



## **Referral of a Proposal to the Environmental Protection Authority under Section 38(1) of the Environmental Protection Act.**

### **Referral by the Proponent**

#### **PURPOSE OF THIS FORM**

Section 38(1) of the *Environmental Protection Act 1986* provides that where a development proposal is likely to have a significant effect on the environment, a proponent may refer the proposal to the Environmental Protection Authority (EPA) for a decision on whether or not it requires assessment under the Act.

A referral to the EPA by a proponent under Section 38(1) must be made on this form.

Before completing this form, proponents are encouraged to familiarise themselves with the EPA's *General Guide for Referral of Proposals to the EPA under section 38(1) of the EP Act 1986* (accessed at the EPA's website at [www.epa.wa.gov.au](http://www.epa.wa.gov.au) or by contacting the EPA on 6467 5419).

Proponents need to complete Parts A and B of the form by marking the appropriate boxes and providing explanatory or additional information where requested. Part B should be completed based on information known to the proponent. Only those sections of Part B that are pertinent to the proposal need to be completed. If space is insufficient, attach additional pages. Where information is contained in a report that is to be submitted with the referral form, the proponent may complete sections of the form by referring to the pertinent section of the report.

Proponents are encouraged to attach any other environmental information they consider may be relevant to the EPA for making a decision on whether or not to assess the proposal, and, if it is to be assessed, the level of assessment. In general, referrals should contain information on the potential environmental impacts of the proposal, the proposed management mechanisms to be implemented to minimise and mitigate for these impacts, and how the principles of the EP Act have been addressed by the proposal.

In addition to providing a hard copy of referral documentation, proponents are also requested to provide an electronic copy of the referral document, noting that section 39(2) of the EP Act provides for a proponent to request that matters of a confidential nature not be kept on the public record. If confidential matters are included in the referral, proponents are requested to identify the confidential information at this stage of the process, specifically request that it be treated as confidential, and submit the confidential information in a separate hard copy attachment to the referral document. The electronic copy of the referral should be identical to the hard copy of the referral document, excluding any confidential attachment.

You may need to contact government agencies or local authorities to obtain information required by this form. A list of key agencies and their contact details is provided in Attachment 1.

Where the EPA decides that a proposal will be assessed at the level of Public Environmental Review or Environmental Review and Management Programme, it will also require the proponent to prepare an Environmental Scoping Document (refer *Environmental Impact Assessment (Part IV Division 1) Administrative Procedures 2002*).

Proponents should also be aware of the need to determine their obligations under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The EPBC Act is separate legislation to the Environmental Protection Act and it identifies a number of matters of national environmental significance which are subject to assessment and approval by the Commonwealth. The matters identified as triggers for the Commonwealth assessment and approval regime are World Heritage properties, Ramsar wetlands, nationally threatened species and ecological communities, migratory species, Commonwealth marine areas, and nuclear actions (refer to the Department of Environment and Heritage's website at [www.deh.gov.au](http://www.deh.gov.au)). Questions in this referral form that may be relevant to matters of national environmental significance are marked with a #.

## PART A - PROPONENT AND PROPOSAL INFORMATION

### 1. PROPONENT DETAILS, PROPOSAL DESCRIPTION AND LOCATION

#### 1.1 Proponent information

- Proposal title  
[Balmoral South Iron Ore Project](#)
  
- Name of the Shire in which the proposal is located  
[Shire of Roebourne](#)
  
- Name of proponent (Person or entity proposing to implement the proposal)  
[The project proponent is:](#)
  - [International Minerals Pty Ltd. \(A.C.N. 058 341 638\)](#)
  
- Names of Joint Venture entities (if applicable)  
[Not applicable](#)
  
- Address of proponent  
[International Minerals Pty Ltd \(IM\)](#)  
[CAN 058 341 638](#)  
[Level 4 / 5 Mill Street](#)  
[PERTH WA 6000](#)  
[PO Box 7752](#)  
[CLOISTERS SQUARE WA 6850](#)
  
- Key contact for the proposal  
(Name address and phone/facsimile number and email address. The contact may be a consultant, if one is being used)  
[Mr Joseph Webb](#)  
[Director of Development and Environment](#)  
[Phone: 08 9324 2227](#)  
[j.webb@mineralogy.com.au](#)
  
- Does the proponent own the land on which the proposal is to be established? If not, what other arrangements have been established to access the land?  
[The Proponent has entered into a series of agreements with Mineralogy Pty Ltd which provides for the rights and tenure to all Mineralogy tenements necessary to carry out the project. These agreements have been agreed by the Minister Resources Development and set out in First Schedule of the Iron Ore Processing \(Mineralogy Pty Ltd\) Agreement Act 2002 which was passed by the Parliament of Western Australia in 2002.](#)
  
- Is rezoning of any land required before the proposal can be implemented?

