




# Environmental Protection Authority

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

Referrer information			
		<input checked="" type="checkbox"/> Proponent <input type="checkbox"/> Decision-making authority <input type="checkbox"/> Community member/third party	
Name (print) Anthony Nicholson		Signature 	
Position	Director	Organisation	Resource Group (WA) Pty Ltd
Email	tonynicholson@resourcegroup.com.co		
Address	PO Box 332		
	Inglewood	WA	6052
Date	24/01/2020		
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Referral declaration for organisations, proponents and decision-making authorities:</b>  I, Anthony Nicholson declare that I am authorised to refer this proposal on behalf of Resource Group (WA) Pty Ltd 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)		Resource Group (WA) Pty Ltd	
Australian Company Number(s) <input type="checkbox"/> <b>OR</b> Australian Business Number(s) <input checked="" type="checkbox"/>		8779452928	
Contact for the proposal (if different from the referrer) <i>Please include: name, physical address, phone, and email.</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the proponent have the legal access required for the implementation of all aspects of the proposal?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

<p><i>If yes, provide details of legal access authorisations / agreements / tenure.</i></p> <p><i>If no, what authorisations / agreements / tenure is required and from whom?</i></p>	<p>Sent with hard copy via post.</p>
<p><b>Proposal type</b></p>	
<p><b>What type of proposal is being referred?</b></p> <p>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</p> <p><input type="checkbox"/> significant – change to approved proposal (MS No./s: _____) proposal under an assessed planning scheme</p> <p><input type="checkbox"/> strategic</p> <p><input type="checkbox"/> derived (Strategic MS No.: _____)</p>
<p>For a significant proposal:</p> <ul style="list-style-type: none"> <li>Why do you consider the proposal may have a significant effect on the environment and warrant referral to the EPA?</li> </ul>	<ul style="list-style-type: none"> <li>Clearing of up to 8.2 ha of native vegetation considered representative of the 'Eucalypt Woodlands of the Western Australian Wheatbelt' Priority Ecological Community;</li> <li>loss of 8.4 ha of native vegetation that may provide potential suitable foraging habitat for Carnaby's black cockatoo; and</li> <li>particulate dust from quarrying and associated activities may impact upon human health, amenity and the environment</li> </ul>
<p>For a proposal under an assessed planning scheme, provide the following details:</p> <ul style="list-style-type: none"> <li>Scheme name and number</li> </ul> <p>For the Responsible Authority:</p> <ul style="list-style-type: none"> <li>What new environmental issues are raised by the proposal that were not assessed during the assessment of the planning scheme?</li> <li>How does the proposal not comply with the assessed scheme and/or the environmental conditions in the assessed planning scheme?</li> </ul>	<p>n/a</p>
<p><b>Proposal description</b></p>	
<p>Title of the proposal</p>	<p>Proposed Quarrying, crushing and screening of Hard Rock Lot 150 Clydesdale Road Grass Valley</p>
<p>Name of the Local Government Authority in which the proposal is located.</p>	<p>Shire of Northam</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>Lot 150 on Plan 300080 (#792) Clydesdale Road Grass Valley</p> <p>Closest Intersection is Watson Rd and Clydesdale Rd. Nearest town is Grass Valley, approx. 3.2km to the southwest</p>

<p><b>Proposal description – including the key characteristics of the proposal</b>  <i>Provide as an attachment to the form</i></p>	<p>It is proposed to extract, crush and screen approximately seventy thousand tonne (70,000tn) of hard rock sales per annum over the ten-year license period. In the first year or two of operation it is likely that the volumes will be lower than applied for as the business establishes itself in the market place. Additionally, sales volumes may vary from year to year up to a maximum of ~70,000tn depending on the market requirements at any given time. It is anticipated at this point that at the expiry of the first license period a second ten-year license will be sought, and so on until the resource is depleted in 20-30 years  See Supporting documentation for further information</p>
<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></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>Current land use of the property is mixed farming; being crops and sheep (~5000 head). The total proposed development area covers approximately 15.2 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>No, only preliminary correspondence</p>
<p><b>Part B: Environmental impacts</b></p>	
<p><b>Environmental factors</b></p>	
<p>What are the likely significant environmental factors for this proposal?</p>	<p> <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 type="checkbox"/> Subterranean Fauna  <input type="checkbox"/> Terrestrial Environmental Quality  <input checked="" type="checkbox"/> Terrestrial Fauna  <input type="checkbox"/> Inland Waters  <input checked="" type="checkbox"/> Air Quality  <input type="checkbox"/> Social Surroundings  <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 Only Flora and Vegetation, Terrestrial Fauna and Air Quality are considered to potentially be significant environmental factors for this proposal, however for completeness and to address factors listed in the third party EPA referral, information on other EPA</i></p>	

factors including landforms, terrestrial environmental quality, social surroundings and human health have been provided in the supporting documentation, with associated studies and assessment reports provided in appendices to the supporting documentation.

