which the maximum liability is incurred within the ERC period. Provide justification for your nominated year of maximum liability below.

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| Year of maximum liability | Insert. |
| Justification  | Insert. |

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| See appendix 2 of this form.  | Rehabilitation planYou must complete and attach the table in Appendix 2 of this form, unless you have previously submitted information which meets the requirements in Appendix 2 (see options below). The information provided in the table must be consistent with any relevant plan of operations, progressive rehabilitation and closure plan or EA conditions and be specific to the year of maximum liability within the ERC period.[ ]  Appendix 2 has been completed and attached. **OR** If you have submitted a plan of operations, for the period to which this ERC application relates, for a petroleum activity that relates to all tenures under the relevant environmental authority, the information provided in the plan of operations may be used as supporting information in the ERC decision application.**Important note:** If the information in a plan of operations is to be used to satisfy the rehabilitation plan requirements of the ERC application, the rehabilitation program in the plan of operations is to include information about rehabilitation required for disturbance proposed to be undertaken in the plan period AND rehabilitation required for all existing disturbance.[ ]  I have chosen to use a plan of operations as supporting information for this application.**OR**If you have previously submitted a rehabilitation plan, post-mining land use plan or equivalent plan to the administering authority and the information is still current and relevant, you may use this plan instead of completing Appendix 2.

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| **Document title, version #, author and publication** | **Relevant section**  | **Page number** | **Date of submission** |
| Insert. | Insert. | Insert. | Insert. |

[ ]  I have chosen to use the document(s) above as supporting information for this application. |

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| More detail on the specific information requirements is provided in the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994*’ (ESR/2018/4425[[5]](#footnote-6)). If you require further clarification on the specific information requirements for your application you are encouraged to have a pre-lodgement meeting with the department, details for the application are at the start of this form.   | Other informationThis section is only applicable to ineligible ERAs. The applicant must submit any other relevant information requirements stated in the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994*’ (ESR/2018/44255).

| **Information requirement** | **Required (N/A or Yes)**If you select N/A you must provide justification.[[6]](#footnote-7)  |
| --- | --- |
| If the site to which the ERC application relates includes mine waste structures (such as waste rock dumps/overburden dumps, tailings dams, heap leach pads) or run of mine areas, you must provide information about the characterisation of materials, volume and location of material, stability of any structure(s), proposed capping method(s) and rehabilitation strategy, details of any field trials that have been undertaken and how any structure(s) were constructed. | Select. |
| Insert details or justification. |
| Where an EA or PRCP schedule that prescribes the cover system requirements has not been previously approved and the ERC application proposes an alternative to the prescribed rehabilitation requirements in the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994*’ (ESR/2018/44255) and the ERC calculator, the information requirements set out in Appendix C of this guideline must be complied with:[ ]  A field trial has been completed[[7]](#footnote-8) to demonstrate the construction and performance of an alternative cover system, that either:* has been established for a minimum of 5 consecutive years; OR
* is inclusive of at least a 1 in 10 average recurrence interval (ARI) dry event and a 1 in 100 ARI wet season event (for which artificial simulation through irrigation may be utilised) or 10 consecutive years of monitoring, whichever occurs sooner.

[ ]  The minimum documentation and information requirements as set out in Appendix C of the guideline ‘Estimated Rehabilitation cost under the *Environmental Protection Act 1994*’ (ESR/2018/44255) have been complied with.[ ]  A completion report has been attached.If any of the requirements in Appendix C of the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994*’ (ESR/2018/44255)’ are not complied with, an alternative cover system cannot be proposed. | Select. |
| Insert details or justification.  |
| Details of water management including but not limited to site water balance, dam capacity, dam construction, water quality, treatment of water (particularly acidic and saline). | Select. |
| Insert details or justification. |
| Material balance of all material to be mined and/or used in rehabilitation activities on site (e.g. topsoil, capping materials), including quantities of available material on site, location of proposed source of material and haul distances, and information about whether the material has been tested to ensure that it is suitable for the proposed purpose. | Select. |
| Insert details or justification. |
| For projects related to coal mining, the department has provided an outline of the expectations regarding topsoil application and treatments in Appendix B of the guideline ‘Estimated rehabilitation cost under the *Environmental Protection Act 1994*’ (ESR/2018/44255). Where an EA or PRCP schedule has not been previously approved by the department which prescribes topsoil application/treatment requirements, and the defaults outlined in Appendix B are not adopted, then evidence such as site-specific data or trial results must be provided to demonstrate that the proposed topsoil application and treatments can sufficiently achieve the post-mining land use. | Select. |
| Insert details or justification. |

[ ]  I have attached all information required[[8]](#footnote-9). If you have previously provided the required information to the administering authority and the information remains current and relevant, you may use that information for the application instead of attaching a new document.

