

Guidelines for preparing
an Environmental Impact
Statement for
Abattoir, St Helens
Orana Meats Group

March 2022



ENVIRONMENT PROTECTION AUTHORITY

Contents

Information for the Proponent	1
Contents of the EIS.....	1
Executive Summary	1
Table of Contents	1
List of Abbreviations	1
Key Issues to be addressed.....	2
Survey and Study Requirements for Key Issues	2
Information to be provided	3
1. Introduction	3
2. Proposal Description	3
General note	3
2.1 General	4
2.2 Construction.....	4
2.3 Commissioning	4
2.4 Definition of the Land	5
2.5 General location map.....	5
2.6 Site plan	5
2.7 Off-site infrastructure	6
3. Project Alternatives	6
4. Consultation	6
5. The Existing Environment	7
5.1 Planning aspects.....	7
5.2 Environmental aspects.....	7
5.3 Socio-economic aspects.....	8
6. Potential Impacts and their Management.....	9
6.1 Key Issue 1: Air Quality.....	11
6.2 Key Issue 2: Noise emissions	12
6.3 Key Issue 3: Water quality impacts	12
<i>Legislative and policy requirements.....</i>	13
6.4 Key Issue 4: Wastewater reuse management	13
6.5 Key Issue 5: Biological and solid waste management	14
6.6 Dangerous goods and environmentally hazardous materials	15
6.7 Biodiversity and Natural Values	15
6.8 Greenhouse gases and ozone depleting substances	17
6.9 Socio-economic issues	17
6.10 Hazard analysis and risk assessment.....	18
6.11 Fire risk	18
6.12 Infrastructure and off-site ancillary facilities	18

6.13	Environmental Management Systems	18
6.14	Cumulative and interactive impacts	19
6.15	Environmental Impacts of Traffic	19
7.	Monitoring and Review.....	20
8.	Decommissioning and Rehabilitation	20
9.	Management Measures	20
10.	Conclusion.....	20
11.	References	20
12.	Appendices.....	20
13.	Glossary	20
Appendix A: Other issues and agency contacts		22

Information for the Proponent

Purpose

The *Environmental Management and Pollution Control Act 1994* (the EMPC Act) requires the Board of the Environment Protection Authority (the Board) to provide guidance to the proponent about what should be included in the case for assessment (the Environmental Impact Statement).

The Board will assess environmental aspects of the proposal. The relevant Planning Authority (Council) will assess planning aspects if the *Land Use Planning and Approvals Act 1993* (the LUPA Act) applies. The Board has authorised EPA Tasmania to undertake administrative tasks and establish the information base to inform decision making on its behalf.

These guidelines provide information on preparing an Environmental Impact Statement (EIS) for an activity being assessed by the Board under the EMPC Act. They have been prepared based on the Notice of Intent for the proposed new abattoir by Orana Meats Group.

Information solely for the purpose of assessment under the relevant Planning Scheme should be supplied to the Planning Authority either:

- as required under s54 of the LUPA Act, where the planning application has commenced the environmental assessment process; or
- where it is intended to submit an EIS (draft or final) with the planning application, a combined planning and environmental report can be prepared. However, the information required for the Board's assessment must be distinguished from that supplied for the purposes of LUPA Act.

Risk Based Assessment

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

As well as the issues identified in the guidelines, other significant matters may emerge during preparation of the EIS from environmental studies, public comments or other sources, which will need to be factored into the EIS. The assessment process may also change the understanding of the level of risk associated with some of the issues. This may in turn change the level of detail needed in the EIS to reflect the level of significance of that environmental issue to the proposal.

After the public consultation phase, additional information may be requested from the proponent in response to public and government agency submissions. This generally takes the form of a supplement to the EIS.

Objectives of the EIS

The EIS should provide:

- Information for individuals and groups to gain an understanding of the proposal, the need for the proposal, the alternatives, the environment that it could affect, the positive and negative environmental impacts that may occur and the measures that will be taken to maximise positive outcomes, and minimise any adverse environmental impacts, including specific management measures.
- A basis for public consultation and informed comment on the proposal.

- A framework against which decision makers, particularly the Board, and sometimes the relevant Planning Authority, can consider the proposal and determine the conditions under which any approval might be given.
- A demonstration that the proposal is consistent with the objectives of the relevant laws and policies, including the Tasmanian Resource Management and Planning System (RMPS) and the Environmental Management and Pollution Control System (EMPCS).

How the Board uses the EIS

The EIS is the basis on which the Board makes its assessment. The Board considers the EIS, as well as other relevant information, against the objectives of the RMPS and EMPCS objectives. These objectives focus on the concept of sustainable development, which requires consideration of the economic and social needs of people now and in the future, while sustaining the environment and avoiding or mitigating adverse effects. The Board will consider the objectives and endeavour to make the decision which best furthers them, when considered together. That decision may be to approve the proposal with conditions, or in some cases, the Board may decide the objectives cannot be upheld and the proposal is rejected.

Structure and Formatting of the EIS

The following points should be considered when writing the EIS:

- The title page should include the proponent's name, the activity name, the proposal address or location, the EIS version number (where relevant) and the month and year of publication.
- The main text of the EIS should be written in a clear and concise style that is easily understood by the general reader.
- Assertions and assumptions should be supported by adequate argument and/or evidence, and evidence relied upon should be referenced.
- Technical terminology should be avoided as far as possible. The detailed technical data and supplementary reports necessary to support the main text should be included in appendices.
- All sources of information should be referenced, and the style of referencing should be consistent throughout. An indication should also be given about how current the information is and how its reliability was tested. In particular, the degree of confidence attached to any predictions should be indicated.
- Where necessary, to enhance understanding of the proposal, 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 information (including maps, plans, grid coordinates and heights) are provided or referred to, the coordinate reference system must be specified. It is recommended that the following coordinate reference systems are used:
 - **Horizontal** – Geocentric Datum of Australia 2020, Map Grid of Australia Zone 55 (GDA94 MGA55)
 - **Vertical** – Australian Height Datum (Tasmania) (AHD83)

Information on coordinate reference systems used in Tasmania can be found on the DPIWWE website (<https://dpiwwe.tas.gov.au/land-tasmania/geospatial-infrastructure-surveying/geodetic-survey/coordinate-height-and-tide-datums-tasmania>).

Please note that although the Geocentric Datum of Australia 2020 (GDA2020) is the new official datum for recording the horizontal location of spatial information in Australia, implementation of this new datum in Tasmania is not yet complete and the Geocentric Datum of Australia 1994 (GDA1994) remains in use.

