



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 Vincent Algar		Signature	
Position	Managing Director	Organisation	Australian Vanadium Limited
Email	vincent@australianvanadium.com.au		
Address	Level 1, 85	Havelock St	
	West Perth	WA	6005
Date	15 March 2021		
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, Vincent Algar declare that I am authorised to refer this proposal on behalf of Australian Vanadium 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)		Australian Vanadium Limited	
Australian Company Number(s) <input type="checkbox"/>		90 116 221 740	
OR Australian Business Number(s) <input checked="" type="checkbox"/>			
Contact for the proposal (if different from the referrer) <i>Please include: name, physical address, phone, and email.</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Emma Molloy Principal Environmental Consultant	

	<p>Level 3, 1060 Hay St West Perth Mob: 0418 664 410 Email: emma@australianvanadium.com.au</p>
<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><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Mining tenement M51/878 is granted, the bulk of the Proposal lies within this tenement.</p> <p>Mining tenement M51/890 is pending, this underlies a small part of the southern part of the proposed mine area.</p> <p>A miscellaneous licence application will be submitted to DMIRS for the infrastructure corridor and road diversion (if required), when the final alignment is determined.</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</p> <p>For a derived proposal please state the Ministerial Statement number (MS No.) of the associated strategic proposal</p>	<p><input checked="" type="checkbox"/> 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 Proposal includes groundwater dewatering to facilitate open pit mining, which will cause drawdown and may impact on a Priority 1 Protected Ecological Community for stygofauna, as well as other stygofauna habitat.</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>Australian Vanadium Project – Mining and Beneficiation Operations</p>
<p>Name of the Local Government Authority in which the proposal is located.</p>	<p>Shire of Meekatharra and Shire of Cue</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>40 km south-southeast of Meekatharra along Meekatharra-Sandstone Rd.</p>	
<p>Proposal description – including the key characteristics of the proposal</p> <p><i>Provide as an attachment to the form</i></p>	<p>See Attachment 1</p>	
<p>Have you provided electronic spatial data, maps and figure in the appropriate format?</p> <p><i>Refer to instructions at the front of the form</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>What is the current land use on the property, and the extent (area in hectares) of the property?</p>	<p>The current land use on the property is pastoral activities. Mineral exploration has been undertaken at the Proposal in recent years, and the Meekatharra-Sandstone Road passes through the Proposal area.</p> <p>The total extent of the Development Envelopes is 10,935 ha.</p>	
<p>Have you had pre-referral discussions with the EPA at DWER Services? If so, quote the reference number and/or the DWER contact.</p>	<p>Yes – see Supporting Document Section 3.0 Stakeholder Consultation.</p> <p>Most recent contact with Liesl Rohl.</p>	
<p>Part B: Environmental impacts</p>		
<p>Environmental factors</p>		
<p>What are the likely significant environmental factors for this proposal?</p>	<p><input type="checkbox"/> Benthic Communities and Habitat</p> <p><input type="checkbox"/> Coastal Processes</p> <p><input type="checkbox"/> Marine Environmental Quality</p> <p><input type="checkbox"/> Marine Fauna</p> <p><input type="checkbox"/> Flora and Vegetation</p> <p><input type="checkbox"/> Landforms</p> <p><input checked="" type="checkbox"/> Subterranean Fauna</p> <p><input type="checkbox"/> Terrestrial Environmental Quality</p> <p><input type="checkbox"/> Terrestrial Fauna</p> <p><input type="checkbox"/> Inland Waters</p> <p><input type="checkbox"/> Air Quality</p> <p><input type="checkbox"/> Social Surroundings</p> <p><input type="checkbox"/> Human Health</p>	
<p><i>For each of the environmental factors identified above, complete the following table, or provide the information in a supplementary report</i></p>		
<p>Potential environmental impacts</p>		
<p>1</p>	<p>EPA Factor</p>	<p>See Supporting Document Executive Summary</p>
<p>2</p>	<p>EPA policy and guidance - What have you considered and how have you applied them in relation to this factor?</p>	<p></p>

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 e.g. particular mitigation measures or regulatory conditions.	