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| **Document title, version #, author and publication** | **Information requirement**  | **Page number** | **Date of submission**  |
| Insert. | Insert. | Insert. | Insert. |

[ ]  I have chosen to use the document(s) above as supporting information for this application. |

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| Please refer to the department’s guideline ‘Spatial Information Submission’ (ESR/2018/43378) for information on how to submit spatial information. **Note: Where the ERC calculator is used, the calculator worksheets that are provided must include the spatial data map ID for each line item.** | Spatial information and mapsIneligible activities All ineligible activities must provide spatial information that illustrates the following site details:* Existing disturbance area
* Existing rehabilitation (certified and not certified) area
* Proposed disturbance area for the year of maximum liability (only mining activities)
* Proposed rehabilitation (certified and not certified) area for the year of maximum liability (only mining activities)

The spatial information must be prepared and submitted in accordance with the department’s guideline ‘Spatial Information Submission’ (ESR/2018/4337[[9]](#footnote-10)) and must include the information detailed in Attachment 1 of this form. [ ]  Spatial information has been submitted via email.**OR**If you have submitted a plan of operations for a petroleum activity that relates to all tenures under the relevant environmental authority, the spatial information provided in the plan of operations may be used as supporting information in the ERC decision application. [ ]  I have chosen to use my current plan of operations as supporting information for this application.Eligible activities All eligible activities must provide a map that illustrates the disturbance for the year of maximum liability over the life of the resource project, including the boundaries of the underlying tenure(s).The map(s) must be prepared and submitted in accordance with the department’s guideline ‘Spatial Information Submission’ (ESR/2018/43378). [ ]  A map has been attached. Compliance statementThis compliance statement **must** be completed by, or on behalf of, the environmental authority holder. Where an agreement is in place between all holders of the environmental authority, that one holder can sign on behalf of the other joint holders, please tick the below checkbox. [ ]  I have the authority to sign this form on behalf of all the joint holders of the environmental authority.The following information **must** be provided and forms part of your compliance statement. You may choose to provide this information as an attachment to this application form if you prefer.Please note: **It is an offence to give the administering authority information that is false, misleading or incomplete.**

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| Has the proposed estimated rehabilitation cost been worked out in compliance with the methodology stated in the Guideline Estimated rehabilitation cost under the *Environmental Protection Act 1994*? |
| [ ]  Yes |
| If a PRCP schedule or plan of operations applies for the resource activities, is the estimated rehabilitation cost consistent with the schedule or plan? |
| [ ]  Yes[ ]  NA – A PRCP schedule or plan of operations **does not** apply for the resource activity. |

I, Insert the name and position of the person making the compliance statement certify that I:* Am authorised to make this compliance statement by or for the holder/s of the environmental authority.
* Confirm that, to the best of my knowledge all information provided as part of this compliance statement, including attachments, addresses the relevant matters and is true, correct, complete, and does not contain misleading information.
* Have not knowingly failed to reveal any relevant information or document to the administering authority.
* Confirm that the opinions expressed in this compliance statement, including attachments, are honestly and reasonably held.
* Am aware that it is an offence under section 480 of the *Environmental Protection Act 1994*, to give the administering authority information that I know, or ought to reasonably know, to be false or misleading in a material particular.
* I am aware that under section 480A of the *Environmental Protection Act 1994* that, if I am required to give a document to the administrating authority, it is an offence to give a document that contains incomplete information in a material particular.
* Understand that all information supplied as part of this compliance statement, including attachments, can be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

|  |
| --- |
| SIGNATURE Insert. |
| NAMEInsert. |
| DATEInsert. |
| POSITION Insert. |
| CONTACT PHONE NUMBER Insert. |

