



Ass # 836

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State # 364

WESTERN AUSTRALIA

MINISTER FOR THE ENVIRONMENT

**STATEMENT TO AMEND CONDITIONS APPLYING TO A PROPOSAL
(PURSUANT TO THE PROVISIONS OF SECTION 46 OF THE
ENVIRONMENTAL PROTECTION ACT 1986)**

PROPOSAL: QUICKLIME PLANT AND LIMESTONE QUARRY,
NOWERGUP NEAR WANNEROO (491/836)

CURRENT PROPONENT: SWAN PORTLAND CEMENT LTD

CONDITIONS SET ON: 5 JUNE 1992

Conditions 1 and 2 are amended to read as follows:

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, including the modifications to increase the production capacity of the quicklime plant to 460,000 tonnes per annum and the rate of limestone quarrying to approximately 1,000,000 tonnes per annum, as reported on in Environmental Protection Authority Bulletin 733, the proponent shall fulfil the commitments made in the Consultative Environmental Review and included in Environmental Protection Authority Bulletin 584 as Appendix 1; provided that the commitments are not inconsistent with the conditions or procedures contained in this statement. (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 the conditions in this amended statement, 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.

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The following condition and procedure are inserted following condition 7:

8 Compliance Auditing

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

- 8-1 To help verify environmental performance, the proponent shall prepare periodic Progress and Compliance Reports, in consultation with the Department of Environmental Protection.

Procedure

- 1 The Department of Environmental Protection 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 Department of Environmental Protection, 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

31 AUG 1991

Proponent's Commitments

PROPOSED QUICKLIME PLANT AND LIMESTONE QUARRY AT NOWERGUP, NEAR WANNEROO (491)

Swan Portland Cement Ltd

The proponent has made the following environmental commitments:

1. All solid refuse and construction material wastes would be removed from site and disposed of in accordance with the requirements of the City of Wanneroo.
2. Where practicable, native vegetation would be retained during site clearing operations within the revised plant site.
3. Where practicable, vegetation and topsoil cleared during the construction phase would be used in the rehabilitation of disturbed areas within the revised plant site and the quarry.
4. Dust suppression measures, including application of water from tankers, would be used to minimize dust generation during site preparation and construction activities.
5. All construction machinery would be fitted with appropriate noise suppression devices. Construction noise levels would comply with the requirements of the Department of Occupational Health, Safety and Welfare. In addition, noise levels would comply with the allowable community noise levels as set out in the Noise Abatement (Neighbourhood Annoyance) Regulations, 1979.
6. Swan would undertake an examination of practical means of reducing the demand for water through recycling and improvements in process technology.
7. Areas of the leases containing populations of *E. argutifolia* would not be quarried and would be protected from damage to the satisfaction of the EPA.
8. Swan would ensure that no physical damage to any population of *E. argutifolia* would occur as a result of its quarrying or associated operations, and would endeavour to prevent damage from other causes. A quarry management plan addressing the management of *E. argutifolia* and other flora, water, and rehabilitation techniques would be prepared in consultation with CALM to the satisfaction of the Department of Mines and the EPA.
9. Quarrying would not be undertaken within 10m of any stem, plant or population of *E. argutifolia*. No batter slope steeper than 1:3 would be established within 80m of any stem, plant or population, apart from the access road near Population C.
10. All areas within 80m of the *E. argutifolia* populations, apart from the access road near Population C, would be fully rehabilitated in order to re-establish indigenous species on the batter slopes. Rehabilitation would commence within 12 months of the cessation of quarrying in the area, and would be conducted as described in Section 6.3.10 of the CER.

