



## Referral of a Proposal to the Environmental Protection Authority under Section 38 of the *Environmental Protection Act 1986*.

### PURPOSE OF THIS FORM

Section 38 of the *Environmental Protection Act 1986* (EP Act) makes provision for the referral to the Environmental Protection Authority (EPA) of a proposal (significant proposals, strategic proposals and proposals under an assessed scheme) by a proponent, a decision making authority (DMA), or any other person.

The purpose of this form is to ensure that EPA has sufficient information about a proposal to make a decision about the nature of the proposal and whether or not the proposal should be assessed under Part IV of the EP Act. Information provided in the referral form must be brief (no more than 30 pages), sharp and succinct to achieve the purposes of this form.

This form does not prevent the referrer from providing a supplementary referral report. Should a referrer choose to submit a supplementary referral report please ensure the following.

- i. Information is short, sharp and succinct.
- ii. Attachments are below eight megabytes (8 MB) as they will be published on the EPA's website (exemptions apply) for public comment. To minimise file size, "flatten" maps and optimise pdf files.
- iii. Cross-references are provided in the referral form to the appropriate section/s in the supplementary referral report.

This form is to be used for all proposals<sup>1</sup> which can be referred to the EPA under section 38 of the EP Act; i.e. referrals from: **proponents** of proposals (significant proposals, strategic proposals, derived proposals, proposals under an assessed scheme); **DMAs** (significant proposals); and **third parties** (significant proposals).

This form is divided into several sections, including; Referral requirements and Declaration; Part A - Information of the proposal and proponent; and Part B Environmental Factors. Guidance on successfully completing this form is provided throughout the form and is also available in the EPA's *Environmental Assessment Guideline for Referral of a Proposal under s38 of the EP Act (EAG 16)*.

#### Send completed forms to

Office of the Environmental Protection Authority  
Locked Bag 10, East Perth WA 6892

or

Email: [Registrar@epa.wa.gov.au](mailto:Registrar@epa.wa.gov.au)

#### Enquiries

Office of the Environmental Protection Authority  
Locked Bag 10, East Perth WA 6892

Telephone: 6145 0800

Fax: 6145 0895

Email: [info@epa.wa.gov.au](mailto:info@epa.wa.gov.au)

Website: [www.epa.wa.gov.au](http://www.epa.wa.gov.au)

<sup>1</sup> Please note that this form consolidates and replaces the following forms: *Referral of a Proposal by the Proponent to the EPA under section 38(1) of the EP Act*; *Referral of a Proposal by a third party to the EPA under section 38(1) of the EP Act*; and *Referral of a development proposal to the EPA by the decision making authority*.

# Referral requirements and Declaration

The following section outlines the referral information required from a proponent, decision making authority and third party.

## (a) Proponents

Proponents are expected to complete all sections of the form and provide GIS spatial data to enable the EPA to consider the referral. Spatial GIS data is necessary to inform the EPA’s decision.

The EPA expects that a proponent will address Part B of the form as thoroughly as possible to demonstrate whether or not the EPA’s objectives for environmental factors can be met.

If insufficient information is provided the EPA will request more information and processing of the referral will commence once the information is provided or the EPA decides to make a precautionary determination on the available information.

Proponent to complete before submitting form	
Completed all the questions in Part A (essential)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Completed all the questions in Part B	<input type="checkbox"/> Yes <input type="checkbox"/> No
Completed all other applicable questions	<input type="checkbox"/> Yes <input type="checkbox"/> No
Included Attachment 1 – any additional document(s) the proponent wishes to provide	<input type="checkbox"/> Yes <input type="checkbox"/> No
Included Attachment 2 – confidential information (if applicable)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping but clearly separating any confidential information	<input type="checkbox"/> Yes <input type="checkbox"/> No
Completed the Declaration	<input type="checkbox"/> Yes <input type="checkbox"/> No
What is the type of proposal being referred? <i>* a referred proposal seeking to be declared a derived proposal</i>	<input type="checkbox"/> significant <input type="checkbox"/> strategic <input type="checkbox"/> derived* <input type="checkbox"/> under an assessed scheme
Do you consider the proposal requires formal environmental impact assessment?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, what level of assessment? <i>API = Assessment of Proponent Information</i> <i>PER = Public Environmental Review</i>	<input type="checkbox"/> API Category A <input type="checkbox"/> API Category B <input type="checkbox"/> PER