**Note:** If the EA holder is a corporation it must be signed by an executive officer of the corporation. The executive officer must provide a letter of authorisation to delegate authority to sign the compliance statement on their behalf.  |
| Where there is more than one holder of the environmental authority, this declaration is to be signed by all holders, unless there is an agreement between all holders that one can sign on behalf of the other. **Note:** If only one holder is signing this application form, they are committing all holders to the content of the application and the declaration.  Where the environmental authority holder is a company, this form must be signed by an authorised person for that company. **Privacy statement**The Department of Environment, Science and Innovation is committed to protecting the privacy, accuracy and security of your personal information in accordance with the *Information Privacy Act 2009*. The department is collecting your personal information in accordance with section 298 of the *Environmental Protection Act 1994* in order to process your application. The information will only be accessed by authorised employees within the department. Some of this information may be given to the Department of Resources for the purpose of the joint regulation of mining activities. Some of this information may be provided to Queensland Treasury, the Scheme Manager under the *Mineral and Energy Resources (Financial Provisioning) Act 2018* (MERFP Act), or any advisors to the Scheme Manager to enable the Scheme Manager to carry out the Scheme Manager’s functions under the MERFP Act. Your information will not be given to any other person or agency unless you have given us permission or we are authorised or required by law. All information supplied on this form may be disclosed publicly in accordance with the *Right to Information Act 2009* and *Evidence Act 1977*. For queries about privacy matters email: **privacy@des.qld.gov.au** or telephone: 13 QGOV (13 74 68) **Further information**The latest version of this publication and other publications referenced in this document can be found at **www.qld.gov.au** using the relevant publication number (ESR/2018/44268) for this document) as a search term. | Declaration**Note:** If you have not told the truth in this application you may be prosecuted.Where an agreement is in place between all holders of the environmental authority, that one holder can sign on behalf of the other joint holders, please tick the below checkbox. [ ]  I have the authority to sign this form on behalf of all the joint holders of the environmental authority. I declare that: * I am the holder of the environmental authority or an authorised signatory.
* The information provided is true and correct to the best of my knowledge.
* I am aware that under section 480 of the EP Act that it is an offence to give the administering authority or an authorised person a document that contains information that I known, or ought reasonably know, to be false or misleading in a material particular.
* I am aware that under section 480A of the EP Act that, if I am required to give a document to the administrating authority, it is an offence to give a document that contains incomplete information in a material particular.
* I understand that failure to provide sufficient information may result in the application being refused.
* I understand that all information supplied on or with this application form may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

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| ENVIRONMENTAL AUTHORITY HOLDER’S NAME Insert name. |
| SIGNATURE |
| POSITION OF SIGNATORYInsert position. | DATEInsert date. |
| JOINT HOLDER’S NAME (IF APPLICABLE)Insert name. | JOINT HOLDER’S SIGNATURE (IF APPLICABLE) |
| JOINT HOLDER’S NAME (IF APPLICABLE)Insert name. | JOINT HOLDER’S SIGNATURE (IF APPLICABLE) |

If your application relates to an application to de-amalgamate an environmental authority, please submit this application and the de-amalgamation application using the contact details set out in the de-amalgamation application. For all other applications please submit your completed application form and supporting material to the Department of Environment, Science and Innovation office that services the industry applicable to your environmental authority as set out below. **Enquiries:****Energy and Extractive Resources Business Centre** GPO Box 2454Brisbane QLD 4000Phone: 07 3330 5715 Email: EnergyandExtractive@des.qld.gov.au**Minerals Business Centre** PO Box 7230 Cairns QLD 4870Phone: 07 4222 5352Fax: 07 4222 5070Email: ESCairns@des.qld.gov.au**Coal Business Centre** PO Box 3028Emerald QLD 4720Phone: 07 4987 9320Email: CRMining@des.qld.gov.au |

# Appendix 1—Schedule of Disturbance

Only eligible mining activities not using the ERC calculator are required to complete the table below. This table must be completed for the year of maximum liability for the life of the resource project.

|  |  |  |
| --- | --- | --- |
| **Disturbance type1** | **Comments2** | **Total Disturbance (ha)** |
| Insert. | Insert. | Insert. |
| Insert. | Insert. | Insert. |
| Insert. | Insert. | Insert. |
| Insert. | Insert. | Insert. |
| Insert. | Insert. | Insert. |
| Insert. | Insert. | Insert. |

1 A specific area of disturbance relevant to the activities undertaken under the environmental authority. Examples include pits, tracks, office areas, camps, etc.

2 The EA holder may add comments that relate to the disturbance type. For example the location of the disturbance, building details (e.g. 2 story building), material details, buildings that are demountable, infrastructure which will be maintained, etc.

