

# Environmental Effects Report Guidelines (Extractive Industry)

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Quarrying and Materials

Handling for Dam Works, 131

Shrub End Road, Pawleena



ENVIRONMENT PROTECTION AUTHORITY

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## Introduction

### Purpose of the Guidelines

These Guidelines provide instructions for proponents on how to prepare an Environmental Effects Report (EER) for an activity being assessed in Tasmania by the Board of the Environment Protection Authority (the Board). An EER is a document that provides information about the environmental impacts of the proposed activity and the proposed mitigation measures. The Board uses the EER as a 'case for assessment', to assess the environmental impact of an activity, as required under the *Environmental Management and Pollution Control Act 1994* (EMPCA).

Guidelines will be adapted for each proposal, where Part B and Part C include project-specific information requirements. The EER must be prepared in accordance with the project-specific Guidelines, which are issued under section 74(4) of the EMPCA.

The EER will be advertised during the public consultation period and remain publicly available on the EPA website. After consultation, the proponent may be required to supply additional information in response to public and government agency submissions. This generally takes the form of a Supplement to the EER.

Further information is available on the [EPA Assessment Process](#)<sup>1</sup> website.

### Preparing an EER

The EER should contain five parts as follows:

- Part A – information about the proponent
- Part B – information about the proposal, site and area
- Part C – information about potential environmental impacts
- Part D – description of the proposed management measures
- Part E – description of any public consultation undertaken

Other relevant information, such as survey reports, should be attached to the EER as appendices.

The EER must be typed, A4 sized and submitted electronically (in a searchable format). All images must be of high quality, have a descriptive caption, and be capable of being easily copied and pasted into other documents such as a permit (i.e., all objects should be 'grouped'). All maps, plans, and aerial photographs must be oriented in the same direction as far as practicable and include a north arrow and scale.

The content of the EER should be prepared using a risk based approach. The level of detail provided on each issue should be appropriate to the level of significance of that environmental issue to the proposal. Not all issues nominated in these Guidelines will have the same degree of relevance to the proposed activity. Depending on the nature of the proposed activity and its location, some of the issues may be more relevant than others, while others may not be applicable at all.

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<sup>1</sup> Available at <https://epa.tas.gov.au/assessment/assessment-process>.

## Planning Information

Where the proposal is subject to a permit under the *Land Use Planning and Approvals Act 1993* (LUPAA), information required solely for the purpose of assessment under the relevant Planning Scheme should be supplied to Council either:

- as a separate response to an additional information request from Council under section 54 of the LUPAA, where the planning application has commenced the environmental assessment process; or
- where it forms part of a combined planning and Environmental Effects Report, distinguished from information supplied for the purpose of the Board's assessment.

## Commonwealth Legislation

The Commonwealth Government may also have a role in the environmental assessment and approval of the proposed activity. Approval under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) is required for an action which is on Commonwealth land or is likely to have a significant impact on a matter of national environmental significance.

Information on the EPBC Act can be obtained from the [Australian Government Department of Climate Change, Energy, the Environment and Water](https://www.environment.gov.au/epbc) website<sup>2</sup>, or by calling 1800 803 772.

**The EER must include a statement on whether Commonwealth approval is likely to be required.**

## Environment Protection Authority Contact

For information about the assessment process, contact the Environmental Assessment Branch:

GPO Box 1550

Hobart, Tasmania 7001

Telephone: 0427743988

Email: [assessments@epa.tas.gov.au](mailto:assessments@epa.tas.gov.au)

Website: [www.epa.tas.gov.au](http://www.epa.tas.gov.au)

At least one draft of the EER should be submitted for review prior to formal submission to the Board. This should be emailed or file shared to [assessments@epa.tas.gov.au](mailto:assessments@epa.tas.gov.au) and your nominated contact officer.

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<sup>2</sup> Available at [www.dcceew.gov.au/environment/epbc](https://www.dcceew.gov.au/environment/epbc).