11. A 1.5m barrier fence would be constructed around each *E. argutifolia* population, to restrict vehicular movement in the area. Fencing would be erected at least 1 year before quarrying approached within 200m of any population of *E. argutifolia*.
12. Swan would fund electrophoretic studies to establish the genetic relationship of individual plants within and between populations of *E. argutifolia*.
13. As the subsequent populations of *E. argutifolia* would not be approached by quarrying for a considerable time after Population D, it would be possible to assess the results of long-term monitoring of the first population. Should it then be considered necessary, management measures could be revised in consultation with CALM.
14. Rehabilitation of the quarry area would be progressively undertaken to the satisfaction of the EPA, as detailed in Section 6.3.10. of the CER. Rehabilitation would essentially involve the backfilling of silica reject material and the spreading of topsoil over the quarry floor and slopes. Topsoil may be supplemented by the placement of light brush from surrounding vegetation. Consideration would be given to the establishment from seedling of *E. argutifolia* in the areas adjacent to existing populations, but this would not be undertaken without the agreement of CALM.
15. A monitoring programme meeting the requirements of the EPA would be established to monitor the rehabilitation of the quarry area, including the populations of *E. argutifolia*. Details of the monitoring programme are provided in Section 7 and, in particular, Table 7.1 of the CER.
16. The biological waste treatment system for domestic effluent would be constructed and operated in accordance with the appropriate regulations of the *Health Act, 1911*, and to the satisfaction of the EPA.
17. The plant would incorporate a wide range of safeguards such as fire protection, instrument monitoring, back-up systems and provisions for emergency shut-downs. Where appropriate, personnel involved in the operation of the quicklime plant would be issued with protective clothing and safety equipment. The City of Wanneroo and the Bush Fires Board would be consulted for advice on the prevention and suppression of fires.
18. Gibbs Road would no longer be used by the proponent to transport limestone to Rivervale, once the Pinjar lease quarry and quicklime plant became operational.
19. In the short term, and until access between the revised plant site and Flynn Drive has been constructed, Swan is prepared to use Wattle Avenue East, Pinjar Road and Flynn Drive to Wanneroo Road for the transportation of quicklime if necessary.
20. Prior to the development of the North Wesco lease, negotiations would be held with the City of Wanneroo concerning possible temporary diversion of Wesco Road and other measures to avoid conflict with public road users.
21. An electrostatic precipitator would be installed to ensure the levels of suspended particulates from the quicklime plant were below the limit of 100 mg/Nm³ recommended by the National Health and Medical Research Council.
22. Measures to be implemented at the quicklime plant to prevent dust generation would include the installation of mist water sprays and dust collection units, covering of conveyors and limestone stockpiles, sealing of internal roads, and retention of vegetation (where practicable) within the plant site.
23. When considered necessary, water from mobile tankers would be applied to the quarry and haul roads to reduce dust levels.
24. A monitoring programme would be established to monitor the air quality (particulate load and gases, and total suspended particulates). Details of the monitoring programme are provided in Section 7 and, in particular, Table 7.1 of the CER.

25. Oil traps and impermeable bunding would be used to contain spills of fuels, oils, lubricants and chemicals. Oil trap sludges, spent containers and waste lubricants would be recycled or disposed of in accordance with the requirements of the City of Wanneroo and the Health Department.
26. A monitoring programme would be established to monitor groundwater, the details of which are provided in Section 7 of the CER and in Response 2.2.
27. All potential noise-generating equipment associated with the quicklime plant would incorporate effective sound-proofing measures, such as mufflers and a range of enclosures, to minimize noise emissions.
28. Quarrying would not be undertaken outside daylight hours, except in exceptional circumstances (refer Response 5.6).
29. All mobile equipment, such as dozers and trucks, would be fitted with silencers to reduce tonal and impulsive noise emissions.
30. Quarrying would not be undertaken any closer than 200m from the westernmost boundary of the Gibbs lease.
31. A monitoring programme would be established to monitor noise emissions resulting from quarrying activities and quicklime plant operations. The details of the programme are provided in Section 7 of the CER.
32. Swan would meet all appropriate noise emission requirements set by the EPA.
33. All external lighting would be screened and would be directed inwards to minimize interference with residents.
34. Specific details of decommissioning are yet to be formulated; such details would be developed nearer to the end of the plant life. The plant site would be left in an unpolluted, stable, free-draining, vegetated condition, free from potential hazards and to the satisfaction of the EPA.
35. Social impact monitoring would be undertaken to address issues raised by members of the public. Details of this monitoring, together with the process through which these issues would be addressed, are provided in Section 7 of the CER and Response 8.7.