

# PRELIMINARY ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PLAN (MINOR PROJECTS) Minilya-Exmouth Road:

Passing Lanes (SLK 183.3 - 191.7, 202.1 - 204.4), Road Train Assembly Area and Materials Pit (SLK 205.1 - 206.1)



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Gascoyne Region
August 2007

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## PRELIMINARY ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PLAN (MINOR PROJECTS)

## Minilya-Exmouth Road: Passing Lanes (SLK 183.3 - 191.7, 202.1 - 204.4), Road Train Assembly Area and Materials Pit (SLK 205.1 - 206.1)

#### 1 INTRODUCTION

The Minilya-Exmouth Road (H048) provides connection between Coral Bay and Exmouth town site. The road primarily services pastoral, fishing and tourist industries as well as community access.

As a result of the commercial growth in this area, and expected increase in traffic volumes, it is now essential that the Minilya-Exmouth Road be improved. One of the major concerns is the narrow seals, limiting overtaking opportunities and increased risk of accidents occurring due to the interactions between higher speed passenger vehicles, and heavy, slower moving road trains and tourist traffic.

In addition, it should be noted that this road is a triple road train route. One of the major concerns is the increased heavy vehicle traffic into Exmouth. At present, as road trains are not permitted within the Exmouth town site without specialised permits, they are required to "break down" outside the town. Road trains are currently "breaking down" along the side of the road outside the town, causing potential conflict with other traffic users.

In order to minimise this risk, it is proposed to widen the seal along Minilya-Exmouth Road, at several locations to provide passing opportunities between Burkett road intersection and the Exmouth town site. It is also proposed to construct a Road Train Assembly Area outside the Exmouth town site, along Minilya-Exmouth Road, to provide a safe area for road trains to "break down", and to remove the risk of possible conflict with other road users.

#### 2 DESCRIPTION OF THE PROJECT

The Scope of this Project includes the widening of the road formation to accommodate passing lanes at different sections of Minilya-Exmouth Road, from Burkett Road intersection to the Exmouth town site. The Project will also include the construction of a sealed Road Train Assembly Area along Minilya-Exmouth Road, near the Exmouth town site. These works will be undertaken in order to provide a safer driving environment for the travelling public.

It is also proposes that clearing endorsement are obtained for a potential material pit site within an area adjacent to the Road Train Assembly Area. This proposed pit site will be part of a region wide strategic plan to identify material sites for future basecourse materials. The proposed material pit site is already vested to Main Roads through Section 19 approval.

#### 2.1 Project Location

The location and boundaries of the study area are shown in Figures 1 - 4 and include the following features:

- Proposed passing lanes at SLK 183.3 -191.7 and 202.1 204.4
- Construction of a sealed Road Train Assembly Area at SLK 205.1-206.1
- Strategic material pit (under S19/291), along Minilya-Exmouth Road at SLK 205.1 206.1.

RAFF Base Figure 1: Passing Lane clearing area along Minilya-Exmouth Road, SLK 183.3 - 189







Figure 4: Road Train Assembly Area and Proposed Material Pit under Section 19/291 on Minilya-Exmouth Road, SLK 205.1 - 206.1

#### **METHODOLOGY**

#### 3.1 Preliminary Desktop Study

A preliminary assessment of the project area and its potential constraints was undertaken by reviewing a number of government agency managed databases (and consulting where necessary).

#### 3.1.1 Wetlands

The locations of wetlands within the project area was determined using the Commonwealth Department of the Environmental and Heritage (DEH) mapping tool, Department of Environment and Conservation (DEC) Geographic Data Atlas mapping tool and by an onsite visit.

3.1.2 Threatened Flora, Fauna and Communities, Conservation Reserves and ESAs DEC's database was searched for known populations of threatened flora, fauna and Threatened Ecological Communities (TECs) and conservation reserves, refer to Appendix C.

#### 3.1.3 Air Quality

The need for a local air quality assessment was determined using the criteria outlined in the MRWA environmental guideline, Air Quality.

#### 3.1.4 Heritage

Non-indigenous heritage was examined utilising the Australian Heritage Places Inventory (<a href="http://www.heritage.gov.au">http://www.heritage.gov.au</a>) and Heritage Council of Western Australia (<a href="http://register.heritage.wa.gov.au">http://register.heritage.wa.gov.au</a>), refer to Appendix D.

#### 3.1.5 Aboriginal Heritage

A Search of the Department of Indigenous Affairs' (DIA's)

(<a href="http://www.dia.wa.gov.au/Heritage/SitesSurveysSearch.aspx">http://www.dia.wa.gov.au/Heritage/SitesSurveysSearch.aspx</a>) database and an onsite Aboriginal Heritage Survey was undertaken to determine whether the project area contains any sites of Aboriginal heritage, refer to Appendix E.

#### 3.1.6 Sensitive Water Resources

The Commonwealth Department of the Environment and Water (DEW) mapping tool and Department of Environment and Conservation (DEC) Geographical Data Atlas mapping tool was used to determine whether the project areas supported, or was adjacent to, any significant lakes, rivers or wetlands or proclaimed areas and was confirmed by an onsite visit.

#### 3.1.7 Contaminated Sites

The reserve areas proposed for the Passing Lanes and Road Train Assembly Area have been in Main Roads continual control, therefore no further work will be necessary or required.

The proposed Materials Pit will be located in an area located adjacent to a waste disposal site, however, this area has been vested to Main Roads under a Section 19 approval for numerous years and would not have been exposed to any contaminated materials.

#### 3.1.8 Acid Sulfate Soils

The Western Australian Planning Commission's (WAPC'c) acid sulfate soils maps were reviewed and the self assessment done

(<a href="http://www.wapc.wa.gov.au/Publications/213.aspx">http://www.wapc.wa.gov.au/Publications/213.aspx</a>) to determine what level of risk the project area is exposed to, refer to Appendix F.

#### 3.1.9 Weeds

An onsite visit was undertaken to determine whether there are any known populations of declared plants or significant weeds in or adjacent to the project area.

#### 3.1.10 Dieback

Project receives <400 mm of rain so determined not to be an issue.

#### 3.1 Commonwealth Referral

The decision whether to refer the project to the Commonwealth's DEH was based upon whether the project would impact upon matters of national significance, e.g. World Heritage properties, protected wetlands and migratory species, Commonwealth marine areas, threatened species or communities or nuclear actions (refer to the Commonwealth webpage <a href="https://www.deh.gov.au/epbc/assessmentsapprovals/index.html">www.deh.gov.au/epbc/assessmentsapprovals/index.html</a> for further information and the search tool page at <a href="http://www.deh.gov.au/erin/ert/epbc/imap/map.html">http://www.deh.gov.au/erin/ert/epbc/imap/map.html</a>), refer to Appendix G.

#### 3.1 Site Investigation

A site visit was carried out by Matthew Oswald (Environment Officer) and Crystelle Evangelista (Environment Officer) on 21/08/07 to examine the general features of the area. The broad vegetation types in the vicinity of the project area were identified. Other issues that were considered included topography, the impacts on creek lines, property access and the potential for noise and vibration impacts (dilapidation).

Site photos were taken and are included in Appendix B.

#### **4 EXISTING ENVIRONMENT**

#### 4.1 Description

The Passing Lanes, Road Train Assembly Area and Material Pits all occur within Vegetation Association No. 663 which is described as "Hummock grasslands, shrub steppe; waterwood over soft spinifex". According to the Native Vegetation Association Data (DEC & DAF) this vegetation association is well represented in the region with 92.3% extent remaining. The condition of the vegetation is best described as good to excellent.

The following list of species was observed at the proposed projects areas:

#### Passing Lane 183.3 -191.7

Crotalaria cunninghamii Santalum lanceolatum Acacia victoriae Acacia coriacea Heliotropium spp. Psoralea lachnostachys Senna oligophylla Scaevola spinescens Stylobasium spathulatum Enchylaena tomentosa Ptilotus obovatus

#### Road Train Assembly Area and Section 19

Acacia pyrifolia Eucalyptus spp. Leptosema aphyllum Scaevola pulchella Indigofera rugosa Acacia trachycarpa Lepidium leptopetalum Ptilotus polystachyus Ptilotus macrocephalus Acacia bivenosa Acacia tetragonophylla
Alectryon oleifolius
Senna glutinosa
Senna oligophylla
Solanum diversiflorum
Acacia victoriae
Scaevola spinescens

Acacia linophylla
Ptilotus exaltatus
Acacia Startii
Erodium crinitum
Eremophila forrestii
Eremophila pterocarpa

Passing Lane SLK 202.1- 204.4

Swainsona maccullochiana Stylobasium spathulatum Eremophila freelingii Atriplex bunburyana Exocarpos aphyllum Maireana tomentosa Maireana polypterygia

#### 4.2 Site Investigation

Site Investigation	Description/Comment
Total area (ha) of <u>native vegetation</u> to be	Passing Lane 183.3 - 191.75 = 0.85 ha
cleared	Passing lane 202.1-204.4 = 0.85 ha
	RTAA = 0.3 ha
	Material Pit (Section 19/291) = N/A
Total area (ha) of other vegetation,	N/A
including regrowth, landscape areas, to	
be cleared	
Weeds present	Buffel grass
Drainage areas or wetlands present	None
Adjacent land uses	Pastoral and Waste Disposal Site

#### 5 CLEARING OF NATIVE VEGETATION

Native vegetation describes all indigenous aquatic and terrestrial vegetation (living or dead). The term does not include vegetation that was intentionally sown, planted or propagated unless it was required under a statutory condition.

Apart from activities that are exempt under the clearing regulations, such as clearing vegetation that is less than 10 years old for maintenance, typically all Main Roads clearing will be undertaken using its Statewide Project Purpose Permit.

#### 5.1 Assessment against Clearing Principles

In assessing whether the project is likely to have a significant impact on the environment, the project has been assessed against the DEC's 10 principles of clearing, refer to Appendix H.

The project is not likely to be at variance with the DEC's 10 clearing principles.