- Any sensitive information should be provided in a separate, confidential appendix. A comment should be made in the EIS that the information has been provided in this way.
- Specific management measures must be clearly identified in the text and included in the summary table referred to in Section 9 of these Guidelines.
- Where appropriate, information provided in other sections should be referenced to minimise duplication.
- The EIS should contain a summary table showing compliance with the guidelines.

Submission of draft and final document

Close consultation with EPA Tasmania while preparing the EIS is recommended. It is advisable for the proponent to submit a draft EIS to EPA Tasmania for review before it is finalised. Please note that a draft document may be rejected without detailed review if it is incomplete, contains significant formatting or typographical errors, or does not comply with the EIS Guidelines. More than one draft may be necessary before the document is considered suitable for public release.

The EIS is to be submitted in electronic format (such as Microsoft Word), and suitable for publishing on the internet (PDF format). Printed copies may also be required at public consultation stage.

Once the proposal is advertised for public comment, copies of the EIS must be made available to the public on request, in either printed or electronic format. The EIS will also be available on the EPA website.

False or misleading statements

Under section 43A of the EMPC Act, the EIS must not include information that is known to be false or misleading; and nothing should be omitted if it is known that without it the EIS would be false or misleading.

Contents of the EIS

Executive Summary

An executive summary of the EIS should be included to provide a clear and concise overview of the proposal, its environmental implications, the approvals process and the function of the EIS in the context of the approvals process.

For larger EISs, it is recommended that the executive summary be written as a stand-alone document, able to be provided on request to interested parties who may not wish to read or acquire the full EIS.

Table of Contents

A table of the contents of the report with reference to the relevant page numbers. It should also contain a list of figures and tables.

List of Abbreviations

A list of the abbreviations, acronyms and, if relevant, a glossary of terms used in the EIS.

Key Issues to be addressed

While the EIS should evaluate all potential effects of the proposal, it should be principally focused on the key issues identified in the table below. The level of detail provided on other issues should be appropriate to the level of significance of that issue for the proposal. Variables or assumptions made in the assessment must be clearly stated and discussed. The extent to which the limitations, if any, of available information may influence the conclusions of the environmental assessment should be discussed.

The key issues identified for this proposal, which should be the focus of the EIS, are:

Key Issues	
1	<i>Potential impacts on sensitive receptors from emissions to air (particularly odour)</i>
2	<i>Potential impacts on sensitive receptors from noise emissions</i>
3	<i>Potential impacts from wastewater</i>
4	<i>Wastewater reuse management</i>
5	<i>Biological and solid waste management</i>

It should be noted that other matters deemed to be significant or matters that emerge as significant from environmental studies, public comments or otherwise during the course of the preparation of the EIS, should not be excluded from consideration.

Survey and Study Requirements for Key Issues

The following surveys and studies will be required as part of the EIS.

Key Issue	Surveys Required	Studies Required	Relevant Section(s) of Guidelines
1. Air quality		Modelling of operational odour dispersion.	6.1
2. Noise	Measurement of ambient noise levels at nearest residences		6.2
3. Water Quality and Effluent Reuse	Baseline survey of surface water quality and groundwater quality (potentially desktop study using default guideline values and short monitoring campaign to validate). Soil survey in accordance with the <i>Environmental Guidelines for the Use of Recycled Water in Tasmania (DPIWE 2002) Appendix A, section 11.</i>	Reuse Environmental Management Plan including irrigation water balance, nutrient budget and irrigation management	6.3

Information to be provided

1. Introduction

Provide information on the following:

- Title of the proposal.
- Proponent details:
 - Name of proponent (legal entity)
 - Name of proponent (trading name)
 - Registered address of proponent
 - Postal address of proponent
 - ABN number
 - ACN number (where relevant)
- Contact person's details:
 - Name
 - Telephone
 - Email address
- Activity operator details (if the operator will be a different entity to the proponent).
- General background information on the proponent, such as relevant development and operational experience.
- General background information on the proposal, including the current status of the proposal, an overview of the principal components of the proposal, the proposal location, anticipated establishment costs, likely markets for the product, and the possibilities for future expansion.
- An examination of how the proposal relates to any other proposals that have been or are being developed, or that have been approved in the region affected by the proposal.
- Environmental legislation, standards and guidelines that will be applicable (such as policies, regulations and industry codes of practice).
- Other relevant Commonwealth, State and Local Government policies, strategies and management plans with which the proposal would be expected to comply.

2. Proposal Description

General note

Where the proposal is to be subject to a permit application under the LUPA Act, 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.

Provide a full description of the proposal, including construction, commissioning, operational and decommissioning phases, as well as any infrastructure and off-site ancillary facilities required for the proposal.

A detailed description should be provided of key physical components of the proposal, including their function, composition, size, capacity, operational life, technical and performance requirements, inter-relationships and method of construction, operation and maintenance.

The information listed below should be provided.

2.1 General

- The major items of equipment (including pollution control equipment) and on-site facilities should be described. Detailed technical information on major items of equipment may be included in appendices.
- The industrial process should be described in a step-by-step manner using explanatory diagrams and flow charts, where appropriate, to compliment the text.
- Raw materials required for the operation of the proposal (including water) should be specified. Quantities and characteristics should be detailed.
- Energy requirements for the proposal should be outlined and the means of meeting this demand described.
- Details of production capacity and production rates for relevant processes including peak rates, daily average rates and annual production rates.
- The hours of operation for the proposal (hours per day and specific days per week) including any seasonal variations.
- The volume, composition, origin, destination and route for vehicle movements (including road, rail, shipping and air) likely to be generated during each phase of the proposal, including a break-down for over-dimension and heavy road vehicles.
- If the proposal is associated with an existing activity, describe any current approvals or regulatory conditions.

2.2 Construction

- A step-by-step description and timetable for significant activities during the construction phase of the proposal. Indicative timeframes for the completion of major steps, and the likely sequencing of steps.
- Details of any pre-construction works, including site preparation works, and any temporary or permanent removal of vegetation including, stockpiling of vegetation, erosion control measures and the potential transport of pollutants (e.g. suspended solids) from areas of disturbance during construction.
- Details of any pre-clearance surveys to be carried out prior to commencement of construction, including flora and fauna and geotechnical studies.
- Estimates of the quantities of major raw materials required for construction (e.g. gravel, sand/aggregate and water) and how and where these will be sourced, i.e. on-site and/or off-site.
- Nature, capacity and location(s) of temporary construction equipment required on-site (such as cranes, concrete batch plants, construction camps).
- Volume, composition, origin, destination and route for vehicle movements likely to be generated during the construction phase, including a breakdown for over-dimension and heavy vehicles.
- Information on the number of construction workers required in the various stages of construction, sources of labour, transport of workers to and from the site, accommodation, and support servicing requirements.
- Proposed hours per day and days per week of construction activities.