**Potential environmental impacts**

1	<b>EPA Factor - Flora and Vegetation</b>	Refer to Supporting Documentation
2	<b>EPA policy and guidance</b> - What have you considered and how have you applied them in relation to this factor?	<ul style="list-style-type: none"> <li>• Environmental Factor Guideline: Flora and Vegetation (Environmental Protection Authority 2016a);</li> <li>• Technical Guidance: Flora and Vegetation Surveys for Environmental Impact Assessment (Environmental Protection Authority 2016c).</li> </ul>
3	<b>Consultation</b> – Outline the outcomes of consultation in relation to the potential environmental impacts	A combined meeting with the EPA, Holcim and Resource Group representatives held at DWER offices at Joondalup on the 17th April 2019 to discuss the proposal.
4	<b>Receiving environment</b> – Describe the current condition of the receiving environment in relation to this factor.	Farmland with scattered remnants of degraded of <i>Eucalyptus wandoo</i> tall open woodland with scattered <i>Eucalyptus loxophleba</i> (ecologia 2019)
5	<b>Proposal activities</b> – Describe the proposal activities that have the potential to impact the environment	Hard rock extraction and rehabilitation of the site. Refer to Supporting Documentation for further information
6	<b>Mitigation</b> – Describe the measures proposed to manage and mitigate the potential environmental impacts.	<p>Impacts to flora and vegetation will be mitigated through the following:</p> <ul style="list-style-type: none"> <li>• Minimising clearing to that required for the construction and operation of the quarry</li> <li>• Development and implementation of an Environmental Management Plan (EMP) including management measures such as: <ul style="list-style-type: none"> <li>○ clearing and access control measures (such as demarcation of clearing boundaries)</li> <li>○ weed management</li> <li>○ post-mining rehabilitation</li> <li>○ erosion and sediment control</li> <li>○ waste and fire management</li> <li>○ topsoil management</li> <li>○ dust control.</li> </ul> </li> </ul>

7	<b>Impacts</b> – Assess the impacts of the proposal and review the residual impacts against the EPA objective.	Loss of up to 8.2 ha of degraded remnant vegetation consistent with ‘Eucalypt Woodlands of the Western Australian Wheatbelt’ Priority Ecological Community (PEC)
8	<b>Assumptions</b> - Describe any assumptions critical to your assessment e.g. particular mitigation measures or regulatory conditions.	
<b>Potential environmental impacts</b>		
1	<b>EPA Factor - Terrestrial fauna</b>	Refer to Supporting Documentation
2	<b>EPA policy and guidance</b> - What have you considered and how have you applied them in relation to this factor?	<ul style="list-style-type: none"> <li>• Environmental Factor Guideline: Terrestrial Fauna (Environmental Protection Authority 2016b); and</li> <li>• Technical Guidance - Terrestrial Fauna Surveys for Environmental Impact Assessment (Environmental Protection Authority 2016d)</li> </ul>
3	<b>Consultation</b> – Outline the outcomes of consultation in relation to the potential environmental impacts	A combined meeting with the EPA, Holcim and Resource Group representatives held at DWER offices at Joondalup on the 17th April 2019 to discuss the proposal.
4	<b>Receiving environment</b> – Describe the current condition of the receiving environment in relation to this factor.	One broad fauna habitat type was identified from the proposal area; Open Eucalypt woodland which represents 55.4% of the area. Nine vertebrate species were recorded including seven bird species and two mammals. One introduced predator species (red fox) was recorded. No EPBC Act listed ‘Threatened fauna’ taxa, BC Act listed ‘Threatened fauna’ taxa or DBCA-listed ‘Priority’ fauna taxa. Conservation significant fauna that may potentially utilise proposal include Carnaby’s black cockatoo (‘Possible (2)’), peregrine falcon (‘Possible (2)’ and the fork-tailed swift (‘Possible (2)’). (ecologia 2019).
5	<b>Proposal activities</b> – Describe the proposal activities that have the potential to impact the environment	Hard rock extraction and rehabilitation of the site. Refer to Supporting Documentation for further information

