

Title of Proposal - Lots 4 & 5 Ludlow Road, Myalup - Proposed Limestone Extraction

Section 1 - Summary of your proposed action

Provide a summary of your proposed action, including any consultations undertaken.

1.1 Project Industry Type

Mining

1.2 Provide a detailed description of the proposed action, including all proposed activities.

B& J Catalano Pty Ltd. have been undertaking limestone extraction on the property (Lots 4 and 5 on Deposited Plan 15419 Ludlow Road, Myalup, Shire of Harvey, Western Australia) since 2009. The south-eastern section of Lot 5 is also currently used for cattle grazing.

Existing Operations:

Limestone extraction operations are currently being undertaken within the southern section of Lot 4 and northern section of Lot 5. These existing operations cover an area of 21 ha with an annual extraction volume of 55,000m³.

The sequence of operational activities is as follows:

- Vegetation is removed and the area stripped of topsoil. Topsoil is placed in stockpiles.
- Within the active cell, a bulldozer rips and blades limestone material to a stockpile. A mobile crushing and screening plant is used for approximately six weeks per annum on site to process the stockpiled material.
- Trucks enter the pit via Ludlow Road to be loaded from the processed stockpile by a front-end loader.
- Excavation of limestone material proceed until a bottom pit level of 6 mAHD is reached with pit batters maintained at a 1:6 throughout the operation where possible.
- The pit area is then revegetated to pasture grasses and native vegetation species as per the Rehabilitation Plan.

On average 14 truck movements per working day are associated with the operation, but actual truck movements will be dependent on demand. Operating times are Monday to Saturday 6am to 6pm.

Proposed Action:

It is proposed to expand the limestone extraction operations in a westerly direction. The new pit area will be developed over a 25ha area. The expansion will result in the removal of 12.3ha of Eucalyptus woodland with a predominantly pasture grass understorey. Operational activities in the new pit area will be the same as those described above for existing operations. An annual extraction volume of 95,000 tonnes is planned over a 5 year period. The day to day operations will be conducted using the following on site equipment: bulldozer (1), front-end loader (up to 2) which will load trucks (off-site equipment anticipated to generate an average of 14 truck movements per working day). The final land surface will be at 6 mAHD with pit batters of 1:6, which is not dissimilar to slopes occurring naturally within the surrounding landscape. The area will be rehabilitated upon cessation of extraction activity and will be required to meet defined completion criteria as detailed in the Rehabilitation Plan.

The recommended buffer of at least 200m from Lake Preston will be maintained throughout the operational life of the extraction activities. Proposed activities will not directly impact this conservation area.

No major servicing, which could lead to fuel and oil spills, will take place on the site. Servicing of any vehicle will take place at least 200m from the shore of Lake Preston in the currently approved NCA(PM) (EPBC 2008/3956) . Prior to servicing, a suitably sized spill mat or drip tray will be placed under the vehicle to capture any leaks or spills. Servicing of vehicles will consist of the direct vacuuming of and waste fluids from the engine of the vehicle being serviced to a waste oil tank on the service truck. A drum will be placed under the oil filter of the vehicle being serviced prior to its removal. Any material captured in the drip tray or drum during the course of servicing will be disposed of into the waste facility of the service truck, removed off site and disposed of at an appropriately license waste facility. Spill kits will be kept on all service truck(s) at all times, when servicing vehicles on site. Any spills will be contained on site, mitigated and recorded. The Western Australian Water Quality Protection Guidelines No's 6,7,10 and 11 will be adhered to, to prevent hydrocarbons or other contaminants from being spilled into the Peel-Yalgorup System Ramsar Wetland.

There will be no chemicals or other hazardous materials stored on-site.

1.3 What is the extent and location of your proposed action? Use the polygon tool on the map below to mark the location of your proposed action.

Area	Point	Latitude	Longitude
Proposed Project Area 1		-32.963744543087	115.69776587828
Proposed Project Area 2		-32.963654526493	115.69772296294
Proposed Project Area 3		-32.963708536461	115.69774442061
Proposed Project Area 4		-32.964338650304	115.696671537
Proposed Project Area 5		-32.96394257927	115.69611363753
Proposed Project Area 6		-32.96586890807	115.69546990736
Proposed Project Area 7		-32.967489152108	115.69562011107
Proposed Project Area 8		-32.968155243815	115.69540553435
Proposed Project Area 9		-32.968101236567	115.69624238356
Proposed Project Area 10		-32.969235381853	115.6982164894
Proposed Project Area 11		-32.96966743337	115.69793753966
Proposed Project Area 12		-32.969487412161	115.69868855818
Proposed Project Area 13		-32.972619728841	115.69918208464
Proposed Project Area 14		-32.973285781859	115.69544844969
Proposed Project Area 15		-32.973069765215	115.69332414015
Proposed Project Area 16		-32.969865456276	115.69289498671
Proposed Project Area 17		-32.966264970468	115.69238000258
Proposed Project Area 18		-32.964104608544	115.69225125655
Proposed Project Area 19		-32.963492496394	115.69304519041
Proposed Project Area 20		-32.962124230372	115.69454722746
Proposed Project Area 21		-32.961926190113	115.6961350952
Proposed Project Area 22		-32.963744543087	115.69776587828

