



Environmental Protection Authority

EPA Referral Form

Form for the referral of a proposal to the Environmental Protection Authority under Section 38 of the *Environmental Protection Act 1986*

Referrer information			
Who is referring this proposal?		<input checked="" type="checkbox"/> Proponent <input type="checkbox"/> Decision-making authority <input type="checkbox"/> Community member/third party	
Name (print) Charles Tan		Signature 	
Position	Chief Operating Officer	Organisation	Hastings Technology Metals Limited
Email	charles.tan@hastingstechmetals.com		
Address	Level 1, 306		Murray Street
	Perth	WA	6000
Date	30 th January, 2017		
Does the referrer request that the EPA treat any part of the proposal information in the referral as confidential? <i>Provide confidential information in a separate attachment.</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Referral declaration for organisations, proponents and decision-making authorities: I, Charles Tan, (<i>full name</i>) declare that I am authorised to refer this proposal on behalf of Hastings Technology Metals Limited and further declare that the information contained in this form is true and not misleading.			
Part A: Proponent and proposal description			
Proponent information			
Name of the proponent/s (including Trading Name if relevant)		Hastings Technology Metals Limited	
Australian Company Number(s)	<input checked="" type="checkbox"/>	122 911 399	
OR			
Australian Business Number(s)	<input type="checkbox"/>		
Contact for the proposal (if different from the referrer) <i>Please include: name; physical address; phone; and email.</i>		Lara Jefferson c/o Wave International Level 1, 306 Murray St Perth WA 6000 m. 0477 340 613 email: lara.jefferson@enperitus.com	

<p>Does the proponent have the legal access required for the implementation of all aspects of the proposal? <i>If yes, provide details of legal access authorisations / agreements / tenure.</i> <i>If no, what authorisations / agreements / tenure is required and from whom?</i></p>	<p>X Yes <input type="checkbox"/> No See section 2.4 of the Environmental Review Document for details of land tenure</p>
Proposal type	
<p>What type of proposal is being referred? For a change to an approved proposal please state the Ministerial Statement number/s (MS No./s) of the approved proposal For a derived proposal please state the Ministerial Statement number (MS No.) of the associated strategic proposal</p>	<p>X significant – new proposal <input type="checkbox"/> significant – change to approved proposal (MS No./s: _____) <input type="checkbox"/> proposal under an assessed planning scheme <input type="checkbox"/> strategic <input type="checkbox"/> derived (Strategic MS No.: _____)</p>
<p>For a significant proposal:</p> <ul style="list-style-type: none"> Why do you consider the proposal may have a significant effect on the environment and warrant referral to the EPA? 	<p>The Project may have a significant effect on the environment and requires consideration of:</p> <ul style="list-style-type: none"> clearing of up to 1000 Ha of native vegetation, dewatering of mine pits, the presence of elevated levels of radionuclides in two of three tailings storage facilities, removal of subterranean fauna habitat during mining, and <p>thus warrants referral of the Project to the EPA.</p>
<p>For a proposal under an assessed planning scheme, provide the following details:</p> <ul style="list-style-type: none"> Scheme name and number <p>For the Responsible Authority:</p> <ul style="list-style-type: none"> What new environmental issues are raised by the proposal that were not assessed during the assessment of the planning scheme? How does the proposal not comply with the assessed scheme and/or the environmental conditions in the assessed planning scheme? 	<p>N/A</p>
Proposal description	
<p>Title of the proposal</p>	<p>Yangibana Rare Earths Project</p>
<p>Name of the Local Government Authority in which the proposal is located.</p>	<p>Shire of Upper Gascoyne</p>
<p>Location:</p> <p>a) street address, lot number, suburb, and nearest road intersection; or</p> <p>b) if remote the nearest town and distance and direction from that town to the proposal site.</p>	<p>Wanna Station, Cobra-Gifford Creek Road, West Lyons River Approximately 150 km northeast of Gascoyne Junction</p>
<p>Proposal description – including the key characteristics of the proposal <i>Provide as an attachment to the form</i></p>	<p>See section 3.3 of the Environmental Review Document for the proposal description. See attachment 1 for summary of key characteristics (Tables 1 and 2).</p>

Have you provided electronic spatial data, maps and figure in the appropriate format? <i>Refer to instructions at the front of the form</i>	X Yes <input type="checkbox"/> No
What is the current land use on the property, and the extent (area in hectares) of the property?	The current land use on the property is mineral exploration, planned mine development activities (e.g. geotechnical investigations, water investigations), and pastoral activities. The extent of the development envelope is 12,098 ha.
Have you had pre-referral discussions with the OEPA? If so, quote the reference number and/or the OEPA contact.	Peter Tapsell (10 th September, 2015) Chris Stanley (19 th October, 2016; 23 rd January, 2017)

Part B: Environmental impacts

Environmental factors

What are the likely significant environmental factors for this proposal?	<input type="checkbox"/> Benthic Communities and Habitat <input type="checkbox"/> Coastal Processes <input type="checkbox"/> Marine Environmental Quality <input type="checkbox"/> Marine Fauna <input checked="" type="checkbox"/> Flora and Vegetation <input type="checkbox"/> Landforms <input checked="" type="checkbox"/> Subterranean Fauna <input checked="" type="checkbox"/> Terrestrial Environmental Quality <input type="checkbox"/> Terrestrial Fauna <input type="checkbox"/> Hydrological Processes <input checked="" type="checkbox"/> Inland Waters Environmental Quality <input type="checkbox"/> Air Quality <input type="checkbox"/> Social Surroundings <input checked="" type="checkbox"/> Human Health
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For each of the environmental factors identified above, complete the following table, or provide the information in a supplementary report

Refer to section 5 of the Environmental Review Document for consideration of potential environmental impacts associated with each key factor.