6	<b>Mitigation</b> – Describe the measures proposed to manage and mitigate the potential environmental impacts.	<ul style="list-style-type: none"> <li>• Minimising clearing to that required for the construction and operation of the quarry</li> <li>• Development and implementation of an Environmental Management Plan (EMP) including management measures such as: <ul style="list-style-type: none"> <li>○ clearing and access control measures (such as demarcation of clearing boundaries)</li> <li>○ weed management</li> <li>○ post-mining rehabilitation</li> <li>○ erosion and sediment control</li> <li>○ waste and fire management</li> <li>○ topsoil management</li> <li>○ dust control.</li> </ul> </li> </ul>
7	<b>Impacts</b> – Assess the impacts of the proposal and review the residual impacts against the EPA objective.	Loss of up to 8.41 ha of native vegetation that may provide potential suitable foraging habitat for Carnaby's black cockatoo. No suitable black cockatoo nesting habitat trees occur within the proposal area
8	<b>Assumptions</b> - Describe any assumptions critical to your assessment e.g. particular mitigation measures or regulatory conditions.	
<b>Potential environmental impacts</b>		
1	<b>EPA Factor - Air Quality</b>	Refer to Supporting Documentation
2	<b>EPA policy and guidance</b> - What have you considered and how have you applied them in relation to this factor?	<ul style="list-style-type: none"> <li>• Environmental Factor Guideline: Air Quality (Environmental Protection Authority 2016e);</li> </ul>
3	<b>Consultation</b> – Outline the outcomes of consultation in relation to the potential environmental impacts	A combined meeting with the EPA, Holcim and Resource Group representatives held at DWER offices at Joondalup on the 17th April 2019 to discuss the proposal.
4	<b>Receiving environment</b> – Describe the current condition of the receiving environment in relation to this factor.	The closest third-party sensitive receptor that has the potential to experience elevated particulate levels as a result of the proposal is a residential premise located approximately 850 m southwest of the nearest quarry pit (SLR 2019)

5	<b>Proposal activities</b> – Describe the proposal activities that have the potential to impact the environment	Hard rock extraction and rehabilitation of the site. Refer to Supporting Documentation for further information
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6	<p><b>Mitigation</b> – Describe the measures proposed to manage and mitigate the potential environmental impacts.</p>	<p>Management practices to minimise dust emissions from the proposed operations include the following:</p> <ul style="list-style-type: none"> <li>• Include methods for the management of dust emissions into site inductions, training and daily toolbox meetings.</li> <li>• Perform daily inspections of visible dust emissions along the site boundary to identify whether dust is travelling off-site and where the main sources of dust are so that action can be taken to mitigate any impacts (i.e. additional watering etc.)</li> <li>• Site staff should determine the frequency of water cart passes required, based on the following: <ul style="list-style-type: none"> <li>• Weather conditions. No Quarrying or crushing carried out during the main period of high E-SE winds between November and April</li> <li>• Volume of traffic on exposed or dusty surfaces</li> <li>• Extent of stripped area</li> <li>• Extent of unprotected areas</li> <li>• Reduce dust production on site by scheduling work into stages to minimise land disturbance in the planning and design stage, including scheduling installation of control measures for dust prevention, while having regard for seasonal dryness</li> </ul> </li> <li>• Quarrying/crushing carried out during the wetter months of April thru October.</li> <li>• Retain as much vegetative screening between the Facility and the nearest sensitive receptors as possible</li> <li>• Limit vehicle movements to designated haulage routes and parking areas.</li> </ul>
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		<ul style="list-style-type: none"> <li>• Use cattle/shaker grids and wheel wash in order to reduce the tracking of mud off-site.</li> <li>• Regularly water access roads to ensure material is not transported onto the roads around the site.</li> <li>• Keep the areas of land cleared to a minimum, and the period of time areas remain cleared to a minimum.</li> <li>• Rehabilitate cleared areas promptly.</li> <li>• Locate stockpiles in areas that are protected from wind where possible and/or away from sensitive receptors.</li> </ul>
7	<b>Impacts</b> – Assess the impacts of the proposal and review the residual impacts against the EPA objective.	The results of the air quality modelling indicate that all off-site cumulative 24-hour and annual average ground level PM <sub>10</sub> , PM <sub>2.5</sub> and (RCS as PM <sub>2.5</sub> ) concentrations comply with the adopted criteria at the nearest sensitive receptors
8	<b>Assumptions</b> - Describe any assumptions critical to your assessment e.g. particular mitigation measures or regulatory conditions.	The modelling study incorporated a number of conservative assumptions including operation at peak weekly throughput throughout April to November. The predicted off-site impacts are therefore likely to be significant overestimation of the potential worst-case impacts.

## 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:		
<b>Proposal activities</b> e.g. clearing, dewatering, mining, processing, dredging	<b>Land tenure/access</b> e.g. Crown land, Mining lease, specify legislation for access if relevant	<b>Type of approval</b> e.g. Native Vegetation Clearing Permit, licence, mining proposal,
General Application		Extractive Industry License
Clearing of native vegetation		Native Vegetation Clearing Permit
		<b>Legislation regulating the activity</b> e.g. <i>EP Act 1986 – Part V, RiWI Act 1914, Mining Act 1979</i>
		Northam Shire Extractive Industry Local Law 2008
		<i>Environmental Protection Act 1986, section 51E</i>

EPA license/works approval		Works Approval	Part V of the <i>Environmental Protection Act 1986</i> (EP Act)
<b>Commonwealth Government approvals</b>			
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 checked="" type="checkbox"/> No	<input type="checkbox"/> Decision – controlled action <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 checked="" 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 checked="" type="checkbox"/> No	Approval: