



MINISTER FOR THE ENVIRONMENT;  
LABOUR RELATIONS

Statement No.

000550

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

**MINERAL SANDS MINING AND RUBBISH TIP RELOCATION  
RESERVE 31900, YARLOOP, SHIRE OF HARVEY**

**Proposal:**

The mining of mineral sands and rubbish tip relocation within Reserve 31900 (mining area 5.5 hectares; 2.7 hectares of native vegetation to be cleared - total Reserve area 19.7 hectares). The proposal also includes;

- rehabilitation of Reserve 31900;
- purchase and donation of another piece of nearby land of 9.1hectares (portion of Location 826) for addition to the Conservation Estate; and
- fencing of Reserves 31900, 31901, A23307 and the land purchase area.

The project area is located within the Shire of Harvey, approximately 2 kilometres south-east of the township of Yarloop. Reserve 31900 is vested in the Shire of Harvey for sand extraction and rubbish disposal. The proposal is documented in schedule 1 of this statement.

**Proponent:** Cable Sands (WA) Pty Ltd

**Proponent Address:** Koombana Drive, North Shore, Bunbury WA 6230

**Assessment Number:** 1326

**Report of the Environmental Protection Authority: Bulletin 977**

The proposal to which the above report of the Environmental Protection Authority relates may be implemented subject to the following conditions and procedures:

**Procedures**

**1 Implementation**

- 1-1 Subject to these conditions and procedures, the proponent shall implement the proposal as documented in schedule 1 of this statement.
- 1-2 Where the proponent seeks to change any aspect of the proposal as documented in schedule 1 of this statement in any way that the Minister for the Environment determines, on advice of the Environmental Protection Authority, is substantial, the proponent shall refer the matter to the Environmental Protection Authority.

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- 1-3 Where the proponent seeks to change any aspect of the proposal as documented in schedule 1 of this statement in any way that the Minister for the Environment determines, on advice of the Environmental Protection Authority, is not substantial, those changes may be effected.

## **2 Proponent Commitments**

- 2-1 The proponent shall implement the consolidated environmental management commitments documented in schedule 2 of this statement.
- 2-2 The proponent shall implement subsequent environmental management commitments which the proponent makes as part of the fulfilment of conditions and procedures in this statement.

## **3 Proponent**

- 3-1 The proponent for the time being nominated by the Minister for the Environment under section 38(6) or (7) of the Environmental Protection Act 1986 is responsible for the implementation of the proposal until such time as the Minister for the Environment has exercised the Minister's power under section 38(7) of the Act to revoke the nomination of that proponent and nominate another person in respect of the proposal.
- 3-2 Any request for the exercise of that power of the Minister referred to in condition 3-1 shall be accompanied by a copy of this statement endorsed with an undertaking by the proposed replacement proponent to carry out the proposal in accordance with the conditions and procedures set out in the statement.
- 3-3 The proponent shall notify the Department of Environmental Protection of any change of proponent contact name and address within 30 days of such change.

## **4 Commencement**

- 4-1 The proponent shall provide evidence to the Minister for the Environment within five years of the date of this statement that the proposal has been substantially commenced.
- 4-2 Where the proposal has not been substantially commenced within five years of the date of this statement, the approval to implement the proposal as granted in this statement shall lapse and be void. The Minister for the Environment will determine any question as to whether the proposal has been substantially commenced.
- 4-3 The proponent shall make application to the Minister for the Environment for any extension of approval for the substantial commencement of the proposal beyond five years from the date of this statement at least six months prior to the expiration of the five year period referred to in conditions 4-1 and 4-2.
- 4-4 Where the proponent demonstrates to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority that the environmental parameters of the proposal have not changed significantly, then the Minister may grant an extension not exceeding five years for the substantial commencement of the proposal.

## **5 Compliance Auditing**

- 5-1 The proponent shall submit periodic Compliance Reports, in accordance with an audit programme prepared in consultation between the proponent and the Department of Environmental Protection.
- 5-2 Unless otherwise specified, the Chief Executive Officer of the Department of Environmental Protection is responsible for assessing compliance with the conditions, procedures and commitments contained in this statement and for issuing formal, written advice that the requirements have been met.
- 5-3 Where compliance with any condition, procedure or commitment is in dispute, the matter will be determined by the Minister for the Environment.