**NB:** The EPA may apply an Assessment on Proponent Information (API) level of assessment when the proponent has provided sufficient information about:

- the proposal;
- the proposed environmental impacts;
- the proposed management of the environmental impacts; and
- when the proposal is consistent with API criteria outlined in the [Environmental Impact Assessment \(Part IV Division 1 and 2\) Administrative Procedures 2012](#).

If an API A formal level of assessment is considered appropriate, please refer to Environmental Assessment Guideline No. 14 *Preparation for an Assessment on Proponent Information (Category A) Environmental Review Document EAG 14 (EAG14)*.

**Declaration**

I, ....., (*full name*) declare that I am authorised on behalf of..... (being the person responsible for the proposal) to submit this form and further declare that the information contained in this form is true and not misleading.

Signature		Name (print)	
Position		Organisation	
Email			
Address	Street No.	Street Name	
	Suburb	State	Postcode
Date			

## (b) Decision-making authority

The EPA expects decision-making authorities to complete applicable sections of Part A of the form and provide the proponent an opportunity to provide additional information in Part B of the form where appropriate.

Wherever possible the DMA should obtain relevant spatial information from the proponent and provide this to the EPA with the referral.

<b>DMA to complete before submitting form</b>	
Completed all the questions in Part A (essential)	Yes
Provided Part B to the proponent for completion	No
Completed all other applicable questions	Yes
Included Attachment 1 – any supporting information	Yes
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping	Yes
Completed the below Declaration	Yes
Do you consider the proposal requires formal environmental impact assessment?	Yes
What is the type of proposal being referred?	significant proposal

## Declaration

I, Laura Copeland, submit this referral to the EPA for consideration of the environmental significance of its impacts.

Signature	Name Laura Copeland		
Position	Environmental Officer	Organisation	Department of Mines and Petroleum
Email	laura.copeland@dmp.wa.gov.au		
Address	100	Plain Street	
	East Perth	WA	6004
Date	14 April 2016		

### (c) Third Party

Third parties are asked to have consideration for the Significance Test outlined in Part A Section 1.5 of this form before referring a significant proposal to the EPA. The EPA will only consider proposals that are likely, if implemented, to have a significant effect on the environment.

Third parties are to provide sufficient information to clearly identify the significant proposal, the proponent, and their reasons for referring the proposal. This can be done by completing as much of Part A of the form as possible, taking into consideration the information available. Third parties may wish to fill in Part B of the form to advance their own views of the significance of the environmental impacts and the need for EPA assessment.

In most cases the EPA will seek additional information from the proponent. This will be to confirm or amend the identity of the proponent, the proposal, and to allow the proponent opportunity to provide its views on the significance of the environmental impacts and the need for EPA assessment.

Third Party to complete before submitting form	
Complete all applicable questions in Part A and B	<input type="checkbox"/> Yes <input type="checkbox"/> No
Completed the Declaration	<input type="checkbox"/> Yes <input type="checkbox"/> No
Do you consider the proposal requires formal environmental impact assessment?	<input type="checkbox"/> Yes <input type="checkbox"/> No

### Declaration

I, ....., (*full name*) submit this referral to the EPA for consideration of the environmental significance of its impacts.

Signature		Name (print)		
Email				
Position		Organisation		
Address	Street No.	Street Name		
	Suburb	State	Postcode	
Date				

## PART A: Information on the proposal and the proponent

All fields of Part A must be completed by the proponent and/or decision-making authority for this document to be processed as a referral. Third party referrers are only expected to fill in the fields they have information for.