# Appendix 2—Rehabilitation Plan

This table must provide a summary of the rehabilitation methodology required to restore the land to its post-mining land use. The information must be relevant to the whole site and for all disturbance within the year of maximum liability.

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| --- | --- | --- | --- |
| **Domain\*** | **Summary rehabilitation methodology** | **Rehabilitation works already undertaken** | **Post-mining land use\*\*** |
| *Roads, Tracks, Laydowns and Borrow Pits* | *Road:**Removal of aboveground infrastructure.**Strip capping material and reprofile pad.**Reinstate natural drainage lines and contours.**Reinstate topsoil.**Application of seed and fertiliser.**Installation of erosion and sediment controls as required.**Installation of fencing as required.* | *Nil, sites are still active.* | *Grazing* |
| Insert. | Insert. | Insert. | Insert. |
| Insert. | Insert. | Insert. | Insert. |
| Insert. | Insert. | Insert. | Insert. |

\* List each domain that applies to the relevant operation. This must be consistent with the domains used in the DESI calculator.

\*\* Post-mining land use must be consistent with any relevant plan of operations, PRC plan and/or EA conditions.

# Attachment 1—Spatial data requirements for estimated rehabilitation cost

Attachment 1 provides guidance on the required content of spatial data for the submission of areas of disturbance and rehabilitation on site as authorised under an environmental authority. This attachment should be read in conjunction with the guideline Spatial Information Submission prepared by the department. To obtain a copy of the guideline visit [www.qld.gov.au](http://www.qld.gov.au) and search for “ESR/2018/4337[[10]](#footnote-11)”. The following sections provide information about the required fields and attributes for both petroleum and mining activities.

Each geometry type must be submitted in a separate file, as outlined within tables 1 and 3. Each file must be named in accordance with the requirements outlined within the department’s guideline: Spatial Information Submission (ESR/2018/433710).

**Petroleum activities**

*Table 1: Shapefiles for petroleum activities*

|  |  |  |  |
| --- | --- | --- | --- |
| **File** | **Spatial information requirement** | **Schema** | **Example file name (e.g. using submission date of 30 June 2023)** |
| 1 | Disturbance, rehabilitation and/or certified rehabilitation on site – points  | Table 2 | EPPR00372287 \_ERCP\_PT\_30062023.zip. |
| 2 | Disturbance, rehabilitation and/or certified rehabilitation on site - lines | Table 2 | EPPR00372287 \_ERCP\_LN\_30062023.zip. |
| 3 | Disturbance, rehabilitation and/or certified rehabilitation on site - polygons | Table 2 | EPPR00372287 \_ERCP\_PY\_30062023.zip. |

Where:

|  |  |
| --- | --- |
| * ERCP = Estimated Rehabilitation Cost Petroleum
 | * LN = line (geometry)
 |
| * PT = point (geometry)
 | * PY = polygon (geometry)
 |

Table 2 comprises the schema for disturbance and rehabilitation data. It is important to note that a number of options are provided for some fields however, only one value for each field should be populated from the available list. Please refer to the definitions column for guidance in determining field values for disturbance and rehabilitation polygons.

A spreadsheet containing the schema and a shapefile templates are available on the Queensland Government website at [www.qld.gov.au](http://www.qld.gov.au/environment) and using ‘submission of spatial information’ as a search term.

**Important note:** where the information provided in a plan of operations is to be used to satisfy the spatial information requirements in the ERC application, the plan of operations **must** include all disturbance and rehabilitation activities under all tenures of the environmental authority (including 1923 petroleum leases, ATP’s etc.).