1.5 Provide a brief physical description of the property on which the proposed action will take place and the location of the proposed action (e.g. proximity to major towns, or for off-shore actions, shortest distance to mainland).

Property Description: Lots 4 and 5 on Deposited Plan 15419, Ludlow Road, Myalup, Shire of Harvey

Volume: 1884

Folio: 210

Area: Lot 4 – 81.115ha

Lot 5 - 62.030ha

Ownership: Geoffrey Thomas Pearson T/A Pearson Nominees Pty Ltd

The property is situated west of Forrest Highway, approximately 50km north of Bunbury. Lots 4 and 5 are bounded by Lake Preston to the west, Lot 2 to the north, Lot 17 to the east and Lot 18 to the south.

Adjacent land to the property is used primarily for livestock pastures interspersed with remnant vegetation. To the west of the property is Lake Preston, a RAMSAR designated wetland.

The closest residence to the outer boundaries of the extraction area is located 240m to the west of the proposed extraction area (Struc 1 on Figure 2). This residence is used as a holiday accommodation by the landowner. The landowner has no objections to the proposed operations, hence this residence is not considered a sensitive premises. No other residences or structures are located within 1000m of the Proposed Action.

1.6 What is the size of the proposed action area development footprint (or work area) including disturbance footprint and avoidance footprint (if relevant)?

25ha

1.7 Is the proposed action a street address or lot?

Lot

1.7.2 Describe the lot number and title. Lots 4 and 5 on Deposited Plan 15419; Vol 1884, Folio 210

1.8 Primary Jurisdiction.

Western Australia

1.9 Has the person proposing to take the action received any Australian Government grant funding to undertake this project?

No

1.10 Is the proposed action subject to local government planning approval?

Yes

1.10.1 Is there a local government area and council contact for the proposal?

Yes

1.10.1.0 Council contact officer details

1.10.1.1 Name of relevant council contact officer.

Neville Dowling

1.10.1.2 E-mail

neville@harvey.wa.gov.au

1.10.1.3 Telephone Number

(08) 9729 0312

1.11 Provide an estimated start and estimated end date for the proposed action.

Start date 06/2019

End date 12/2024

1.12 Provide details of the context, planning framework and State and/or Local government requirements.

The project has been applied for as an Extractive Industry Licence (EIL) and is thus subject to local government laws and is currently being assessed by the Shire of Harvey. A clearing permit (CPS 8057_1) has been applied for and all technical studies undertaken. A letter of Agreement in Principle, noting that a clearing permit would be granted once the EIL has been issued is to be provided by the Department of Water and Environmental Regulation as stated in an email to M Lundstrom on 27th November 2018.

1.13 Describe any public consultation that has been, is being or will be undertaken, including with Indigenous stakeholders.

The project has been publicly advertised via the EIL and Part V Clearing Permit Processes.

1.14 Describe any environmental impact assessments that have been or will be carried out under Commonwealth, State or Territory legislation including relevant impacts of the project.

Impact assessment is done in the context of the attached management plan which is prepared to support the extractive industries licence application submitted to the Shire of Harvey, Western Australia. This management plan is referred to a number of State government agencies for comment.

A search of Matters of National Environmental Significance in close proximity to the proposed project area was undertaken. This search identified that the Listed TEC Banksia Woodlands of the Swan Coastal Plain may occur within the area, as well as potential habitat for the three Black cockatoo species. It is also identified as possible habitat for the Western Ringtail Possum.

A fauna habitat assessment was undertaken within the proposed extraction area to determine the presence of suitable habitat for the listed species. A flora and vegetation survey was also undertaken within the proposed area to determine whether the area falls within the listed TEC.

These reports are attached.

1.15 Is this action part of a staged development (or a component of a larger project)?

No

1.16 Is the proposed action related to other actions or proposals in the region?

Yes

1.16.1 Identify the nature/scope and location of the related action (Including under the relevant legislation).

The proposed extraction area is located adjacent to the the currently approved and operating Limestone Excavation - Ludlow Road, Myalup (EPBC 2008/3956) which was determined to be 'not a controlled action' provided it was undertaken in a particular manner (NCA PM). It is not part of a staged development and there are currently no plans for future stages associated with this operation.