### 1 PROPONENT AND PROPOSAL DESCRIPTION

#### 1.1 The proponent of the proposal

Proponent and/or DMA to complete	
Name of the proponent	Hanson (Formerly Rocla Quarry Products)
Joint Venture parties (if applicable)	N/A
Australian Company Number(s)	009679734
Postal Address <i>(Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State)</i>	130 Fauntleroy Avenue REDCLIFF WA 6104
Key proponent contact for the proposal  <i>Please include: name; physical address; phone; and email.</i>	Vern Newton Development Manager Ph: +61 8 9311 8847 M: +61 418 908 069 <a href="mailto:Vern.newton@hanson.com.au">Vern.newton@hanson.com.au</a>
Consultant for the proposal (if applicable)  <i>Please include: name; physical address; phone; and email.</i>	RPS 38 Station Street SUBIACO WA 6008 Ph: 618 9211 1111 <a href="mailto:environment@rpsgroup.com.au">environment@rpsgroup.com.au</a>

#### 1.2 Proposal

Proposal is defined under the EP Act to mean a “project, plan, programme policy, operation, undertaking or development or change of land use, or amendment of any of the foregoing, but does not include scheme”. Before completing this section please refer to [Environmental Protection Bulletin 17 – Strategic and derived proposals \(EPB 17\)](#) and [Environmental Assessment Guideline for Defining the Key Characteristics of a proposal \(EAG 1\)](#).

Proponent and/or DMA to complete	
Title of the proposal	“Warton Road Mining Proposal”
What project phase is the proposal at?	Detailed design
Proposal type  <i>More than one proposal type can be identified, however for filtering purposes it is recommended that only the primary proposal type is identified.</i>	Development (Sand extraction)
Proponent and/or DMA to complete	
Description of the proposal – describe the key characteristics of the proposal in accordance with	<ul style="list-style-type: none"> <li>Sand extraction totalling 9.56 ha (of which 5.63 has been historically</li> </ul>

Proponent and/or DMA to complete	
<p><a href="#">EAG 1.</a></p>	<p>cleared) across M70/1142 and M70/1088</p> <ul style="list-style-type: none"> <li>• 3.93 ha of native vegetation to be cleared</li> <li>• Approximately 300,000 tonnes of sand to be extracted</li> <li>• No dewatering requirements</li> <li>• 28.29 ha of remnant vegetation to remain outside of extraction area</li> <li>• Processing will be dry screening of sand only</li> <li>• No fuel stored on site</li> <li>• Access roads total approximately 1.11 ha (will require 0.10 ha clearing)</li> <li>• Truck movements approximately 3-5 per hour. Designated hours of operation to be 7:00 am to 5:00 pm Monday to Saturday. Some operation may occur on Sunday if required by project demand.</li> <li>• External access to site will be via existing route along Armadale rd.</li> <li>• Proposed sand extraction area of 9.56 ha will be rehabilitated. It is also proposed to rehabilitate 1.75 ha of historically disturbed area totalling 11.31 ha to be rehabilitated.</li> </ul>
<p>Timeframe in which the proposal is to occur (including start and finish dates where applicable).</p>	<p>Approximately 3 years</p>
<p>Details of any staging of the proposal.</p>	<p>Sand will be mined from the extraction area over a single stage. Rehabilitation will commence after completion of excavation. It is proposed to commence rehabilitation of 1.75 ha area outside of the proposed sand extraction area in advance of the proposed vegetation clearing and sand extraction. This will assist in restoring native vegetation and control dust.</p>
<p>What is the current land use on the property, and the extent (area in hectares) of the property?</p>	<p>Sections of M70/1142 and M70/1088 have been previously mined by other operators in the 1980's. This has resulted in a legacy of two cleared sites totalling 8 ha.</p> <p>Underlying land tenure is Crown Reserve 33500 Recreation and Bush Forever Site 390</p> <p>M70/1142 is approximately 28.3 ha M70/1088 is approximately 10.1 ha</p>