Potential environmental impacts

1	EPA Factor	
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2	EPA policy and guidance - What have you considered and how have you applied them in relation to this factor?	
3	Consultation – Outline the outcomes of consultation in relation to the potential environmental impacts	
4	Receiving environment - Describe the current condition of the receiving environment in relation to this factor.	
5	Proposal activities – Describe the proposal activities that have the potential to impact the environment	
6	Mitigation - Describe the measures proposed to manage and mitigate the potential environmental impacts.	
7	Impacts - Assess the impacts of the proposal and review the residual impacts against the EPA objective.	
8	Assumptions - Describe any assumptions critical to your assessment <i>e.g. particular mitigation measures or regulatory conditions.</i>	

Part C: Other approvals and regulation			
State and Local Government approvals			
Is rezoning of any land required before the proposal can be implemented? If yes, please provide details.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If this proposal has been referred by a decision-making authority, what approval(s) are required from you?		N/A	
Proposal activities e.g. clearing, dewatering, mining, processing, dredging,	Land tenure/access e.g. Crown land – LA Act, Min Act, CALM Act specify type	Type of approval e.g. Native Vegetation Clearing Permit, licence, mining proposal,	Legislation regulating the activity e.g. <i>EP Act 1986 – Part V, RiWI Act 1914, Mining Act 1979</i>
Mining	<i>Mining Act 1978: Mining lease</i>	Mining Proposal	<i>Mining Act 1978</i>
Closure and rehabilitation	<i>Mining Act 1978: all mining tenure</i>	Approval of Mine Closure Plan	<i>Mining Act 1978</i>
Water abstraction, dewatering	<i>Mining Act 1978: Mining Lease and Miscellaneous Lease</i>	26D and 5C licenses	<i>Rights in Water and Irrigation Act 1914</i>
Handling of naturally occurring radioactive materials, radiation safety	<i>Mining Act 1978: all mining tenure</i>	Approval of Radiation Management Plan and Radiation Waste Management Plan	<i>Mines Safety and Inspection Act 1994</i> <i>Radiation Safety Act 1975</i>
Buildings	<i>Mining Act 1978: all mining tenure</i>	Building licenses	<i>Local Government Act 1995</i>
Prescribed waste premises	<i>Mining Act 1978: all mining tenure</i>	Works Approvals and Operating Licenses	<i>Environmental Protection Act 1986</i>
Clearing	<i>Mining Act 1978: all mining tenure</i>	Native Vegetation Clearing Permit	<i>Environmental Protection Act 1986</i>
Commonwealth Government approvals			
Does the proposal involve an action that may be or is a controlled action under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Has the proposed action been referred? If yes, when was it referred and what is the reference number (EPBC No.)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Date: 15 December 2016	

Part C: Other approvals and regulation	
	EPBC No.: 2016/7845
If referred, has a decision been made on whether the proposed action is a controlled action? If 'yes', check the appropriate box and provide the decision in an attachment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Decision – controlled action <input type="checkbox"/> Decision – not a controlled action
Do you request that this proposal be assessed under the bilateral agreement or as an accredited assessment?	<input type="checkbox"/> Yes - Bilateral <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - Accredited
Is approval required from other Commonwealth Government/s for any part of the proposal? <i>If yes, describe.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Approval:

ATTACHMENT 1: Key Project Characteristics

Table 1 Summary of the Proposal

Proposal Title	Yangibana Rare Earths Project
Proponent Name	Hastings Technology Metals Limited
Short Description	Hastings Technology Metals Limited (Hastings) proposes to develop the Yangibana Rare Earths Project (the Proposal), located approximately 270 km east-northeast of Carnarvon, in the Upper Gascoyne region of Western Australia (WA). The Proposal will involve mining above and below the ground water table, on site processing of ore, water abstraction, and transport via road to Geraldton port for export.

Table 2: Location and proposed extent of physical and operational elements

Element	Location	Proposed Extent
Physical elements		
Mine and associated infrastructure	Figure 2	Clearing of no more than 1,000 Ha within a development envelope of 12,098 Ha
Operational elements		
Mining	Figure 2	Mining from four pits
Water abstraction, including dewatering from pits	Figure 2	Abstraction of no more than 2.5 GL/a of groundwater
Ore processing (waste)	Figure 2	Tailings disposal of no more than: <ul style="list-style-type: none"> • 6.545 Mt into TSF1 • 280,000 t into TSF2 • 420,000 t into TSF3
Transport	Figure 1	Transport of packaged product (~13,000 tpa) to port via trucks on existing roads. Storage of packaged product at an existing port facility. Loading of product on existing container ships.