## Content of EER

### Part A – Proponent Information

Provide the following information regarding the proponent:

<b>Proponent entity name</b>	(Consistent with any intended or current permit application for the activity under the LUPAA)
<b>Proponent trading name</b>	
<b>Registered address of proponent</b>	
<b>Postal address of proponent</b>	
<b>ABN/ACN of proponent</b>	
<b>Contact person's details</b>	Name Telephone number Email address
<b>Consultant's details</b>	Name Telephone number Email address

If a different entity will operate the activity after construction, provide similar details for that entity also.

## Part B – Proposal Description

Where the proposal is subject to a permit application under the LUPAA, the proposal description and specification of the site must be consistent with the intended or current permit application. Any works or activity that are for the purpose of the proposal (e.g., access works) must be included.

### I. Description of proposed activity

Complete the following tables and provide additional text, diagrams or flowcharts as required.

#### Proposed Activity

<b>Activity</b>	Provide a general description of the proposed activity, including the classification of the activity under Schedule 2 of the EMPCA.
<b>New or existing?</b>	State if this is an intensification/modification of an existing activity or a new activity.
<b>Product</b>	Describe the purpose and product of the activity.
<b>Maximum extraction quantity</b>	Provide in cubic metres and tonnes per year and state the conversion factor. Briefly describe any seasonal variation. State whether there will be a maximum depth of extraction for the site.
<b>Maximum processing quantity</b>	Provide in cubic metres and tonnes per year (i.e., crushing, grinding, screening).
<b>Method/s</b>	State the method(s) of material extraction and processing and main items of equipment involved.
<b>Transport</b>	Describe the proposed transport route (can refer to figures), vehicle types, number of vehicle movements (per day), and time of day of vehicle movements.
<b>Stockpiling</b>	State the materials that will be stockpiled on site.
<b>Area of disturbance</b>	State: <ul style="list-style-type: none"> <li>• Maximum area of the site proposed to be disturbed (unrehabilitated) at any time, in hectares.</li> <li>• Total area of land to be cleared over the life of the proposal, in hectares.</li> </ul>
<b>Major equipment</b>	List all existing and proposed plant/machinery and other temporary or permanent equipment (distinguish between existing and proposed).
<b>Infrastructure</b>	List the existing and proposed buildings, structures, access roads, internal haul roads, stormwater infrastructure etc. (distinguish between existing and proposed).
<b>Proposal timeline</b>	State the key proposal timeline(s) and forecast life of the activity.
<b>Operating hours</b>	State the proposed operating hours and days.

#### Location and planning context

<b>Location</b>	State the address of the site, and CTs and PIDs (as applicable) for all titles on which the activity will take place.
<b>Planning permit</b>	Confirm whether a Planning Permit is required under the LUPAA. As an appendix, provide written advice from Council stating the requirement, if a planning application has not already been lodged.

<b>Land zoning and tenure</b>	Describe the land zoning and tenure of the site and surrounds. If rezoning of the site is required, provide details.
<b>Use Class and Permissibility</b>	If a permit is required under the LUPAA, state the Use Class and Permissibility of the activity under the relevant Planning Scheme.
<b>Mining lease (ML)</b>	Provide the ML reference number(s), status (granted/applied for), and size of the lease area(s), if applicable.

### Description of site and surrounds

<b>Land use</b>	Describe the land use of the site and surrounds, distance to the nearest residences, and any nearby conservation reserves or recreation areas.
<b>Topography</b>	Describe the topography of the site and surrounds.
<b>Climate</b>	State the annual rainfall, average temperatures and predominant wind direction (provide wind roses if possible).
<b>Geology</b>	Describe the geology of the site, including the likelihood that potentially acid forming (PAF) material will be found on site. Describe any geoconservation values on or near the site (e.g., karst).
<b>Soils</b>	Describe the soils on the site (including erodibility), and state whether there is potential to encounter acid sulphate soils and/or contaminated soil.
<b>Hydrology</b>	Describe the waterbodies and aquatic values on site and in the surrounding area. State the distance from the activity to the nearest waterbody.
<b>Natural Values</b>	State the vegetation types on and near the site. List the threatened fauna, flora and vegetation communities known to occur on or near the site (use the Natural Values Atlas, TASVEG 4.0 <sup>3</sup> or results of a relevant survey).