#### 5.2 Environmentally Sensitive Area (ESA)

Clearing within an Environmentally Sensitive Area (ESA)	Yes/ No	Comments
Does the area to be cleared occur within an ESA where the vegetation is in good or better condition?	Yes	According to DEC's shapefiles the project areas are located within an ESA. Consultation with DEC officers (Exmouth) suggested that the area is not within a national park and along with adjacent land uses (including waste disposal site, residential, food processing centres and light commercial air strip) suggest that the projects would not be at variance to the clearing principles.  The project areas are located within the Cape Range Geological Site that is listed
		on the Register of National Estate. However the proposed project will not impact on the geology of the Cape Range and any soil strata that are important to the site.

#### **6 ASSESSMENT OF ASPECTS AND IMPACTS**

Table 1: Aspects and Impacts – Minilya-Exmouth Road: Passing Lanes, Road Train Assembly Area and Materials Pit

Evaluation of Potential Impacts
Not relevant to the proposed works. Local air quality assessment is not required for the project since:  the predicted traffic flow is less than 10,000 vehicles per day (in urban areas) or 15,000 vehicles per day in rural areas: and;
<ul> <li>residential and other sensitive receptors are not within 200 meters of the road centre.</li> </ul>
Likely to be a minor issue during earthworks. No major sensitive receivers adjacent to the proposed works.
No significant fauna issues associated with any of the proposed upgrade works.
DEC website search resulted in the Black-flanked Rock-Wallaby, Atlantic Yellow-nosed Albatross and Eastern Cape Range Bamazomus as possibly occurring within the project area. The proposed project areas however do not cover the habitat areas for these species.
The database search also identified the following species as occurring in the project area: Lerista allochira, Australian Bustard, Star Finch (western) and Cape Range Draculoides. Given the small area of clearing and the mobile nature of the species, no impacts are expected
No Matters of National Environmental Significance as protected under EPBC Act (1999) will be impacted.
<ul> <li>2 ha of native vegetation will be cleared.</li> <li>The condition of the native vegetation to be cleared is Very Good to Excellent</li> <li>The native vegetation will be cleared is well represented regionally (i.e. it possesses more than 30% of its pre-European extent).</li> <li>The native vegetation to be cleared does occur within an ESA.</li> </ul>
<ul> <li>The native vegetation to be cleared will be done so using the purpose permit.</li> <li>The strategic material pit will involve temporary clearing and so will require revegetation. A revegetation plan will need to be submitted to DEC at the time of clearing.</li> </ul>
Consultation with DEC confirms that the proposal is not going to have a significant impact upon any DRF or TECs.
No Matters of National Environmental Significance as protected under EPBC Act (1999) will be impacted.
The only weed species observed throughout the project area was <i>Cenchrus ciliaris</i> (Buffel Grass) which is now widespread throughout the northern regions.
Not an issue given the project area receives less than 400 mm of average annual rainfall or is above the 26° parallel.
The Cape Range National Park occurs on the Western Side of the project areas but works will not impact on these reserves.
A search of the Australian Heritage Places Inventory and Heritage Council of Western Australia on-line databases has indicated that there are no heritage significance listed sites present in the currently proposed works areas.
The Cape Range Geological Site is listed on the Register of National Estate. The proposed works will not impact on the geology of the Cape Range and any soil strata that are important to the site.

Table 1: Aspects and Impacts – Minilya-Exmouth Road: Passing Lanes, Road Train Assembly Area and Materials Pit

Aspect	Evaluation of Potential Impacts
Aboriginal heritage	A search of DIA database identified no known sites of Aboriginal heritage significance within the vicinity of the project area.
	Consultation with DIA has confirmed that no further investigations are required for all aspects of the project. Aboriginal Heritage Surveys also confirmed that no matters relating to the sites will be impacted.
Surface water/drainage	On-site visit confirmed that the proposed works will not disturb or interrupt any natural drainage and surface run-off patterns.
Wetlands	There are no wetlands within the vicinity of the project area.
Groundwater	No dewatering nor drainage modifications are required, hence no change to groundwater level or quality.
Noise and vibration	No major sensitive local receivers near the project area
Visual amenity	The proposed works will result in minor and short-term visual impacts during construction.
Public safety and risk	Provided traffic management and signage to Main Roads standards is employed, none of the proposed works present any significant hazards to public safety. The proposed works will serve to enhance public safety by improving local road and pedestrian conditions.
Hazardous substances	Not relevant to the proposed works.
Contamination	The proposed Passing Lanes are within the road reserve and no known previous land use activities on or adjacent to the project area have had the potential to create contamination.
	The proposed strategic material pit is located adjacent to a waste disposal site; however this area has been vested to Main Roads under a Section 19 approval for more then ten years and would not have been exposed to any contaminated materials.
Salinity	Given the nature and scale of the project the impact is not relevant.
Acid Sulfate Soils	The WAPC's self-assessment (Planning Bulletin 64) indicates that no further soil investigation is required for the project.
Statutory Land Use Planning	The proposed passing lanes and RTAA are entirely within the existing road reserve, no further amendments would be required to the Local Government Planning Scheme or Region Scheme.
	The Material pit is currently vested with the Commissioner of Main Roads WA under Section 19/291.

#### 7 DECISION TO REFER

Given the scale of the project, the low significance of its impacts to the surrounding environment and the environmental management measures proposed, the project does not require referral to the WA Environmental Protection Authority or the Commonwealth Department of the Environment and Heritage.

#### 8 STAKEHOLDER CONSULTATION

Name	Agency	Date	Comments
Ben Lullfitz (Flora)	DEC	23/08/07	
Ross Gordon (Fauna)	DEC	24/08/07	
John Stretch	Dept. of Ag.	27/08/07	
Jeanette Cirby	DEC (Exmouth)	21/08/07	

#### 9 ENVIRONMENTAL MANAGEMENT PLAN

This section of the report (the EMP) has been developed for the project area following the completion of the above sections. The main aim of this EMP is to provide a management plan to assist in minimising the environmental impacts of the activities associated with the proposed works and identify who is responsible for the implementation of the management strategies.

This EMP will only address the actions already listed as well as any site-specific issues that were identified during the PEIA. The project specific management measures identified within this EMP are in addition to the standard specifications used for Category 2 projects. The environmental management measures/conditions in Main Road's Specifications 203, 204, 301, 302 and 304 are still to be followed where applicable.

The areas that require special management will be addressed in terms of:

- the timing of the various management actions;
- the topic (e.g. vegetation);
- · the objectives for each area;
- the actions that are necessary to minimise the impact;
- the responsible party for implementing the action; and
- whether the action arose from external advice or is a Main Roads requirement.

#### 9.1 Communication Plan

Environmental issues specific to the project will be communicated as:

Method	Frequency	Participants	Reference	Record
Project Site				
Induction	Prior to Work	All personnel and subcontractors	EMP and Contractor Environmental Policy	Induction Meeting
Authority Consultation				
Department of Environment and Conservation	As required	Main Roads' Project Manager and Contractor Project Manager	-	Minutes of meeting

#### 9.1.1 External Communication and Complaints

A complaints register shall be maintained by the contractor. All complaints received shall be forwarded to the Main Roads' Project Manager for action. Serious complaints shall be investigated within 24 hours of the complaint being received.

#### **10 MONITORING**

After project completion, revegetated areas will be inspected every six months for the first two years to ensure weed spread or establishment has not occurred and to measure the effectiveness of revegetation works.

Monitoring of the weeds identified in the project area will comprise the use of input criteria listed below.

Criterion	Target	After three months	After one year	After three years
Mean weed foliage cover (%).	<20	<20	<20	<20

#### 11 CONTINGENCY MEASURES

Given the scale and nature of the project, no contingency measures are identified as the inherent environmental risks are small.

#### 12 AUDITING

Given the scale and nature of the project, there is no requirement for auditing the implementation of the EMP as the environmental risks are small.

#### 13 REFERENCES

Mitchelle, A.A. and Wilcox, D.G (1994) *Arid Shrubland Plants of Western Australia, Second and Enlarged Edition.* University of Western Australia Press, Nedlands, Western Australia. ISBN 1-874460-22-X.

Timing	Topic	Objective	DNMENTAL MANAGEMENT PLAN Action	Responsible Party	Advice
All phases of Construction	Vegetation Clearing - Record-keeping	All projects should maintain the required records relating to clearing native vegetation under the purpose permit.	Clearing:  a copy of the PEIA & EMP (Minor projects) for small projects;  a map showing the location where the clearing occurred, recorded in an ESRI Shapefile;  the size of the area cleared (in hectares); and  the dates on which the clearing was done.  Revegetation and rehabilitation of areas:  a copy of each Revegetation Plan;  a map showing the location of any area revegetated and rehabilitated recorded in an ESRI Shapefile;  a description of the revegetation and rehabilitation activities undertaken; and  the size of the area revegetated and rehabilitated (in hectares).	Project Manager  Project Manager	DEC
Pre-Construction	Vegetation - Clearing	Ensure that the overall objectives of the alignment and construction works are compatible with maintaining and, where possible, enhancing the biological integrity of the surrounding environment and minimising vegetation loss and degradation; and Ensure the retention of as many habitat trees, shrubs and vegetated corridors for fauna as possible, particularly where associated with riparian zones.	Selection of designs/locations that minimise adverse impacts on the biological environment.  Construction works to be undertaken in summer to reduce the potential for soil erosion and drainage line siltation due to vegetation removal and heavy rains.  Control/spray weeds species within the project area prior to construction to limit the amount of propagative material that may be spread during disturbance.  Any stockpiled vegetation from clearing works shall not be burnt. This vegetation shall be used during any rehabilitation works and either chipped or replaced according to the EMP.	Project Manager  Project Manager  Contractor  Contractor	Main Roads  Main Roads  Main Roads  Main Roads
Construction	Noise, Vibration and Dust	Ensure that the construction of the proposal does not become a nuisance to the public.	Access to private property and appropriate traffic management measures should be planned and implemented prior to the construction of works.  Works associated with the construction of the development should not prevent public access along the adjacent reserve. Public access should be maintained along the reserve at all times.  Any complaints regarding dust will be attended to as soon as possible.  Where it is found that trucks leaving the site are carrying excessive material onto sealed surfaces, these areas will be	Contractor  Contractor/Project Manager Contractor	Main Roads  Main Roads  Main Roads  Main Roads
Construction	Pollution and Litter	Ensure that the construction of the proposal is managed to a standard that minimises any adverse impacts on the environment.	swept to reduce dust generation and maintain traffic safety.  The designated servicing area will be bunded to contain any spills or leaks and shall not be located in an area adjacent to any drainage areas or watercourses or will drain into a temporary sump.	Contractor	Main Roads