Section 2 - Matters of National Environmental Significance

Describe the affected area and the likely impacts of the proposal, emphasising the relevant matters protected by the EPBC Act. Refer to relevant maps as appropriate. The [interactive map tool](#) can help determine whether matters of national environmental significance or other matters protected by the EPBC Act are likely to occur in your area of interest. Consideration of likely impacts should include both direct and indirect impacts.

Your assessment of likely impacts should consider whether a bioregional plan is relevant to your proposal. The following resources can assist you in your assessment of likely impacts:

- [Profiles of relevant species/communities](#) (where available), that will assist in the identification of whether there is likely to be a significant impact on them if the proposal proceeds;
- [Significant Impact Guidelines 1.1 – Matters of National Environmental Significance](#);
- [Significant Impact Guideline 1.2 – Actions on, or impacting upon, Commonwealth land and Actions by Commonwealth Agencies](#).

2.1 Is the proposed action likely to have ANY direct or indirect impact on the values of any World Heritage properties?

No

2.2 Is the proposed action likely to have ANY direct or indirect impact on the values of any National Heritage places?

No

2.3 Is the proposed action likely to have ANY direct or indirect impact on the ecological character of a Ramsar wetland?

No

2.4 Is the proposed action likely to have ANY direct or indirect impact on the members of any listed species or any threatened ecological community, or their habitat?

Yes

2.4.1 Impact table

Species	Impact
BIRDS: Calyptorhynchus banksii naso (Forest Redtailed Black cockatoo); Calyptorhynchus baudinii (Baudin's cockatoo); Calyptorhynchus	BIRDS: Loss/modification of an area of habitat - possibly occurs for Calyptorhynchus banksii naso, Calyptorhynchus baudinii and

Species	Impact
latirostris; Australasian Bittern - Botaurus poiciloptilus; Malleefowl - Leipoa ocellata. MAMMALS: Chuditch - Dasyurus geoffroii; Western Ringtail Possum - Pseudocheirus occidentalis; Quokka - Setonix brachyurus. TEC: Banksia Woodlands of the Swan Coastal Plain ecological community. PLANTS: King Spider-orchid - Caladenia huegelii; Gingin Wax - Chamelaucium sp. Gingin (N.G.Marchant 6); Dwarf Bee-orchid - Diuris micrantha; Purdie's Donkey-orchid - Diuris purdiei; Dwarf Hammer-orchid - Drakaea micrantha.	Calyptorhynchus latirostris. No impact - would not occur for Botaurus poiciloptilus and Leipoa ocellata. MAMMALS: No impact anticipated - Unlikely to Occur – Locally extinct for Dasyurus geoffroii, No impact anticipated - Unlikely to Occur for Pseudocheirus occidentalis and No impact - would not occur for Setonix brachyurus. TEC: No impact - vegetation in the Project Area unlikely to be part of this TEC. PLANTS: No impact - would not occur for all species.

2.4.2 Do you consider this impact to be significant?

No

2.5 Is the proposed action likely to have ANY direct or indirect impact on the members of any listed migratory species, or their habitat?

Yes

2.5.1 Impact table

Species	Impact
Glossy Ibis - Plegadis falcinellus; Painted Snipe - Rostratula benghalensis; Migratory Shorebirds/Wetland Species/Marine Species (various reptiles, birds and mammals); Eastern Osprey - Pandion haliaetus; Australasian Bittern - Botaurus poiciloptilus; Fork-tailed Swift - Apus pacificus; Grey Wagtail - Motacilla cinerea; Common Sandpiper - Actitis hypoleucos; Sharp-tailed Sandpiper - Calidris acuminata; Red Knot - Calidris canutus; Curlew Sandpiper - Calidris ferruginea; Pectoral Sandpiper - Calidris melanotos; Bar-tailed Godwit - Limosa lapponica; Eastern Curlew - Numenius madagascariensis; Common Greenshank - Tringa nebularia.	No impact - would not occur in the area for all species except below; No impact - unlikely to occur. Flyover only on very rare occasions - Eastern Osprey - Pandion haliaetus

2.5.2 Do you consider this impact to be significant?

No

2.6 Is the proposed action to be undertaken in a marine environment (outside Commonwealth marine areas)?

No

2.7 Is the proposed action to be taken on or near Commonwealth land?

No

2.8 Is the proposed action taking place in the Great Barrier Reef Marine Park?

No

2.9 Is the proposed action likely to have ANY direct or indirect impact on a water resource related to coal/gas/mining?

No

2.10 Is the proposed action a nuclear action?

No

2.11 Is the proposed action to be taken by the Commonwealth agency?

No

2.12 Is the proposed action to be undertaken in a Commonwealth Heritage Place Overseas?

No

2.13 Is the proposed action likely to have ANY direct or indirect impact on any part of the environment in the Commonwealth marine area?