Table 2: Schema for petroleum activities (ERCP) - disturbance and rehabilitation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field Name** | **Type** | **Length** | **Definition** | **Domain Values[[11]](#footnote-12)1** | **Domain Value Description** | **Mandatory/ Optional** |
| **PERMIT\_REF** | TEXT | 50 | The alpha-numeric environmental authority number relevant to the spatial information. |  |  | Mandatory |
| **PROCESS** | TEXT | 4 | The relevant process spatial data is being submitted for. | AR | Annual Return | Mandatory |
| ERCP | Estimated Rehabilitation Cost Petroleum |
| PoO | Plan of Operations |
| **SITE\_NAME** | TEXT | 254 | Site name relating to the environmental authority. |  |  | Mandatory |
| **SITE\_ID** | TEXT | 20 | This field contains a unique identifier for the spatial feature, which has been generated by the proponent. |  |  | Mandatory for ARs. And PoO. Optional for ERCs. |
| **MAP\_ID** | TEXT | 5 | Mandatory for all features listed in the ERC calculator. Features not listed in the ERC calculator do not require a MAP\_ID to be provided. Not required for ARs. |  |  | Mandatory for all features listed in the ERC calculator. Features not listed in the ERC calculator do not require a MAP\_ID to be provided. Not required for ARs. |
| **DATE\_START** | DATE | dd/mm/yyyy | This field indicates the reporting commencement date e.g. 01/01/2023. |  |  | Mandatory |
| **DATE\_END** | DATE | dd/mm/yyyy | This field indicates the reporting end date e.g. 31/12/2023. |  |  | Mandatory |
| **STATUS** | TEXT | 2 | This field relates to the status of the activity in terms of rehabilitation or disturbance. Polygons which represent areas of disturbance should describe this field as ‘D1’ for disturbance. Polygons which represent areas of rehabilitation should describe this field as either R1, R2 or R3 depending on the status of the rehabilitation. R1 - indicates that rehabilitation works have commenced on ground.R2 - indicates where rehabilitation has been completed but not certified in accordance with the EP Act.R3 - indicates areas of completed and certified rehabilitation in accordance with the EP Act. | D1 | Disturbance | Mandatory |
| R1 | Rehabilitation Commenced (non-certified) |
| R2 | Completed Rehabilitation (for which progressive certification has not yet been approved in accordance with the EP Act) |
| R3 | Certified Rehabilitation (for which progressive certification has been approved in accordance with the EP Act) |
| **SOURCE** | TEXT | 5 | This field identifies the source of the spatial information and the capture methodology for the spatial information provided. | DIG | Digitising (Tracing over Ortho Imagery) | Mandatory |
| GPSD | GPS Differential Survey |
| GPSND | GPS Non Differential Survey |
| RTK | Real-Time Kinematic (RTK) Survey |
| UK | Unknown |
| **ACT\_TYPE** | TEXT | 4 | This field indicates the type of activity. If the activity is for rehabilitation, please select the previous activity for the area. If your activity is not available from the list and the ACTIVITY\_TYPE is selected as 'Other', you must select the appropriate domain in the DOMAIN\_TYPE field and provide information on the activity type in the COMMENTS field. | AW | Appraisal Well (Point) | Mandatory for ERC and PoO. Not required for Annual Returns. |
| Core | Core hole (Point) |
| OGW | Conventional oil/gas well (Point) |
| OW | Operational Well (Point) |
| GPA | Gas pipeline (above ground) (Line) |
| GPB | Gas pipeline (below ground) (Line) |
| OPA | Oil pipeline (above ground) (Line) |
| OPB | Oil pipeline (below ground) (Line) |
| PL | Power Lines (Line) |
| WPA | Water pipeline (above ground) (Line) |
| WPB | Water pipeline (below ground) (Line) |
| AT | Access Track (Polygon) |
| BP | Borrow Pit (Polygon) |
| CT | Communication tower (Polygon) |
| DTB | Demountable / temporary building (Polygon) |
| GPF | Gas processing facility (Polygon) |
| LF | Landfill~~s~~ (Polygon) |
| LNGP | LNG plant (Polygon) |
| LY | Laydown yard (Polygon) |
| NRDL | Non-regulated dam - lined (Polygon) |
| NRDU | Non-regulated dam - unlined (Polygon) |
| OSF | Oil storage facility (Polygon) |
| PB | Stand-alone permanent building (Polygon) |
| PC | Permanent camp (Polygon) |
| PGF | Power generation facility (Polygon) |
| RDL | Regulated dam - lined (Polygon) |
| RDU | Regulated dam - unlined (Polygon) |
| Road | Road (Polygon) |
| RoW | Right of way (Polygon) |
| STP | Sewage treatment plant (Polygon) |
| S2D | Seismic 2D (Polygon) |
| S3D | Seismic 3D (Polygon) |
| TC | Temporary camp (Polygon) |
| WaTS | Water transfer station (Polygon) |
| WP | Well pads (Polygon) |
| WTP | Water treatment plant (Polygon) |
| WTS | Waste transfer station (Polygon) |
| OTH | Other (Point, Line, Polygon) |
| **DOM\_TYPE** | TEXT | 4 | This field indicates the domain for the petroleum activity.If the activity is for rehabilitation, please select the domain of the previous activity for the area. If the ACTIVITY\_TYPE = 'Other', select the relevant domain to the activity type. | Exp | Exploration | Mandatory for ERC and PoO. Not required for Annual Returns. |
| RTLB | Roads, tracks, laydown, borrow pits |
| CB | Camps, Buildings and Sewage Treatment Plants |
| PGD | Power generation and distribution facility |
| WPI | Well Pads and associated infrastructure  |
| Pipe | Pipelines |
| GOF | Gas processing facility or Oil Storage |
| WTTS | Water treatment plants and transfer stations |
| WS | Water Storage infrastructure |
| LNG | LNG plant |
| AA | Additional Activities |
| **REHAB\_ACT** | TEXT | 254 | This field provides a description of the rehabilitation activities which have been undertaken to date. Mandatory if STATUS = R1. |  |  | Mandatory if STATUS = R1 for ERC or PoO. Not required for Annual Returns. |
| **AREA\_HA** | DOUBLE | N/A | This field indicates the area in Hectares. (Polygon only) |  |  | Mandatory if GEOMETRY = polygon. |
| **COMMENTS** | TEXT | 254 | A free text field has been provided to include any additional information the proponent wishes to provide in relation to the data or to provide a description for activities which are not included in this table. |  |  | Mandatory if ACT\_TYPE = OTH. |