		ENVIRO	ONMENTAL MANAGEMENT PLAN		
Timing	Topic	Objective	Action	Responsible Party	Advice
			Emergency cleanup procedures shall be implemented in the case of any spillage. These will include control of spilled material and removal of contaminated soil to an approved site. The contractor shall ensure appropriate equipment is available at all times and shall notify the Superintendent's Representative of a spill.	Contractor	Main Roads
			All waste oil will be collected for recycling and any empty fuel/oil containers, used filters and waste hydraulic parts to be collected and stored in an allocated area then removed to an approved site.	Contractor	Main Roads
			Dumping or temporary storage of bitumen, asphalt, concrete or aggregate should only occur at designated depots or controlled hardstands.	Contractor	Main Roads
			The project areas, including hardstand areas, will be kept in a tidy manner at all times.	Contractor	Main Roads
Construction	Fire	Ensure that the fire risk associated with the construction of the proposal is minimised.	No fires shall be lit within the project area.	Contractor	Main Roads
Construction	Site Management	Ensure that the site is managed to ensure that construction of the proposal will have minimal impact upon the surrounding environment.	Materials storage areas will be located on previously disturbed/designated area.	Contractor	Main Roads
Post-Construction	Rehabilitation	Leave the project area free from debris; and	Replace the cleared trees with locally occurring natives.	Contractor	Main Roads
		Rehabilitate the project area so that the revegetated area provides a net increase in area of native vegetation at the site.	All waste materials from the development are to be completely removed from the site upon completion of the development.  Final clean-up shall be to the satisfaction of the Project Manager and the Site Superintendent.	Contractor	Main Roads

## Appendix A

## **Low Impact Environmental Screening Checklist**

#### Checklist - Low Impact Screening Checklist

The Low Impact Screening Checklist is part of the environmental assessment and approval process, refer to in Figure 2 in the Main Roads environmental guideline Environment Assessment and Approvals. It should be noted that the checklist does not address Aboriginal heritage issues. Please refer to Main Roads guideline Aboriginal Heritage for the heritage assessment process.

All projects are to be screened to identify those that are Low Impact.

Projects that have "No" to **all** items are classed as Low Impact and should be implemented using standard contract clauses in the Tender Document Process.

Projects that have "Yes" to **any** item will require further environmental assessment and will be implemented using an Environmental Management Plan.

Tick "Yes" or "No" for every item.

ITEM

Project Name: Minilya-Exmouth Road Passing Lane 183.3 – 191.7

- 1	New road or road reserve to be created or expansion of existing road reserve.		-
2	Works require clearing of native vegetation outside the maintenance zone.	V	
3	Works require clearing of native vegetation that is older than 10 years old within the maintenance zone.	V	
4	Works to occur outside normal working hours.		1
5	Passes over, adjoins or drains directly into a wetland or sensitive watercourse.		~
6	Local natural drainage regime / hydrology will be changed.		V
7	Dewatering, or a new water bore required.		~
8	Known potential source of hazardous materials within or adjoining project area. e.g. Acid Sulphate Soils, existing petrol station, industrial site or waste disposal site (landfill)		V
9	Buildings will require demolition.		V
a Mair Enviro	Name P.G. Daris. Title D		
Comn	nents:		
	OADS Western Australia 0700101 Screening Checklist Rev 3.doc 30:	05/07	

Form No. 6707/001/01

#### Checklist - Low Impact Screening Checklist

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Projects that have "No" to **all** items are classed as Low Impact and should be implemented using standard contract clauses in the Tender Document Process.

Projects that have "Yes" to **any** item will require further environmental assessment and will be implemented using an Environmental Management Plan.

Tick "Yes" or "No" for every item.

ITEM

New road or road reserve to be created or expansion of existing road reserve. Works require clearing of native vegetation outside the maintenance zone.

ITEM NO.

Project Name: Minilya-Exmouth Road Passing Lane SLK 202.1 - 204.4

Works require clearing of native vegetation that is older than 10 years old within the maintenance zone.  Works to occur outside normal working hours.  Passes over, adjoins or drains directly into a wetland or sensitive watercourse.  Local natural drainage regime / hydrology will be changed.  Dewatering, or a new water bore required.  Known potential source of hazardous materials within or adjoining project area. e.g. Acid Sulphate Soils, existing petrol station, industrial site or waste disposal site (landfill)  Buildings will require demolition.  Completed By:  Signature Name R.G. UARD.  Title Date 27.8.07. Title Name To be reviewed by a Main Roads Environment Officer  Name Name Complete Langlet  Title  Livronard officer	1	
4	Works to occur outside normal working hours.	1
5	Passes over, adjoins or drains directly into a wetland or sensitive watercourse.	· /
6	Local natural drainage regime / hydrology will be changed.	
7	Dewatering, or a new water bore required.	1
8		V
9		V
a Mai	Name P.G. UARD. Title PM.	_
Com	ments:	
	ROADS Western Australia 70700101 Screening Checklist Rev 3.doc 30/05/	07

#### Checklist - Low Impact Screening Checklist

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All projects are to be screened to identify those that are Low Impact.

Projects that have "No" to all items are classed as Low Impact and should be implemented using standard contract clauses in the Tender Document Process.

Projects that have "Yes" to any item will require further environmental assessment and will be implemented using an Environmental Management Plan.

Tick "Yes" or "No" for every item.

Project Name: Minilya-Exmouth Road Train Assembly Area and Section 19

ITEM NO.	ITEM					
1	New road or road reserve to be created or expansion of existing road reserve.					
2	Works require clearing of native vegetation outside the maintenance zone.					
3	Works require clearing of native vegetation that is older than 10 years old within the maintenance zone.					
4	Works to occur outside normal working hours.					
5	Passes over, adjoins or drains directly into a wetland or sensitive watercourse.					
6	Local natural drainage regime / hydrology will be changed.					
7	Dewatering, or a new water bore required.					
8	Known potential source of hazardous materials within or adjoining project area. e.g. Acid Sulphate Soils, existing petrol station, industrial site or waste disposal site (landfill)					
9	Buildings will require demolition.					
To be r a Main Environ	eviewed by Roads ament Officer Name Name Name Name Name Name Name Name	_				
MAIN RO	DADS Western Australia	05/07				

# Appendix B Site Photographs



Photography 1: Proposed Passing Lane – Minilya-Exmouth Road – North View LHS - SLK 183.3



Photography 2: Proposed Passing Lane – Minilya-Exmouth Road –South View RHS - SLK 183.3



Photography 3: Proposed Passing Lane – Minilya-Exmouth Road –South View RHS - SLK 192



Photography 4: Proposed Passing Lane – Minilya-Exmouth Road – North View RHS - SLK 202.10 - 204.10



Photography 5: Proposed Passing Lane – Minilya-Exmouth Road – North View RHS - SLK 202.10 - 204.10



Photography 6: Proposed RTAA- Minilya-Exmouth Road - North View LHS - SLK 205.1



Photography 7: Proposed RTAA- Minilya-Exmouth Road - North View LHS - SLK 205.1



Photography 8: Proposed RTAA- Minilya-Exmouth Road - South View LHS - SLK 206.1



Photography 9: Proposed Mineral Pit (Section 19) – Minilya-Exmouth Road – South View LHS - SLK 205.1 - 206.1



Photography 10: Proposed Mineral Pit (Section 19) – Minilya-Exmouth Road – South View LHS - SLK 205.1 - 206.1

## Appendix C

**DEC's Threatened Flora and Fauna Database Searches** 

#### EVANGELISTA Crystelle (GEnv)

Lullfitz, Ben [Ben.Lullfitz@dec.wa.gov.au] From:

Sent: Thursday, 23 August 2007 2:33 PM

To: EVANGELISTA Crystelle (GEnv) RE: Flora Search Request

Attachments: Minilya-ExmouthRd\_waherb\_230807.doc; Minilya-ExmouthRd\_letter\_230807.doc; Minilya-ExmouthRd\_drf&plist\_230807.doc

#### Hi Crystelle

Subject:

Please find attached the results from the WA Herbarium database and Declared Rare and Priority Flora List for the search you requested along the Minilya-Exmouth Road. Please note, there were no results from DEC's Threatened (Declared Rare) Flora database.

Please refer to the attached letter for the conditions in relation to the supplied data.

#### Regards

#### Ben Lulifitz

Threatened Flora Database Officer Species and Communities Branch Department of Environment and Conservation Locked Bag 104, Bentley Delivery Centre WA 6983 Ph (08) 9334 0123 Fax (08) 9334 0278 ben.lullfitz@dec.wa.gov.au

From: EVANGELISTA Crystelle (GEnv) [mailto:crystelle.evangelista@mainroads.wa.gov.au]

Sent: Thursday, 23 August 2007 11:50 AM

To: Lullfitz, Ben

Subject: Flora Search Request

Hi Ben,

Main Roads Gascoyne Region is proposing to undertake the construction of passing lanes, a road train assembly area and a materials pit along Minilya-Exmouth Road.

I wish to request a threatened flora search be conducted for the following pit (all co-ordinated are given in GDA94 50K):

Passing lane 1 SW CORNER 0200515 7539922

NW CORNER 0198739 7548565

NE CORNER 0198925 7548475

SE CORNER 0200707 7539930

#### Passing Lane 2 SW CORNER 0201415

7558205

27/08/2007

NW CORNER 0201354 7560435

NE CORNER 0201595 7560453

SE CORNER 0201618 7558108

Road Train Assembly Area and Material Pit

SW CORNER 0200469 7561422

NW CORNER 0201073 7562341

NE CORNER 0201797 7562127

SE CORNER 0201395 7560893

Results of the search will be placed into a Preliminary Environmental Impact Assessment.

Thankyou for your assistance.

