

TECHNICAL SERVICES DIRECTORATE

Our Ref: CD/149630/18

Enquiries: Megan Stone

26 11 2018

Department of Water and Environmental Regulation
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Dear Sir/Madam

CLEARING PERMIT APPLICATION – CANNING MILLS ROAD UPGRADE

The City of Armadale (the City) is proposing to undertake road upgrade works on Canning Mills Road, Kelmscott, to facilitate the construction of a Blister Island Median. The need for a Blister Island Median has been primarily driven by local residents who have made complaints about vehicles travelling at excessive speeds down Canning Mills Road. The City has investigated these complaints. Data collected from traffic count meters at the site confirmed resident concerns, identifying vehicles frequently travelling at speeds greater than the sign posted speed limit of 50 kilometres hour.

A total of 0.01 ha of clearing is proposed to be undertaken to facilitate the road upgrade works (Attachment 1). Potential environmental impacts as a result of the proposed clearing have been considered and summarised below.

The proposed clearing is not considered likely to have a significant impact on environmental values.

Environmental Values

Flora and Vegetation

The proposed clearing area has been previously cleared, with limited native tree/shrub species remaining (Plates 1 & 2). The remaining vegetation comprises Marri, over *Acacia* species, over grassy weeds, considered to be in Good to Completely Degraded condition, based on the Keighery (1994) Vegetation Condition Scale.

There are no Commonwealth or State Listed Threatened or Priority flora, or Threatened or Priority Ecological Communities known to occur within the proposed clearing area.





Plate 1: The proposed clearing area, facing north east along Canning Mills Road



Plate 2: The proposed clearing area facing south west along Canning Mills Road

Fauna

Potential Black Cockatoo breeding trees are those that have a suitable nest hollow, or are of a suitable diameter at breast height (DBH) to develop a nest hollow. Suitable DBH is >500 mm for most Eucalypts, >300 mm for salmon gum and wandoo. None of the trees within the proposed clearing area meet the criteria for potential breeding trees. Furthermore, the trees are not considered mature enough or tall enough to be considered suitable for roosting.

The proposed clearing area contains Marri trees, and therefore Black Cockatoo foraging habitat. The proposed clearing of 0.01 ha of Black Cockatoo foraging habitat is highly unlikely to have a significant impact on any Black Cockatoo populations.

The site may provide habitat to local fauna such as Quenda and reptiles, however the proposed clearing area is adjacent to Lloyd Hughes Park, which contains better quality fauna habitat. Therefore it is highly unlikely the minimal clearing proposed to be undertaken at the site will significantly impact local fauna populations. Furthermore, the construction of a blister island will reduce the speed of vehicles travelling along Canning Mills Road and therefore give fauna crossing the road a greater chance of survival.

Wetlands and Watercourses

There are no Commonwealth or State listed wetlands of conservation value within the proposed clearing area, and no watercourses traverse the proposed clearing area.

A tributary of the Canning River is located 80 m from the proposed clearing area, and the Canning River itself is located 560 m downhill from the site. The proposed clearing is minimal, and neither of these watercourses will be directly impacted by the proposed clearing. Furthermore, detailed design will consider management of water run-off.

Conservation Reserves

Lloyd Hughes Park, is adjacent to the proposed clearing area, however all clearing will be contained within the road reserve, ensuring that the conservation area is not negatively impacted by the clearing.

Environmentally Sensitive Areas

There are no environmentally sensitive areas (ESAs) within or adjacent to the proposed clearing area. The nearest ESA is located approximately 3 km north west of the proposed clearing area and will not be impacted by clearing.

Conclusion

Given the above, the City is of the view that the proposed clearing will not be at variance to any of the ten clearing principles, as summarised in Attachment 2.

Please find the Clearing Permit Application Form enclosed (Attachment 3). If you have any further queries in regard to the above, please contact the City's Environment Officer on 9394 5862.

Yours faithfully,

A handwritten signature in blue ink, appearing to read 'M Stone', is positioned above the printed name.

Megan Stone
Environment Officer

Enclosures:

Attachment 1: Proposed design

Attachment 2: Assessment against the ten clearing principles

Attachment 2: Clearing Permit Application Form

Attachment 1: Proposed design

[illegible]

	EXISTING LINE
	EXISTING PAVEMENT
	NEW DRAINAGE
	ADJUSTABLE FILL
	NEW CONCRETE FILL
	NEW ROCK FILLING
	NEW PAVEMENT IN EXISTING CREEK FILL
	NEW CURB OR NEW CONCRETE DRAINAGE
	EXISTING OR PLATE OF EXISTING POWER LINE POWER POLE
	EXISTING UTILITY CABLE, COMMUNICATING POLE
	EXISTING NEW CABLE
	EXISTING WATER LINE
	EXISTING MANHOLE
	EXISTING CHANNEL

