



WESTERN AUSTRALIA

Ass # 694
Bull # 697
State # 327

MINISTER FOR THE ENVIRONMENT

**STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED
(PURSUANT TO THE PROVISIONS OF THE
ENVIRONMENTAL PROTECTION ACT 1986)**

**UPGRADE & WIDENING OF BROOKTON HIGHWAY
ARMADALE TO BROOKTON (694)**

MAIN ROADS WESTERN AUSTRALIA

This proposal may be implemented subject to the following conditions:

1 Proponent Commitments

The proponent has made a number of environmental management commitments in order to protect the environment.

- 1-1 In implementing the proposal, the proponent shall fulfil the commitments (which are not inconsistent with the conditions or procedures contained in this statement) made in the Consultative Environmental Review and in response to issues raised following public submissions. These commitments are consolidated in Environmental Protection Authority Bulletin 697 as Appendix 1. (A copy of the commitments is attached.)

2 Implementation

Changes to the proposal which are not substantial may be carried out with the approval of the Minister for the Environment.

- 2-1 Subject to these conditions, the manner of detailed implementation of the proposal shall conform in substance with that set out in any designs, specifications, plans or other technical material submitted by the proponent to the Environmental Protection Authority with the proposal. Where, in the course of that detailed implementation, the proponent seeks to change those designs, specifications, plans or other technical material in any way that the Minister for the Environment determines on the advice of the Environmental Protection Authority, is not substantial, those changes may be effected.

3 Realignment between 19 and 20 SLK (Straight Line Kilometres)

Existing pavement and disturbed road edge areas should be used in preference to clearing new areas.

- 3-1 The proponent shall not significantly disturb the creek system and associated heath vegetation between 19 and 20 SLK.
- 3-2 To achieve the objective of condition 3-1, prior to any road works between 19 and 20 SLK, the proponent shall submit a detailed design for the realignment between 19 and 20 SLK, maximising use of the existing road pavement and disturbed road edge.
- 3-3 The proponent shall subsequently construct the realignment according to the design required by condition 3-2.

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4 Management of Forest Hygiene

- 4-1 The proponent shall ensure that dieback disease is not spread by roadworks.
- 4-2 To achieve the objective of condition 4-1, prior to any roadworks, the proponent shall prepare a dieback hygiene management plan to the requirements of the Minister for the Environment on advice of the Department of Conservation and Land Management. This plan shall address, but not be limited to:
- (1) the management of existing infections;
 - (2) the risks of new infections;
 - (3) the management of imported materials (including water); and
 - (4) the location, rehabilitation and monitoring of borrow pits.
- 4-3 The proponent shall implement the dieback hygiene management plan required by condition 4-2.

5 Extraction of Gravel from Borrow Pits

- 5-1 The proponent shall only extract gravel from areas which have similar dieback status to that surrounding the road, and shall not develop new gravel extraction sites in areas of conservation or landscape value within the System 6 nominated areas.
- 5-2 Prior to any road works and to achieve the objectives of condition 5-1, the proponent shall identify new gravel extraction sites in consultation with the Department of Conservation and Land Management. These gravel extraction sites shall be outside System 6 nominated areas, unless the conservation values of these areas can be enhanced through subsequent rehabilitation.
- 5-3 The proponent shall submit to the Environmental Protection Authority a plan of the gravel extraction sites identified according to the requirements of condition 5-2.

6 Proponent

These conditions legally apply to the nominated proponent.

- 6-1 No transfer of ownership, control or management of the project which would give rise to a need for the replacement of the proponent shall take place until the Minister for the Environment has advised the proponent that approval has been given for the nomination of a replacement proponent. Any request for the exercise of that power of the Minister shall be accompanied by a copy of this statement endorsed with an undertaking by the proposed replacement proponent to carry out the project in accordance with the conditions and procedures set out in the statement.

7 Time Limit on Approval

The environmental approval for the proposal is limited.

- 7-1 If the proponent has not substantially commenced the project within five years of the date of this statement, then the approval to implement the proposal as granted in this statement shall lapse and be void. The Minister for the Environment shall determine any question as to whether the project has been substantially commenced. Any application to extend the period of five years referred to in this condition shall be made before the expiration of that period, to the Minister for the Environment by way of a request for a change in the condition under Section 46 of the Environmental Protection Act. (On expiration of the five year period, further consideration of the proposal can only occur following a new referral to the Environmental Protection Authority.)

8 Compliance Auditing

In order to ensure that environmental conditions and commitments are met, an audit system is required.

- 8-1 The proponent shall prepare periodic "Progress and Compliance Reports", to help verify the environmental performance of this project, in consultation with the Environmental Protection Authority.