## **Conditions**

### **6 Environmental Management System**

- 6-1 In order to manage the environmental impacts of the project, and to fulfil the requirements of the conditions and procedures in this statement, prior to ground-disturbing activities, the proponent shall demonstrate to the requirements of the Environmental Protection Authority on advice of the Department of Environmental Protection that there is in place an environmental management system which includes the following elements:
- 1 An environmental policy and corporate commitment to it;
  - 2 Mechanisms and processes to ensure:
    - (1) planning to meet environmental requirements;
    - (2) implementation and operation of actions to meet environmental requirements;
    - (3) measurement and evaluation of environmental performance; and
  - 3 Review and improvement of environmental outcomes.
- 6-2 The proponent shall implement the environmental management system referred to in condition 6-1.

### **7 Rehabilitation**

- 7-1 To ensure that rehabilitation is optimised, consistent with the long term objective to incorporate Reserve 31900 into the Conservation Estate, the proponent shall develop a Mining and Rehabilitation Plan. This plan shall be developed to the requirements of the Environmental Protection Authority (including any requirement of the Environmental Protection Authority for independent expert advice) and on advice of the Department of Environmental Protection, the Department of Conservation and Land Management, the Water and Rivers Commission and the Department of Minerals and Energy.

This Plan shall address:

1. baseline vegetation survey;
2. optimal clearing techniques;
3. mining strategy that integrates the mining and rehabilitation schedules, including promptly re-establishing the soil profile and groundwater hydrology;

4. weed management;
5. fencing or otherwise clearly marking the edge of the mining area;
6. dieback management, including the use of dieback-resistant stock;
7. propagation strategy, including seed collection, maximising the direct return of topsoil, direct seeding, planting of seedlings, smoke treatment and translocation;
8. development of specific rehabilitation performance criteria;
9. a monitoring programme to determine rehabilitation success;
10. contingency plans in the event that rehabilitation is not likely to meet, or does not meet performance criteria; and
11. allocation of resources (equipment, appropriately trained and experienced personnel and independent expert advice).

All components of this Plan shall be prepared prior to ground-disturbing activities.

- 7-2 The proponent shall implement the Mining and Rehabilitation Plan required by condition 7-1 to achieve the rehabilitation performance criteria referred to in condition 7-1 to the requirements of the Environmental Protection Authority.
- 7-3 Prior to acceptance by the Environmental Protection Authority, the proponent shall make the Mining and Rehabilitation Plan required by condition 7-1 publicly available, to the requirements of the Environmental Protection Authority.

## **8 Yarloop Rubbish Tip Decommissioning Plan**

- 8-1 Prior to ground-disturbing activities, the proponent shall prepare a Rubbish Tip Decommissioning Plan to the requirements of the Environmental Protection Authority on advice of the Department of Environmental Protection, the Department of Conservation and Land Management, the Water and Rivers Commission and the Health Department of WA. The Plan shall be prepared in consultation with the Shire of Harvey.

This Plan shall address:

1. regulatory requirements;
2. respective responsibilities of the proponent and the Shire of Harvey;
3. tip closure;
4. relocation of all of the rubbish;
5. leachate control, including adequate impermeable containment and capping;
6. odour management;
7. site rehabilitation;
8. groundwater monitoring; and
9. contingency plans for disposal of any materials requiring disposal to landfill Classes III or IV (Department of Environmental Protection, 1996)<sup>1</sup> discovered in the tip.

- 8-2 The proponent shall implement the Rubbish Tip Decommissioning Plan required by condition 8-1.

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<sup>1</sup> Department of Environmental Protection, 1996. Landfill Waste Classification and Waste Definitions. DEP, Perth.

8-3 The proponent shall make the Rubbish Tip Decommissioning Plan required by condition 8-1 publicly available, to the requirements of the Environmental Protection Authority.