2.3 Commissioning

A step-by-step description of major commissioning activities (if any) following installation of equipment. Indicative timeframes for the completion of major steps, and the likely sequencing of steps. The point at which commissioning will be considered completed should be described.

2.4 Definition of the Land

A definition of the land on which the activity will take place must be provided. The land can be defined by:

- Cadastral boundaries (Title Reference, Property ID)
- Lease boundaries (Mining Lease, Crown Lease, Marine Farming Lease, etc.)
- Topographic features (roads, waterways, etc.)
- Surveyed grid coordinates
- Other boundary types

If the land is defined as the whole of an existing defined boundary, such as a title reference or lease, the definition of the land is simply the title reference or lease name (e.g. Title Reference 136529/1 or Mining Lease 901 IP/M). If not, it may be necessary to define the boundary by reference to specific topographic features and or surveyed grid coordinates. The boundary must be consistent with any intended or current permit application under the LUPA Act.

A plan is required clearly showing the boundary of the land in relation to cadastral boundaries and topographic features. The boundary of the land should also be provided to the Board in a geospatial vector format (shapefile or DXF). If a boundary survey is required to adequately identify the land boundary this may be requested during the assessment process.

2.5 General location map

A general location map (e.g. 1:25,000 scale or better as appropriate) which identifies the following is required:

- The location of the proposal site
- Topographical features, aspect and direction of drainage
- Road access to and from the site
- Location of waterways and drains (including ephemeral)
- The distance(s) to any nearby sensitive uses (such as residences)
- Electricity transmission lines
- Boundaries of the property on which the proposal is located
- Surrounding land tenure
- Surrounding land use (identify areas of conservation or recreational significance)
- Surrounding land zoning in the local government planning scheme

2.6 Site plan

A site plan(s) is required which includes existing and proposed conditions and features of the site and surrounding area. Where relevant, this may include:

- Elevation contours and levels.
- The positions of topographic features including roads, tracks, waterways and drains.
- The positions of facilities, buildings, structures, major items of equipment, storage areas and loading or unloading areas (existing and proposed).
- The route of any pipelines, tracks, roads, conveyors or similar means of transporting on-site materials.
- The location of raw materials storage areas.
- The locations of temporary and permanent storage areas for fuels, oils, reagents and other hazardous goods or chemicals.

- The locations of stormwater collection systems and details of drainage control measures such as cut-off drains and sediment settling ponds, including location of all discharge points (stormwater or other).
- Details of any screening vegetation or bund walls.
- The location of loading or unloading areas.
- The location(s) of any monitoring sites.

If the site plan is not based on a feature and level survey and the Board determines that this information is needed to adequately assess the proposal, one may be requested during the assessment process.

Geospatial data included on the plan(s) should also be provided to the Board in a geospatial vector format (shapefile or DXF).

2.7 Off-site infrastructure

Any new infrastructure or off-site ancillary facilities required to allow the proposal to proceed should be described (for example water supply, electricity supply, roads or other transport infrastructure).

3. Project Alternatives

The rationale for the particular project proposed should be described.

Describe the site selection process, including site selection criteria, alternative sites considered and an assessment of those alternatives. The assessment should compare alternatives according to clearly defined environmental, social, economic and technical considerations, and provide a justification for the preferred site. The effect that any community consultation undertaken had on the selection process should be detailed.

A critique of other available technologies and the reason for the selection of the preferred technology, including from an environmental perspective, should be included where relevant. Transparency around alternatives and the criteria on which decisions have been based is encouraged as it can lead to better outcomes.

For any part of the proposal where alternative technologies, materials, design options or management practices with different environmental consequences may exist, the alternatives should be identified, their environmental performance evaluated and the reason for the proposed choice justified.

Alternatives should have regard to best practice environmental management, including those measures listed under section 4(2) of the EMPC Act.

4. Consultation

Details of the nature and results of public consultation undertaken (if any) by the proponent during project planning and preparation of the EIS, as well as any proposals for further public consultation during and beyond project implementation.

Early community engagement often leads to better outcomes for all and is strongly encouraged. The Board has produced a guide to community engagement which is available on the EPA website at: <http://epa.tas.gov.au/assessment/assessment-process/guidance-documents>

5. The Existing Environment

Describe the proposed site location and provide an overview of the existing environment, which may be affected by construction, and operation of the proposal, including areas associated with any ancillary activities.

Include details of salient features of the existing environment and, where appropriate, include maps, plans, photographs, diagrams or other descriptive detail.

The following details should be included.

5.1 Planning aspects

- If a permit is required for the proposal under the LUPA Act provide:
 - Use Class of the proposed activity under the applicable Planning Scheme.
 - Permissibility of the activity under the applicable Planning Scheme.
- Information on land tenure and property boundaries of the proposed site, with certificate of title details.
- Land zonings for the proposed site and surrounding areas.
- Any rights of way, easements and covenants affecting the site.
- Land use and planning history of the site, including the potential for site contamination¹, present use and any existing buildings and significant structures.
- A description of land use and ownership in the vicinity of the site and those areas which may be affected by the proposal, including:
 - The location and nature of industrial facilities.
 - Any sensitive uses,² downstream sensitive receptors³ or residential zones within applicable attenuation distances including the location of individual residences, schools, hospitals, caravan parks and similar sensitive uses, and the location of any tourist or recreation facilities or routes (such as camping areas, picnic areas, walking tracks, historic routes).
 - Any proposed or potentially sensitive uses within this distance of the proposal site, which have been or are likely to be granted approval under the local planning scheme, should also be considered.

5.2 Environmental aspects

- A description of the general physical characteristics of the site and surrounding area, including topography, local climate, geology, geomorphology, soils (including erodibility and acid sulphate soils), vegetation, fauna, groundwater and surface drainage (including waterways, lakes, wetlands, coastal areas etc).
- A description of natural processes of particular importance for the maintenance of the existing environment (e.g. fire, flooding, etc).
- Any existing conservation reserves located on or within 500 metres of the site.
- Any high-quality wilderness areas identified in the *Tasmanian Regional Forest Agreement* in the vicinity of the site.