(please tick)

Yes

**If yes**, please provide details.

No

- Is approval required from any Commonwealth or State Government agency or Local Authority for any part of the proposal?

Yes

No

**If yes**, name all Agencies and Local Authorities from which any approval is required.

Refer to Section 1.10 of the main document.

- If yes above, have you lodged any of the necessary applications or have you discussed the proposal with any person(s) at the Agency or Local Authority?

Yes

No

**If yes**, name all Agencies and Local Authorities for which applications have been submitted or with whom the proposal has been discussed.

Refer to Section 2.0 of the main document.

- What is the current land use on the property, and the extent (area in hectares) of the property?

The project is wholly contained within the Mardie Pastoral Lease. Additional details relating to ownership, tenure and land use are provided in Section 4.0 of the Environmental Impact Assessment and Management Programme (EIAMP) (main document).

## 1.2 Proposal Description *(Please attach extra pages where necessary)*

- Provide a description of the proposal.

This EPA Referral Form forms Appendix A of international Mineral's Environmental Impact Assessment and Management Programme (EIAMP), which describes all aspects of the project in detail. A detailed description of the project is provided in Section 1.0 of this document.

- What is the proposed ultimate extent (area in hectares) of the activity?

The project footprint has been calculated to cover approximately 2,400ha

- Provide the timeframe in which the activity or development is proposed to occur. (Include start and finish dates where applicable)

The project is expected to operate for at least 20 years, although extensions beyond this will depend only on continued contracts for ore supply and economic analysis. Project construction is expected to commence in the second half of 2008. Active construction is expected to continue for approximately 35 months until the first products are produced.

- Provide details of any staging of the proposal.

No staging is planned for the project at this stage.

- Indicate whether, and in what way, the proposal is related to other proposals in the region.

A detailed summary of the interrelationships between this project and the assessed Mineralogy project, located adjacent, is provided in Section 1.1 of the EIAMP.

### 1.3 Location information

Figures indicating the project extent are provided throughout the EIAMP.

- Provide proposal location details in the following two ways:
  - a) Electronic spatial data
    - GIS or CAD on CD, depicting the proposal extent, geo-referenced and conforming to the following parameters:
      - datum: GDA94
      - projection: Geographic (latitude/longitude) or Map Grid of Australia (MGA)
      - format: Arcview shapefile, Arcinfo coverages, Microstation or AutoCAD.

AND

- b) Maps and/or directions
  - Any maps or diagrams of the proposal, together with the following directions:
    - for urban areas: street address, lot number, the suburb and nearest road intersection;
    - for remote localities: the nearest town, together with distance and direction from that town to the proposal site.

*Please also attach the following map/plans, clearly showing the location of the development in its regional and local context.*

#### ❖ **Locality plan – Broad Scale**

Provide a locality plan (preferably superimposed on an aerial photograph) to identify:

- proposed development site and any associated infrastructure
- main roads
- urban centres
- wetlands and watercourses
- remnant native vegetation
- adjoining land uses (including recreation)
- sensitive marine areas

#### ❖ **Site Plan – Proposal Details**

Provide a site plan to scale and indicate the location of:

- lot boundaries
- road frontages
- extent of the proposed development area
- extent of the proposed buffer area (if applicable)

#### ❖ **Site Plan – Existing Environment**

Provide a site plan to scale (the same scale as above) and indicate the location of:

- lot boundaries
- road frontages
- any information required to be shown from Section 2.2 of this form
- extent of native vegetation of the site (the extent of overlap between the proposed development area and the area of native vegetation must be highlighted)

- extent of hydrological features on the site (this includes wetlands, watercourses, creek lines, seasonal creeks and artificial drainage lines)
- sensitive marine areas

## PART B - ENVIRONMENTAL IMPACTS AND MANAGEMENT COMMITMENTS

### 2. ENVIRONMENTAL IMPACTS

Describe the impacts of the proposal on the following elements of the environment, through the questions below:

- (i) flora and vegetation #;
- (ii) fauna #;
- (iii) rivers, creeks, wetlands and estuaries;
- (iv) significant areas and/ or land features;
- (v) coastal zone areas;
- (vi) marine areas and biota #;
- (vii) water supply and drainage catchments;
- (viii) pollution;
- (ix) greenhouse gas emissions;
- (x) contamination;
- (xi) social surroundings; and
- (xii) risk.