**Mining activities**

*Table 3: Shapefiles for mining activities*

|  |  |  |  |
| --- | --- | --- | --- |
| **File** | **Spatial information requirement** | **Schema** | **Example file name (e.g. using submission date of 30 June 2023)** |
| 1 | Proposed and existing disturbance, rehabilitation and/or certified rehabilitation on site – points  | Table 4 | EPPR00372287 \_ERCM\_PT\_30062023.zip. |
| 2 | Proposed and existing disturbance, rehabilitation and/or certified rehabilitation on site - lines | Table 4 | EPPR00372287 \_ERCM\_LN\_30062023.zip. |
| 3 | Proposed and existing disturbance, rehabilitation and/or certified rehabilitation on site - polygons | Table 4 | EPPR00372287 \_ERCM\_PY\_30062023.zip. |

Where:

|  |  |
| --- | --- |
| * ERCM = Estimate Rehabilitation Cost Mining
 | * LN = line (geometry)
 |
| * PT = point (geometry)
 | * PY = polygon (geometry)
 |

Table 4 comprises the schema for disturbance and rehabilitation data. It is important to note that a number of options are provided for some fields, however only one value for each field should be populated from the available list. Please refer to the definitions column for guidance in determining field values for disturbance and rehabilitation polygons.

A spreadsheet containing the schema and a shapefile template is available on the Queensland Government website at [www.qld.gov.au](http://www.qld.gov.au/environment) and using ‘submission of spatial information’ as a search term.