¹ Information on potentially contaminating activities and contaminated site assessment can be found online at <http://epa.tas.gov.au/regulation/contaminated-sites>.

² 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.'

³ For example, the nearby off-take for St Helens public water treatment plant and any water off-takes for homestead water supply

- A description of the World and National Heritage values relevant to the action.
- Information on species, sites or areas of landscape, aesthetic, wilderness, scientific or otherwise special conservation significance which may be affected by the proposal. Relevant information resources include the LIST (www.thelist.tas.gov.au) and the Natural Values Atlas (<https://www.naturalvaluesatlas.tas.gov.au>).
- An assessment of the vulnerability of the site to natural hazards (e.g. flooding, seismic activity, fire, landslips or strong winds).
- Any available ambient monitoring results for the vicinity of the proposed development (in tabular or graphical form). The results may be summarised (e.g. as annual averages) if the summary will provide adequate information.
- If the proposal is associated with an existing activity, information on current regulatory approvals and licences should be provided.

5.3 Socio-economic aspects

Briefly describe the existing social and economic environment that may be affected by the proposal, which may include information on the following:

- A summary of the social or demographic characteristics of the population living in the vicinity of the proposal site, identifying any special characteristics which may make people more sensitive to impacts from the proposal than might otherwise be expected.
- A summary of the characteristics of the local and regional economy.

6. Potential Impacts and their Management

Guide to preparing this section

While some details of the proposal may not be finalised at the time the EIS is submitted, the information in the document should be as up to date as possible. Where information is unavailable or details have not yet been finalised, estimates and the range of alternative options should be provided. However, sufficient technical detail must be provided to enable an appropriate level of assessment. For each potential impact the following should be discussed.

Existing conditions

Outline the existing conditions relevant to the impact. In the case of a proposal which involves expansion or redevelopment of an existing activity, a summary of public complaints received in recent years and a discussion of the operator's response and how this may affect the current proposal.

Performance requirements

Identify the environmental performance requirements to be achieved for each environmental impact and provide evidence to demonstrate that these can be complied with. These may be standards or requirements specified in legislation, codes of practice, state policies, national guidelines or as determined by agreement with the assessing agencies. Industry best practice standards should be referred to where appropriate. **Unsupported assertions that performance requirements will be achieved will not be considered adequate.**

Potential impacts

Outline the potential environmental, social and economic impacts of the proposal (positive and negative) through all stages, including construction, operation and closure, in the absence of special control measures. Any foreseeable variations in impacts during the start-up and operational phases should be identified. Include an analysis of the significance of the relevant impacts.

The level of detail provided on each issue should be appropriate to the level of significance of that environmental issue to the proposal.

The evaluation of potential impacts should identify **plausible worst case consequences**, the vulnerability of the affected environment to the potential impacts, and the reversibility of the impacts. Potential cumulative impacts of this proposal in light of other activities underway or approved also need to be addressed. Interactions between biophysical, socio-economic and cultural impacts should be identified.

Predictions and evaluations of impacts should be based on scientifically supportable data (for existing operations this should include the results of monitoring of current emissions). The methodologies used or relied on should be referenced, together with the relevant research and investigations supporting them. Assumptions, simplifications and scientific judgements should be stated clearly, and the nature and magnitude of uncertainties should be clearly defined. Where relevant, the choice of a particular methodology over alternative methodologies should be explained. Where impacts are not quantifiable, they should be adequately described.

Where positive benefits are claimed it will generally be appropriate to explain what measures are to be taken to ensure that those positive outcomes are realised and sustained.

Avoidance and mitigation measures

Describe the measures proposed to avoid or mitigate potential adverse impacts (having regard to best practice environmental management as defined in EMPCA) in order to achieve the environmental performance requirements (such as through pollution control technology or

management practices). The extent to which they will overcome the anticipated impacts should be specified. Where there are clear, alternative avoidance or mitigation measures for a particular adverse environmental impact, the alternatives should be reviewed and the preferred option justified.

Where pollution control equipment and/or treatment processes are key factors in achieving satisfactory environmental performance, contingencies in the event of breakdown or malfunction of the equipment or processes should be discussed. It should be demonstrated that the maintenance of pollution control equipment can be provided for without causing performance requirements to be exceeded.

Where measures to control environmental impacts are necessary, but will not be undertaken by the proponent, the means by which the proponent will ensure that the necessary measures are implemented should be identified (e.g. lease conditions, trade waste agreement, contractual arrangement or other binding third party commitment). **Mitigation measures over which the proponent has no control will generally not be considered adequate.**

Specific measures can be presented in the form of a management plan, such as an Environmental Management Plan (EMP) that sets out the framework for management, mitigation and monitoring of relevant impacts of the action, including any provisions for independent environmental auditing. The EMP needs to address the project phases (construction, operation, decommission) separately.

Assessment of net impacts

An assessment of the overall impacts of the development on the environment after allowing for the implementation of proposed avoidance and mitigation measures. This should include an evaluation of the significance of impacts, the potential for emissions to cause environmental and health impacts and comparison with current environmental conditions (for existing activities) and with state, national and international regulations and standards. Any net benefits likely to result from the proposal should be identified.

Discuss the impacts of the proposal in terms of the constraints or benefits it may place on the current or future use of land within the proposal site and surrounding area as a result of environmental impacts or emissions, including impacts on other uses, particularly sensitive uses.