These features should be shown on the site plan, where appropriate)

For all information, please indicate:

- (a) the source of the information; and
- (b) the currency of the information.

#### 2.1 Flora and Vegetation

- Do you propose to clear any native flora and vegetation as a part of this proposal?  
(A proposal to clear native vegetation may require a clearing permit under Part V of the EP Act (*Environmental Protection (Clearing of Native Vegetation) Regulations 2004*). Please contact the Department of Environment and Conservation (DEC) for more information.

(please tick)

Yes

**If yes, complete the rest of this section**

No

**If no, go to the next section**

- How much vegetation are you proposing to clear (in hectares)?

Approximately 2400 ha

- Have you submitted an application to clear native vegetation to the DEC (unless you are exempt from such a requirement)?

Yes

No

**If yes**, on what date and to which office was the application submitted of the DEC?

As this proposal is the subject of a formal EIA process, there is no requirement to submit an application to clear native vegetation.

- Are you aware of any recent flora surveys carried out over the area to be disturbed by this proposal?

Yes       No      **If yes**, please attach a copy of any related survey reports and provide the date and name of persons / companies involved in the survey/s. (If no, please do not arrange to have any biological surveys conducted prior to consulting with the DEC.)

Numerous flora and vegetation surveys have been conducted at the project site and surrounds. Details of these surveys are provided within the EIAMP (Section 5.1) and its appendices.

- Has a search of DEC records for known occurrences of rare or priority flora or threatened ecological communities been conducted for the site? #

Yes       No      If you are proposing to clear native vegetation for any part of your proposal, a search of DEC records of known occurrences of rare or priority flora and threatened ecological communities will be required. Please contact DEC for more information.

Refer to Section 5.1 and Appendix C of the EIAMP.

- Are there any known occurrences of rare or priority flora or threatened ecological communities on the site? #

Yes       No      **If yes**, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.

The 2001 flora survey undertaken by HGM, included a DEC database search, which failed to locate any flora of conservation significance inside the greater project area (bound by 20° 45' – 21° 20' and 116° 00' – 116° 15'). A number of Priority flora species were noted to occur in the general project area.

A search of DEC's Threatened Ecological Communities database (May 2006) for the general project area (-21.0224065, 115.94147018 and -21.2952314, 116.28175524) revealed that there are no known occurrences of threatened ecological communities within the project area.

Refer to Section 5.1 and Appendix C of the EIAMP.

- If located within the Perth Metropolitan Region, is the proposed development within or adjacent to a listed Bush Forever Site? (You will need to contact the Bush Forever Office, at the Department for Planning and Infrastructure)

Yes       No      **If yes**, please indicate which Bush Forever site is affected (site number and name of site where appropriate).

- What is the condition of the vegetation at the site?

The overall condition of the vegetation at the site is good to very good. Years of pastoral grazing has diminished some of the vegetation on more accessible ground.

Refer to Section 5.1 and Appendix C of the EIAMP.

## 2.2 Fauna

- Do you expect that any fauna or fauna habitat will be impacted by the proposal?  
(please tick)       Yes      **If yes, complete the rest of this section**  
    No      **If no, go to the next section**

- Describe the nature and extent of the expected impact.

Impacts on fauna in the project area will largely occur due to habitat loss or modification. The primary areas where fauna will be affected include the orebody, plant sites, waste dump and tailings dam.

Refer to Section 5.2 and Appendix C of the EIAMP.

- Are you aware of any recent fauna surveys carried out over the area to be disturbed by this proposal?

Yes       No      **If yes**, please attach a copy of any related survey reports and provide the date and name of persons / companies involved in the survey/s. (If no, please do not arrange to have any biological surveys conducted prior to consulting with the DEC.)

In 2000, Halpern Glick Maunsell conducted a fauna survey in the general project area for the Mineralogy Project. Between 21st and 29th October 2006, Maunsell conducted an additional survey in accordance with the EPA's guidance and position statements. This additional survey focused more specifically on the proposed Balmoral South project area.

Details of both surveys are provided in Section 5.2 and Appendix C of the EIAMP.

- Has a search of DEC records for known occurrences of Specially Protected (Threatened) fauna been conducted for the site?

Yes       No      (please tick)

- Are there any known occurrences of Specially Protected (Threatened) fauna on the site? #

Yes       No      **If yes**, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.

A search of DEC's Threatened Fauna Database was undertaken for the area encompassing 21.4707°S to 20.8749°S and 115.882°E to 116.415°E. Seven priority fauna were recorded in the search area, and one priority species was recorded 12 km south of the search area.