No

Section 3 - Description of the project area

Provide a description of the project area and the affected area, including information about the following features (where relevant to the project area and/or affected area, and to the extent not otherwise addressed in Section 2).

3.1 Describe the flora and fauna relevant to the project area.

The proposed Project Area is situated in the Southwest Botanical Province of Western Australia (Beard 1990), and within the Swan Coastal Plain bioregion (Perth subregion) as described by the Interim Biogeographic Region of Western Australia (DoEE 2018). At a regional level the Project Area occurs within the Cottesloe-Central and South vegetation complex which is described as a mosaic of woodland of *Eucalyptus gomphocephala* (Tuart) and open forest of *Eucalyptus gomphocephala* - *Eucalyptus marginata* (Jarrah) - *Corymbia calophylla* (Marri); closed heath on the Limestone outcrops.

There are no ESAs within the project area. Lake Preston is listed as an ESA, and is located approximately 200 from the project area.

No Department of Biodiversity Conservation and Attractions (DBCA) listed Threatened Ecological Communities (TECs) have been previously recorded within the project area. The closest recorded TEC is approximately 2km north of Lot 4 (Threatened Ecological Communities, DBCA-038). According to a map of potential EPBC Act listed TECs, Banksia Woodlands of the Swan Coastal Plain may occur within the project area (DoEE 2018). Further flora investigations have concluded that it is unlikely that the vegetation proposed for clearing forms part of this Banksia Woodlands of the Swan Coastal Plain TEC.

A reconnaissance survey of the proposed extraction area was undertaken by Lundstrom Environmental Consultants Pty Ltd on 19 April 2018 to verify information obtained from desktop assessment. A selective, low intensity survey of the flora and vegetation was undertaken to describe the general vegetation characteristics and conditions at an appropriate scale. A copy of the survey results has been attached.

For the survey two vegetation types were recorded within the proposed extraction area:

- Vegetation Type 01: Open woodlands of *Eucalyptus gomphocephala*, *Eucalyptus decipiens* and *Agonis flexuosa* over very occasional *Kunzea ericifolia*, pasture grasses and various weeds, predominately *Gomphocarpus fruticosus* and *Solanum linneanum* in grey sands with occasional limestone outcrops. This vegetation type is present in the southern section of the assessment area, predominantly the portion of the assessment area within Lot 5.
- Vegetation Type 02: Closed low woodland of *Eucalyptus decipiens*, *Eucalyptus petrensis*, *Agonis flexuosa*, and isolated *Banksia attenuata*, and *Nuytsia floribunda* over *Melaleuca viminea* and *Templetonia retusa* and occasional *Rhagodia baccata* and *Hardenbergia comptoniana* on grey sands with numerous limestone outcrops. This vegetation type is predominately on either side of the ridge within the assessment area, which runs in a north-

south direction through the portion of the assessment area within Lot 4.

The vegetation quality is generally degraded with no native ground cover and a prevalence of weed species due to past use of the site for cattle grazing.

FAUNA

A search of the Department of the Environment and Energy's Protected Matters Search Tool identified some listed Threatened Species (three species of black cockatoo and the western ringtail possum) are known to occur in the general area. A Level 1 fauna survey, including a literature review and a field reconnaissance survey was undertaken on the proposed extraction area in May and June 2018 to determine whether suitable habitat for these listed Threatened species is present.

The results of the survey show that the subject site is surrounded by vegetation in a similar condition and does not represent a key "linkage" or "corridor" for wildlife movement and the relatively small amount of clearing required is not likely to create any significant barriers to fauna movement on a local or regional scale (Harewood, 2018). Overall the subject site cannot be regarded as representing quality black cockatoo foraging habitat. Tuarts and peppermint are only foraged upon rarely and the number of jarrah and banksia trees present is very small and would amount to far less than 1ha in total. No existing roosting trees (trees used at night by black cockatoos to rest) were positively identified during the survey. Two trees in the south-western corner of the proposed project area appeared to contain hollows with larger entrances (greater than ~10cm), that would possibly be big enough to allow the entry of a black cockatoo into a suitably sized and orientated branch/trunk. The proponent has reduced the clearing area from the original 12.9ha to 12.3ha to exclude the two potential habitat trees.

There was no evidence from the day or night surveys of western ring-tailed possums in the proposed Project Area (i.e. no fresh dreys, no scats and no individuals).

3.2 Describe the hydrology relevant to the project area (including water flows).

Drainage across the surrounding unaltered land surface is east to west towards Lake Preston.