Regards, Crystelle Evangelista Graduate Environment (GEnv) Environment Branch



Ph: (08) 9323 4455 | Fax: (08) 9323 4547 | crystelle.evangelista@mainroads.wa.gov.au

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27/08/2007

#### DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT DECLARED RARE AND PRIORITY FLORA LIST 21 December 2006

SPECIES / TAXON	CONS	CALM	DISTRIBUTION	FLOWER	
	CODE	REGION	DISTRIBUTION	PERIOD	
Abutilon sp. Cape Range (AS George 1312)	2	P	Cape Range, Yardie Creek, Learmonth		
Abutilon sp. Quobba (H Demarz 3858)	2	MW,P	Quobba, Cape Range, Minilya	Jul-Oct	
Acacia alexandri	3	P	Cape Range, Exmouth	Jun-Sep	
Acacia startii	3	MW,P	Cape Range, Rough Range, Minilya River, Bullara Station	Jul-Aug	
Acanthocarpus rupestris	2	Р	Cape Range	May-Jun	
Brachychiton obtusilobus	4	P	Cape Range	Aug-Sep	
Corchorus congener	3	Р	Exmouth, Ningaloo Station, Barrow Is.	Apr-Oct	
Crinum flaccidum	2	MW,P,*	Yardie Creek, Minilya, Cape Range, Eastern States	May	
Daviesia pleurophylla	2	Р	Cape Range	Sep-Oct	
Eremophila occidens ms	2	P.MW	Cape Range, Kalbarri		
Eremophila youngii subsp. lepidota ms	4	P,MW	S Cape Range, Roy Hill, N Mt Vernon, Paraburdoo, Muggon Stn	Mar,Jun	
Grevillea calcicola	3	Р	Cape Range, Learmonth, Yardie Creek Stn	Aug,Sep	
Harnieria kempeana subsp. rhadinophylla	2	Р	Cape Range	May-Sep	
Livistona alfredii	4	Р	Milistream, Cave Creek, Cape Range	Nov-Dec	
Stackhousia umbellata	3	P	Cape Range	May-Aug	
Tinospora esiangkara ms	2	P,*	Cape Range, NT, Qld	Aug-Sep	
Verticordia serotina	2	P,	Cape Range N.P.	Sep	

#### **EVANGELISTA Crystelle (GEnv)**

From: EVANGELISTA Crystelle (GEnv)

Sent: Monday, 27 August 2007 9:41 AM
To: EVANGELISTA Crystelle (GEnv)

Subject: RE: Fauna Search Request

From: Gordon, Ross [mailto:Ross.Gordon@dec.wa.gov.au]

Sent: Friday, 24 August 2007 1:44 PM To: EVANGELISTA Crystelle (GEnv)

Subject: Minilya-Exmouth Rd Threatened Fauna search

Hi Crystelle,

The results of your requested search in the vicinity of the proposed passing lanes, road train assembly area and materials pit along Minilya – Exmouth Rd (plus ~5km) is attached.

Let me know if you have any questions about the supplied information.

Cheers, Ross

From: EVANGELISTA Crystelle (GEnv)
Sent: Thursday, 23 August 2007 11:56 AM

**To:** 'ross.gordon@dec.wa.gov.au' **Subject:** Fauna Search Request

Hi Ross,

Main Roads Gascoyne Region is proposing to undertake the construction of passing lanes, a road train assembly area and a materials pit along Minilya-Exmouth Road.

I wish to request a threatened fauna search be conducted for the following pit (all co-ordinated are given in GDA94 50K):

#### Passing lane 1

SW CORNER 0200515 7539922

NW CORNER 0198739 7548565

NE CORNER 0198925 7548475

SE CORNER 0200707 7539930

Passing Lane 2 SW CORNER 0201415 7558205

NW CORNER 0201354

27/08/2007

21.972 °S 114.0294 °E / 22.2664 °S 114.1599 °E Minilya - Exmouth Rd (plus~5km buffer) \* Date Certainty Seen Location Name Method A COLUMNIA Schedule I - Fauna that is rare or is likely to become extinct Petrogale lateralis lateralis Black-flanked Rock-wallaby (Warru) 3 records This species thrives in steep, complex rocky habitats providing tunnels, caves and crevices for shelter and protection from predators. Learmonth Day sighting 2000 Learmonth Scats 2001 Learmonth Scats Thalassarche chlororhynchos Atlantic Yellow-nosed Albatross 1 records This species is an occasional visitor to the WA coast. It breeds on islands in the southern Indian and Atlantic oceans. Bamazomus subsolanus Eastern Cape Range Bamazomus 11 records 1996 1996 1996 1996 1998 1998 1998 1998 1998 Priority Three: Taxa with several, poorly known populations, some on conservation lands Lerista allochira Lerista allochira 2 records 2000 Caught or trapped 2000 Learmonth Caught or trapped Priority Four: Taxa in need of monitoring Ardeotis australis Australian Bustard 2 records This species is uncommon and may occur in open or lightly wooded grasslands. 2000 Learmonth Day sighting 2000 Learmonth Neochima ruficauda subclarescens Star Finch (western) i records A nomadic species inhabiting grasslands and eucalypt woodlands near water. 2000 Learmonth Day sighting Draculoides vinei Cape Range Draculoides 2 records

Friday, 24 August 2007

## **Appendix D**

Australian Heritage Places Inventory, Heritage Council of Western Australia and the Municipal Heritage Inventory Database Searches

AHPI - Results Page 1 of 1

## AUSTRALIAN HERITAGE PLACES INVENTORY

[ New Search ]		
	No records matched your query.	
**************************************		

Report produced: 23/8/2007

AHPI URL: http://www.heritage.gov.au/ahpi/search.html

http://www.heritage.gov.au/cgi-bin/ahpi/results.pl?id=&pn=Minilya-Exmouth+road+... 23/08/2007

# HERITAGE COUNCIL OF WESTERN AUSTRALIA

HERITAGE COUNCIL PLACES DATABASE HERITAGE TRAILS

HELP | ME

ABOUT | REGISTRATION | DEVELOPMENT | INSURANCE | ASSISTANCE | PUBLICATIONS | CASE STUDIES | EDUCATION

PLACES DATABASE ACTIONS:

**QUICK SEARCH ADVANCED SEARCH ▶ RESULTS LIST LOCATION REPORT SAVE DATA** 

There are no Places matching your search criteria.

If you'd like to perform a new search, please select a new Places database

▲ top of page [ disclaimer ] © copyright 2007 heritage council

OTHER REGISTER INFORMATION:

WHAT IS THE STATE REGISTER? OTHER HERITAGE LISTS

### Australian Heritage Database

### Place Details

edit search | new search | about the Australian Heritage Database | Heritage home | Australian Heritage Council home

### Send Feedback

### Cape Range Geological Site, Learmonth, WA, Australia

### Photographs:



List: Register of the National Estate
Class: Natural

Legal Status: Registered (21/03/1978)

Place ID: 18864 Place File No: 5/14/192/0007

### Nominator's Statement of Significance:

Cape Range Geological Site should be included in the Register because: 1) the site displays the geology of the Cape Range Group and younger strata which are important for the study of the Exmouth sub-basin of the Carnarvon Basin; 2) the area includes raised marine terraces which show warping due to late tectonic, possibly continuing to the present day; 3) the area is an important site for geological research; 4) the area includes two geological type sections; 5) there is spectacular scenery developed in the area, including gorges, natural bridges, caves and windows.

Official Values: Not Available

### Description:

The area selected forms part of the Cape Range Anticline, a major geological structure in the Exmouth sub-basin of the Carnarvon Basin. Outcropping strata include rocks ranging from Oligocene to Holocene in age. These are mainly limestones and sandstones, and form spectacular rugged landscapes with natural rock arches, windows and canyons. The area includes the type sections of the Mandu and Tulki Limestones and the western coastal section features four marine terraces of Pleistocene age. Warping of the terraces may be evidence that structural disturbance is still taking place. The area was the site of extensive oil exploration in WA.

History: Not Available

Condition and Integrity: Not Available

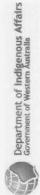
### Location:

About 12,000ha, 20km north west of Learmonth, comprising an area enclosed by a line commencing at the intersection of the coastline at Mean High Water Mark and AMG northing 49KHR7561000mN; then via straight lines joining the latter point and the following points consecutivley AMG point 50KJA192850mE 7561000mN; 193000mE 7554500mN; 196000mE 7554500mN; then southerly by a straight line to the intersection of Charles Knife Road with AMG easting 196000mE; then westerly along that road to its intersection with AMG easting 193000mE; then via straight lines joining the latter point and the following AMG points consecutivley 193000mE 7550400mN; 49KHR809100mE 7550400mN; 809100mE 7550000mN; then directly west to the intersection of the Mean

http://www.environment.gov.au/cgi-bin/ahdb/search.pl?mode=place\_detail;search=to... 29/08/2007

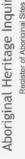
## Appendix E

**Department of Indigenous Affairs Database Search** 



# Aboriginal Heritage Inquiry System

Register of Aboriginal Sites



Search Criteria

0 sites in a search box. The box is formed by these diagonally opposed corner points:

one 50	Easting	195092	200526
MGA Zo	Northing	7541057	7560468

# Disclaimer

Aboriginal sites exist that are not recorded on the Register of Aboriginal Sites, and some registered sites may no longer exist. Consultation with Aboriginal communities is on-going to identify additional sites. The AHA profects all Aboriginal sites in Western Australia whether or not they are registered.

# Copyright

Copyright in the information contained herein is and shall remain the property of the State of Western Australia. All rights reserved. This includes, but is not limited to, information from the Register of Aboriginal Sites established and maintained under the Aboriginal Heritage Act 1972 (AHA).

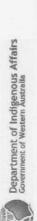
# Legend

acy	Accuracy is shown as a code in brackets following the site coordinates.	[Reliable] The spatial information recorded in the site file is deemed to be reliable, due to methods of capture.	[Unreliable] The spatial information recorded in the site file is deemed to be unreliable due to errors of spatial data capture and/or quality of spatial information reported.
Coordinate Accuracy	Accuracy is show	[Reliable] T	[Unreliable] T
	Interim register	Permanent register	Stored data
Status	-	۵	S
seess	Closed	Open	Vulnerable
Acc	O	0	>
riction	No restriction	Male access only	Female access
Restr	z	Σ	ш

# Spatial Accuracy

Index coordinates are indicative locations and may not necessarily represent the centre of sites, especially for sites with an access code "closed" or "vulnerable". Map coordinates (Lat/Long) and (Easting/Northing) are based on the GDA 94 datum. The Easting / Northing map grid can be across one or more zones. The zone is indicated for each Easting on the map, i.e. '5000000'.250' means Easting=5000000, Zone=50.