## 2. Maps and site plan/s

To enhance understanding of the proposal, spatial information should be presented in maps, plans, diagrams and photographs. These must be of high quality and reproducible in monochrome with all text and relevant features clearly visible. Maps and plans should include a north arrow and scale. When spatial data (including maps, plans, grid coordinates and heights) are provided or referred to, the coordinate reference system must be specified. At a minimum, provide the following:

- **General Location Map** (1:25,000 or other suitable scale), showing the Mining Lease, the nearest residences in other ownership, other sensitive uses<sup>4</sup> and residential zones within 1.5 km of the proposed activity and within the applicable attenuation distance<sup>5</sup>, and the transport route(s) to and from the activity.
- **Map of the Land** on which the activity will take place and its boundary; by means of mining lease, land title information, map coordinates or other. The Land as defined by this figure must be consistent with any permit application submitted under the LUPAA (i.e., the Land cannot extend beyond the land titles referenced in the permit application). This figure may be combined with the

<sup>3</sup> Both can be accessed at: <https://www.naturalvaluesatlas.tas.gov.au/>.

<sup>4</sup> Defined in the State Planning Provisions as 'a residential use or a use involving the presence of people for extended periods except in the course of their employment such as a caravan park, childcare centre, dwelling, hospital or school.'

<sup>5</sup> Refer to relevant planning scheme or State Planning Provisions.



Site Plan. The boundary of the Land should also be provided to the Board in a geospatial vector format (shapefile or DXF).

- **Site Plan(s)** showing:
  - the boundary of the site;
  - the location of existing and proposed buildings/structures and plant and machinery;
  - the location of product, overburden, soil, and waste stockpiles;
  - the planned development (staging) of the quarry or extractive pit;
  - the location and orientation of benches and development of infrastructure at key stages;
  - watercourses on and near the site;
  - site water management (drains, settling ponds, bunding and monitoring points, as relevant);
  - vegetation types, clearly marking areas to be cleared, and records of any threatened species/vegetation communities; and
  - the location of any significant earthworks.

### 3. Project rationale and alternatives

- Explain the rationale for the proposal.
- Evaluate the benefits and disadvantages of any alternative options that have been considered.

## Part C – Environmental Impacts and Management

The EER should evaluate all potential impacts of the proposal, with the level of detail provided on each issue reflecting its level of significance. For each issue, describe how the impact assessment has been performed (for example, surveys or desktop studies). Describe the existing environment in relation to the impact, including the vulnerability of the potentially affected environment. Clearly articulate the potential impacts, identifying plausible worst case scenarios and the reversibility of the impact. Then, describe the management or contingency measures proposed to avoid, mitigate or offset potential adverse impacts. Detail any specialist recommendations which have/will be implemented or justify otherwise. Finally, analyse how and to what degree the impacts will have been avoided, minimised or offset, and any residual impacts.

### I. Noise emissions and blasting

Discuss potential impacts of noise emissions and blasting from the proposed activity on sensitive receptors and background (surrounding) noise levels. A noise impact assessment report is required and must be appended to the EER. As a minimum, the report and a discussion of its results should:

- Identify (on a site plan) and describe all noise sensitive premises<sup>6</sup> potentially affected by noise and vibration from the proposal.
- Identify all major fixed and mobile sources of noise for the proposed activity (e.g., crusher/screen, loader, excavator, haul truck, rock drill) and provide for each piece of equipment:
  - A description;
  - Mapped location;
  - Estimated sound power level and proposed hours of operation;
  - Expected daily duration / frequency of emissions; and
  - Measures that will be implemented to attenuate noise emissions, including any intrusive noise characteristics.
- Describe the vehicle types, number of vehicle movements, times of movements and route(s), including proposed changes in traffic flows. Discuss the potential for noise from off-site vehicle movements to impact upon sensitive receptors.
- Describe local environmental conditions that would influence the impact of noise emissions and blasting, including:
  - Prevailing wind speed and direction;
  - Atmospheric conditions; and
  - Terrain and topography.
- Conduct a minimum of 7 days of noise monitoring for daytime, evening, and night-time periods, to evaluate the existing background noise levels at the subject site and at noise sensitive premises.
- Predict noise emissions from the proposed activity at noise sensitive premises. Results of noise modelling should predict the 30, 35, 40, and 45 dB(A) noise level contours for normal and reasonable worst-case scenarios for operating activities and meteorological conditions.