A search of the Department of the Environment and Heritage database of matters of National Environmental Significance revealed the potential for two vulnerable species to occur within the project area: *Dasymercus cristicauda* (Mulgara) and *Rhinionictoris aurantius* (Pilbara form) (Pilbara Leaf-nosed Bat). Repeat surveys have not located either of these species within the project area.

Further details are provided in Section 5.2 and Appendix C of the EIAMP.

**2.3 Rivers, Creeks, Wetlands and Estuaries**

- Will the development occur within 200m of a river, creek, wetland or estuary?  
 (please tick)       Yes      **If yes, complete the rest of this section**  
     No      **If no, go to the next section**

- Will the development result in the clearing of vegetation within the 200 m zone?  
 Yes       No      **If yes**, please describe the extent of the expected impact.  
 Mine related plant and infrastructure will be constructed within the 200m zone of Du Boulay Creek. The waste rock dump will be constructed within the 200m zone of the Fortescue River. Various other small ephemeral creeks will be impacted by the construction of associated plant and infrastructure.

Further details are provided in Section 5.4 and Appendix L of the EIAMP.

- Will the development result in the filling or excavation of a river, creek, wetland or estuary?  
 Yes       No      **If yes**, please describe the extent of the expected impact.  
 The mine pit itself will have an impact on minor tributaries that originate on the ridge in which it will be excavated. Some encroachment into the 100 year flood interval will occur. Rock armoured bunding will be constructed to protect this infrastructure from flood damage.

Further details are provided in Section 5.4 and Appendix L of the EIAMP.

- Will the development result in the impoundment of a river, creek, wetland or estuary?  
 Yes       No      **If yes**, please describe the extent of the expected impact.

- Will the development result in draining to a river, creek, wetland or estuary?  
 Yes       No      **If yes**, please describe the extent of the expected impact.

- Are you aware if the proposal will impact on a river, creek, wetland or estuary (or its buffer) within one of the following categories? (please tick)

Conservation Category Wetland	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Draft Environmental Protection (Swan Coastal Plain Wetlands) Policy 2004	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Perth's Bush Forever site	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Environmental Protection (Swan & Canning Rivers) EPP 1998	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
The management area as defined in s4(1) of the Swan River Trust Act 1988	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Which is subject to an international agreement, because of the importance of the wetland for waterbirds and waterbird habitats (e.g. Ramsar, JAMBA, CAMBA) #	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure

## 2.4 Significant Areas and/ or Land Features

- Is the proposed development located within or adjacent to an existing or proposed National Park or Nature Reserve?

Yes       No      **If yes**, please provide details.

The closest conservation areas to the project are the Great Sandy Island Nature Reserve, the Cape Preston Marine Management Area and the proposed Dampier Archipelago-Cape Preston Marine Conservation Reserve. All of these areas are located off shore.

Section 5.3 of the EIAMP provides a description of the potential impacts arising from recreational activities and their management.

- Are you aware of any Environmentally Sensitive Areas (as declared by the Minister under section 51B of the EP Act) that will be impacted by the proposed development?

Yes       No      **If yes**, please provide details.

No Environmentally Sensitive Areas have been classified within the project area.

- Are you aware of any significant natural land features (e.g. caves, ranges etc) that will be impacted by the proposed development?

Yes       No      **If yes**, please provide details.

## 2.5 Coastal Zone Areas (Coastal Dunes and Beaches)

- Will the development occur within 300m of a coastal area?

(please tick)       Yes      **If yes, complete the rest of this section**

No      **If no, go to the next section**

Import and export activities will be through the approved Central block Project's facilities, which include provision for the requirements of this project.

- What is the expected setback of the development from the high tide level and from the primary dune?

- Will the development impact on coastal areas with significant landforms including beach ridge plain, cusped headland, coastal dunes or karst?

Yes       No      **If yes**, please describe the extent of the expected impact.

- Is the development likely to impact on mangroves?

Yes       No      **If yes**, please describe the extent of the expected impact.

## 2.6 Marine Areas and Biota

- Is the development likely to impact on an area of sensitive benthic communities, such as seagrasses, coral reefs or mangroves?  
 Yes       No      **If yes**, please describe the extent of the expected impact.

This proposal includes provision for a 20Gpa desalination plant. This will result in discharge of wastewater brine into the marine environment. Modelling of the cumulative effects of waste water outfall indicates that salinity concentrations would decrease rapidly (to within 43ppt of ambient within 5m) on initial mixing of the total release volume with the receiving waters. Further, based on the present planned discharge characteristics, the salinity concentration is predicted to dilute to within 1ppt above ambient (35.4ppt) approximately 40m from the release site. However, the saline water from the discharge is expected to continue mixing with receiving waters and reduce to within 0.3ppt (approximately 1%) above ambient, 55m from the discharge site. Hence, the salinity variation should be no greater than 5% above the ambient level for more than 1% of the time anywhere around Cape Preston (except within the central parts of the designated Moderate Protection Mixing Zone).