Offsetting unavoidable adverse impacts

If adverse residual environmental impacts from the proposal are considered unavoidable despite the adoption of best practice environmental management avoidance and mitigation measures, then proposals to offset such impacts should be detailed. For example, if the loss of conservation values, community assets or amenities is considered unavoidable, measures to compensate for those losses should be proposed in proportion to the loss. Any offset actions proposed must be demonstrated to be 'real' actions. That is, **the offset actions must have a measurable and relevant benefit which would otherwise not have occurred.**

6.1 Key Issue 1: Air Quality

Discuss potential impacts of the proposal during both the construction and operational phases, on the local and regional air environment including:

- Identifying any proposed new point source atmospheric discharge points.
- A map showing the location of all point sources of atmospheric emissions (i.e. from arrival of stock to removal of the product, waste management and facility maintenance) from the proposed development.
- A description of potential sources of fugitive emissions (including odour and dust that may arise from construction, loading, unloading and transport).
- A description of each potential source of emission (i.e. point or fugitive) to the air, including the likely composition (i.e. types of constituents including odour and dust), quantities, frequencies and rates of emissions to the atmosphere that may arise from construction and operation/maintenance of the facility.
- An assessment of the potential for emissions to cause environmental harm (including environmental nuisance) detailing the full range of possible conditions including worst case scenarios and upset conditions. The assessment must contain contextual information, such as times of the day, durations and frequencies of all atmospheric emissions, in order to establish suitable parameters for air dispersion modelling. It must also take into account all stages of the production process including:
 - the proposed abattoir processes including arrival of livestock, processing of livestock, disposal of manure/urine, storage of by-products/waste animal matter, and removal of waste from the site;
 - the composting process, if applicable;
 - the proposed wastewater treatment system (WTS) including dissolved air flotation system and lagoons (operation and maintenance) and biodigester, if applicable;
 - the biogas capture and reuse process, if applicable; and
 - the irrigation process.
- Results of atmospheric dispersion modelling and an assessment of potential impacts of air emissions from the proposed facility against the requirements of the Environment Protection Policy (Air Quality) 2004. Air Dispersion Modelling should be conducted by a suitably qualified specialist in accordance with the EPA Tasmanian Atmospheric Dispersion Modelling Guidelines.⁴⁵
- Detailed discussion of measures to be implemented to mitigate any potential impacts that may cause environmental nuisance or environmental harm. The proposed measures should demonstrate application of accepted modern technology for reduction of unavoidable emissions to the greatest extent practicable. Special consideration should be given to potential odour impacts associated with the management of solid and liquid waste generated by the activity. The discussion should include management of potential impacts associated with handling of the odorous material as well as potential impacts associated with malfunction of equipment/infrastructure, including the WTS, especially during unfavourable meteorological conditions.

Legislative and policy requirements

Consideration must be given to the requirements of the *Tasmanian Environment Protection Policy (Air Quality)* (see <http://epa.tas.gov.au/policy-site/Pages/Air-Quality-EPP.aspx>).

⁴ [Atmospheric Dispersion Modelling Guidelines \(epa.tas.gov.au\)](http://epa.tas.gov.au/policy-site/Pages/Air-Quality-EPP.aspx)

⁵ Air Dispersion Modelling should be conducted by a suitably qualified specialist and the scope and methodology discussed with the EPA's Air Modelling Officer in advance.

6.2 Key Issue 2: Noise emissions

Discuss potential impacts of the proposal on ambient (surrounding) noise levels (during both the construction and operational phases), including:

- Identify sensitive receptors (especially noise sensitive premises).
- Identify and characterise (include sound power levels) potential construction and operational site based and traffic noise sources (with reference to project description in Section 2).
- Show the location of operational point and area (e.g. lairage pens) noise sources on a map.
- Conduct a minimum of 7-days of noise monitoring to evaluate the existing background noise levels at the nearest sensitive receptors.
- Discuss potential for environmental harm / nuisance, noting that:
 - In order to avoid any sleep disturbance, hours of deliveries should be restricted to the daytime period only (7am to 4pm); and
 - All process noise sources should be located in an enclosed environment.
- Consider appropriate noise attenuation measures to ensure that cumulative noise emissions (LAeq) from the operation:
 - Do not exceed 5 dB(A) over the existing background noise levels (LA90) for the day and evening period; and
 - Do not exceed the existing background noise levels (LA90) for the night-time period.
- Consider appropriate mitigation measures to ensure that nuisance from the operation noise emissions is also managed at the proposed staff accommodation.

Legislative and policy requirements

Consideration should be given to the requirements of the Tasmanian *Environment Protection Policy (Noise) 2009* (see <https://epa.tas.gov.au/policy/statutory-policies/state-policies-and-environment-protection-policies/environment-protection-policy-%28noise%29-2009>).

6.3 Key Issue 3: Water quality impacts

Discuss potential impacts of the proposal on surface water and groundwater (during both the construction and operational phases). The water quality assessment must:

- Provide a description of the activity site with respect to topography and preferential surface water flow, existing surface water, stormwater drainage, groundwater and identify nearby watercourses likely to be impacted by the proposal.
- Provide an overview of the receiving environment (surface water and groundwater) identifying all relevant Protected Environmental Values (PEVs)⁶.
- Highlight any sensitive water uses, including the public drinking water supply on the George River approximately one kilometre downstream of the activity site, and associated water quality considerations.

Detail seasonal water quality, hydrological characteristics and biological condition of the receiving environment as relevant to the proposal. The discussion should refer to published (default) or determined (site specific) water quality guideline values for receiving environments. For information regarding the water quality management framework and

⁶ [PEVs for Tasmanian Surface Waters - EPA Tasmania](#)

evaluation criteria in Tasmania refer to [Technical Guidance for Water Quality Objectives \(WQOs\) Setting for Tasmania, August 2020](#).

- A map showing the location of any groundwater bores and summarising any available water quality information. Information on groundwater in Tasmania is available at: <http://wrt.tas.gov.au/groundwater-info>.
- A conceptual groundwater model for regional and local aquifer flows.
- Identify, using location maps and site layout figures, point and diffuse sources of liquid emissions, including proposed areas for treated effluent irrigation.
- Characterise all liquid emissions which could arise from the proposal including from abattoir processes, waste treatment processes, domestic/office or stormwater.
- Describe proposed wastewater treatment and storage for the development, including a description of the selected technology and infrastructure to be installed, the likely effluent quality and volumes which will be produced and fate.
- Describe proposed treatment and disposal options for domestic sewage produced.
- Describe proposed stormwater management (including during reasonably foreseeable peak rain events) including an assessment of the potential for pollutants to become entrained in stormwater and details of drainage control measures such as cut-off drains and sediment settling ponds.
- If the proposal anticipates a discharge to a municipal sewerage system (including tankered waste) a suitably detailed agreement with the operator of the municipal sewerage system should be negotiated.
- For any local surface water abstractions, provide details of likely quantities (including seasonal and operational variation), proposed extraction methods and proposed treatment before use.
- For any proposed surface water abstractions or ponds that may be considered 'dam works' under the Water Management Act 1999 seek advice from NRET Water Management and Assessment Branch in regard to necessary licences or permits.

Legislative and policy requirements

Justify any proposed emission of contaminants to surface water in accordance with the principles under the *State Policy on Water Quality Management 1997* and with application of a 'weight of evidence approach' consistent with the *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*.