<b>Proponent and/or DMA to complete</b>	
<p>Have pre-referral discussions taken place with the OEPA?</p> <p>If yes, please provide the case number. If a case number was not provided, please state the date of the meeting and names of attendees.</p>	<p>Yes</p> <p>Meeting held between Vern Newton of Hanson and Anthony Sutton and Robert Hughes from OEPA in February 2016 to discuss pre-referral documents.</p>
<b>DMA (Responsible Authority) to complete</b>	
<p>For a proposal under an assessed scheme (as defined in <a href="#">section 3 of the EP Act</a>, applicable only to the proponent and DMA) provide details (in an attachment) as to whether:</p> <ul style="list-style-type: none"> <li>• <i>The environmental issues raised by the proposal were assessed in any assessment of the assessed scheme.</i></li> <li>• <i>The proposal complies with the assessed scheme and any environmental conditions in the assessed scheme.</i></li> </ul>	<p>Mining Tenements are located within the Perth and Peel Green Growth Plan area.</p>

### 1.3 Strategic / derived proposals

Complete this section if the proposal being referred is a strategic proposal or you are seeking the proposal to be declared a derived proposal. Note: Only a proponent may refer a strategic proposal and seek a proposal to be declared a derived proposal.

<b>Proponent to complete</b>	
Is this referred proposal a strategic proposal?	No
Are you seeking that this proposal be declared a derived proposal?	No
If you are seeking that this proposal be declared a derived proposal, what is the Ministerial Statement number (MS #) of the associated strategic proposal?	N/A

## 1.4 Location

Proponents and DMAs must provide spatial data. Please refer to [EAG 1](#) for more detail.

Proponent, DMA and Third Party to complete	
Name of the Local Government Authority in which the proposal is located.	City of Cockburn
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.	Lot 467 Jandakot Road, Banjup
Have maps and figures been included with the referral (consistent with <a href="#">EAG 1</a> where appropriate)? <i>The types of maps and figures which need to be provided (depending on the nature of the proposal) include:</i> <ul style="list-style-type: none"> <li>maps showing the regional location and context of the proposal; and</li> <li>figures illustrating the proposal elements.</li> </ul>	Yes
Proponent and DMA to complete	
Have electronic copies of spatial data been included with the referral? <b>NB:</b> <i>Electronic spatial (GIS or CAD) data, geo-referenced and conforming to the following parameters:</i> <ul style="list-style-type: none"> <li>GIS: polygons representing all activities and named;</li> <li>CAD: simple closed polygons representing all activities and named;</li> <li>datum: GDA94;</li> <li>projection: Geographic (latitude/longitude) or Map Grid of Australia (MGA);</li> <li>format: ESRI geodatabase or shapefile, MapInfo Interchange Format, Microstation or AutoCAD..</li> </ul>	No

## 1.5 Significance test and environmental factors

Proponent, DMA and Third Party to complete	
What are the likely significant environmental factors for this proposal?	Flora and Vegetation Rehabilitation and Decommissioning
Having regard to the Significance Test (refer to Section 7 of the <i>EIA Administrative Procedures 2012</i> ) in what ways do you consider the proposal may have a significant effect on the environment and warrant referral to the EPA?	Bush forever sites are areas of urban bushland set aside for conservation of biological diversity on the swan coastal plains. Sites are representative of the 26 vegetation types found across Perth.  Operation of a sand extraction operation in this area may cause vegetation degradation via increased weeds, land clearing and poor rehabilitation practices leading to loss of biological diversity in the area.

## 1.6 Confidential information

All information will be made publically available unless authorised for exemption under the EP Act or subject to the Freedom of Information Act 1992.

Proponent to complete	
Does the proponent request that the EPA treat any part of the referral information as confidential?  <i>Ensure all confidential information is provided in a separate attachment in hard copy.</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No

## 2 REGULATORY CONSIDERATIONS

This section applies to the Local, State and Commonwealth regulatory considerations for the referred proposal.