The landform comprises inwardly draining ancient dune/karstic type topography and rises rapidly from the water level in Lake Preston, which averages between -1 and 0mAHD, to hills in the middle and east of the property which are up to 35mAHD. From these hills to the eastern boundary of the property, the topography drops down to approximately 15mAHD.

There are no surface drainage lines. Drainage is internal and infiltrates into the underlying groundwater.

The property lies in the Harvey Diversion Catchment within the Harvey River Basin and does not fall within a Public Drinking Water Source Area. The property lies within a Rights in Water

and Irrigation (RIWI) Act 1914 Groundwater Proclamation Area (South West Coastal Groundwater Area) but does not fall within a RIWI Surface Water Proclamation Area (Landgate 2018).

The property is next to the eastern boundary of Lake Preston, which is listed as a Conservation wetland, a Ramsar wetland, an Environment Protection Policy (EPP) Lake, and is included in the Department of Parks and Wildlife (DPaW) managed lands and waters.

A search of the Department of Water and Environmental Regulation (DWER) Water Information Reporting database found four bores (these are the Lake Clifton D1, D2, C4 and C5 bores), lying within the same catchment as the property, for which sufficient water level data was available to build and interpret hydrographs. Hydraulic gradients and flows in the area are heavily influenced by groundwater discharge to the eastern shore of Lake Preston. Because of the uniformity of the groundwater gradient north to south the conditions observed at these bores are considered to be representative of the groundwater conditions at the property, even though these bores are located approximately 5.5km to the south and 5.5km to the north of the property. Details on the bores and associated hydrographs have been provided in the Water Management Plan of the Extractive Industries Licence application.

3.3 Describe the soil and vegetation characteristics relevant to the project area.

Shallow, sandy topsoil overlies inter-bedded limestone, calcarenite, marl and shell beds of the Tamala Formation. Previous work undertaken by Commander (1988) shows that the limestone is approximately 20 to 25m thick and unconformably overlies sands, shales and siltstones of the Leederville Formation.

A reconnaissance survey of the proposed extraction area was undertaken by Lundstrom Environmental Consultants Pty Ltd on 19 April 2018 to verify information obtained from desktop assessment. A selective, low intensity survey of the flora and vegetation was undertaken to describe the general vegetation characteristics and conditions at an appropriate scale. A copy of the survey results is attached.

For the survey two vegetation types were recorded within the proposed extraction area:

Vegetation Type 01: Open woodlands of *Eucalyptus gomphocephala*, *Eucalyptus decipiens* and *Agonis flexuosa* over very occasional *Kunzea ericifolia*, pasture grasses and various weeds, predominately *Gomphocarpus fruticosus* and *Solanum linneanum* in grey sands with occasional limestone outcrops. This vegetation type is present in the southern section of the assessment area, predominantly the portion of the assessment area within Lot 5.

Vegetation Type 02: Closed low woodland of *Eucalyptus decipiens*, *Eucalyptus petrensis*, *Agonis flexuosa*, and isolated *Banksia attenuata*, and *Nuytsia floribunda* over *Melaleuca viminea* and *Templetonia retusa* and occasional *Rhagodia baccata* and *Hardenbergia*

comptoniana on grey sands with numerous limestone outcrops. This vegetation type is predominately on either side of the ridge within the assessment area, which runs in a north-south direction through the portion of the assessment area within Lot 4.

3.4 Describe any outstanding natural features and/or any other important or unique values relevant to the project area.

Lake Preston, a Ramsar designated wetland is located approximately 200m west of the proposed Project Area. Activities associated with this proposed project are unlikely to affect the quality of the environment, if undertaken in accordance with the proposed environmental management plans prepared for the Extractive Industries Licence application.

3.5 Describe the status of native vegetation relevant to the project area.

As above

The vegetation quality is generally degraded with no native ground cover and a prevalence of weed species due to past use of the site for cattle grazing.

3.6 Describe the gradient (or depth range if action is to be taken in a marine area) relevant to the project area.

The proposed Project Area consists of moderate to flat slopes ranging in gradients from 1:13 in the south-western section; 1:23.5 in the middle and 1:16 in the northern section.

3.7 Describe the current condition of the environment relevant to the project area.

The proposed Project Area will be located at a distance of at least 200m from the eastern boundary of Lake Preston, a Ramsar designated wetland. The eastern boundary of the proposed Project Area abuts the currently approved limestone extraction operation which has been in operation since the early 2000s (albeit under different operators). The northern and southern boundaries of the proposed Project Area abut 'Parkland cleared' grazing properties. The area is zoned as 'General Farming' in terms of the Shire of Harvey Town Planning Scheme No. 1 (Shire of Harvey, 1996) and 'Rural' in terms of the Greater Bunbury Region Scheme (WA Planning Commission, 2017).