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<sup>6</sup> 'Noise sensitive premise' is defined as: residences and residential zones (whether occupied or not), schools, hospitals, caravan parks and similar land uses involving the presence of individual people for extended periods, except in the course of their employment or for recreation.

- Discuss the need for blasting and the expected number of blasts per year. For the proposed blasting activities, modelling is required and must be undertaken by a suitably qualified and independent third party. Discuss the results of:
  - Ground vibration modelling to predict peak particle velocity contours out to 1 mm/s.
  - Airblast overpressure modelling to predict dB(lin) level contours out to 100 dB(lin).
- A Blast Management Plan is required for the proposal and must be appended to the EER. The Blast Management Plan should include a program for the notification of blasting, noise and vibration monitoring, the response to any vibration and/or overpressure related complaints, and incident reporting.
- Describe the potential for environmental nuisance at sensitive receptors from noise and vibration, taking into account the predicted levels and changes in noise characteristics such as tonal components, increases in noise level, and the time varying nature of emissions (e.g., modulation, impulsive, or intermittent noise).
- Assess the potential for environmental nuisance and human health impacts from noise and vibration on sensitive receptors based on the relevant noise and vibration criteria.
- Provide details of all assumptions and noise attenuation factors adopted for the noise impact assessment.
- Demonstrate how the proposal is consistent with the *Environment Protection Policy (Noise) 2009*<sup>7</sup>.

## 2. Air quality

Discuss potential impacts of the proposed activity on local air quality and provide evidence that the activity would not cause environmental nuisance or harm. In addition to assessing the aspects of air pollution and dust control described in section 7.5 of the *Quarry Code of Practice*<sup>8</sup>, this should:

- Identify and show on a site plan all sensitive receptors that could potentially be affected by fugitive dust and particulate matter emissions from activities at the quarrying site and construction of the dam, especially during unfavourable meteorological conditions.
- Identify (on a site plan) and characterise all sources of dust emissions from the site, including the laydown area. This includes but is not limited to dust generated from the disturbed topsoil/vegetation clearing, levelling/compacting, stockpiles, drilling, blasting, excavating, loading/unloading, and traffic movements on and off site.
- Provide details of the materials handled and equipment used on the site. Provide the location of the equipment.
- Discuss and assess the potential impact of fugitive dust and particulate matter emissions from the proposed activity on the environment and the likelihood for the activity to cause environmental nuisance or harm at or beyond the site boundary. Consider local terrain and meteorological conditions including annual rainfall, the direction and strength of prevailing winds, and land use in the vicinity of the quarry.
- Describe any measures to reduce dust movement from the site, especially during unfavourable meteorological conditions. This may include but not be limited to watering or sealing roads, covering of truck loads, reduced vehicle speed, road surfacing/maintenance details, enclosures, water sprays, windbreaks, and revegetation/stabilisation. Discussion of the ongoing requirement to provide an adequate water supply should be included.

<sup>7</sup> Available at [https://epa.tas.gov.au/policy/statutory-policies/state-policies-and-environment-protection-policies/environment-protection-policy-\(noise\)-2009](https://epa.tas.gov.au/policy/statutory-policies/state-policies-and-environment-protection-policies/environment-protection-policy-(noise)-2009).

<sup>8</sup> Available at <https://epa.tas.gov.au/business-industry/regulation/industrial-activities/mining-and-extractive>.