Reference should be made to published or determined (site specific) water quality guideline values for receiving environments. For information regarding the water quality management framework and evaluation criteria in Tasmania refer to *Technical Guidance for Water Quality Objectives (WQOs) Setting for Tasmania, August 2020*.

6.4 Key Issue 4: Wastewater reuse management

For the planned irrigation of effluent, and in accordance with Appendix A of the [Environmental Guidelines for the Use of Recycled Water December 2002](#) (Reuse Guidelines), provide a Reuse Environmental Management Plan providing:

- Identification of the intended reuse option (predicted to be pasture for sheep and cattle grazing), including required class of recycled water and associated limitations and management requirements (refer to Table 2.1 of the Reuse Guidelines).
- Effluent quality criteria and limits and how, based on the proposed effluent treatment, the proposal will achieve quality limits given the estimated influent characteristics.

- Identification and assessment of the risks of contaminants and pathogens contained in the wastewater to livestock, humans, terrestrial and aquatic fauna. It must be demonstrated the proposed wastewater system and resultant effluent is suitable for its intended reuse.
- A soil survey assessing the suitability of the site for irrigation and for any effluent storage lagoons, and to provide baseline data in relation to chemical and physical soil characteristics.
- With reference to climatic data, a monthly water balance for planned reuse/irrigation flow rates during median rainfall and 90%ile wet years.
- A nutrient budget for the proposed effluent quality taking into account pasture needs, grazing, fallowing and any cutting for silage.
- Demonstration that sufficient area of suitable soil is available for the wastewater reuse/irrigation scheme, able to effectively absorb proposed levels of application, with consideration of soil type, proposed cropping and grazing regimes, and limitations such as pathogen withholding periods, buffer distances from waterways and sensitive receptors with reference to water balance and nutrient budgets.
- A description of the proposed management practices, measures and controls to ensure effective irrigation and harm minimisation.
- A proposed operational monitoring plan for the reuse scheme, including effluent quality, soils, surface water and groundwater.
- Details of any areas of additional land that can be investigated to expand the area available for irrigation if it is proven necessary or desirable.
- Contingency measures in the case of failure to achieve effluent quality and for identified or potential impact of effluent irrigation to land, groundwater or surface water receiving environments.
- Criteria for when changes to irrigation management should be considered (e.g. ongoing negative trends with regard land health, groundwater or surface water quality).

6.5 Key Issue 5: Biological and solid waste management

Discuss the impacts of solid wastes, including biological wastes, generated by the proposal, including:

- Identification of the source, nature and quantities of all solid wastes, including construction wastes, by-products from the various stages of the abattoir process and general refuse likely to be generated.
- Provide detail on the proposed methods and facilities proposed to collect, store, reuse, treat or dispose of each waste stream identified. Maintenance requirements for these facilities should be included. Demonstrate how biosecurity issues will be managed.
- Some of these waste streams are Controlled Wastes as they may contain animal tissues and defined as Restricted Animal Material (RAM). The source, nature, quantity, and method of treatment, storage and disposal for each controlled waste should be described. Note: controlled waste is defined in the EMPC Act and associated regulations. A non-exhaustive listing of categories of controlled waste can be found on the internet at <http://epa.tas.gov.au/regulation/waste-management/controlled-waste>. Please also refer to the [Paunch Contents Management Guidelines March 2017](#) and this fact sheet produced by Biosecurity Tasmania [Composting and RAM August 2019](#).

Legislative and policy requirements

Waste management measures must be in accordance with the following hierarchy of waste management, arranged in decreasing order of desirability:

- avoidance

- recycling/reclamation
- re-use
- treatment to reduce potentially adverse impacts
- disposal

6.6 Dangerous goods and environmentally hazardous materials

Discuss impacts of the proposal in relation to dangerous goods and environmentally hazardous materials (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 and includes fuels, oils, waste and chemicals), including:

- The nature, quantity and storage location of all environmentally hazardous materials including Dangerous Goods (as defined in the *Australian Code for the Transport of Dangerous Goods by Road and Rail*) that will be used during the construction and operation of the proposal.
- A map showing the location of temporary and permanent storage areas for fuels, oils, and other dangerous goods or chemicals.
- The measures (such as bunded areas or spill trays) to be adopted to prevent or control any accidental releases of dangerous goods and environmentally hazardous materials.
- Contingency plans for when control measures, equipment breakdowns or accidental releases to the environment occur, including proposed emergency and clean-up measures and notification procedures.
- Identify any safety management requirements for the protection of human health and safety affecting the community.

6.7 Biodiversity and Natural Values

Discuss impacts of the proposal (during both the construction and operational phases) on biodiversity and nature conservation values (terrestrial and aquatic). This must include:

- A map of existing vegetation and type and threatened species.
- Impacts on flora, vegetation communities and habitat, with particular reference to rare and threatened species, communities and habitats, including those listed under the relevant Schedules of the Commonwealth EPBC Act and the Tasmanian *Threatened Species Protection Act 1995*.
- Conservation Assessment Section (NRET) advises there is some likelihood that the species listed under Threatened Species Protection Act 1995 (TSPA) and Environment Protection and Biodiversity Conservation Act 1999 (EPBCA) and the listed in the table below may have potential habitat on the property.

Species	Common name	TSPA	EPBCA
<i>Conospermum hookeri</i>	Tasmanian smokebush	vulnerable	vulnerable
<i>Phebalium daviesii</i>	davies waxflower	endangered	Critically endangered
<i>Acacia ulicifolia</i>	Juniper wattle	rare	-
<i>Baumea gunnii</i>	slender twigsedge	rare	-

<i>Utricularia australis</i>	yellow bladderwort	rare	-
<i>Caustis pentandra</i>	thick twistsedge	rare	-

The property must be surveyed by a suitably qualified person in accordance with the *Guidelines for Natural Values Assessments*⁷. If any listed threatened flora is found on the property and will be impacted upon by the proposed development, then a permit to take, under the TSPA will be required. It should be noted that the processing of permit applications may take up to 4 weeks. Information on applying for a permit, including application forms, can be found on the NRE Tasmania website.⁸ If surveying identifies any threatened flora species listed under the EPBCA to be present on the property and likely to be impacted upon by the proposed development, the proponent should make themselves aware of their obligations under the EPBCA.