## 9 Decommissioning Plan

9-1 At least six months prior to decommissioning, the proponent shall prepare a Decommissioning Plan to ensure that the Reserve is suitable for inclusion in the surrounding Yarloop Reserves System (see schedule 1), to the requirements of the Environmental Protection Authority on advice of the Department of Environmental Protection, the Department of Conservation and Land Management and the Department of Minerals and Energy.

This Plan shall address:

- 1 removal or, if appropriate, retention of plant and infrastructure;
  - 2 identification of contaminated areas, including provision of evidence of notification to relevant statutory authorities.
- 9-2 The proponent shall implement the Decommissioning Plan required by condition 9-1 until such time as the Minister for the Environment determines that decommissioning and / or rehabilitation is / are complete.
- 9-3 The proponent shall make the Decommissioning Plan required by condition 9-1 publicly available, to the requirements of the Environmental Protection Authority.

CHERYL EDWARDES (Mrs) MLA  
MINISTER FOR THE ENVIRONMENT

15 JUL 2000

## Schedule 1

### The Proposal (1326)

The mining of mineral sands and rubbish tip relocation within Reserve 31900 (mining area 5.5 hectares; 2.7 hectares of native vegetation to be cleared - total Reserve area 19.7 hectares). The proposal also includes;

- rehabilitation of Reserve 31900;
- purchase and donation of another piece of nearby land of 9.1 hectares (portion of Location 826) for addition to the Conservation Estate as shown in Figure 2; and
- fencing of Reserves 31900, 31901, A23307 and the land purchase area.

The project area is located within the Shire of Harvey, approximately 2 kilometres south-east of the township of Yarloop. Reserve 31900 is vested in the Shire of Harvey for sand extraction and rubbish disposal.

### Key Characteristics Table

Element	Description
Life of project (mine production)	10-11 months approximately of mining (this does not include rehabilitation).
Size of ore body	114,000 tonnes of heavy mineral concentrate approximately.
Area of disturbance (including access)	5.5 hectares approximately (2.7 hectares of remnant vegetation and 2.8 hectares of disturbed rubbish tip and sand excavation areas). The 2.7 hectares of remnant vegetation to be cleared consists of Floristic Community Types 3b and 20b (Jarrah-Marri and Banksia/Jarrah woodlands).
Major components - waste dump, infrastructure (water supply, roads, etc)	Use existing facilities and infrastructure (water and power) outside Reserve 31900. No additional infrastructure will be required.
Water supply - source  - maximum annual requirement	Existing bores located on Brockman Road approx 4 kilometres west of the mine site, Waterous Formation Creek and South West Irrigation system. Approximately 803 Megalitres per annum.
Rehabilitation methods	Mined areas backfilled and regraded. Remaining timber used for habitat logs. Baseline vegetation survey. Weed and dieback management. A propagation strategy including, seed collection, direct return of topsoil to be maximised, direct seeding, smoke treatment and translocation. Development of specific rehabilitation performance criteria, a monitoring programme and contingency plans. Allocation of adequate resources (equipment, appropriately trained and experienced personnel and independent expert advice).
Heavy mineral concentrate transport - truck movements	Utilising existing roads, no additional trucking anticipated over and above that associated with existing operation.

Rubbish Tip - relocation of existing rubbish to sand excavation area	The existing rubbish tip is located in Area 3 (Figure 1). All of the rubbish will be excavated and reburied in Area 2 (the existing sand excavation area) and capped. It will form part of the rehabilitation programme for the entire Reserve.
Land Purchase - proposed vesting in the NPNCA and management by CALM	Inclusion of 9.1 hectares (portion of Location 826) in the Conservation Estate (Figure 2). The area contains Floristic Community Type 20b (slender banksia and/or Jarrah woodlands).
Installation of fences	Reserves 31900, 31901, A23307 and land purchase area to be fenced to restrict access to these areas (Figure 2).
End landuse for Reserve 31900 (intended)	Reserve 31900 will be vested in the NPNCA for conservation purposes and managed by CALM.

### Abbreviations

CALM = Department of Conservation and Land Management  
 NPNCA = National Parks and Nature Conservation Authority

### Figures

Figure 1 - Areas within Reserve 31900.