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	
Please identify other approvals required for the proposal:			
Proposal activities	Land tenure/access	Type of approval	Legislation regulating the activity
Proposal development and mining	Pastoral leases and C class reserves overlying Crown Land	Grant of Mining Act mining tenements	<i>Mining Act 1978</i>
Surface mining in road reserve	Road reserve and Mining Act mining tenements	Amendment of mining tenement conditions	<i>Mining Act 1978</i>
Ground disturbance and mining activities	Mining Act mining tenements	Mining Proposal and Mine Closure Plan	<i>Mining Act 1978</i>
Construction of access road and pipeline through Shire of Cue	Mining Act mining tenements	Development Application	<i>Planning and Development Act 2005</i>
Land clearing (if Proposal is not assessed by the EPA)	Mining Act mining tenements	Native vegetation clearing permit	<i>Environmental Protection Act 1986</i> Environmental Protection (Clearing of Native Vegetation) Regulations 2004
Construction of new access road and diversion drains around mining landforms	Mining Act mining tenements	Permit to disturb beds and banks	<i>Rights in Water and Irrigation Act 1914 (RIWI Act)</i>
Installation of groundwater dewatering bores	Mining Act mining tenements	Licence 26D to construct wells	<i>Rights in Water and Irrigation Act 1914</i>
Groundwater abstraction for dewatering	Mining Act mining tenements	Licence 5C to take groundwater	<i>Rights in Water and Irrigation Act 1914</i>

Part C: Other approvals and regulation			
State and Local Government approvals			
Construction and operation of prescribed premises, including concentrator plant, tailings storage cells, wastewater treatment facility, landfill, mine dewatering	Mining Act mining tenements	Works Approval Licence to Operate	<i>Environmental Protection Act 1986 Part V</i> <i>Environmental Protection Regulations 1987</i>
Installation of buildings in the accommodation village	Mining Act mining tenements	Building permit	<i>Building Act 2011</i>
Installation of wastewater treatment plant	Mining Act mining tenements	Application to construct or install apparatus for the treatment of sewage	Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974
Installation of water treatment plant	Mining Act mining tenements	Drinking water quality management plan	State Mining Engineer advice regarding Minesite Drinking Water Quality, 2008
Mining operations	Mining Act mining tenements	Project Management Plan	<i>Mines Safety and Inspection Act 1994</i>
Storage of explosives	Mining Act mining tenements	Explosives Storage Licence application	<i>Dangerous Goods Safety Act 2004</i> <i>Dangerous Goods Safety (Explosives) Regulations 2007</i>
Storage of dangerous goods (if required for proposed quantities)	Mining Act mining tenements	Dangerous Goods Site Licence application	<i>Dangerous Goods Safety Act 2004</i>
Disturbance of Aboriginal sites (if required)	Mining Act mining tenements	Section 18 consent	<i>Aboriginal Heritage Act 1972 (AHA)</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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Has the proposed action been referred? If yes, when was it referred and what is the reference number (EPBC No.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: _____ EPBC No.: _____		
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 type="checkbox"/> No <input type="checkbox"/> Decision – controlled action		

Part C: Other approvals and regulation	
State and Local Government approvals	
	<input type="checkbox"/> Decision – not a controlled action
If the proposal is determined to be 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 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 type="checkbox"/> No Approval:

Attachment 1: Key Project Characteristics

Table 1 Summary of the Proposal

Proposal Title	Australian Vanadium Project – Mining and Beneficiation Operations
Proponent Name	Australian Vanadium Limited
Short Description	The proposal is to mine and beneficiate vanadium ore to produce an enriched vanadium-iron concentrate. The proposal includes an open pit mine, crushing, milling, flotation, and magnetic separation (beneficiation) plant, waste rock and tailings storage, and support infrastructure, located 40 km south-southeast of Meekatharra.

Table 2 Location and proposed extent of physical and operational elements

Element	Location	Proposed Extent
Physical elements		
Mine, Concentrator and associated infrastructure	Figure 2.1	Clearing of no more than 2,700 ha of native vegetation within the 8,295 ha Mine Development Envelope
Meekatharra-Sandstone Rd diversion	Figure 2.1	Clearing of no more than 6 ha of native vegetation within the 15 ha Diversion Development Envelope
Access road and infrastructure corridor	Figure 2.2	Clearing of no more than 1,100 ha of native vegetation within the 2,625 ha Infrastructure Corridor Development Envelope
Open pit	Figure 2.1	The open pits cover a combined maximum surface area 350 ha within the Open Pits Disturbance Footprint
Operational elements		
Groundwater abstraction	Figure 2.1	Groundwater abstraction of no more than 3 gigalitres per annum
Beneficiation waste	Figure 2.1	Disposal of no more than 920,000 tonnes per annum of iron-sinks rejects (tailings solids) into the Integrated Waste Landform tailings cells.