40 of 63



# Aboriginal Heritage Inquiry System Register of Aboriginal Sites

114.10

BANGE

Andrew O Versier



Highlighted Area Search Area Map Area **Legend** 

Geoscience Australia -National Mapping Division, All rights reserved. information shall at all times remain the property of the Copyright for base map

Copyright for Native Title Land Claim. Local Government Authority, Mining Tenement boundaries shall at all times remain the property of the State of Western Australia, All rights reserved.

For further important information on using this information please see the Department of Indigenous Adfairs' Terms of Use statement at http://www.dia.wa.gov.

Waper Shoal limits and position approximate)

210000:250

Woolcott [tre] 140 200000 250

BE USED FOR -22°10 approximate .32.2 Dirnits and Jimits and posit. NOT TO limits and position approximate) ABANDONED 001

No 2 0H

7540000



### MAIN ROADS ABORIGINAL SITE CONSULTATION SHEET

MRWA Project: PASSING OF ROAD - 100M FROM CENTRE	-CINE) R.T.	D- 183,33 TO 191.76 A.A-MIN/EX RD-	8 202.10 TO 204.49 (BOT 205 to 206 & \$19/291
	Venue:	MINICYA - EZM	
Consultation Details:	Time		
	Aboriginal Group Name:	GNULLI	
Name of Group Member	Signature of	Group Member	Date
BEN ROBERTS	15/12	3	15/8/07
KATRINIA ROBERTY	Diction KX	Dele	15/8/07
NATHAN DALE	W. Clirch		15/8/07
MARIKA DALE	Marika Dale		15/8/07
Main Roads has consulted with regards to PASSING C.  Main Roads' Officer (s), was/were onsite during the the impacts these works was the group then made the consultation of the group then made the consultation.	e consultation to e will have.	explain the nature of	of the works and describe
No siles of signi	ficure found.		
Approval to preced		Ks granted.	

MAIN ROADS Western Australia

# Appendix F WAPC's Acid Sulfate Soils Mapping



# Acid Sulfate Soils Applicant Self-Assessment Form



### Important information for applicants

This form need only be completed if there is evidence of significant risk of disturbing acid sulfate soils at this location or having completed Form 1A - Application for approval of freehold subdivision or survey strata you have indicated yes to either question 1 or 2, Acid sulfate soils assessment, section 7.

Applicant The applicant is the	person with whom the WAPC will correspond and, if the application is approved, the person to w	hom the ap	provał will be sent.
Full name	Crystelle Evangelista		
Applicant signatu	ire Indlkung loto	Date	27/08/07
Application properties	erty Minitya-Exmouth Road - Passing Lanes SLK 183-191.1, 202-204, Road Train Assembly Area	a and Materi	at Prt SLK 205.1-206.1
Step 1 If you have pre	viously indicated yes to question 1 or 2 on Form 1A go to Step 2.		
Is there evidend	e of a significant risk of disturbing acid sulfate soils at this location?		
	blished maps showing the levels of risk of acid sulfate soils. The maps are shown on figure d at www.wapc.wa.gov.au/Publications/213.aspx	s 1-11 of p	lanning bulletin no. 64
Question 1:	Is the land depicted in figures 1-11 of the WAPC's Planning Bulletin No 64 Acid Sulfate Soils as having a high risk of actual acid sulfate soil and potential acid sulfate soil <3m from the surface?	yes	②no
Question 2:	Is the land located in an area, whether depicted in figures 1-11 or not, where site characteristics and local knowledge lead you to form the view that there is a significant risk of disturbing acid sulfate soils at this location?	yes	☑no
If yes to either of	of these questions go to Step 2.		
	these questions then no further investigation is required. Sign this form and se e written results of the preliminary site assessment.	ubmit it v	vith your application
Step 2	bligging grander accounted as Blade to be considered and as the Lord O		
•	ollowing works proposed, or likely to be carried out, on the land?		Fi
	Are any dewatering works proposed to be undertaken?	yes yes	l" uo
Question 4:	Is the surface elevation $\leq$ 5m AHD and is excavation of $\geq$ 100m $^3$ of soil (ie 10 standard dump truck loads) with an excavation depth of $\geq$ 2m proposed?	yes	[] no
Question 5:	Is the surface elevation > 5m AHD and is excavation of $\geq$ 100m $^3$ of soil (ie 10 standard dump truck loads) with an excavation depth of $\geq$ 2m proposed?	yes	□no
If yes to any of t	hese questions go to step 3.		
If no to all of the	se questions no further investigation is required. Sign this form and submit it	with you	r application.
Step 3 Carry out prelim	inary site assessment in accordance with Department of Environment and C	onservati	on guidelines.
be obta	of documents in the acid sulfate soils guidelines series and further technical ined from contaminated sites page on the Department of Environment and C ww.dec.wa.gov.au	advice ar onservat	nd information can ion's website at
Question 6:	Did the preliminary site assessment reveal the presence of acid sulfate soils?	☐ yes	□no
If yes to this que	estions go to step 4.		

1

If no to this questions then no further investigation is required. Sign this form and submit it with your application together with the written results of the preliminary site assessment.

MAIN ROADS Western Australia

PTO for information on submissions

## **Appendix G**

Department of the Environment and Heritage Database Search



### **Protected Matters Search Tool**

You are here: Environment Home > EPBC Act > Search

27 August 2007 16:17

## **EPBC Act Protected Matters**

Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

You may wish to print this report for reference before moving to other pages or websites.

The Australian Natural Resources Atlas at http://www.environment.gov.au/atlas may provide further environmental information relevant to your selected area. Information about the EPBC Act including significance guidelines, forms and application process details can be found at http://www.environment.gov.au/epbc/assessmentsapprovals/index.html

Search Type:

0 km Buffer:

Coordinates: -22.08891,114.07146, -22.20678,114.07146, -22.20678,114.09879, -22.0889,114.09879



Report Contents: Summary

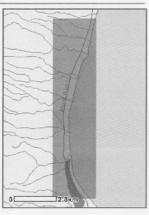
Details

Matters of NES

Other matters protected by the

EPBC Act

Extra Information Caveat Acknowledgments



### Summary

### **Matters of National Environmental Significance**

http://www.environment.gov.au/cgi-bin/erin/ert/epbc/epbc\_report.pl

27/08/2007

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance - see

http://www.environment.gov.au/epbc/assessmentsapprovals/guidelines/index.html.

World Heritage Properties: None
National Heritage Places: None
Wetlands of International Significance: (Ramsar Sites)

Commonwealth Marine Areas: None
Threatened Ecological Communities: None
Threatened Species: 11
Migratory Species: 25

### Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate. Information on the new heritage laws can be found at http://www.environment.gov.au/heritage/index.html.

Please note that the current dataset on Commonwealth land is not complete. Further information on Commonwealth land would need to be obtained from relevant sources including Commonwealth agencies, local agencies, and land tenure maps.

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species. Information on EPBC Act permit requirements and application forms can be found at <a href="https://www.environment.gov.au/epbc/permits/index.html">https://www.environment.gov.au/epbc/permits/index.html</a>.

Commonwealth Lands: 2

Commonwealth Heritage Places: None

Places on the RNE: 2

Listed Marine Species: 51

Whales and Other Cetaceans: 13

Critical Habitats: None

Commonwealth Reserves: None

http://www.environment.gov.au/cgi-bin/erin/ert/epbc/epbc\_report.pl

27/08/2007

27/08/2007

### **Extra Information**

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves: None
Other Commonwealth Reserves: None
Regional Forest Agreements: None

### **Details**

### Matters of National Environmental Significance

http://www.environment.gov.au/cgi-bin/erin/ert/epbc/epbc\_report.pl

Threatened Species [ Dataset Information ] Status Type of Presence Birds Macronectes giganteus \*
Southern Giant-Petrel Endangered Species or species habitat may occur within area Mammals Balaenoptera musculus \* Blue Whale Endangered Species or species habitat may occur within area Species or species habitat likely to Dasycercus cristicauda \* Vulnerable occur within area Eubalaena australis \*
Southern Right Whale Endangered Species or species habitat may occur within area Megaptera novaeangliae \* Humpback Whale Congregation or aggregation known Vulnerable Petrogale lateralis lateralis\* Black-flanked Rock-wallaby Species or species habitat likely to Vulnerable occur within area Reptiles Endangered Species or species habitat may Caretta caretta \* Loggerhead Turtle occur within area Chelonia mydas \* Green Turtle Vulnerable Breeding known to occur within area Dermochelys coriacea \*
Leathery Turtle, Leatherback Turtle, Luth Vulnerable Species or species habitat may Eretmochelys imbricata \*
Hawksbill Turtle Species or species habitat may Vulnerable Sharks Rhincodon typus \* Whale Shark Vulnerable Species or species habitat may occur within area Type of Presence Migratory Species [ Dataset Information ] Status **Migratory Terrestrial Species** Birds Haliaeetus leucogaster Migratory Species or species habitat likely to