The vegetation quality is generally degraded with no native ground cover and a prevalence of weed species due to past use of the site for cattle grazing.

3.8 Describe any Commonwealth Heritage Places or other places recognised as having heritage values relevant to the project area.

No Commonwealth Heritage Places or other places recognised as having heritage values relevant to the Project Area were identified in the search of the Matters of National

Environmental Significance.

3.9 Describe any Indigenous heritage values relevant to the project area.

No registered Aboriginal heritage sites listed on the Aboriginal Heritage Inquiry System are located within or adjacent to the proposed Project Area.

3.10 Describe the tenure of the action area (e.g. freehold, leasehold) relevant to the project area.

Freehold

3.11 Describe any existing or any proposed uses relevant to the project area.

Adjacent land to the property is used primarily for livestock pastures interspersed with remnant vegetation. The western boundary of the property adjoins Lake Preston, a Ramsar designated wetland.

Limestone extraction operations are currently being undertaken within the southern section of Lot 4 and northern section of Lot 5. The south-eastern section of Lot 5 is also used for cattle grazing. A road reserve runs between Lot 4 and Lot 5. Extraction activities have been undertaken within this road reserve as per an agreement between the Shire of Harvey and B & J Catalano. Access to the property is via Ludlow Road which is a minor, unsealed road.

The proposed Project Area will be returned to pastures for cattle grazing, on completion of limestone extraction, .

Section 4 - Measures to avoid or reduce impacts

Provide a description of measures that will be implemented to avoid, reduce, manage or offset any relevant impacts of the action. Include, if appropriate, any relevant reports or technical advice relating to the feasibility and effectiveness of the proposed measures.

Examples of relevant measures to avoid or reduce impacts may include the timing of works, avoidance of important habitat, specific design measures, or adoption of specific work practices.

4.1 Describe the measures you will undertake to avoid or reduce impact from your proposed action.

The main threatening factors to the Ramsar designated wetland are declining water quality and habitat loss within the immediate surrounds of the Ramsar Wetland, Lake Preston. The proposed Project Area will be located at the recommended distance of at least 200m from the eastern buffer boundary of Lake Preston. Stormwater management issues are not anticipated for this property due to the high permeability of the land surface. No surface water runoff from the working areas will be discharged to the surrounding unaltered landscape, as any stormwater runoff will be contained in the base of the extraction area. Due to the very high permeability of the limestone, water drains away almost instantaneously and no risk of offsite impacts from flooding is anticipated. All stormwater will be managed in accordance with the Water Management Plan submitted as part of the Extractive Industries Licence application to the Shire of Harvey. At pit closure the pit floor will be deep ripped and the battered slopes will be revegetated.

All major servicing of vehicles which could lead to fuel and oil spills, will be undertaken offsite at the Proponent's premises in Brunswick Junction. Any minor servicing on site will be undertaken in accordance with the procedure outlined in Section 5.5.3 of the Extractive Industries Licence environmental management plan (attached).

As stated above in Section 3, the Project Area has been modified to exclude two potential black cockatoo habitat trees from the south-western section. Overall the subject site cannot be regarded as representing quality black cockatoo foraging habitat. Tuarts and peppermint are only foraged upon rarely and the number of jarrah and banksia trees present is very small and would amount to far less than 1 ha in total. No existing roosting trees (trees used at night by black cockatoos to rest) were positively identified during the survey. In order to offset any potential foraging habitat loss, it is proposed that revegetation of the area will be undertaken in accordance with the conditions of the Clearing Permit (CPS 8057/1), once granted.

4.2 For matters protected by the EPBC Act that may be affected by the proposed action, describe the proposed environmental outcomes to be achieved.

The proposed environmental outcomes to be achieved include:

- no disturbance to potential breeding trees for black cockatoos during limestone excavation operations
- no change in water quality of Lake Preston which can be attributed to the proposed limestone operations
- no disturbance to migratory birds or habitat at the adjacent Lake Preston Ramsar wetland during limestone excavation operations.

Section 5 – Conclusion on the likelihood of significant impacts

A checkbox tick identifies each of the matters of National Environmental Significance you identified in section 2 of this application as likely to be a significant impact.

Review the matters you have identified below. If a matter ticked below has been incorrectly identified you will need to return to Section 2 to edit.