Procedure

- 1 The Environmental Protection Authority is responsible for verifying compliance with the conditions contained in this statement, with the exception of conditions stating that the proponent shall meet the requirements of either the Minister for the Environment or any other government agency.
- 2 If the Environmental Protection Authority, other government agency or proponent is in dispute concerning compliance with the conditions contained in this statement, that dispute will be determined by the Minister for the Environment.

Kevin Minson MLA
MINISTER FOR THE ENVIRONMENT

2 - NOV 1993

**PROPONENT'S ENVIRONMENTAL MANAGEMENT
COMMITMENTS**

**UPGRADE & WIDENING OF BROOKTON
HIGHWAY (ARMADALE TO BROOKTON)
(694)**

MAIN ROADS WESTERN AUSTRALIA

11. SUMMARY OF ENVIRONMENTAL COMMITMENTS

The upgrading and widening of the Armadale/Ravensthorpe Road (Brookton Highway) in the State Forest will be undertaken by Main Roads, commencing in 1993.

Main Roads will be responsible for the design and construction of the road and for the management of the environmental impacts associated with the project.

For this project the following environmental commitments are made:-

1. The spread of Dieback fungal disease will be controlled by the adoption of approved construction practices and techniques.
ACTION: Construction Engineer
2. To plan, design and construct roadworks to minimise or improve the visual impacts on the areas that the road traverses.
ACTION: Design Engineer, Construction Engineer
3. To minimise cut and fill earthworks to provide a curvilinear flow of the road over the landscape.
ACTION: Design Engineer, Construction Engineer
4. To shape cuts and fills to fine tune landform details for enhanced visual effect on roadsides. Slope rounding, warping, filling and moulding techniques will be employed.
ACTION: Construction Engineer
5. To retain rock outcrops and stable boulders within road cuts where it can be done without creating a hazard for vehicles. Remove loose boulders, stockpile and re-positioned in key locations to enhance slopes.
ACTION: Design Engineer, Construction Engineer
6. Road cuts through solid bed-rock will be left with irregular rough textured faces.
ACTION: Construction Engineer
7. To incorporate undulating clearing limits and edge feathering techniques. When clearing roadside vegetation, felled vegetation will be removed and buried in approved spoil sites.
ACTION: Construction Engineer
8. To revegetate roadside areas disturbed by earthworks with appropriate plantings before or soon after construction operations are completed.
ACTION: Road Verge Officer
9. To stockpile topsoil removed during construction and replace on cut and fill batters to aid revegetation.
ACTION: Construction Engineer

10. Plants selected for revegetation shall represent hardy species well adapted to survival in the soil and climatic conditions of the site.
ACTION: Road Verge Officer
11. Planting of native species shall be positioned both inside and outside the clearing limit and the species selected to enhance transitional blending and feathering of existing vegetation.
ACTION: RoadVerge Officer
12. Exposed end sections of culverts and drain pipes will be formed, coloured or screened with plantings to blend with the landscape.
ACTION: Design Engineer, Construction Engineer, Road Verge Officer
13. To design guardrails with colours and materials that will be visually compatible with their surroundings. Staining, colouring or dulling solutions will be used to reduce colour contrasts.
ACTION: Design Engineer, Construction Engineer
14. To select signs to provide clear legible information and be designed to otherwise enhance the scenic quality of the roadside. Appropriate scale, colours and materials will be used. Excessive signage and widely divergent sign construction standards will be avoided.
ACTION: Technical Officer
15. To locate major interpretation signs at appropriate roadside rest areas
ACTION: Technical Officer
16. To utilise rock materials removed from solid rock cuts in the construction of retaining walls, bridges and visitor facilities where possible.
ACTION: Design Engineer, Construction Engineer
17. To minimise vegetation clearing limits to retain existing tree and shrub cover as close as possible to the roadway.
ACTION: Construction Engineer
18. To protect vegetation from damage by construction equipment and blasting.
ACTION: Construction Engineer
19. To disperse downslope water drainage at frequent and even intervals to avoid interruptions and concentrations of water flows due to earthworks (which could damage or kill downslope vegetation).
ACTION: Design Engineer, Construction Engineer
20. To make every effort to protect endangered or rare species of flora and fauna.
ACTION: Construction Engineer
21. Construction techniques will not disturb existing Aboriginal sites and appropriate measures will be undertaken to identify and protect any new sites found during the construction period.
ACTION: Design Engineer, Construction Engineer

22. No camps will be erected in the State Forest.
ACTION: Construction Engineer

23. To diminish the visual impact of borrow pits by carefully selecting their locations and once operations are complete, the borrow pits and their associated access roads will be rehabilitated.
ACTION: Materials Manager, Construction Engineer

24. To control potential scour and erosion problems by implementing preventative measures.
ACTION: Design Engineer, Construction Engineer