Impacts associated with waste water discharge from the desalination plant are discussed in more detail in Section 5.6 and Appendix E of the EIAMP.

- Is the development likely to impact on marine conservation reserves or areas recommended for reservation (as described in *A Representative Marine Reserve System for Western Australia*, CALM, 1994)?  
 Yes       No      **If yes**, please describe the extent of the expected impact.

There is the potential for recreational activities to have an impact on the marine reserve areas surrounding the project area. Increased anthropogenic impacts arising from increased recreational pressures are addressed in Section 5.3 and Appendix K of the EIAMP.

- Is the development likely to impact on marine areas used extensively for recreation or for commercial fishing activities?  
 Yes       No      **If yes**, please describe the extent of the expected impact, and provide any written advice from relevant agencies (e.g. Fisheries WA).

There is the potential for the project to have indirect impacts on recreational and commercial fishing activities as a result of increased recreational pursuits by mine personnel during their time off. These impacts are considered and their management addressed in Section 5.3 and Appendix K of the EIAMP.

## 2.7 Water Supply and Drainage Catchments

- Are you in a proclaimed or proposed groundwater or surface water protection area?  
(You may need to contact the Department of Water (DoW) for more information on the requirements for your location, including the requirement for licences for water abstraction. Also, refer to the DoW website)  
 Yes       No      **If yes**, please describe what category of area.

- Are you in an existing or proposed Underground Water Supply and Pollution Control area?  
(You may need to contact the DoW for more information on the requirements for your location, including the requirement for licences for water abstraction. Also, refer to the DoW website)  
 Yes       No      **If yes**, please describe what category of area.

- Are you in a Public Drinking Water Supply Area (PDWSA)?  
(You may need to contact the DoW for more information or refer to the DoW website. A proposal to clear vegetation within a PDWSA requires approval from DoW.)  
 Yes       No      **If yes**, please describe what category of area.

- Is there sufficient water available for the proposal?  
(Please consult with the DoW as to whether approvals are required to source water as you propose. Where necessary, please provide a letter of intent from the DoW)  
 Yes       No      (please tick)

Water Supply issues are addressed in Section 5.6 and Appendix M of the EIAMP.

- Will the proposal require drainage of the land?  
 Yes       No      **If yes**, how is the site to be drained and will the drainage be connected to an existing Local Authority or Water Corporation drainage system? Please provide details.

- Is there a water requirement for the construction and/ or operation of this proposal?  
(please tick)       Yes      **If yes, complete the rest of this section**  
 No      **If no, go to the next section**

- What is the water requirement for the construction and operation of this proposal, in kl/year?  
20GLpa

- What is the proposed source of water for the proposal? (eg dam, bore, surface water etc.)

International Minerals' preferred option is to develop a borefield to source all of its water requirements. Investigations into the sustainability of this plan are currently underway. As a contingency, however, IM seeks approval to construct a 20GLpa desalination plant at Cape Preston, should the borefield investigation determine that there is insufficient sustainable yield available in the Fortescue Aquifer.

Water supply strategies are discussed in detail in Section 5.6 and Appendix E of the EIAMP.

## 2.8 Pollution

- Is there likely to be any discharge of pollutants from this development, such as noise, vibration, gaseous emissions, dust, liquid effluent, solid waste or other pollutants?
- (please tick)       Yes      **If yes, complete the rest of this section**  
 No      **If no, go to the next section**

- Is the proposal a prescribed premise, under the Environmental Protection Regulations? (Refer to the EPA *General Guide for Referral of Proposals to the EPA under section 38(1) of the EP Act 1986* for more information)
- Yes       No      **If yes**, please describe what category of prescribed premise.

Several components of the proposal qualify as prescribed premises. Further detail is provided in Section 1.10.2 of the EIAMP.

- Will the proposal result in gaseous emissions to air?
- Yes       No      **If yes**, please briefly describe.

Atmospheric emissions are expected to arise from the operation of the pellet plant, power station and HBI plant. Oxides of nitrogen (NO<sub>x</sub>), sulphur dioxide (SO<sub>2</sub>) and dust are likely to be emitted. As well, fuel combustion by mobile equipment and within the power station are expected to emit greenhouse gases, particularly carbon dioxide (CO<sub>2</sub>). The power station is expected to be the largest point source of greenhouse gas emissions.