- Demonstrate how the proposal is consistent with the requirements of the *Tasmanian Environment Protection Policy (Air Quality) 2004*<sup>9</sup> and any supplementary documents.

### 3. Water quality (surface, discharge and groundwater)

- Describe the potential impacts of the activity on the receiving environment, with specific consideration of sediment and waterway disturbance, groundwater, environmental values, and downstream water uses.
- Describe the management measures that will be employed to control surface water and reduce the potential for erosion and sediment loss. Control measures include: minimisation of areas of disturbance; minimisation of stormwater ingress and sediment mobilisation through the use of perimeter drains, cut-off drains and bunding; sediment basins or stilling areas to capture entrained sediment; and swales, rock filters, wetlands or vegetated discharge zones to remove fine suspended sediment. Consideration should be given to the International Erosion Control Association's Best Practice Erosion and Sediment Control documents available at: [Books 1-3 - International Erosion Control Association \(austieca.com.au\)](http://austieca.com.au).
- Identify the dimensions, capacity and other relevant design features of key stormwater infrastructure such as drains and sediment basins, with reference to design rainfall frequency (average recurrence interval) and intensity. For sediment basins provide the sediment capture particle size, settling volume and surface area calculations and design rationale<sup>10</sup>.
- Describe the waterbodies and aquatic values on site and in the surrounding area, including relevant Protected Environmental Values as per the *State Policy on Water Quality Management 1997*: <https://epa.tas.gov.au/environment/water/pevs-for-tasmanian-surface-waters>
- State the distance from the activity to the nearest waterbody.
- Provide details of the design and construction of the proposed dam. As a minimum, this should include an assessment of the consequence category, a location/site plan, easting and northing of centre of dam wall, storage capacity (ML), wall height (m), wall length (m), crest width (m), and slope of the upstream and downstream batter.
- Describe any other management measures proposed to minimise impact on waterways and aquatic values on site and in the surrounding area.
- Provide details of any proposed water monitoring activities.
- Demonstrate how the proposal is consistent with the *State Policy on Water Quality Management 1997*<sup>11</sup>.

### 4. Natural values

- Provide records from the Natural Values Atlas and TASVEG 4.0<sup>12</sup> of any listed threatened flora/fauna species or threatened vegetation communities on or near the site.

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<sup>9</sup> Available at: [https://epa.tas.gov.au/about-the-epa/policy-legislation-cooperative-arrangements/statutory-policies/state-policies-and-environment-protection-policies/environment-protection-policy-\(air-quality\)-2004](https://epa.tas.gov.au/about-the-epa/policy-legislation-cooperative-arrangements/statutory-policies/state-policies-and-environment-protection-policies/environment-protection-policy-(air-quality)-2004).

<sup>10</sup> Suitable design approaches for sediment basins include those detailed in Best Practice Erosion and Sediment Control – Appendix B (June 2018 revision), International Erosion Control Association (Australasia); and Managing Urban Stormwater: Soils and Construction - Volume 2e: Mines And Quarries, Department of Environment and Climate Change, NSW Government (2008).

<sup>11</sup> Available at <https://epa.tas.gov.au/about-the-epa/policy-legislation-cooperative-arrangements/statutory-policies/state-policies-and-environment-protection-policies/state-policy-on-water-quality-management-1997>.

<sup>12</sup> Both can be accessed at: <https://www.naturalvaluesatlas.tas.gov.au/>.