		10.1
White-bellied Sea-Eagle		occur within area
Hirundo rustica Barn Swallow	Migratory	Species or species habitat may occur within area
Merops ornatus * Rainbow Bee-eater	Migratory	Species or species habitat may occur within area
Migratory Wetland Species		
Birds		
Ardea alba Great Egret, White Egret	Migratory	Species or species habitat may occur within area
Ardea ibis Cattle Egret	Migratory	Species or species habitat may occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel	Migratory	Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole	Migratory	Species or species habitat may occur within area
Numenius minutus Little Curlew, Little Whimbrel	Migratory	Species or species habitat may occur within area
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift	Migratory	Species or species habitat may occur within area
<i>A<u>rdea alba</u></i> Great Egret, White Egret	Migratory	Species or species habitat may occur within area
Ardea ibis Cattle Egret	Migratory	Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel	Migratory	Species or species habitat may occur within area
Migratory Marine Species		
Mammals		
Balaenoptera edeni Bryde's Whale	Migratory	Species or species habitat may occur within area
Balaenoptera musculus * Blue Whale	Migratory	Species or species habitat may occur within area
Dugong dugon Dugong	Migratory	Species or species habitat likely to occur within area
Eubalaena australis * Southern Right Whale	Migratory	Species or species habitat may occur within area
<i>Megaptera novaeangliae *</i> Humpback Whale	Migratory	Congregation or aggregation known to occur within area
Orcinus orca Killer Whale, Orca	Migratory	Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin	Migratory	Species or species habitat may occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations)	Migratory	Species or species habitat likely to occur within area

http://www.environment.gov.au/cgi-bin/erin/ert/epbc/epbc\_report.pl

27/08/2007

DDC Ast Bustantal Matters Descrit		Page 5 of 10
PBC Act Protected Matters Report		Page 3 of 10
Reptiles		
Caretta caretta * Loggerhead Turtle	Migratory	Species or species habitat may occur within area
Chelonia mydas * Green Turtle	Migratory	Breeding known to occur within area
Dermochelys coriacea * Leathery Turtle, Leatherback Turtle, Luth	Migratory	Species or species habitat may occur within area
Eretmochelys imbricata * Hawksbill Turtle	Migratory	Species or species habitat may occur within area
Sharks		
Rhincodon typus Whale Shark	Migratory	Species or species habitat may occur within area
Other Matters Protected by the	EPBC	Act
Listed Marine Species [ Dataset Information ]	Status	Type of Presence
Birds		
Apus pacificus Fork-talled Swift	Listed - overfly marine area	Species or species habitat may occur within area
Ardea alba Great Egret, White Egret	Listed - overfly marine area	Species or species habitat may occur within area
Ardea ibis Cattle Egret	Listed - overfly marine area	Species or species habitat may occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel	Listed - overfly marine area	Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole	Listed - overfly marine area	Species or species habitat may occur within area

Listed

Listed overfly marine area

Listed

Listed overfly marine area

Listed -

overfly

within area

http://www.environment.gov.au/cgi-bin/erin/ert/epbc/epbc\_report.pl

Haliaeetus leucogaster White-bellied Sea-Eagle

Macronectes giganteus Southern Giant-Petrel

Numenius minutus Little Curlew, Little Whimbrel

Merops ornatus \* Rainbow Bee-eater

Hirundo rustica Barn Swallow Species or species habitat likely to occur within area

Species or species habitat may occur

	marine	
Mammals	area	
Dugong dugon Dugong	Listed	Species or species habitat likely to occur within area
Ray-finned fishes		
Bulbonaricus brauni Braun's Pughead Pipefish, Pug-headed Pipefish	Listed	Species or species habitat may occur within area
Campichthys tricarinatus Three-keel Pipefish	Listed	Species or species habitat may occur within area
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish	Listed	Species or species habitat may occur within area
Choeroichthys suillus Pig-snouted Pipefish	Listed	Species or species habitat may occur within area
Doryrhamphus janssi Cleaner Pipefish, Janss' Pipefish	Listed	Species or species habitat may occur within area
Doryrhamphus negrosensis Flagtail Pipefish, Negros Pipefish	Listed	Species or species habitat may occur within area
Festucalex scalaris Ladder Pipefish	Listed	Species or species habitat may occur within area
Filicampus tigris Figer Pipefish	Listed	Species or species habitat may occur within area
Halicampus brocki Brock's Pipefish	Listed	Species or species habitat may occur within area
Halicampus grayi Mud Pipefish, Gray's Pipefish	Listed	Species or species habitat may occur within area
Halicampus nitidus Glittering Pipefish	Listed	Species or species habitat may occur within area
Halicampus spinirostris Spiny-snout Pipefish	Listed	Species or species habitat may occur within area
Haliichthys taeniophorus Ribboned Seadragon, Ribboned Pipefish	Listed	Species or species habitat may occur within area
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish	Listed	Species or species habitat may occur within area
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse	Listed	Species or species habitat may occur within area
Hippocampus histrix Spiny Seahorse	Listed	Species or species habitat may occur within area
Hippocampus kuda Spotted Seahorse, Yellow Seahorse	Listed	Species or species habitat may occur within area
Hippocampus planifrons Flat-face Seahorse	Listed	Species or species habitat may occur within area
	Listed	Species or species habitat may occur

Listed Species or species habitat may occur within area   Listed Species			
### Appsurus eyanopterus    Species or species habitat may occur within area		Listed	
## Appsurus apraefrontalis Appsurus apraefrontalis Appsurus apraefrontalis Appsurus aevis Dulve Seasnake  ## Appel Seasnake  ## Appel Seasnake  ## Appel Seasnake  ## Breediag known to occur within area  ## Listed Dermochelys coriacea *  ## List		Listed	
Double-ended Pipehorse, Alligator Pipefish Trachyrhamphus bicoarctatus Species or species habitat may occur within area Species or spec	Blue-finned Ghost Pipefish, Robust Ghost	Listed	
Send Stick Pipefish, Short-tailed Pipefish Trachyrhamphus longirostris Listed Species or species habitat may occur within area  Alpysurus apraefrontalis Short-nosed Seasnake  Alpysurus duboisii Dubois' Seasnake  Alpysurus eydouxii Spine-tailed Seasnake  Alpysurus laevis Slockes' Seasnake  Listed Species or species habitat may occur within area  Alpysurus laevis Slockes' Seasnake  Listed Species or species habitat may occur within area  Alpysurus laevis Slokes' Seasnake  Listed Species or species habitat may occur within area  Astrotia stokesii Slokes' Seasnake  Listed Species or species habitat may occur within area  Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Lis		Listed	
Reptiles  Alpysurus apraefrontalis Alpysurus apraefrontalis Alpysurus duboisii Dubois' Seasnake Alpysurus evdouxii Dibois' Seasnake Listed Alpysurus evdouxii Listed Species or species habitat may occur within area Alpysurus laevis Dibois' Seasnake Listed Species or species habitat may occur within area Alpysurus laevis Listed Species or species habitat may occur within area Listed Alpysurus evdouxii Listed Species or species habitat may occur within area Listed Species or species habitat may occur wit		Listed	
Aipysurus apraefrontalis Short-nosed Seasnake Aipysurus duboisii Dubois' Seasnake Aipysurus eydouxii Spine-tailed Seasnake Aipysurus eydouxii Spine-tailed Seasnake Listed Aipysurus eydouxii Spine-tailed Seasnake Listed Aipysurus laevis Diive Seasnake Listed Aipysurus laevis Diive Seasnake Listed Astrotia stokesii Listed Species or species habitat may occur within area Astrotia stokesii Listed Species or species habitat may occur within area Listed Species or species habitat may occur within area Listed Species or species habitat may occur within area Listed Species or species habitat may occur within area Listed Species or species habitat may occur within area Listed Demochelys coriacea * Leathery Turtle, Leatherback Turtle, Luth Disteira kingii Speciacoled Seasnake Disteira major Listed Disteira major Listed Disteira major Listed Disteira major Listed Disteira Species or species habitat may occur within area Listed Species or species habitat may occur within area		Listed	
Short-nosed Seasnake  Alpysurus duboisii Dubois' Seasnake  Alpysurus eydouxii Spine-tailed Seasnake  Alpysurus eydouxii Spine-tailed Seasnake  Alpysurus eydouxii Spine-tailed Seasnake  Alpysurus eydouxii Spine-tailed Seasnake  Alpysurus eydouxii Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Caretta caretta * Loggerhead Turtle Chelonia mydas * Green Turtle Demochelys coriacea * Leathery Turtle, Leatherback Turtle, Luth Disteira kingii Speciacled Seasnake  Disteira major Diive-headed Seasnake  Listed Disteira major Diive-headed Seasnake  Listed Disteira major Diive-headed Seasnake  Listed Disteira major Listed Disteira major Diive-headed Seasnake  Listed Disteira major Listed Disteira kingii Listed Disteira kingii Disteira kingii Disteira kingii Disteira k	Reptiles		
Dubois' Seasnake  Alpysurus eydouxii Spine-tailed Seasnake  Alipysurus laevis Dilive Seasnake  Astrotia stokesii Stokes' Seasnake  Caretta caretta * Listed Listed Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Dermochelys coriacea * Listed Dermochelys coriacea * Listed Disteira kingii Species or species habitat may occur within area  Listed Disteira kingii Species or species habitat may occur within area  Listed Disteira major Dive-headed Seasnake  Listed Disteira major Dive-headed Seasnake  Listed Species or species habitat may occur within area		Listed	
Spine-tailed Seasnake  Alpysurus Jaevis Dilive Seasnake Listed Species or species habitat may occur within area Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Listed Dermochelys coriacea * Leather Turtle, Leatherback Turtle, Luth Disteira kingii Specias or species habitat may occur within area  Listed Species or species habitat may occur within area		Listed	
Olive Seasnake  Astrotia stokesii  Astrotia stokesii  Caretta caretta * Loggerhead Turtte  Chelonia mydas * Green Turtte  Demochelys coriacea * Leathery Turtte, Leatherback Turtle, Luth Disteira kingii Spectacled Seasnake  Disteira major Olive-headed Seasnake  Cirurtle-headed Seasnake  Cirurtle-headed Seasnake  Listed  Species or species habitat may occur within area		Listed	
Stokes' Seasnake  Caretta caretta * Caretta caretta caretta * Caretta caretta caretta caretta tareta occur within area Caretta caretta caretta careta tareta careta ca		Listed	
Defending mydas *  Chelonia my		Listed	
Green Turtle  Dermochelys coriacea * Leathery Turtle, Leatherback Turtle, Luth Disteira kingii Specias or species habitat may occur within area  Disteira major Dilive-headed Seasnake Disteira major Dilive-headed Seasnake  Emydocephalus annulatus Listed Species or species habitat may occur within area		Listed	
Aceathery Turtle, Leatherback Turtle, Luth  Disteira kingii Disteira kingii Disteira major Diste		Listed	Breeding known to occur within area
Spectacled Seasnake  Disteira major  Ditve-headed Seasnake  Emydocephalus annulatus  Cirutle-headed Seasnake  Eiphalophis greyi  Listed  Species or species habitat may occur  within area  Listed  Species or species habitat may occur  within area  Listed  Species or species habitat may occur  within area  Listed  Species or species habitat may occur  within area  Listed  Species or species habitat may occur  within area  Listed  Species or species habitat may occur  within area		Listed	
Dive-headed Seasnake  Emydocephalus annulatus urtile-headed Seasnake  Emydocephalus annulatus urtile-headed Seasnake  Listed Species or species habitat may occur within area  Species or species habitat may occur within area  Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Species or species habitat may occur		Listed	
Turtle-headed Seasnake  Ephalophis greyi Listed Species or species habitat may occur within area  Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Species or species habitat may occur within area  Listed Species or species habitat may occur within area  Species or species habitat may occur within area  Listed Species or species habitat may occur within area		Listed	
North-western Mangrove Seasnake  Eretmochelys imbricata * Listed Species or species habitat may occur within area		Listed	
Hawksbill Turtle within area  **Mortophis elegans** Elegant Seasnake  **Pelamis platurus** Fellow-hellied Seasnake  Vinales and Other Cetaceans [ Dataset Information ]  **Interview of Presence**  **Type of Presence**  **		Listed	
Elegant Seasnake within area  Pelamis platurus  (ellow-bellied Seasnake  Whales and Other Cetaceans [ Dataset nformation ]  Listed Species or species habitat may occur within area  Status Type of Presence		Listed	
/ellow-bellied Seasnake within area  Whales and Other Cetaceans [ Dataset Information ]  Status Type of Presence		Listed	
nformation ] Status Type of Presence		Listed	
Rajaanontara acutoroctrata Cotaggan Species or species habitat may oppur		Status	Type of Presence
Cetacean Species of species habitat may occur	Balaenoptera acutorostrata	Cetacean	Species or species habitat may occur