### 2.1 Government approvals

#### 2.1.1 State or Local Government approvals

DMA to complete	
What approval(s) is (are) required from you as a decision-making authority?	Mining Proposal, Mine Closure Plan and Clearing Permit (if not formally assessed by EPA).
Is rezoning of any land required before the proposal can be implemented? If yes, please provide details.	No

## 2.1.2 Regulation of aspects of the proposal

Complete the following to the extent possible.

Proponent to complete	
Do you have 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>	Yes  Sand extraction to occur on granted Mining Leases M70/1142 and M70/1088

Outline both the existing approvals and approvals that will be / are being sought as a part of this proposal.

Proponent to complete			
Aspects* of the proposal	Type of approval	Legislation regulating this activity	Which State agency /entity regulate this activity?
Native vegetation clearing	Clearing Permit	EP Act 1986 – Part V	DMP
Sand extraction	Mining Proposal	Mining Act 1978	DMP
Flora, Fauna and Ecosystem	Mining Proposal	Mining Act 1978	DMP
Rehabilitation and Closure	Mining Proposal and Mine Closure Plan	Mining Act 1978	DMP

\*e.g. mining, processing, dredging

## 2.1.3 Commonwealth Government *Environment Protection and Biodiversity Conservation Act 1999* approvals

Refer to the [assessment bilateral agreement](#) between the Commonwealth of Australia and the State of Western Australia for assistance on this section.

Proponent to complete	
1. 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)?	No  <i>If no continue to Part A section 2.1.4.</i>
2. What is the status of the decision on whether or not the action is a controlled action?	<input type="checkbox"/> Proposal not yet referred <input type="checkbox"/> Proposal referred, awaiting decision <input type="checkbox"/> Assessed – controlled action <input type="checkbox"/> Assessed – not a controlled action
3. If the action has been referred, when was it referred and what is the reference number (Ref #)?	Date: _____  Ref #: _____

<b>Proponent to complete</b>	
4. If the action has been assessed, provide the decision in an attachment. Has an attachment been provided?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. Do you request this proposal to be assessed under the bilateral agreement?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Complete the following to the extent possible for the Public Comment of EPBC Act referral documentation.

<b>Proponent to complete</b>	
6. Have you invited the public to comment on your referral documentation?	<input type="checkbox"/> Yes <input type="checkbox"/> No
7. How was the invitation published?	<input type="checkbox"/> newspaper <input type="checkbox"/> website
8. Did the invitation include all of the following?	
(a) brief description of the action	<input type="checkbox"/> Yes <input type="checkbox"/> No
(b) the name of the action	<input type="checkbox"/> Yes <input type="checkbox"/> No
(c) the name of the proponent	<input type="checkbox"/> Yes <input type="checkbox"/> No
(d) the location of the action	<input type="checkbox"/> Yes <input type="checkbox"/> No
(e) the matters of national environmental significance that will be or are likely to be significantly impacted	<input type="checkbox"/> Yes <input type="checkbox"/> No
(f) how the relevant documents may be obtained	<input type="checkbox"/> Yes <input type="checkbox"/> No
(g) the deadline for public comments	<input type="checkbox"/> Yes <input type="checkbox"/> No
(h) available for public comment for 14 calendar days	<input type="checkbox"/> Yes <input type="checkbox"/> No
(i) the likely impacts on matters of national environmental significance	<input type="checkbox"/> Yes <input type="checkbox"/> No
(j) any feasible alternatives to the proposed action	<input type="checkbox"/> Yes <input type="checkbox"/> No
(k) possible mitigation measures	<input type="checkbox"/> Yes <input type="checkbox"/> No
9. Were any submissions received during the public comment period?	<input type="checkbox"/> Yes <input type="checkbox"/> No
10. Have public submissions been addressed? If yes provide attachment.	<input type="checkbox"/> Yes <input type="checkbox"/> No

## 2.1.4 Other Commonwealth Government Approvals

Proponent, DMA and Third Party to complete			
Is approval required from other Commonwealth Government/s for any part of the proposal?		No <i>If yes, please complete the table below.</i>	
Agency / Authority	Approval required	Application lodged?	Agency / Local Authority contact(s) for proposal
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	