Table 4: Schema for mining activities (ERCM) - disturbance and rehabilitation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field Name** | **Type** | **Length** | **Definition** | **Domain Values[[12]](#footnote-13)1** | **Domain Value Description** | **Mandatory/ Optional** |
| **PERMIT\_REF** | TEXT | 50 | The alpha-numeric environmental authority number relevant to the spatial information.  |  |  | Mandatory |
| **PROCESS** | TEXT | 4 | The relevant process spatial data is being submitted for. | AR | Annual Return | Mandatory |
| ERCM | Estimated Rehabilitation Cost Mining |
| **SITE\_NAME** | TEXT | 254 | Site name relating to the environmental authority. |  |  | Mandatory |
| **SITE\_ID** | TEXT | 20 | This field contains a unique identifier for the spatial feature, which has been generated by the proponent. |  |  | Mandatory for ARs. Optional for ERCs. |
| **MAP\_ID** | TEXT | 5 | Mandatory for all features listed in the ERC calculator. Features not listed in the ERC calculator do not require a MAP\_ID to be provided. Not required for ARs. |  |  | Mandatory for all features listed in the ERC calculator. Features not listed in the ERC calculator do not require a MAP\_ID to be provided. Not required for ARs. |
| **DATE\_START** | DATE | dd/mm/yyyy | This field indicates the reporting commencement date e.g. 01/01/2023. |  |  | Mandatory |
| **DATE\_END** | DATE | dd/mm/yyyy | This field indicates the reporting end date e.g. 31/12/2023. |  |  | Mandatory |
| **STATUS** | TEXT | 3 | This field relates to the status of the activity in terms of rehabilitation or disturbance. Polygons which represent areas of disturbance should describe this field as ‘D1’ for disturbance. Polygons which represent areas of proposed disturbance should describe this field as 'PD'.Polygons which represent areas of rehabilitation should describe this field as either R1, R2 or R3 depending on the status of the rehabilitation. R1 - indicates that rehabilitation works have commenced on ground.R2 - indicates where rehabilitation has been completed but not certified in accordance with the EP Act.R3 - for areas of completed and certified rehabilitation in accordance with the EP Act. Polygons which represent areas of proposed rehabilitation should describe this field as PR1, PR2 or PR3. PR1 - indicates that rehabilitation works are proposed to commence on ground. PR2 - indicates where rehabilitation works are proposed to be completed by not certified in accordance with the EP Act.PR3 - indicates areas of rehabilitation proposed to be completed and certified under the EP Act.Improvement areas must be provided if the PRCP Schedule contains an approved non-use management area. Polgyons which represent areas of improvement should describe this field as either IC, PIC, IA or PIA. IC - indicates the area where improvement commenced in the reporting period.PIC - indicates the area where additional improvement is proposed to be commenced in the next reporting period.- IA indicates the area that has achieved sufficient improvement in the reporting period.PIA - indicates the area where it is proposed to achieve sufficient improvement in the next reporting period. | D1 | Disturbance | Mandatory |
| PD | Proposed Disturbance |
| R1 | Rehabilitation Commenced (non-certified) |
| R2 | Completed Rehabilitation (for which progressive certification has not yet been approved in accordance with the EP Act) |
| R3 | Certified Rehabilitation (for which progressive certification has been approved in accordance with the EP Act) |
| PR1 | Proposed rehabilitation commenced (non-certified) |
| PR2 | Proposed rehabilitation completed (for which progressive certification has not yet been approved in accordance with the EP Act) |
| PR3 | Proposed rehabilitation certified (in accordance with the EP Act) |
| IC | Improvement commenced |
| PIC | Proposed improvement commenced |
| IA | Sufficient improvement achieved |
| PIA | Proposed sufficient improvement achieved |
| **SOURCE** | TEXT | 5 | This field identifies the source of the spatial information and the capture methodology for the spatial information provided. | DIG | Digitising (Tracing over Ortho Imagery) | Mandatory |
| GPSD | GPS Differential Survey |
| GPSND | GPS Non Differential Survey |
| RTK | Real-Time Kinematic (RTK) Survey |
| UK | Unknown |
| **ACT\_TYPE** | TEXT | 4 | This field indicates the type of activity. If the activity is for rehabilitation, please select the previous activity for the area. If your activity is not available from the list and the ACTIVITY\_TYPE is selected as 'Other', you must select the appropriate domain in the DOMAIN\_TYPE field and provide information on the activity type in the COMMENTS field. | BH | Bore hole (Point) | Mandatory for ERCs. Not required for Annual Returns |
| DH | Drill hole (Point) |
| VS | Ventilation Shafts (Point) |
| Con | Conveyor (Line) |
| FL | Fence Line (Line) |
| Pip | Pipeline (Line) |
| PL | Power Lines (Line) |
| RL | Rail Line (Line) |
| AT | Access Track (Polygon) |
| Bui | Building (Polygon) |
| BP | Borrow Pit (Polygon) |
| CA  | Cleared area (Polygon) |
| Camp | Camp (Polygon) |
| CDA | Co-disposal area (Polygon) |
| CP | Concrete pad (Polygon) |
| CT | Communication tower (Polygon) |
| EOWS | Evaporation and other unlined water storage (Polygon) |
| GI | Gas Infrastructure (Polygon) |
| HLP | Heap leach pad (Polygon) |
| HR | Mine Haul Road (Polygon) |
| LF | Landfill (Polygon) |
| LY | Laydown yard (Polygon) |
| OD | Overburden dump (Polygon) |
| OWS | Other water storage (Polygon) |
| OWST | Other water structures (Polygon) |
| Pit | Pit (Polygon) |
| PPE | Processing plant and equipment (Polygon) |
| PWS | Process water storage (Polygon) |
| Ramp | Ramp (Polygon) |
| RLF | Rail loading facility (Polygon) |
| Road | Road (Polygon) |
| RomP | Run of Mine (ROM) Pad (Polygon) |
| RoW | Right of way (Polygon) |
| RS | Regulated structure (Polygon) |
| RWS | Raw water storage (Polygon) |
| SBH | Silo/bin/hopper (Polygon) |
| SP | Spoil pile (Polygon) |
| STP | Sewage treatment plant (Polygon) |
| Sub | Subsidence (Polygon) |
| SY | Switchyard (Polygon) |
| Tank | Tank (Polygon) |
| TS | Topsoil stockpile (Polygon) |
| TSF | Tailings storage facility (Polygon) |
| TStr | Topsoil Stripping (Polygon) |
| UW | Underground workings (Polygon) |
| UND | Undisturbed Land (Polygon) |
| WRD | Waste rock dump (Polygon) |
| OTH | Other (Point, Line, Polygon) |
| **DOM\_TYPE** | TEXT | 5 | This field indicates the domain for the Mining activity.If the activity is for rehabilitation, please select the domain of the previous activity for the area. If the ACTIVITY\_TYPE = 'Other', select the relevant domain to the activity type. | Exp | Exploration | Mandatory for ERCs. Not required for Annual Returns. |
| Inf | Infrastructure |
| WS | Water storage |
| WT | Water treatment and pumping |
| PE | Process and Heavy Equipment |
| WRODP | Waste rock dumps, overburden dumps, spoil piles and stockpiles |
| HLP | Heap Leach Pads |
| TSF | Tailings Storage Facilities , Rejects, Slimes, Slimes Storage Facilities |
| Pit | Pits |
| UM | Underground mines |
| PO | Ports |
| AA | Additional activities |
| **REHAB\_ACT** | TEXT | 254 | This field provides a description of the rehabilitation activities which have been undertaken to date. Mandatory if STATUS = R1 or STATUS = PR1. Not required for Annual Returns. |  |  | Mandatory IF STATUS = R1 OR STATUS = PR1. Not required for Annual Returns. |
| **AREA\_HA** | DOUBLE | N/A | This field indicates the area in Hectares. (Polygon only) |  |  | Mandatory if GEOMETRY = polygon. |
| **COMMENTS** | TEXT | 254 | A free text field has been provided to include any additional information the proponent wishes to provide in relation to the data or to provide a description for activities which are not included in this table. |  |  | Mandatory for ERCs if ACT\_TYPE = OTH. Optional for Annual Returns. |