- Detail any proposed clearing or disturbance of native vegetation or potential habitat for native fauna as part of the proposal, including details of the nature of vegetation and habitat values to be cleared or disturbed, and the area of vegetation affected (in hectares).
- Describe the potential direct and indirect impacts to threatened fauna, flora and vegetation communities that may arise from the proposed activity, taking into account:
  - The clearance or disturbance of native vegetation or other potential habitat;
  - Roadkill from vehicles<sup>13</sup>;
  - Movement, noise, or lights during sensitive avifauna breeding seasons; and
  - Specifically, consideration should be given to the swift parrot which is listed as endangered under the *Tasmanian Threatened Species Protection Act 1995* and critically endangered under the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999*. The proposal is located within a Swift Parrot (*Lathamus discolor*) Important Breeding Area (SPIBA). Any tree in the area which is 70 cm diameter at breast height (DBH) or more, has the capacity to bear hollows large enough to be suitable nesting habitat for the species. Any nesting habitat within 10 km of foraging habitat which includes flowering blue gum (*Eucalyptus globulus*) and black gum (*E. ovata*) may be used for breeding. Given the critically endangered status of the species and that TASVEG 4.0 maps *E. globulus* dry forest and woodland (TASVEG code DGL) approximately 500 m south of the proposed dam works, it is recommended that blasting is undertaken outside the swift parrot breeding season (September to January inclusive), unless justification is provided as to why this is not possible. If blasting avoidance during the breeding season is not possible, it is recommended that it is minimised as much as possible.
- Describe the potential impacts to geoconservation sites (e.g., karst systems), aquatic or riparian environments and other natural values, and the management measures proposed to mitigate these impacts. It is noted that the proposed development is located on top of a hill and nearby waterways and dams/ponds located downhill from the site have the potential to contain listed threatened species. Describe how site runoff will be actively managed to minimise impacts on waterways in the surrounding area.
- Describe the management measures that will be implemented to mitigate or avoid impacts to threatened fauna, flora, and vegetation communities, or other natural values. It is noted that *Eucalyptus tenuiramis* forest and woodland on sediments (TASVEG code DTO) is mapped to the north of the dam works site and proposed laydown area for the stockpiling of materials. DTO is listed as a Threatened Native Vegetation Community under the *Tasmanian Nature Conservation Act 2002*. It is recommended that mitigation measures are put in place to ensure that DTO is not inadvertently and/or indirectly impacted by the works. Recommended measures include: clearly marking the boundary of the vegetation community in areas where construction and operational activities will take place, maintaining a buffer between DTO and these areas, ensuring that no runoff is directed into DTO, and waterflows to DTO are not altered.

## 5. Weeds, pests and pathogens

- There are several weeds declared under the *Weed Management Act 1999* recorded within 5 km of the site. List the weeds<sup>14</sup>, pests and pathogens occurring on or near the site.
- Evaluate the potential for the activity to introduce or spread weeds and diseases to, from and within the site.

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<sup>13</sup> Information on roadkill risk for Tasmanian Devils is available at:  
<https://nre.tas.gov.au/Documents/Devil%20Survey%20Guidelines%20and%20Advice.pdf>.

<sup>14</sup> Plant species declared as a weed under the *Weed Management Act 1999*.

- Discuss the proposed management measures for preventing the spread of weeds, pests and pathogens (e.g., vehicle washdown procedures). It is recommended that strict hygiene procedures are implemented as part of daily operations in order to minimise the transportation of weed propagules in materials or attached to vehicles or machinery. Information about practical hygiene measures to implement can be found in Appendix I of the NRE (2015) Weed and Disease Planning and Hygiene Guidelines - Preventing the spread of weeds and diseases in Tasmania<sup>15</sup>.

## 6. Waste

- Describe all solid and liquid waste(s) that will be produced by the activity (e.g., overburden, Potentially Acid Forming material, metal and machinery service wastes, used oils, general refuse).
- Describe the proposed methods for avoidance, reuse, recycling, treatment and disposal of waste.

## 7. Environmentally hazardous substances

- Detail the nature and quantity of any environmentally hazardous substances<sup>16</sup> that will be stored (permanently or temporarily) and/or handled on site. This includes fuels, oils, waste and chemicals.
- Describe the storage method and location of any environmentally hazardous substances and discuss the proposed management measures to prevent release and respond to accidental spills (e.g. provision of spill kits).
- Identify any dangerous goods<sup>17</sup> and controlled wastes<sup>18</sup> that will be present on the site, with reference to standard classification. Detail how they will be managed.