5.1.1 World Heritage Properties

No

5.1.2 National Heritage Places

No

5.1.3 Wetlands of International Importance (declared Ramsar Wetlands)

No

5.1.4 Listed threatened species or any threatened ecological community

No

5.1.5 Listed migratory species

No

5.1.6 Commonwealth marine environment

No

5.1.7 Protection of the environment from actions involving Commonwealth land

No

5.1.8 Great Barrier Reef Marine Park

No

5.1.9 A water resource, in relation to coal/gas/mining

No

5.1.10 Protection of the environment from nuclear actions

No

5.1.11 Protection of the environment from Commonwealth actions

No

5.1.12 Commonwealth Heritage places overseas

No

5.2 If no significant matters are identified, provide the key reasons why you think the proposed action is not likely to have a significant impact on a matter protected under the EPBC Act and therefore not a controlled action.

With all the measures proposed to be implemented to avoid, reduce or mitigate any potential impacts on both the listed Threatened Species and the Ramsar wetland, the proposed limestone operations are unlikely to have a significant impact on any Matter of National Environmental Significance. Existing limestone excavations have been operating in the area for the past 20 years without any significant impact on Lake Preston or black cockatoo habitat.

Section 6 – Environmental record of the person proposing to take the action

Provide details of any proceedings under Commonwealth, State or Territory law against the person proposing to take the action that pertain to the protection of the environment or the conservation and sustainable use of natural resources.

6.1 Does the person taking the action have a satisfactory record of responsible environmental management? Please explain in further detail.

B & J Catalano has been in operation as a BRM extractor for approximately 50 years within the South West region and currently operates forty sand, gravel and limestone quarries located throughout the metropolitan, Mid West and South West regions of Western Australia.

B & J Catalano engages suitably qualified and experienced environmental consultants, with whom they have worked for the past 18 years, to undertake their environmental approval applications and prepare associated environmental documents to ensure compliance with State and Federal environmental commitments. A series of environmental management plans (rehabilitation, water, noise, dieback, weed, dust) are prepared for each of the excavation sites (depending on the site requirements) to enable activities to be undertaken in a manner which has minimal impact on the surrounding environment. Rehabilitation plans are prepared for each of the sites, detailing activities to be undertaken throughout the life of the extraction activities. This may include information relating to topsoil management (for later use in rehabilitation), deep ripping, native vegetation planting rates and pasture establishment rates. Supplementary plans, such as water management plans are also developed to manage stormwater flows, using contour banks and detention ponds, to minimise the impacts of erosion on the newly rehabilitated lands and their surrounds.

6.2 Provide details of any past or present proceedings under a Commonwealth, State or Territory law for the protection of the environment or the conservation and sustainable use of natural resources against either (a) the person proposing to take the action or, (b) if a permit has been applied for in relation to the action – the person making the application.

Not applicable

6.3 If it is a corporation undertaking the action will the action be taken in accordance with the corporation's environmental policy and framework?

Yes

6.3.1 If the person taking the action is a corporation, please provide details of the corporation's environmental policy and planning framework.

B&J Catalano Pty Ltd are currently certified under ISO 14001:2015 Environmental Management Systems. This certification, together with the Environmental Policy is attached.

6.4 Has the person taking the action previously referred an action under the EPBC Act, or been responsible for undertaking an action referred under the EPBC Act?

Yes

6.4.1 EPBC Act No and/or Name of Proposal.

Limestone Excavation on Lots 2 and 4 Ludlow Road, Myalup, Western Australia (EPBC 2008/3956)

Lot 7 Runnymede Road, Wellesley Western Australia (EPBC 2011/5996)

Section 7 – Information sources

You are required to provide the references used in preparing the referral including the reliability of the source.

7.1 List references used in preparing the referral (please provide the reference source reliability and any uncertainties of source).

Reference Source	Reliability	Uncertainties
Department of the Environment and Energy. EPBC Act Protected Matters Search Tool for 1km radius around the site Commander, D.C. (1988). Geology and hydrogeology of the “superficial formations” and the coastal lakes between Harvey and Leschenault Inlets (Lake Clifton Project): Western Australia Geological Survey, Report 23, pp. 37-50.	Reliable - commonwealth Government database	None identified
Protected Matters Search Tool for 1km radius around the site Commander, D.C. (1988). Geology and hydrogeology of the “superficial formations” and the coastal lakes between Harvey and Leschenault Inlets (Lake Clifton Project): Western Australia Geological Survey, Report 23, pp. 37-50.	Reliable - report undertaken in proposed Project Area by a reputable scientist.	
Harewood G (2018) Fauna Assessment CPS 8057/1, Lot 4 & 5 Ludlow Road, Myalup. Unpublished report prepared for B&J Catalano Pty Ltd	Reliable - report undertaken in proposed Project Area by a reputable scientist.	
Lundstrom Environmental Consultants (2018) Flora and Vegetation Environmental Values Survey, Lot 4 Ludlow Road, Myalup, Shire of Harvey. Unpublished report prepared for B&J Catalano Pty Ltd		

Section 8 – Proposed alternatives

You are required to complete this section if you have any feasible alternatives to taking the proposed action (including not taking the action) that were considered but not proposed.