1. The Department of Environment, Science and Innovation is the administering authority under the *Environmental Protection Act 1994*. [↑](#footnote-ref-2)
2. This is the publication number. The publication number can be used as a search term to find the latest version of a publication at **www.qld.gov.au**. [↑](#footnote-ref-3)
3. This is the publication number. The publication number can be used as a search term to find the latest version of a publication at **www.qld.gov.au**. [↑](#footnote-ref-4)
4. This is the publication number. The publication number can be used as a search term to find the latest version of a publication at **www.qld.gov.au**. [↑](#footnote-ref-5)
5. This is the publication number. The publication number can be used as a search term to find the latest version of a publication at **www.qld.gov.au**. [↑](#footnote-ref-6)
6. If any of the other information listed in this section is not applicable to the site, the EA holder must state why it is not applicable (e.g. the site does not have a mine waste structure). [↑](#footnote-ref-7)
7. More detailed requirements for field trials, including the use of results from rehabilitation trials carried out on similar or neighbouring sites, are provided in Appendix C of the guideline ‘Estimated Rehabilitation cost under the *Environmental Protection Act 1994*’ (ESR/2018/4425). [↑](#footnote-ref-8)
8. To assist in the assessment process, attachments should be provided as separate PDF files which are not locked, restricted, or scanned. [↑](#footnote-ref-9)
9. This is the publication number. The publication number can be used as a search term to find the latest version of a publication at **www.qld.gov.au**. [↑](#footnote-ref-10)
10. This is the publication number. The publication number can be used as a search term to find the latest version of a publication at **www.qld.gov.au**. [↑](#footnote-ref-11)
11. 1 If blank, populate based on Attribute type & definition [↑](#footnote-ref-12)
12. 1 If blank, populate based on Attribute type & definition [↑](#footnote-ref-13)