Gaseous emissions are discussed in detail in Sections 5.7, 5.8,

- Have you done any modelling or analysis to demonstrate that air quality standards will be met, including consideration of cumulative impacts from other emission sources?
- Yes       No      **If yes**, please briefly describe.

Modelling has been undertaken to take into account the cumulative effect of the emissions arising from both the Mineralogy and IM proposals.

- Will the proposal result in liquid effluent discharge?
- Yes       No      **If yes**, please briefly describe the nature, concentrations and receiving environment.

Water borne emissions are most likely to be from runoff emanating from project infrastructure such as roads and laydown areas. As well, the tailings dam poses the risk of water borne emissions being released. Approximately 30 Mtpa of tailings will be produced, which will be slurried with water. Only minimal water is expected to be discharged to the tailings dam since the water will be recycled to the concentration plant. Additional runoff from the stockyard or other ore holding areas will be contained and appropriately treated to remove sediment and other contaminants.

Grey water and sewage emanating from site facilities, including the mine camp, will be treated with a package sewage treatment system in compliance with applicable guidelines. Best practices will be used for all treatment systems. This treated water may be used for local vegetation watering, if this is deemed to comply with health and safety standards.

Surface water issues are described in detail in Section 5.4.

- If there is likely to be discharges to a watercourse or marine environment, has any analysis been done to demonstrate that the State Water Quality Management Strategy or other appropriate standards will be able to be met?

Yes       No      **If yes**, please describe.

Discharges will be limited to the wastewater outfall for the desalination plant. Modelling indicates that the brine impacts will be minimal and in accordance with previously approved actions. Water quality will meet the requirements of the State Water Quality Management Strategy.

Wastewater impacts are described in more detail in Section 5.6 of the EIAMP.

Will the proposal produce or result in solid wastes?

Yes       No      **If yes**, please briefly describe the nature, concentrations and disposal location/ method.

Open-pit mining activities and the ore concentration will produce bulk earthen waste that will be directed to a waste dump site. Further ore processing in the concentration processes will produce tailings slurry. Water recovery from the tailings will be undertaken via a tailings thickening process. This will minimise the volume of water seeping through the tailings dam area. The tailings will be produced through a mechanical process with magnetic ore separation and flotation. Therefore, the tailings are unlikely to represent a significant contamination threat.

Inert waste will be collected and disposed in a landfill site that complies with the Draft Code of Practice for Rural Landfills. The landfill site will be confirmed upon receipt of more detailed topography and site planning information.

Sewage waste will be treated through a package sewage treatment system and appropriately disposed to meet health regulations. Additional wastewater treatment will occur at the plant site and stockyard. Best practices will be used for all treatment systems. These waste streams are not expected to pose any health threats.

Waste management is discussed in more detail in Section 5.10 of the EIAMP.

Will the proposal result in significant off-site noise emissions?

Yes       No      **If yes**, please briefly describe.

Cumulative modelling of the Mineralogy and International Minerals projects indicates that noise levels will be well within acceptable criteria at the nearest sensitive receptors.

Noise impacts are discussed in more detail in Section 5.9 of the EIAMP.

Will the development be subject to the Environmental Protection (Noise) Regulations?

Yes       No      **If yes**, has any analysis been carried out to demonstrate that the proposal will comply with the Regulations?

Please attach the analysis.

The noise modelling report is provided in Appendix J of the EIAMP.

Does the proposal have the potential to generate off-site, air quality impacts, dust, odour or another pollutant that may affect the amenity of residents and other "sensitive premises" such as schools and hospitals (proposals in this category may include intensive agriculture, aquaculture, marinas, mines and quarries etc.)?

Yes       No      **If yes**, please describe and provide the distance to residences and other “sensitive premises”.

Due to the remoteness of the project site, the proposal does not have the potential to generate off-site air quality impacts, dust, odour or another pollutant that may affect the amenity of residents and other “sensitive premises” such as schools and hospitals.

- If the proposal has a residential component or involves “sensitive premises”, is it located near a land use that may discharge a pollutant?

Yes       No       Not Applicable      **If yes**, please describe and provide the distance to the potential pollution source

## 2.9 Greenhouse Gas Emissions

- Is this proposal likely to result in substantial greenhouse gas emissions (greater than 100 000 tonnes per annum of carbon dioxide equivalent emissions)?

Yes       No      **If yes**, please provide an estimate of the annual gross emissions in absolute and in carbon dioxide equivalent figures.