8.0 Provide a description of the feasible alternative?

There is no alternative. Quality limestone is present in the proposed Project Area adjacent to an existing limestone quarry.

8.1 Select the relevant alternatives related to your proposed action.

8.27 Do you have another alternative?

No

Section 9 – Contacts, signatures and declarations

Where applicable, you must provide the contact details of each of the following entities: Person Proposing the Action; Proposed Designated Proponent and; Person Preparing the Referral. You will also be required to provide signed declarations from each of the identified entities.

9.0 Is the person proposing to take the action an Organisation or an Individual?

Organisation

9.2 Organisation

9.2.1 Job Title

Manager Optimisation and Rates

9.2.2 First Name

Peter

9.2.3 Last Name

Bennett

9.2.4 E-mail

peterbennett@catalano.com.au

9.2.5 Postal Address

South Western Hwy
Brunswick Junction WA 6224
Australia

9.2.6 ABN/ACN

ACN

008961975 - B. & J. CATALANO PTY LTD

9.2.7 Organisation Telephone

+61 8 97268100

9.2.8 Organisation E-mail

admin@catalano.com.au

9.2.9 I qualify for exemption from fees under section 520(4C)(e)(v) of the EPBC Act because I am:

Not applicable

Small Business Declaration

I have read the Department of the Environment and Energy’s guidance in the online form concerning the definition of a small a business entity and confirm that I qualify for a small business exemption.

Signature:..... Date:

9.2.9.2 I would like to apply for a waiver of full or partial fees under Schedule 1, 5.21A of the EPBC Regulations

No

9.2.9.3 Under sub regulation 5.21A(5), you must include information about the applicant (if not you) the grounds on which the waiver is sought and the reasons why it should be made

Person proposing the action - Declaration

I, _____, declare that to the best of my knowledge the information I have given on, or attached to the EPBC Act Referral is complete, current and correct. I understand that giving false or misleading information is a serious offence. I declare that I am not taking the action on behalf of or for the benefit of any other person or entity.

Signature:..... Date:

I, _____, the person proposing the action, consent to the designation of _____ as the proponent of the purposes of the action describe in this EPBC Act Referral.

Signature:..... Date:

9.3 Is the Proposed Designated Proponent an Organisation or Individual?

Organisation

9.5 Organisation

9.5.1 Job Title

Manager Optimisation and Rates

9.5.2 First Name

Peter

9.5.3 Last Name

Bennett

9.5.4 E-mail

peterbennett@catalano.com.au

9.5.5 Postal Address

South Western Hwy
Brunswick Junction WA 6224
Australia

9.5.6 ABN/ACN

ACN

008961975 - B. & J. CATALANO PTY LTD

9.5.7 Organisation Telephone

+61 8 97268100

9.5.8 Organisation E-mail

admin@catalano.com.au

Proposed designated proponent - Declaration

I, _____, the proposed designated proponent, consent to the designation of myself as the proponent for the purposes of the action described in this EPBC Act Referral.

Signature:..... Date:

9.6 Is the Referring Party an Organisation or Individual?

Organisation

9.8 Organisation

9.8.1 Job Title

Manager Optimisation and Rates

9.8.2 First Name

Peter

9.8.3 Last Name

Bennett

9.8.4 E-mail

peterbennett@catalano.com.au

9.8.5 Postal Address

South Western Hwy
Brunswick Junction WA 6224
Australia

9.8.6 ABN/ACN

ACN

008961975 - B. & J. CATALANO PTY LTD

9.8.7 Organisation Telephone

+61 8 97268100

9.8.8 Organisation E-mail

admin@catalano.com.au

Referring Party - Declaration

I, _____, I declare that to the best of my knowledge the information I have given on, or attached to this EPBC Act Referral is complete, current and correct. I understand that giving false or misleading information is a serious offence.

Signature:..... Date:

Appendix A - Attachments

The following attachments have been supplied with this EPBC Act Referral:

1. 1816 Ludlow Rd TEC and PF Survey_Report_V2_optimised.pdf
2. BJCQ01-CCE01 Certificate of Confidence 14001-2015.pdf
3. Catalano CPS 8057_1 Lot 4 5 Ludlow Rd Fauna Assessment Report V2a.pdf
4. Part 001 of Lot 4 Ludlow Rd_2018 EIL Application.pdf
5. Part 002 of Lot 4 Ludlow Rd_2018 EIL Application.pdf
6. Signed Environmental Policy 2019.pdf