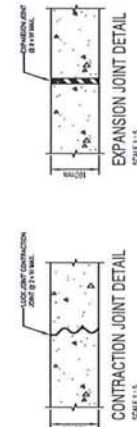


SCHEDULE OF QUANTITIES		
DESCRIPTION	UNIT	QUANTITY
1 ALL 20' x 4" PLANK (CONSTRUCTION)	sf	117
2 TWO 2" x 8" BLACK OAK (1/2")	sf	81
3 FIVE 1/2" x 8" PL	sf	81
4 FIVE 1/2" x 8" PL	sf	117
5 COLOR TRICK AND 1/2"	sf	25
6 TWO 1/2" x 8" PL	sf	25
7 TWO 1/2" x 8" PL	sf	36
8 TWO 1/2" x 8" PL	sf	36
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Point #	Row Description	Division	Houring	Existing
17	GSI	57.188	2.44083.4229	090223.1932
18	GSI	57.545	2.44072.4745	090305.7055
19	GSI	57.920	2.44074.4293	090303.8209
20	GSI	58.691	2.44072.3147	090302.2038
21	GSI	57.624	2.44083.0848	090309.4650
22	GSI	57.271	2.44057.7903	090304.4291

Print Label				
Print #	Row Description	Quantity	Unit Price	Extending
1	M001	53.320	244801.2825	00712.979
2	M001	56.320	244802.1792	00717.912
3	M001	56.848	244803.1901	00722.920
4	M001	57.250	244804.2506	00726.320
5	M001	57.662	244805.1744	00731.460
6	M001	58.271	244806.8378	00735.764
7	M001	58.558	244807.5278	00739.754
8	M001	58.884	244808.1244	00743.115

Point Lake				
Point #	Row Description	Elevation	Monitoring	Locating
9	M002	58.310	2448581.653	03542.7714
10	M002	58.350	2448719.196	03537.2627
11	M002	58.129	2448704.781	03528.1324
12	M002	57.616	2448717.781	03528.1324
13	M002	57.207	2448704.836	03523.1118
14	M002	56.880	2448721.513	03519.5283
15	M002	56.425	2448721.511	03515.2925
16	M002	56.120	2449023.294	03511.2150



PARKS DEPARTMENT APPROVAL
This drawing has been signed and approved for planting / landscaping purposes.

Environmental Officer - Endorsement: _____ Date: / /
Manager / Permit - Approval: _____ Date: / /

CLEARING PERMIT DETAILS

AREA PERMIT NUMBER :	####
TITLE NUMBER :	####/#####
DURATION OF PERMIT :	## MONTH 2018 TO ## MONTH 2020



CANNING MILLS ROAD
KELMSCOTT
PROPOSED BLISTER ISLAND

[illegible][illegible]

Attachment 2: Assessment against the Ten Clearing Principles

Principle Number	Principle Description	Assessment	Outcome
(a)	Native vegetation should not be cleared if it comprises a high level of biological diversity.	The proposed clearing area has been historically cleared for the construction and maintenance of Canning Mills Road. As a result there is limited biodiversity within the proposed clearing area.	The proposal is not at variance with Principle A.
(b)	Native vegetation should not be cleared if it comprises the whole or part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.	There is no Black Cockatoo potential breeding or roosting habitat within the proposed clearing area. The proposed clearing area contains 0.01 ha of potential Black Cockatoo foraging habitat. The proposed clearing at the site is minimal, and the site is adjacent to Lloyd Hughes, which provides better quality habitat, and refuge to local fauna, therefore the proposed clearing is unlikely to have a significant impact on fauna.	The proposal is unlikely to be at variance with Principle B.
(c)	Native vegetation should not be cleared if it includes, or is necessary for the continued existence of rare flora.	There are no known Threatened or Priority flora within or adjacent to the proposed clearing area.	The proposal is not at variance with Principle C.
(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.	There are no known Threatened or Priority Ecological Communities within or adjacent to the proposed clearing area.	The proposal is not at variance with Principle D.
(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.	The vegetation within the proposed clearing area has been historically cleared, and comprises low diversity. The historical native vegetation complex mapped within the proposed clearing area is the Darling Scarp Complex, of which 40.72% of the Pre-european extent remains (source Government of Western Australia. [2018]. 2017 South West Vegetation Complex Statistics. Current as of October 2017).	The proposal is not at variance with Principle E.
(f)	Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.	There are no wetlands or watercourses within or adjacent to the proposed clearing area.	The proposal is unlikely to be at variance with Principle F.
(g)	Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.	A total of 0.01 ha of historically cleared vegetation is proposed to be cleared. Therefore, the land proposed to be cleared is minimal, and already considered to be degraded. The cleared area will be replaced with	The proposal is not at variance with Principle G.

Principle Number	Principle Description	Assessment	Outcome
		hard road surface; and battering, therefore the proposed clearing will not result in land degradation beyond the proposed clearing area.	
(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.	The proposed clearing area is adjacent to Lloyd Hughes Park. Clearing will consider the adjacent conservation reserve to ensure that impacts are contained within the proposed clearing area.	The proposal is not at variance with Principle H.
(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.	<p>There are no wetlands or natural watercourses within the proposed clearing area; however there is an ephemeral stream 80 m north of the proposed clearing area and the Canning River approximately 500 m downhill from the proposed clearing area. Detailed design will consider water runoff management.</p> <p>The groundwater salinity is low. Given the small scale of the proposed clearing, and the fact that the majority of the proposed clearing area has been historically cleared, the proposed clearing is unlikely to result in deterioration of underground water quality.</p>	The proposal is not at variance with Principle I.
(j)	Native vegetation should not be cleared if the clearing of the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.	<p>The proposed clearing area has been historically cleared. Given the minimal proposed clearing area, clearing is not considered likely to cause, or exacerbate the intensity of flooding.</p> <p>The cleared area will be replaced with hard road base.</p> <p>Any potential for localised flooding will be managed through design.</p>	The proposal is not at variance with Principle J.