## 3. SUPPORTING INFORMATION

*Please attach copies of any relevant information on the proposal, supporting evidence and / or existing environmental surveys, studies or monitoring information undertaken and list the documents below.*

Proponent, DMA and Third Party to complete			
(1)	Warton Rd Mining Proposal	RPS	Mining Proposal submitted to DMP to gain approval for extraction of sand on M70/1088 and M70/1142
(2)	Mine Closure Plan M70/1088 & M70/1142 Warton Rd	Steve Milner Austwide Mining Title Management Pty Ltd	Mine Closure Plan submitted to DMP to support Mining Proposal

## PART B: ENVIRONMENTAL FACTORS

The purpose of Part B is to assist the EPA to determine the significance of the likely environmental impacts of the proposal in accordance with the EPA’s *Environmental Assessment Guideline for Environmental factors and objectives* (EAG 8) and *Environmental Assessment Guideline for Application of a significant framework in the EIA process* (EAG 9). Referrers completing Part B should refer closely to EAG 8 and EAG 9.

The EPA has prepared [Referral of a Proposal under s38 of the EP Act EAG No.16 - Appendix A](#) (Appendix A) to assist in identifying factors and completing the below table. Further guidance can be found in the guidance and policy documents cited in Appendix A under each factor.

### **How to complete Part B**

For each environmental factor, that is likely to be significantly impacted by the implementation of the proposal, make a copy of the table below and insert a summary of the relevant information relating to the proposal. The table can be broken down into more than one table per factor, if the need arises. For example the hydrological processes factor can be presented in two separate tables, one for surface water and one for groundwater, or similarly one for construction and one for operations.

For complex proposals a supplementary referral report can be provided in addition to the referral form. If this option is chosen the table must still be completed (summaries are acceptable) to assist the Office of the EPA with statistical reporting and filtering proposals for processing.

Proponents expecting an API level of assessment must provide information in accordance with the EPA’s *Environmental Assessment Guideline for Preparation of an API-A environmental review document* (EAG 14).

For each of the significant environmental factors, complete the following table (Questions 1 – 10).

<b>Proponent to complete. DMA and Third Party to complete to the best of their knowledge.</b>		
1	Factor, as defined in <a href="#">EAG 8</a>	Flora and Vegetation
2	EPA Objective, as defined in <a href="#">EAG 8</a>	To maintain representation, diversity, viability and ecological function at the species, population and community level.

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
3	<p>Guidance - what established policies, guidelines, and standards apply to this factor in relation to the proposal?</p>	<p>Guidance Statement for Rehabilitation of Terrestrial Ecosystems Final Guidance Statement No. 6 (EPA 2006).</p> <p>Level of Assessment for Proposals Affecting Natural Areas within the System 6 Region and Swan Coastal Plain Portion of the System. Regional Final Guidance Statement No. 10 (EPA 2006).</p> <p>Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia Final Guidance Statement No. 49 (EPA 2006).</p> <p>Best Practice guidelines for management of <i>Phytophthora</i> published by Dieback Working Group.</p>
4	<p>Consultation - outline the need for consultation and the outcomes of any consultation in relation to the potential environmental impacts, including:</p> <ul style="list-style-type: none"> <li>• <i>anticipated level of public interest in the impact;</i></li> <li>• <i>consultation with regulatory agencies; and</i></li> <li>• <i>consultation with community.</i></li> </ul>	<p>There is potentially a high level of public interest from surrounding residents who are adjacent to sand extraction area.</p> <p>Consultation required with Department of Planning, Department of Park and Wildlife, Department of Water and surrounding residents</p>

