



# 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 Stephen Green		Signature 	
Position	Manager – Workplace Health, Safety, Training and Environment	Organisation	Talison Lithium Australia Pty Ltd
Email	Steve.Green@talisonlithium.com		
Address	Maranup Ford Road		
	Greenbushes	WA	6254
Date	26 June 2018		
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	
<b>Referral declaration for organisations, proponents and decision-making authorities:</b> I, <b>Stephen Green</b> declare that I am authorised to refer this proposal on behalf of <b>Talison Lithium Australia Pty Ltd</b> 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)		Talison Lithium Australia Pty Ltd (Talison)	
Australian Company Number(s) <input checked="" type="checkbox"/>		139 401 308	
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>		Stephen Green Maranup Ford Road, Greenbushes WA 6254 +61 8 9782 5759 Steve.Green@talisonlithium.com	

<p>Does the proponent have the legal access required for the implementation of all aspects of the proposal?</p> <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><input checked="" type="checkbox"/> Yes      <input type="checkbox"/> No</p> <p>The Greenbushes Lithium Mine Expansion will occur on tenure granted under the <i>Mining Act 1978</i>. Talison is the registered tenement holder for the tenements the Proposal will occur on</p> <p>M 01/03 M 01/06 M 01/07 M 01/08 M 01/09 M 01/16 G01/1 G01/2</p> <p>See section 1.4 and Figure 2 of the supporting document, Expansion of the Greenbushes Lithium Mine, Environmental Referral Supporting Document (GHD 2018).</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: _____)</p> <p><input type="checkbox"/> 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>	<p>Talison is proposing to expand the existing Greenbushes Lithium Mine and increase the rate of production from the operation. The expansion will require clearing of up to 350 ha of native vegetation (outside existing approved clearing areas) within the Greenbushes State Forest (broadly Jarrah/Marri Forest and Jarrah/Marri Forest over Banksia). The native vegetation clearing will impact on the habitat of Matters of National Environmental Significance (MNES) including Baudin's, Carnaby's and Forest Red-tailed Black Cockatoos, Chuditch, and potentially the Western Ringtail Possum (presence is unconfirmed). The expansion has been referred to the Federal Department of Environment and Energy (DoEE) for consideration due to the impact on MNES. On 17 June 2018, the DoEE determined the Proposal to be a 'Controlled Action' requiring approval due to impacts on listed threatened species and communities.</p> <p>Other conservation significant fauna known to occur within the native vegetation habitat within the Mine Development Envelope include Wambenger Brush-tailed Phascogale, Quenda and the Western Brush Wallaby. The expansion and operation of the mine has the potential to impact on flora and vegetation, terrestrial fauna, terrestrial environmental quality, hydrological processes, inland waters environmental quality air quality and social surrounds.</p> <p>The impacts associated with the expansion are not new, given the extensive history of the mine, however they are potentially an increase to the impacts associated with current activities.</p> <p>Further information is included in Chapter 4 of the supporting report Expansion of the Greenbushes Lithium Mine, Environmental Referral Supporting Document (GHD 2018).</p>
<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>	

<b>Proposal description</b>	
Title of the proposal	Talison Greenbushes Lithium Mine Expansion
Name of the Local Government Authority in which the proposal is located.	Shire of Bridgetown - Greenbushes
Location: a) street address, lot number, suburb, and nearest road intersection; or b) if remote the nearest town and distance and direction from that town to the proposal site.	<p>The Greenbushes Lithium Mine is located immediately south of the town of Greenbushes, in the South West region of Western Australia. The main mining area is bounded to the west by Maranup Ford Road, and to the east by South Western Highway. Refer to Figure 2 of the Talison Greenbushes Lithium Mine Expansion, Environmental Referral Supporting Document (GHD 2018).</p>
Proposal description – including the key characteristics of the proposal <i>Provide as an attachment to the form</i>	<p>Talison is proposing to expand the existing Talison Greenbushes Lithium Mine. The Proposal includes an expanded open pit, extension of the existing waste rock landform, construction of two additional processing plants and crusher (Chemical Grade Plant #3 and #4), expansion of an existing ROM, a new Mine Services Area, new explosive magazine and batching facility, construction of a new tailings storage facility (TSF 4), and establishment of linear supporting infrastructure for the expansion including pipelines/power supply/access roads and a possible bypass road for the town of Greenbushes.</p> <p>The mining rate will also increase to approximately 16 Mbcm per annum which will require additional mining fleet and blasting activity. The ore processing rate will increase from 4.7 Mtpa to 9.5 Mtpa. Lithium mineral concentrate production will increase from 1.2 Mtpa to 2.3 Mtpa.</p> <p>The proposed expansion will require 350 ha of native vegetation clearing outside existing approval areas.</p> <p>Further details, including the Key Characteristics table, are provided in the Talison Greenbushes Lithium Mine Expansion, Environmental Referral Supporting Document (GHD 2018), section 2.3.</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>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