<b>EPBC</b>	Act	Protected	Matters	Report

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Minke Whale		within area
Balaenoptera edeni	Cetacean	Species or species habitat may occur
Bryde's Whale		within area
Balaenoptera musculus * Blue Whale	Cetacean	Species or species habitat may occur within area
Delphinus delphis Common Dolphin	Cetacean	Species or species habitat may occur within area
Eubalaena australis * Southern Right Whale	Cetacean	Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus	Cetacean	Species or species habitat may occur within area
Megaptera novaeangliae * Humpback Whale	Cetacean	Congregation or aggregation known to occur within area
Orcinus orca Killer Whale, Orca	Cetacean	Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin	Cetacean	Species or species habitat may occur within area
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin	Cetacean	Species or species habitat may occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations)	Cetacean	Species or species habitat likely to occur within area
Tursiops aduncus Spotted Bottlenose Dolphin	Cetacean	Species or species habitat likely to occur within area

Cetacean Species or species habitat may occur within area

Tursiops truncatus s. str.
Bottlenose Dolphin
Commonwealth Lands [ Dataset Information ]

Defence

Unknown

Places on the RNE [ Dataset Information ] Note that not all Indigenous sites may be listed.

### Natural

Cape Range National Park and Surrounds WA Cape Range and Adjacent Coastal Plain WA

### Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the *Environment Protection and Biodiversity Conservation Act 1999*. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

http://www.environment.gov.au/cgi-bin/erin/ert/epbc/epbc\_report.pl

27/08/2007

# Appendix H Vegetation Clearing Assessment Report

### **MRWA Vegetation Clearing Assessment Report**

This report has been prepared to assist MRWA in addressing condition 7 "Assessment of Clearing Impacts" under Clearing Permit CPS 818/3.

For guidance on how to complete the form, refer to DEC completed reports (active permits) at http://203.20.251.100/cps\_reports/.

### AREA UNDER ASSESSMENT DETAILS

Proponent details

Proponent's name: MRWA

Contacts: Name: Matthew Oswald Phone: (08) 9941 0713

Fax: (08) 9941 0701

Email: matthew.oswald@mainroads.wa.gov.au

**Property details** 

Property: Passing Lanes - Minilya-Exmouth Road - SLK 183.8 - 191.7

Colloquial name:

Area under assessment

Clearing Area (ha) No. Trees **Method of Clearing** For the purpose of: Site Plan Attached 0.85 ha Mechanical Passing Lane Yes No

Avoidance/Minimise clearing

How have the clearing impacts been minimised?

Areas for passing lanes have been carefully selected based upon preliminary investigations

### **BACKGROUND**

### **Existing environment and information**

This passing lane occurs within vegetation association No. 663 which is described as "Hummock grasslands, shrub steppe; waterwood over soft spinifex". According to the Native Vegetation Association Data (DEC & DAF) this vegetation association is well represented in the region with 92.3% extent remaining.

Yes No No Yes Site Visit Undertaken Fauna / Flora Survey Undertaken No No Yes Fauna / Flora Survey Report Attached Site Report Attached No Yes No Yes **Site Photos Attached** Other Relevant References Attached

**Vegetation Complex Clearing Description Vegetation Condition** Comment

Fair - Good 663 Mechanical

### ASSESSMENT OF APPLICATION AGAINST CLEARING PRINCIPLES

### (a) Native vegetation should not be cleared if it comprises a high level of biological diversity.

Comments Proposal is not at variance to this Principle

The condition of the vegetation is fair to good and is well represented within the region with 92.3% remaining.

This proposal is therefore not at variance with this Principle.

Methodology Site visit - 21/08/07

### (b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.

Comments Proposal is not likely to be at variance to this Principle

> Due to the relatively small clearing areas necessary for this proposal and the high percentage of similar vegetation in surrounding areas, impact to fauna species will be marginal. This proposal is therefore not at

variance with this Principle.

Methodology Site Visit - 21/08/07

DEC Advice - 23/08/07

# (c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.

### Comments Proposal is not likely to be at variance to this Principle

DEC Threatened Flora Database search was conducted and no rare flora was known to exist within the project area. Also based upon site visits, no rare flora species were identified. It is therefore unlikely that the vegetation under application is necessary for significant flora. This proposal is therefore not at variance with this Principle.

### Methodology Site visit - 21/08/07

GIS Database - Declared rare and priority Flora List - DEC - 23/08/07

DEC Advice - 23/08/07

# (d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.

### Comments Proposal is not likely to be at variance to this Principle

There are no records of Threatened Ecological Communities (TEC's) for the area under application. This proposal is therefore not at variance with this Principle.

### Methodology GIS Database:

- Threatened Ecological Communities - DEC 23/08/07

# (e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.

### Comments Proposal is not at variance to this Principle

The vegetation within the project area is representative of Vegetation Association 663 which has 93.2% of the pre-European extent remaining. This vegetation association is therefore of "least concern" for biodiversity conservation. This proposal is therefore not at variance with this Principle.

### Methodology GIS Databases:

- NRM Slip Native Vegetation Associaition

## (f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.

### Comments Proposal is not at variance to this Principle

The area under application does not consist of a watercourse or wetland. This proposal is therefore not at variance with this Principle.

### Methodology Site Visit -21/08/07

DEC's we based Geographical Data Atlas mapping tool

GIS Databases:

- -Hydrolography linear
- -Hydrolographical Catchment -Catchements

# (g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.

### Comments Proposal is not at variance to this Principle

The area under application consist of deep sandy soils. Given the small clearing footprint and that the surrounding vegetation is in fair to good condition, the proposal is not at variance with this Principle.

### **Methodology** Site Visit -21/08/07

GIS Database"

-Acid sulfate soils risk map

# (h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.

### Comments Proposal is not at variance to this Principle

The proposed project is not near any conservation areas and therefore is not at variance with this Principle

Methodology Site Visit – 21/08/07

# (i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.

### Comments Proposal is not at variance to this Principle

The area under application receives less then 400 mm of annual rainfall. Due to the low rainfall rate, the proposal will not cause deterioration in the quality of surface or underground water and therefore will not be at variance to this Principle.

### **Methodology** Site visit -21/08/07

DEC's web based Geographical Data Atlas mapping tool

Rainfall, Mean Annual - BOM

# (j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.

### Comments Proposal is not at variance to this Principle

The soil consists of deep sandy soils. In addition the area under application receives less then 400 mm of annual rainfall. Due to the nature of the soils and the low rate of rainfall, the proposal will not exacerbate the incidence of flooding and therefore is not at variance with this Principle.

### **Methodology** Site visit -21/08/07

DEC's web based Geographical Data Atlas mapping tool

Rainfall, Mean Annual - BOM

# Planning instrument, Native Title, RIWI Act Licence, EP Act Licence, Works Approval, Previous EPA decision or other matter.

### Comments

There is no further requirement for RIWI Act licence, Works Approvals or EP Act Licence for the area under application

Methodology

### SUBMISSIONS

### If required have submissions been requested and addressed

Submission Requested from Request Sent (Date) Submission Received Issues Raised / Comments Made (Date)

### ASSESSOR'S RECOMMENDATIONS

List of Principles seriously at variance, at variance or maybe at Recommendation variance

### **OFFICER PREPARING REPORT**

Crystelle Evangelista (Graduate Environment Officer) Gascoyne Regional Office MRWA

Date: 29/08/07

### **MRWA Vegetation Clearing Assessment Report**

This report has been prepared to assist MRWA in addressing condition 7 "Assessment of Clearing Impacts" under Clearing Permit CPS 818/3.

For guidance on how to complete the form, refer to DEC completed reports (active permits) at http://203.20.251.100/cps\_reports/.

### AREA UNDER ASSESSMENT DETAILS

Proponent details

Proponent's name: Contacts:

MRWA

Name: Matthew Oswald

Phone: (08) 9941 0713 Fax: (08) 9941 0701

Email: matthew.oswald@mainroads.wa.gov.au

**Property details** 

Property:

0.85 ha

Passing Lanes - Minilya-Exmouth Road - SLK 202.1 - 204.4

Colloquial name:

Area under assessment

Clearing Area (ha)

No. Trees

**Method of Clearing** Mechanical

For the purpose of:

Passing Lane

Site Plan Attached Yes

Nο

Avoidance/Minimise clearing

How have the clearing impacts been minimised?

### **BACKGROUND**

### **Existing environment and information**

This passing lane occurs within vegetation association No. 663 which is described as "Hummock grasslands, shrub steppe; waterwood over soft spinifex". According to the Native Vegetation Association Data (DEC & DAF) this vegetation association is well represented in the region with 92.3% extent remaining.