## 8. Site contamination

- Has the site on which the activity is to be located been used in the past for activities which may have caused soil or groundwater contamination? If so, provide details. Include details of any assessments of soil or groundwater contamination on the site.

## 9. Environmental impacts of traffic

- Provide details of the vehicle types, number of vehicle movements, times of movements and route(s).
- Evaluate the potential for transport to and from the site to cause a noise nuisance to residences and other noise sensitive premises in proximity to the Land, considering the type, volume and time of traffic associated with the proposal.
- Evaluate the potential to cause a dust nuisance as a result of traffic in proximity to the Land.
- The Tasmanian devil (*Sarcophilus harrisii*) and spotted-tail quoll (*Dasyurus maculatus subsp. maculatus*) can be at risk of coming into contact with vehicles as they are attracted to roadkill. Will the proposal result in a night-time (between one hour before dusk and one hour after dawn) traffic

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<sup>15</sup> Available at <https://nre.tas.gov.au/invasive-species/weeds/weed-hygiene/weed-and-disease-planning-and-hygiene-guidelines>.

<sup>16</sup> 'Environmentally hazardous substance' is defined as: any substance or mixture of substances of a nature or held in quantities which present a reasonably foreseeable risk of causing serious or material environmental harm if released to the environment.

<sup>17</sup> As defined in the Australian Code for the Transport of Dangerous Goods by Road and Rail.

<sup>18</sup> Information on controlled waste identification and classification is available at: <https://epa.tas.gov.au/business-industry/regulation/waste-management/controlled-waste>.

increase of more than 10% on roads in proximity to the Land? If so, roadkill mitigation measures for Tasmanian Devils need to be implemented in accordance with the *Survey Guidelines and Management Advice for Development Proposals that may impact on the Tasmanian Devil (Sarcophilus harrisi)*<sup>19</sup>.

## 10. Other off-site impacts

- Does the activity have the potential to generate any other off-site impacts that may affect the amenity of residences or other sensitive uses (such as schools and hospitals)? If yes, provide details. The location of all nearby residences or other sensitive uses must be clearly shown on the area map (see Part B).

## 11. Monitoring

- Describe any proposed environmental monitoring and reporting for the activity.
- Show all proposed monitoring points on the site plan (see Part B).

## 12. Decommissioning and rehabilitation

- Describe the proposed decommissioning and rehabilitation measures in the event of cessation of the activity.
- Describe any proposed progressive rehabilitation measures, with reference to the staged development of the quarry/extractive pit (refer to the Site Plans as relevant).

## 13. Greenhouse gas emissions and climate change

- Describe how the proposal will implement best practice environmental management in energy consumption and in transport of materials to and from the proposed activity, to minimise greenhouse gas emissions.
- Discuss the impacts of the proposed activity in relation to Tasmania's climate change strategy<sup>20</sup>.
- Describe the potential impacts of climate change upon the proposal. For example, it may be appropriate to plan for more intense storm events, more severe fire weather, long-term sea level rise, etc.

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<sup>19</sup> Available at [Devil Survey Guidelines and Advice.pdf \(nre.tas.gov.au\)](http://nre.tas.gov.au/Devil_Survey_Guidelines_and_Advice.pdf)

<sup>20</sup> Available at: <http://www.dpac.tas.gov.au/divisions/climatechange>.

## Part D – Summary of Proposed Management Measures

This section should contain a table of the proposed measures for avoiding, minimising and managing the potential environmental impacts of the proposal (as identified in Part C). These should be written as specific, unambiguous statements of action (see example below).

Table I. Proposed management measures

No.	Proposed Management Measure	Timeframe
1	Design and install a sediment settling pond capable of containing runoff from a 1-in-20 year storm event as described in Part C, paragraph 2.6 [of the EER].	At least 30 days prior to commencement of operations.
2	Develop a solid waste management plan as described in Part C, paragraph 8.4 [of the EER].	Within three months of approval and prior to treatment or removal of any waste.
3	Erect a noise attenuation barrier as described in Part C, paragraph 9.2 [of the EER]	At least 30 days prior to commencement of operations.