<p>What is the current land use on the property, and the extent (area in hectares) of the property?</p>	<p>The primary existing land use within the proposed Mine Development Envelope is mining activity. The mining activity occurs within the Greenbushes State Forest (State Forest 20). The expansion will require the mine footprint to expand onto one agricultural property. The existing Development Envelope /Active Mine Area boundary is 1,591 ha and will increase to 1,989 ha as a result of the expansion.</p> <p>Further details are within the attached supporting document.</p> <p>Greenbushes Lithium Mine Expansion, Environmental Referral Supporting Document (GHD 2018)</p>
<p>Have you had pre-referral discussions with the OEPA? If so, quote the reference number and/or the OEPA contact.</p>	<p>Pre-referral meetings have been held with DWER – EPA services unit on 26 October 2017, 14 March 2018, 11 May 2018 and 31 May 2018.</p> <p>Contacts: Robert Hughes</p>

## Part B: Environmental impacts

### Environmental factors

<p>What are the likely significant environmental factors for this proposal?</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Benthic Communities and Habitat</li> <li><input type="checkbox"/> Coastal Processes</li> <li><input type="checkbox"/> Marine Environmental Quality</li> <li><input type="checkbox"/> Marine Fauna</li> <li><input checked="" type="checkbox"/> Flora and Vegetation</li> <li><input type="checkbox"/> Landforms</li> <li><input type="checkbox"/> Subterranean Fauna</li> <li><input checked="" type="checkbox"/> Terrestrial Environmental Quality</li> <li><input checked="" type="checkbox"/> Terrestrial Fauna</li> <li><input checked="" type="checkbox"/> Hydrological Processes</li> <li><input checked="" type="checkbox"/> Inland Waters Environmental Quality</li> <li><input checked="" type="checkbox"/> Air Quality</li> <li><input checked="" type="checkbox"/> Social Surroundings</li> <li><input type="checkbox"/> Human Health</li> </ul>
---	---

For the environmental factors identified above, information is provided in a supplementary report, Greenbushes Lithium Mine Expansion, Environmental Referral Supporting Document (GHD 2018), Chapter 4.

## Part C: Other approvals and regulation

### State and Local Government approvals

Is rezoning of any land required before the proposal can be implemented?

Yes  No

If yes, please provide details.

If this proposal has been referred by a decision-making authority, what approval(s) are required from you?

N/A

<b>Proposal activities</b> e.g. clearing, dewatering, mining, processing, dredging,	<b>Land tenure/access</b> e.g. Crown land – LA Act, Min Act, CALM Act specify type	<b>Type of approval</b> e.g. Native Vegetation Clearing Permit, licence, mining proposal	<b>Legislation regulating the activity</b> e.g. <i>EP Act 1986 – Part V, RIWI Act 1914, Mining Act 1979</i>
Clearing of Native Vegetation	Mining Tenement	Native Vegetation Clearing Permit (if not assessed under Part IV of the <i>Environment Protection Act 1986</i> )	<i>Environment Protection Act 1986 (Part V), Clearing of Native Vegetation Regulations 2004</i>
Mining Expansion of the mine open pit and waste dump, and development of a new Mine Services Area and Magazine.	Mining Tenement	The operation will require an updated Mining Proposal in accordance with the 2016 Guidelines for Mining Proposals in Western Australia	<i>Mining Act 1978</i>
Processing (includes Tailings Storage) Construction and operation of two additional processing plant and crusher, construction and operation of an additional TSF	Mining Tenement	A works approval and an amendment to the existing Operating Licence (L4247/1991/13) will be required to authorise construction and operation of the specified infrastructure  An updated Mining Proposal in accordance with the 2016 Guidelines for Mining Proposals in Western Australia will also be required.	<i>Environmental Protection Act 1986, part V</i>  <i>Mining Act 1978</i>

Supporting infrastructure New mine services workshop area New batching plant and explosive magazine Miscellaneous linear infrastructure (roads, pipelines, power supply)	Mining Tenement	An updated Mining Proposal in accordance with the 2016 Guidelines for Mining Proposals in Western Australia will also be required.  Building Permits and permits to install an apparatus for the treatment of sewage will also be required.	<i>Mining Act 1978</i> <i>Building Act 2011</i> <i>Health Act 1911</i>
Closure	Mining Tenement	The operation will require an updated Mine Closure Plan	<i>Mining Act 1978 (Guidelines for Preparing Mine Closure Plans 2015)</i>
<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 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: 11 May 2018_____ EPBC No.: 2018/8206_____		
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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:		