- Impacts on fauna, including impacts on species, communities and habitats, with particular reference to rare and threatened species, migratory species, communities and habitats, including those listed under the relevant Schedules of the Commonwealth EPBCA and the TSPA. Assessment of impacts should not be limited to clearing or disturbance and may include noise, lights, vehicle movements etc.
- There are records within 1 km of the proposed development site for the Tasmanian Devil (*Sarcophilus harrisii*), listed as endangered under both the TSPA and the EPBCA and it is likely that the area is utilised regularly by devils as foraging habitat. A traffic impact assessment must be completed for the proposed development to inform the potential for roadkill impacts from trucks accessing the abattoir.
- Identify any freshwater ecosystems of high conservation management priority using the Conservation of Freshwater Ecosystem Values (CFEV) database (accessible on the internet under <https://wrt.tas.gov.au/cfev>). The scope of investigation should encompass the vicinity of the proposed development where there is likelihood of alteration to the existing environment. The specific CFEV information used for EISs should be Conservation Management Priority Potential which is appropriate for development proposals.
- Impacts on existing conservation reserves which may be affected by the proposal, with reference to the management objectives of the reserve(s) and the reserve management plan(s) (if any).
- Clearing of native vegetation and habitat associated with the construction and maintenance of the proposal and the impact of any clearing on sites, species or ecological communities of special conservation significance, including any impact on the:
 - comprehensive, adequate and representative reserve system identified as part of the Tasmanian RFA;
 - maintenance of forest communities under the [Permanent Native Forest Estate Policy](#);
 - wildlife habitat strips under the *Tasmanian Forest Practices Code 2015* (<http://www.fpa.tas.gov.au>); and
 - non-forest communities.

⁷ <https://nre.tas.gov.au/conservation/development-planning-conservation-assessment/survey-guidelines-for-development-assessments>

⁸ [https://nre.tas.gov.au/conservation/development-planning-conservation-assessment/permit-to-take-threatened-species-\(for-consultants-development-related-activities\)](https://nre.tas.gov.au/conservation/development-planning-conservation-assessment/permit-to-take-threatened-species-(for-consultants-development-related-activities))

- The potential for migration and/or introduction of pests, weeds and plant and animal diseases as a result of the proposal.
- Include a commitment to survey for, and manage, weeds and diseases on the property and to prepare and implement a Weed and Disease Management Plan⁹.
- Where impacts cannot be avoided, proposed measures to mitigate and/or compensate adverse impacts on biodiversity and nature conservation values should be presented.

6.8 Greenhouse gases and ozone depleting substances

For proposals with the potential for significant release of greenhouse gas emissions or the release of ozone depleting substances, discuss impacts of the proposal in relation to Greenhouse Gases and ozone depleting substances including:

- A description of the direct and indirect effects of the proposal on greenhouse gas production and ozone depleting substances and any greenhouse benefits of the proposal discussed.
- Demonstration that the development will implement cost-effective greenhouse best practice measures to achieve on going minimisation of greenhouse gas emissions.
- Provision of a competent estimate for 'whole of life' greenhouse gas emissions for the proposed development. Details should also be provided of proposed measures to minimise emissions and the anticipated effectiveness of these measures. Where less emissions-intensive options are not adopted, justification should be provided and/or mechanisms to offset greenhouse gas emissions identified.

Legislative and policy requirements

Discuss impacts of the proposal in terms of the evolving national response to climate change and greenhouse gas emissions and the targets set in the Climate Change Action Plan 2017 – 2021. Proponents will need to determine whether they are required to report to the Commonwealth under the *National Greenhouse and Energy Reporting Act 2007*.

6.9 Socio-economic issues

Discuss the social and economic impacts of the proposal. Details may include the following:

- An estimate of total capital investment for the proposal and where that capital will be expended (particularly in relation to the source of large capital items of processing equipment).
- Operational expenditures and revenues.
- The impacts on local and State labour markets for both the construction and operational phases of the proposal. The number and nature of direct and indirect jobs arising from the proposal must be detailed. Skills and training opportunities should also be discussed.
- The impacts on upstream/downstream industries, both locally and for the State.
- The extent to which raw materials, equipment, goods and services will be sourced locally.
- A qualitative assessment of impacts on local social amenity and community infrastructure, including recreational, cultural, health and sporting facilities and services. Any proposals to enhance or provide additional community services or facilities should be described.
- Community demographic impacts (changes to cultural background, occupation, incomes).
- Impacts on land values, and demand for land and housing.
- Impacts on the local, regional, state and national economies.
- Any publicly funded subsidies or services to be relied upon for the construction or operation of the proposal.

⁹ <http://dpipwe.tas.gov.au/invasive-species/weeds/weed-hygiene/weed-and-disease-planning-and-hygiene-guidelines>.

- Any impacts on Local, State and Federal Government rate, taxation and royalty revenues.

The extent to which socio-economic considerations need to be described depends on the nature and extent of any negative impacts or risks to the environment from the proposal.

Modest proposals with relatively low level and localised environmental impacts or risks may only need details of intended capital expenditure, operational expenditures, revenues and employment (distinguishing between direct and indirect employment) and a qualitative discussion of other socio-economic aspects of particular relevance.

Proposals with higher level or broader scale environmental impacts will need a more comprehensive analysis of economic and social benefits to allow the Board to assess the benefits and adverse impacts of the proposal. This may include an explanation of the methods used to model impacts and describe the manner and results of engagement with the local community to determine their needs and aspirations in relation to the proposal.

6.10 Hazard analysis and risk assessment

If applicable, provide a preliminary analysis (appropriate to the scale of the project) of the potential for a major hazard event (such as an explosion) that may cause impacts to the environment to occur and proposed safeguards to prevent such an occurrence. The preliminary analysis should systematically identify all potential major environmental hazards (internal and external) to people and the environment associated with the construction, operation, maintenance and decommissioning of the proposal.

6.11 Fire risk

Discuss the potential fire risk associated with the proposal, including:

- Consideration of fire within the site, fire escaping from the site and the impact of wildfire originating outside the development and the environmental impacts that could result from such an event.
- The objectives and management principles to be adopted to prevent and respond to potential fire events.
- Where a fire response plan is appropriate, it should be fully integrated with other relevant documents, such as a Tasmania Fire Service Local Area Fire Management Plan, a Forestry Tasmania Fire Management Plan and a Parks and Wildlife Service Fire Action Plan for relevant districts.

6.12 Infrastructure and off-site ancillary facilities

Discuss potential environmental impacts of the proposal on any significant off-site or infrastructure facilities (including increased use of existing infrastructure, such as roads, ports and quarries), identify measures to avoid and mitigate any possible adverse impacts and assess the overall impacts following implementation of the proposed avoidance and mitigation measures.