Yes No No Yes Site Visit Undertaken Fauna / Flora Survey Undertaken No No Yes Fauna / Flora Survey Report Attached Site Report Attached Yes No Yes No **Site Photos Attached** Other Relevant References Attached

**Vegetation Complex Clearing Description Vegetation Condition** Comment

663 Mechanical Fair to Good

### ASSESSMENT OF APPLICATION AGAINST CLEARING PRINCIPLES

### (a) Native vegetation should not be cleared if it comprises a high level of biological diversity.

Comments Proposal is not at variance to this Principle

> The vegetation condition of the vegetation is fair to good however it is well represented within the region with 92.3% remaining. This proposal is therefore not at variance with this Principle.

Methodology Site visit - 21/08/07

### (b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.

Comments Proposal is not likely to be at variance to this Principle

> Due to the relatively small clearing areas necessary for this proposal and the high percentage of similar vegetation in surrounding areas, impact to fauna species will be marginal. This proposal is therefore not at

variance with this Principle.

Methodology Site Visit - 21/08/07

DEC Advice - 23/08/07

# (c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.

### Comments Proposal is not likely to be at variance to this Principle

DEC Threatened Flora Database search was conducted and no rare flora was known to exist within the project area. Also based upon site visits, no rare flora species were identified. It is therefore unlikely that the vegetation under application is necessary for significant flora. This proposal is therefore not at variance with this Principle.

### Methodology Site visit - 21/08/07

GIS Database - Declared rare and priority Flora List - DEC - 23/08/07

DEC Advice - 23/08/07

# (d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.

### Comments Proposal is not likely to be at variance to this Principle

There are no records of Threatened Ecological Communities (TEC's) for the area under application. This proposal is therefore not at variance with this Principle.

### Methodology GIS Database:

- Threatened Ecological Communities - DEC 23/08/07

# (e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.

### Comments Proposal is not at variance to this Principle

The vegetation within the project area is representative of Vegetation Association 663 which has 93.2% of the pre-European extent remaining. This vegetation association is therefore of "least concern" for biodiversity conservation. This proposal is therefore not at variance with this Principle.

### Methodology GIS Databases:

- NRM Slip Native Vegetation Associaition

# (f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.

### Comments Proposal is not at variance to this Principle

The area under application does not consist of a watercourse or wetland. This proposal is therefore not at variance with this Principle.

### Methodology Site Visit -21/08/07

DEC's web based Geographical Data Atlas mapping tool

GIS Databases:

- -Hydrolography linear
- -Hydrolographical Catchment -Catchements

# (g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.

### Comments Proposal is not at variance to this Principle

The area under application consist of deep sandy soils and soils with shallow watertable. Given the small clearing footprint and that the surrounding vegetation is in fair to good condition, the proposal is not at variance with this Principle.

### Methodology Site Visit – 21/08/07

GIS Database:

-Acid sulfate soils risk map

# (h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.

### Comments Proposal is not at variance to this Principle

The proposed project is not near any conservation areas and therefore is not at variance with this Principle

**Methodology** Site Visit -21/08/07

# (i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.

### Comments Proposal is not at variance to this Principle

The area under application receives less then 400 mm of annual rainfall. Due to the low rainfall rate, the proposal will not cause deterioration in the quality of surface or underground water and therefore will not be at variance to this Principle.

### Methodology Site visit – 21/08/07

DEC's web based Geographical Data Atlas mapping tool

Rainfall, Mean Annual - BOM

# (j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.

### Comments Proposal is not at variance to this Principle

The soil consists of deep sandy soils and soils with shallow watertable. In addition the area under application receives less then 400 mm of annual rainfall. Due to the nature of the soils and the low rate of rainfall, the proposal will not exacerbate the incidence of flooding and therefore is not at variance with this Principle.

### **Methodology** Site visit -21/08/07

DEC's web based Geographical Data Atlas mapping tool

Rainfall, Mean Annual - BOM

# Planning instrument, Native Title, RIWI Act Licence, EP Act Licence, Works Approval, Previous EPA decision or other matter.

Comments

There is no further requirement for RIWI Act licence, Works Approvals or EP Act Licence for the area under application

Methodology

### **SUBMISSIONS**

### If required have submissions been requested and addressed

Submission Requested from Request Sent (Date) Submission Received Issues Raised / Comments Made (Date)

### ASSESSOR'S RECOMMENDATIONS

List of Principles seriously at variance, at variance or maybe at Recommendation variance

### OFFICER PREPARING REPORT

Crystelle Evangelista (Graduate Environment Officer) Gascoyne Regional Office MRWA

Date: 29/08/07

### **MRWA Vegetation Clearing Assessment Report**

This report has been prepared to assist MRWA in addressing condition 7 "Assessment of Clearing Impacts" under Clearing Permit CPS 818/3.

For guidance on how to complete the form, refer to DEC completed reports (active permits) at <a href="http://203.20.251.100/cps">http://203.20.251.100/cps</a> reports/.

### AREA UNDER ASSESSMENT DETAILS

**Proponent details** 

Proponent's name:
Contacts:

MRWA

Name: Matthew Oswald

Phone: (08) 9941 0713 Fax: (08) 9941 0701

Email: matthew.oswald@mainroads.wa.gov.au

**Property details** 

Property:

RTAA and Section 19 - Minilya-Exmouth Road - SLK 205.1-206.1

Colloquial name:

Area under assessment

Clearing Area (ha)

No. Trees

Method of Clearing

For the purpose of:

Site Plan Attached

0.3 ha

Mechanical

Road Building Materials

Yes

No

Avoidance/Minimise clearing

How have the clearing impacts been minimised?

### **BACKGROUND**

### **Existing environment and information**

The Road Train Assembly Area and Material pits occur within vegetation association No. 663 which is described as "Hummock grasslands, shrub steppe; waterwood over soft spinifex". According to the Native Vegetation Association Data (DEC & DAF) this vegetation association is well represented in the region with 92.3% extent remaining.

Site Visit Undertaken

Yes

No

Fauna / Flora Survey Undertaken

Site Report Attached

Yes

No

Fauna / Flora Survey Report Attached

Yes <mark>No</mark>

Yes

Yes

No

No

Site Photos Attached Yes

No

Other Relevant References Attached

. .

**Vegetation Complex** 

Clearing Description Mechanical Vegetation Condition Very Good - Excellent Comment

### ASSESSMENT OF APPLICATION AGAINST CLEARING PRINCIPLES

(a) Native vegetation should not be cleared if it comprises a high level of biological diversity.

Comments Proposal is not at variance to this Principle

The vegetation condition of the vegetation is very good to excellent; however, it is well represented within the region with 92.3% remaining. This proposal is therefore not at variance with this Principle.

Methodology Site visit - 21/08/07

(c) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.

Comments Proposal is mot likely to be at variance to this Principle

Due to the relatively small clearing areas necessary for this proposal and the high percentage of similar vegetation in surrounding areas, impact to fauna species will be marginal. This proposal is therefore not at

variance with this Principle.

Methodology Site Visit - 21/08/07

DEC Advice - 23/08/07

# (c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.

### Comments Proposal is not likely to be at variance to this Principle

DEC Threatened Flora Database search was conducted and no rare flora was known to exist within the project area. Also based upon site visits, no rare flora species were identified. It is therefore unlikely that the vegetation under application is necessary for significant flora. This proposal is therefore not at variance with this Principle.

### Methodology Site visit - 21/08/07

GIS Database - Declared rare and priority Flora List - DEC - 23/08/07

DEC Advice - 23/08/07

# (d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.

### Comments Proposal is not likely to be at variance to this Principle

There are no records of Threatened Ecological Communities (TEC's) for the area under application. This proposal is therefore not at variance with this Principle.

### Methodology GIS Database:

- Threatened Ecological Communities - DEC 23/08/07

# (e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.

### Comments Proposal is not at variance to this Principle

The vegetation within the project area is representative of Sheppard Vegetation Association 663 which has 93.2% of the pre-European extent remaining. This vegetation association is therefore of "least concern" for biodiversity conservation. This proposal is therefore not at variance with this Principle.

### Methodology GIS Databases:

- NRM Slip Native Vegetation Associaition

# (f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.

### Comments Proposal is not at variance to this Principle

The area under application does not consist of a watercourse or wetland. This proposal is therefore not at variance with this Principle.

### Methodology Site Visit -21/08/07

DEC's we based Geographical Data Atlas mapping tool

GIS Databases:

- -Hydrolography linear
- -Hydrolographical Catchment -Catchements

# (g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.

### **Comments** Proposal is not at variance to this Principle

The area under application consist of deep sands and sandy earth soils. Given the small clearing footprint and that the surrounding vegetation is in good to very good condition, the proposal is not at variance with this Principle.

### Methodology Site Visit – 21/08/07

GIS Database"

-acid sulfate soils risk map

# (h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.

### Comments Proposal is not at variance to this Principle

The proposed project is not near any conservation areas and therefore is not at variance with this Principle

**Methodology** Site Visit -21/08/07

# (i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.

### Comments Proposal is not at variance to this Principle

The area under application receives less then 400 mm of annual rainfall. Due to the low rainfall rate, the proposal will not cause deterioration in the quality of surface or underground water and therefore will not be at variance to this Principle.

### Methodology Site visit – 21/08/07

DEC's web based Geographical Data Atlas mapping tool

Rainfall, Mean Annual - BOM

# (j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.

### Comments Proposal is not at variance to this Principle

The soil consists of deep sands and sandy earth soils. In addition the area under application receives less then 400 mm of annual rainfall. Due to the nature of the soils and the low rate of rainfall, the proposal will not exacerbate the incidence of flooding and therefore is not at variance with this Principle.

### **Methodology** Site visit -21/08/07

DEC's web based Geographical Data Atlas mapping tool

Rainfall, Mean Annual - BOM

# Planning instrument, Native Title, RIWI Act Licence, EP Act Licence, Works Approval, Previous EPA decision or other matter.

Comments

There is no further requirement for RIWI Act licence, Works Approvals or EP Act Licence for the area under application

Methodology

### **SUBMISSIONS**

### If required have submissions been requested and addressed

Submission Requested from Request Sent (Date) Submission Received Issues Raised / Comments Made (Date)

### ASSESSOR'S RECOMMENDATIONS

List of Principles seriously at variance, at variance or maybe at

variance

Recommendation

Clearing within material pit will require a Revegetation Management Plan and Environmental Management Plan under CPS 818/3

### OFFICER PREPARING REPORT

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Date: 29/08/07