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
5	<p>Baseline information - describe the relevant characteristics of the receiving environment.</p> <p><i>This may include: regional context; known environmental values, current quality, sensitivity to impact, and current level of cumulative impacts.</i></p>	<p>Sand extraction area mapped as “Moderate to low” risk classification of potential acid sulphate soil.</p> <p>There are two mapped wetlands within the project area categorised as Resource Enhancement management category and a Conservation category wetland.</p> <p>Majority of project area is within the southern river vegetation complex and Bassendean –Central and South complexes</p> <p>No threatened or priority flora species were identified as occurring within the sand extraction or surrounding area.</p> <p>Two plant species <i>Hensmania turbinata</i> and <i>Pultenaea ochreatea</i> identified during surveys are considered to have regional significance.</p> <p>No threatened or priority ecological communities were identified as occurring within the survey area.</p> <p>Spring flora and fauna surveys identified condition of remnant vegetation across the site varies depending on disturbance and weeds.</p>
6	<p>Impact assessment - describe the potential impact/s that may occur to the environmental factor as a result of implementing the proposal.</p>	<p>Loss of biodiversity  Sedimentation and increased turbidity of local wetlands  Soil Erosion  Reduced habitat for native fauna  Encourage the spread of weeds  Spread of dieback  Impacts on lifestyle opportunities</p>

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
7	<p>Mitigation measures - what measures are proposed to mitigate the potential environmental impacts? The following should be addressed:</p> <ul style="list-style-type: none"> <li>• <i>Avoidance - avoiding the adverse environmental impact altogether;</i></li> <li>• <i>Minimisation - limiting the degree or magnitude of the adverse impact;</i></li> <li>• <i>Rehabilitate – restoring the maximum environmental value that is reasonably practicable; and</i></li> <li>• <i>Offsets – actions that provide environmental benefits to counterbalance significant residual environmental impacts or risks of a project or activity.</i></li> </ul>	<p>28.29 ha of native vegetation to remain outside of sand extraction area.</p> <p>Provision of a buffer from the sand extraction area to the wetlands which maximise the value of sand resource but also maintains the environmental value of the wetlands</p> <p>Rehabilitation in collaboration with the botanic Gardens and Parks Authority (BGPA) to utilise over 18 years of research into <i>Banksia</i> woodlands restoration</p> <p>Proposal to restore an additional 1.75 ha of historically cleared area outside of the proposed sand extraction area. The total native vegetation rehabilitation area is 11.31 ha. This represents an approximate 200% net increase in black cockatoo foraging habitat.</p> <p>Stockpiling or direct transfer of topsoil for use in regeneration of <i>Banksia</i> woodlands</p> <p>Provision of the site to be used in future <i>Banksia</i> woodlands rehabilitation research trials by BGPA</p> <p>Dieback prevention measures in accordance with Dieback Working Group best practice guidelines</p> <p>Weed control measures during and after sand mining.</p>

<b>Proponent to complete. DMA and Third Party to complete to the best of their knowledge.</b>		
8	<p>Residual impacts – review the residual impacts against the EPA objectives.</p> <p><i>It is understood that the extent of any significant residual impacts may be hard to quantify at the referral stage. Referrers are asked to provide, as far as practicable, a discussion on the likely residual impacts and form a conclusion on whether the EPA’s objective for this factor would be met if residual impacts remain. This will require:</i></p> <ul style="list-style-type: none"> <li>• <i>quantifying the predicted impacts (extent, duration, etc.) acknowledging any uncertainty in predictions;</i></li> <li>• <i>putting the impacts into a regional or local context, incorporating knowable cumulative impacts; and</i></li> <li>• <i>comparison against any established environmental policies, guidelines, and standards.</i></li> </ul>	Potential loss of 3.93 ha of vegetation remnant vegetation within a Bush Forever site.
9	EPA’s Objective – from your perspective and based on your review, which option applies to the proposal in relation to this factor? Refer to <a href="#">EAG 9</a>	<i>may meet the EPA’s objective</i>
10	Describe any assumptions critical to your conclusion (in Question 9). e.g. <i>particular mitigation measures or regulatory conditions.</i>	All mitigation measures will be implemented during the project

*In circumstances where there was some uncertainty on the level of significance of a particular factor it is recommended that a brief summary (no longer than 1 - 2 paragraphs) is provided on the steps taken to determine why a factor was not considered to be significant.*