Identify roads and other infrastructure to be used by vehicles for the proposal (during both construction and operation). Potential environmental impacts associated with construction and use of such infrastructure should be assessed.

6.13 Environmental Management Systems

This section should provide information on strategic matters relating to environmental management of the proposal, including a description of the following:

- Any environmental management systems or environmental policies implemented or proposed by the proponent, which are relevant to the environmental management of the proposal.
- Organisational structure and environmental responsibility within that structure for the proposal.
- Procedures and instructions to employees (including contractors) on minimising adverse environmental impacts of activities, as well as employee induction and education programs to ensure an appropriate response to operational environmental concerns should be included in relevant sections.

6.14 Cumulative and interactive impacts

Where relevant, this section should contain an assessment of the potential cumulative impacts of the proposal in the context of existing and approved developments in the region, if such impacts have not been addressed in previous sections.

Other proposals which have been formally proposed, and for which there is sufficient information available to the proponent to allow a meaningful assessment of their impacts, should also be considered in that assessment. Uncertainties about potential impacts in such cases should be identified.

Interactions between biophysical, socio-economic and cultural impacts of the proposal should be discussed.

6.15 Environmental Impacts of Traffic

This section should identify the traffic routes for the proposal (both during construction and operation) and the likely volume and nature of traffic and timing of traffic flows, including details of the current usage of these roads. Environmental impacts associated with current and altered traffic flows and usage should be discussed (such as noise and dust impacts on other roads users and residences adjacent to roads). The assessment should focus on roads within the land defined by the proposal but also indirect impacts on public roads.

7. Monitoring and Review

This section should provide an outline of any monitoring, review and reporting programmes for the proposal. The programme should be designed to meet the following objectives:

- Monitoring of compliance with emission standards and other performance requirements identified in the EIS.
- Assessing the effectiveness of the performance requirements and environmental safeguards in achieving environmental quality objectives.
- Assessing the extent to which the predictions of environmental impacts in the EIS have eventuated.
- Assessing compliance with management measures defined in the EIS.

A map showing the location of all monitoring sites and a table of proposed monitoring including location, parameters and frequency should be included.

8. Decommissioning and Rehabilitation

The EIS should describe an on-going, staged approach to site decommissioning and rehabilitation throughout the proposal life.

A preliminary Decommissioning and Rehabilitation Plan or Closure Plan should be outlined.

9. Management Measures

This section should contain a consolidated management measures table listing all of the management measures made throughout the EIS. Measures must be sequentially numbered, unambiguous statements of intent. For each measure, the table must specify when it is to be implemented and refer to the section of the EIS where the measure is detailed.

10. Conclusion

Describe the proposal and draw together the critical environmental, social and economic impacts of the proposal, both positive and negative; present a balanced overview of the net impacts of the proposal, and the extent to which any adverse impacts can be satisfactorily avoided, mitigated, remediated or compensated and positive impacts promoted and sustained. The conclusion should also describe how the proposal meets and furthers the objectives of relevant Commonwealth and State legislation, policies, plans and strategies. This should be done by itemising the RMPS and EMPCS objectives and providing a commentary about how the proposal addresses each of the objectives.

11. References

This section should provide details of authorities consulted, reference documents etc.

12. Appendices

As a means of improving readability of the EIS document, detailed technical information which supports the EIS should be included in appendices. The salient features of the appendices should be included in the main body of the EIS. Care should be taken to avoid inconsistencies between technical content of Appendices and the EIS itself, unless carefully explained.

13. Glossary

EIS Environmental Impact Statement

EMPC *Environmental Management and Pollution Control Act 1994*

EMPCS	Environmental Management and Pollution Control System objectives to be found in Schedule I of EMPCA
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999 (Cth)</i> JAMBA/CAMBA - Japan-Australia and China-Australia Migratory Bird Agreements
RMPS	Resource Management and Planning System of Tasmania objectives to be found in Schedule I of EMPCA
Tasmanian RFA	Tasmanian Regional Forest Agreement

Appendix A: Other issues and agency contacts

In addition to a permit under the LUPA Act and the EMPC Act, 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 LUPA Act or the EMPC Act. The following list identifies some of the key agencies you may need to contact:

Note: your proposal may be referred to other agencies in the process of preparing guidelines. Should assessments or approval outside of the Board's responsibilities be required, the respective agency will engage with you to progress them.

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

Natural and Cultural Heritage Division

Telephone: (03) 6165 4396

Email: conservationassessments@dpipwe.tas.gov.au

Website: www.dpipwe.tas.gov.au

Historic cultural heritage, including State-level site listings, impacts and permits as required under the Historic Cultural Heritage Act 1995:

Heritage Tasmania

Telephone: (03) 6165 3700

Email: enquiries@heritage.tas.gov.au

Website: www.heritage.tas.gov.au

Note: 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, including desktop assessment, artefact survey requirements, permits:

Aboriginal Heritage Tasmania

Telephone: (03) 6165 3152

Email: aboriginal@heritage.tas.gov.au

Website: <http://www.aboriginalheritage.tas.gov.au>

Note: your proposal will be referred to Aboriginal Heritage Tasmania (AHT) on submission or referral to the Board. If Aboriginal Heritage matters are identified, AHT will engage directly with the proponent regarding relevant assessments and approvals.

Parks and reserves, including where any proposal may impact on land managed by Parks & Wildlife:

Parks and Wildlife Service

Telephone: 1300 827 727

Website: www.parks.tas.gov.au and www.thelist.tas.gov.au

Crown land, including where any proposal may impact on land owned by the Crown:

Property Services – Parks and Wildlife

Telephone: (03) 6169 9015

Email: PropertyServices@parks.tas.gov.au

Website: www.parks.tas.gov.au

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

Department of State Growth

Telephone: (03) 6166 3369

Email: permits@stategrowth.tas.gov.au

Website: www.transport.tas.gov.au

Mining leases:

Mineral Resources Tasmania

Telephone: 03 6165 4800

Email: info@mrt.tas.gov.au

Website: www.mrt.tas.gov.au

Works impacting natural waterway flow, e.g. dams or fords:

Agriculture and Water Division

Telephone: (03) 6165 3222

Email: Water.Enquiries@dpipwe.tas.gov.au

Website: www.dpipwe.tas.gov.au/water



ENVIRONMENT PROTECTION AUTHORITY