Fuel combustion by mobile equipment and within the power station are expected to emit greenhouse gases, particularly carbon dioxide (CO<sub>2</sub>). The power station is expected to be the largest point source of greenhouse gas emissions. Emissions will range from an expected 217.5 x 10<sup>3</sup> tonnes in the first year of construction to a peak of 5,615 x 10<sup>3</sup> tonnes from 15 years onward.

Greenhouse gas emissions are described in more detail in Section 5.8 and Appendix H of the EIAMP.

- Further, if yes, please describe proposed measures to minimise emissions, and any sink enhancement actions proposed to offset emissions.

All atmospheric emissions will be minimised and managed during the life of the project. Pollution abatement equipment and dedusting systems connected to the processing and power generation plants will significantly reduce emissions from these point sources. Additionally, a highly efficient gas power plant will decrease greenhouse gas emissions.

Gaseous emissions are discussed in detail in Sections 5.7, 5.8, Appendix H and Appendix I of the EIAMP.

## 2.10 Contamination

- Has the property on which the proposal is to be located been used in the past for activities which may have caused soil or groundwater contamination?

Yes       No       Unsure      **If yes**, please describe.

- Has any assessment been done for soil or groundwater contamination on the site?

Yes       No      **If yes**, please describe.

An extensive groundwater investigation, as well as exploration programme has been undertaken across the project area. During the course of this programme, standard checks of groundwater quality have been carried out. No contamination issues have been identified to date.

- Has the site been registered as a contaminated site under the Contaminated Sites Act 2003? (on finalisation of the CS Regulations and proclamation of the CS Act)

Yes       No      **If yes**, please describe.

## 2.11 **Social Surroundings**

- Is the proposal on a property which contains or is near a site of Aboriginal ethnographic or archaeological significance that may be disturbed?

Yes       No       Unsure      **If yes**, please describe.

Archaeological and ethnographic studies (O'Connor 2001, Quartemaine Consultants 2001) were conducted for the greater Balmoral project area for the previously assessed Mineralogy Project. The resulting reports indicate that Aboriginal Heritage values occur within the project area. All activities undertaken for the Balmoral South project will be pursuant to the requirements of the Aboriginal Heritage Act, 1972. In this regard, Section 18 clearances to disturb known sites are currently in preparation by Mineralogy. All IM operations will be conducted in accordance with the approved Aboriginal Heritage Management Plan prepared by Mineralogy.

- Is the proposal on a property which contains or is near a site of high public interest (for example, a major recreation area or natural scenic feature)?

Yes       No      **If yes**, please describe.

The Fortescue River mouth is a popular camping area. The public frequents several of the pools along the Fortescue River when they are full.

Management of recreational values is discussed in more detail in Section 5.3 and Appendix N of the EIAMP.

- Will the proposal result in or require substantial transport of goods, which may affect the amenity of the local area?

Yes       No      **If yes**, please describe.

For construction purposes only.

## 2.12 **Risk**

- Is the proposal located near a hazardous industrial plant or high-pressure gas pipeline?

Yes       No      **If yes**, please describe.

A gas lateral will be required to be constructed from the Dampier to Bunbury Gas pipeline. This will be constructed and managed by a third party operator and will be managed in accordance with the appropriate Australian design and safety standards.

Risk is discussed in more detail in section 5.13 of the EIAMP.

- Does the proposal have the potential to generate off-site risk?
- Yes       No      **If yes**, will the proposal be a major hazardous facility regulated under the *Explosives and Dangerous Goods Act*?

### 3. MANAGEMENT

#### 3.1 Principles of Environmental Protection

- Have you considered how your project gives attention to the following Principles, as set out in section 4A of the EP Act? (For information on the Principles of Environmental Protection, please see EPA Position Statement No. 7, available on the EPA web.)

- |  |   |                             |
|--|---|-----------------------------|
| 1. The precautionary principle.  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 2. The principle of intergenerational equity.  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 3. The principle of the conservation of biological diversity and ecological integrity. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 4. Principles relating to improved valuation, pricing and incentive mechanisms.        | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 5. The principle of waste minimisation.  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Principles of Environmental Protection and of Sustainability are addressed in Section 6.0 of the EIAMP.

- Is the proposal consistent with the EPA's Position Statements (available on the EPA web)?  
 Yes       No

#### 3.2 Management Commitments

- How has the proposal been developed to avoid, minimise and manage potential impacts? Please describe any specific commitments you make as the proponent to minimising the potential environmental impacts of this development.  
Specific management commitments are provided throughout the EIAMP. These commitments are summarised in a tabular form in Section 7.0 of the EIAMP.