<b>Proponent to complete. DMA and Third Party to complete to the best of their knowledge.</b>		
1	Factor, as defined in <a href="#">EAG 8</a>	Rehabilitation and Closure
2	EPA Objective, as defined in <a href="#">EAG 8</a>	To ensure the premises are closed, decommissioned and rehabilitated in an ecologically sustainable manner, consistent with agreed outcomes and land uses, and without unacceptable liability to the State.
3	Guidance - what established policies, guidelines, and standards apply to this factor in relation to the proposal?	DMP and EPA Guidelines for the Preparing Mine Closure Plans
4	<p>Consultation - outline the need for consultation and the outcomes of any consultation in relation to the potential environmental impacts, including:</p> <ul style="list-style-type: none"> <li>• <i>anticipated level of public interest in the impact;</i></li> <li>• <i>consultation with regulatory agencies; and</i></li> <li>• <i>consultation with community.</i></li> </ul>	<p>There is potentially a high level of public interest from surrounding residents who are adjacent to sand extraction area.</p> <p>Consultation required with Department of Planning, Department of Park and Wildlife, Department of Water and surrounding residents</p>

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
5	<p>Baseline information - describe the relevant characteristics of the receiving environment.</p> <p><i>This may include: regional context; known environmental values, current quality, sensitivity to impact, and current level of cumulative impacts.</i></p>	<p>Post mining land use is intended to return the land to Banksia Woodland.</p>
6	<p>Impact assessment - describe the potential impact/s that may occur to the environmental factor as a result of implementing the proposal.</p>	<p>Loss of biodiversity</p> <p>Lack of visual harmony between mining areas and surrounding rural and regional open space landscape.</p> <p>Increased Erosion</p> <p>Area becomes public safety risk</p>
7	<p>Mitigation measures - what measures are proposed to mitigate the potential environmental impacts? The following should be addressed:</p> <ul style="list-style-type: none"> <li>• <i>Avoidance - avoiding the adverse environmental impact altogether;</i></li> <li>• <i>Minimisation - limiting the degree or magnitude of the adverse impact;</i></li> <li>• <i>Rehabilitate – restoring the maximum environmental value that is reasonably practicable; and</i></li> <li>• <i>Offsets – actions that provide environmental benefits to counterbalance significant residual environmental impacts or risks of a project or activity.</i></li> </ul>	<p>Rehabilitation will be implemented as follows:</p> <p>Rehabilitation will commence with the establishment of topographic contours. The final contours are anticipated to be visually compatible with other parts of the local landscape.</p> <p>A commitment will be made to ensure slopes are similar to those in the local area and the excavation left in a safe manner conforming to the Mines Safety and Inspection Act 1994.</p> <p>Rehabilitation program for restoring Banksia woodland developed with BGPA and a summary of this program is provided in the associated Mine Closure Plan.</p>

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
8	<p>Residual impacts – review the residual impacts against the EPA objectives.</p> <p><i>It is understood that the extent of any significant residual impacts may be hard to quantify at the referral stage. Referrers are asked to provide, as far as practicable, a discussion on the likely residual impacts and form a conclusion on whether the EPA’s objective for this factor would be met if residual impacts remain. This will require:</i></p> <ul style="list-style-type: none"> <li>• <i>quantifying the predicted impacts (extent, duration, etc.) acknowledging any uncertainty in predictions;</i></li> <li>• <i>putting the impacts into a regional or local context, incorporating knowable cumulative impacts; and</i></li> <li>• <i>comparison against any established environmental policies, guidelines, and standards.</i></li> </ul>	Potentially modified ecosystem
9	<p>EPA’s Objective – from your perspective and based on your review, which option applies to the proposal in relation to this factor? Refer to <a href="#">EAG 9</a></p>	<i>may meet the EPA’s objective</i>
10	<p>Describe any assumptions critical to your conclusion (in Question 9). e.g. <i>particular mitigation measures or regulatory conditions.</i></p>	<i>Rehabilitation and closure implemented as outlined in the Mine Closure Plan and proponent is able to demonstrate agreed completion criteria have been met</i>