## Part E – Public and Stakeholder Consultation

- Describe any public or stakeholder consultation that has taken place or is intended (such as with other government agencies, community groups or neighbours).
- Provide details of the outcome or main findings of any community consultation.
- *Guidance on Community Engagement* is available on the EPA website at [Guidance Documents | EPA Tasmania](#).



## Appendix A: Other issues and agency contacts

In addition to a permit under the LUPAA and the EMPCA, there may be other legal requirements to allow your proposal to proceed. These may include other permits, licences or landowner consent. You may also need to contact other Government agencies to obtain information for the purpose of assessment under the LUPAA or the EMPCA.

Your proposal may have been referred to other agencies in the process of preparing Guidelines. Should assessments or approval outside of the Board's responsibilities be required, you should engage with the respective agency to progress them. The following list identifies some of the key agencies you may need to contact.

### Conservation Assessments

Department of Natural Resources and Environment Tasmania

Telephone: (03) 6165 4396

Email: [conservationassessments@nre.tas.gov.au](mailto:conservationassessments@nre.tas.gov.au)

Website: [www.nre.tas.gov.au/conservation](http://www.nre.tas.gov.au/conservation)

Purpose: Natural values including flora, fauna, and geoconservation values, or permits to deal with threatened species.

### Heritage Tasmania

Department of Natural Resources and Environment Tasmania

Telephone: (03) 6165 3700

Email: [enquiries@heritage.tas.gov.au](mailto:enquiries@heritage.tas.gov.au)

Website: [www.heritage.tas.gov.au](http://www.heritage.tas.gov.au)

Purpose: Historic cultural heritage, including State-level site listings, impacts and permits as required under the *Historic Cultural Heritage Act 1995*. Where works are proposed in or in close proximity to a heritage place entered on the Tasmanian Heritage Register or likely to be of heritage significance to the whole of Tasmania, and a permit is required under the *Land Use Planning and Approvals Act 1993*, the proposal will be referred to Heritage Tasmania by the planning authority. There may also be additional sites listed under local planning schemes, impacts on which are assessed by the relevant planning authority.

### Aboriginal Heritage Tasmania

Department of Premier and Cabinet

Telephone: 1300 487 045

Email: [aboriginal@dpac.tas.gov.au](mailto:aboriginal@dpac.tas.gov.au)

Website: [www.aboriginalheritage.tas.gov.au](http://www.aboriginalheritage.tas.gov.au)

Purpose: Aboriginal heritage, including desktop assessment, artefact survey requirements, permits and advice.

### Parks and Wildlife – Property Services

Department of Natural Resources and Environment Tasmania

Telephone: (03) 6169 9015

Email: [PropertyServices@parks.tas.gov.au](mailto:PropertyServices@parks.tas.gov.au)

Website: [www.parks.tas.gov.au](http://www.parks.tas.gov.au)

Purpose: Impacts on parks and reserves managed by Parks and Wildlife, or Crown land.

### **Agriculture and Water**

Department of Natural Resources and Environment Tasmania

Telephone: 1300 368 550

Email: [Water.Enquiries@nre.tas.gov.au](mailto:Water.Enquiries@nre.tas.gov.au)

Website: [www.nre.tas.gov.au/water](http://www.nre.tas.gov.au/water)

Purpose: Water licences and works impacting natural waterway flow (e.g., dams or fords).

### **Transport Services**

Department of State Growth

Telephone: (03) 6166 3369

Email: [permits@stategrowth.tas.gov.au](mailto:permits@stategrowth.tas.gov.au)

Website: [www.transport.tas.gov.au](http://www.transport.tas.gov.au)

Purpose: State roads, including where any proposal requires works on or access from a State-managed road.

### **Mineral Resources Tasmania**

Department of State Growth

Telephone: (03) 6165 4800

Email: [info@mrt.tas.gov.au](mailto:info@mrt.tas.gov.au)

Website: [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au)

Purpose: Mining Leases