#### 3.3 Consultation

- Has public consultation taken place (such as with other government agencies, community groups or neighbours), or is it intended that consultation shall take place?  
 Yes       No      **If yes**, please list those consulted and attach comments or summarise response on a separate sheet.

Public consultation is discussed in detail in Section 2.0 of the EIAMP.

## CHECKLIST AND DECLARATION

Before you submit this form, have you:	<b>YES</b>	<b>NO</b>
Completed all the questions on this form?	✓	<input type="checkbox"/>
Have you attached any extra information, such as:		
Site plans?	✓	<input type="checkbox"/>
Detailed explanations?	✓	<input type="checkbox"/>
Comments obtained during consultation?	✓	<input type="checkbox"/>
Have you included any electronic information, such as:		
A CD of the referral and documentation, in PDF format, excluding any confidential information?	✓	<input type="checkbox"/>
A CD of the spatial data?	✓	<input type="checkbox"/>
Any other relevant information?	✓	<input type="checkbox"/>

Following a review of the information presented in this form, please consider the following question. (Your response is Optional)

DO YOU CONSIDER THE PROPOSAL REQUIRES FORMAL ENVIRONMENTAL IMPACT ASSESSMENT?  
 (Information on the levels of environmental impact assessment is available on the EPA website at [www.epa.wa.gov.au](http://www.epa.wa.gov.au))

YES                       NO                       NOT SURE

IF YES, WHAT LEVEL OF ASSESSMENT?

ASSESSMENT ON REFERRAL INFORMATION **or**  
 ENVIRONMENTAL PROTECTION STATEMENT  
 PUBLIC ENVIRONMENTAL REVIEW  
 ENVIRONMENTAL REVIEW AND MANAGEMENT PROGRAMME  
 STRATEGIC ENVIRONMENTAL ASSESSMENT

I, ...John Dennis..... (full name) declare that I have completed all of the questions in this form and attached the requested information and declare that the information contained in this form is, to my knowledge, true and not misleading.

Signature			
Name			John Dennis
Position			
Date			

**Environmental Protection Authority**

Level 8, The Atrium  
168 St Georges Tce  
PERTH WA 6000

**Please mail completed referrals to:**

Postal address:  
PO Box K822  
PERTH WA 6842  
Website: [www.epa.wa.gov.au](http://www.epa.wa.gov.au)

**EPA Service Unit**

Level 8, The Atrium  
168 St Georges Tce  
PERTH WA 6000

Telephone: (08) 6364 6500  
Facsimile : (08) 6364 6520  
Website: [www.dec.wa.gov.au](http://www.dec.wa.gov.au)

Contact details for the head offices of the primary agencies involved in development proposals follow. You may need to contact your relevant district or regional office (details of all State Government agencies are available on the website of the Department of the Premier and Cabinet, [www.dpc.wa.gov.au](http://www.dpc.wa.gov.au)). You will also need to contact your Local Government Authority in the first instance. For some proposals, consultation with or referral to Commonwealth agencies may be required.

**Department of Environment and Conservation**

The Atrium  
168 St Georges Tce  
Perth WA 6000

**For Licensing under Part V -**  
Telephone: (08) 6364 6500  
**For Clearing Permits under Part V**  
Telephone: (08) 9334 0333  
Website: [www.dec.wa.gov.au](http://www.dec.wa.gov.au)

**Department of Water**

The Atrium  
168 St Georges Terrace  
Perth WA 6000

Telephone: (08) 6364 7600  
Website: [www.water.wa.gov.au](http://www.water.wa.gov.au)

**Department of Industry & Resources**

Mineral House  
100 Plain St  
East Perth WA 6004

Telephone: (08) 9327 5555  
Website: [www.doir.wa.gov.au](http://www.doir.wa.gov.au)

**Department of Fisheries**

3<sup>rd</sup> floor, SGIO Atrium  
168 St George's Terrace  
Perth WA 6000

Telephone: (08) 9482 7333  
Website: [www.wa.gov.au/westfish](http://www.wa.gov.au/westfish)

**Department for Planning and Infrastructure (including Bush Forever Office)**

Albert Facey House  
469 Wellington Street  
Perth WA 6000

Telephone: (08) 9264 7777  
Telephone: 1800 626 477 (Bush Forever Office)  
Website: [www.planning.wa.gov.au](http://www.planning.wa.gov.au)

**Department of Indigenous Affairs**

Level 1, 197 St George's Terrace  
PERTH WA 6000

Telephone: (08) 9235 8000  
Website: [www.dia.wa.gov.au](http://www.dia.wa.gov.au)

**Health Department of Western Australia**

189 Royal St  
EAST PERTH WA 6004

Telephone: (08) 9222 4222  
Website