Figure 2 - Vegetated land in the vicinity of Reserve 31900 (including Reserves 31901, A23307 and 16681 and, Bunnings Location 826 - land purchase area).

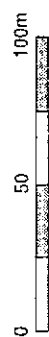
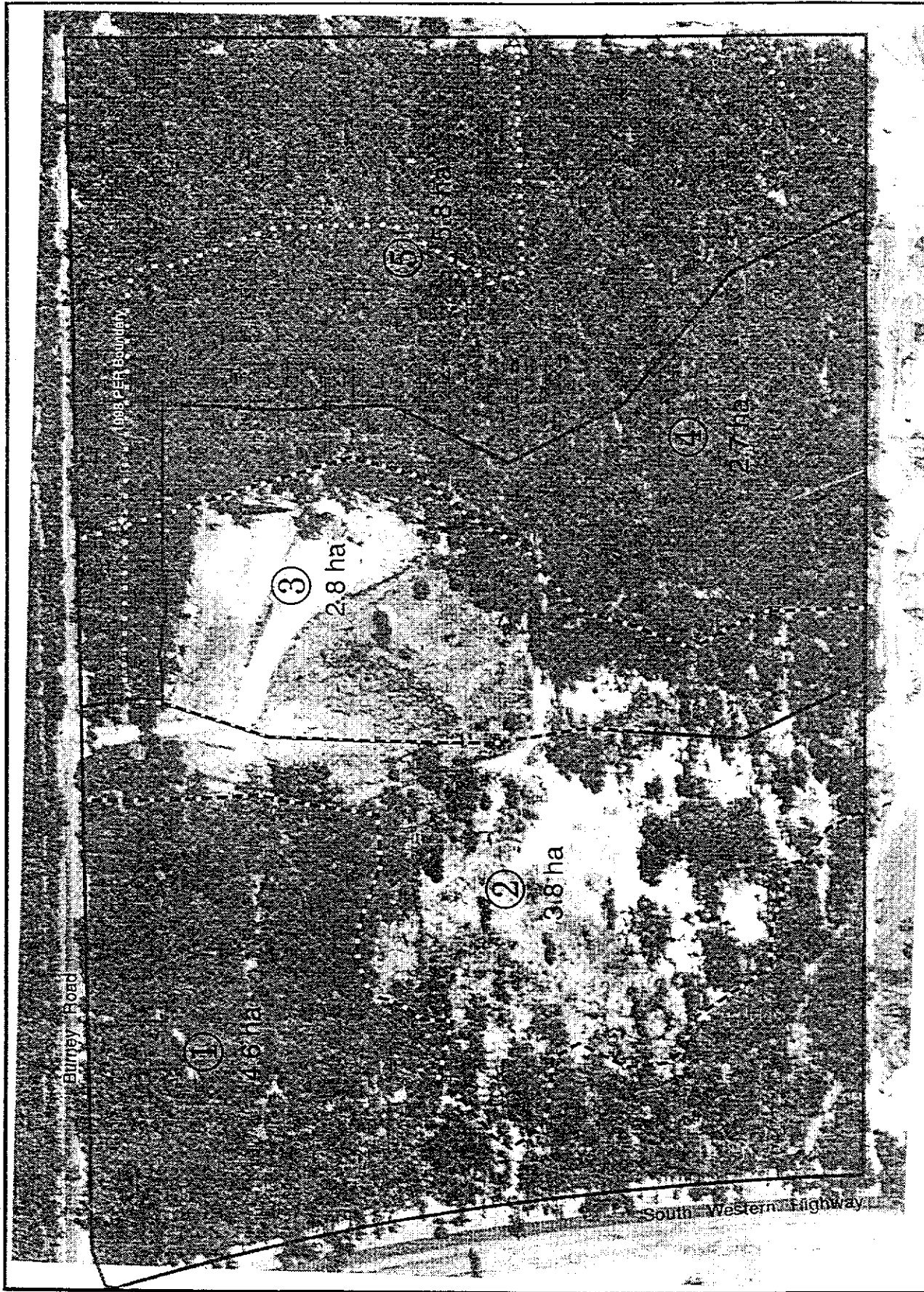


Figure 1 Areas within Reserve 31900



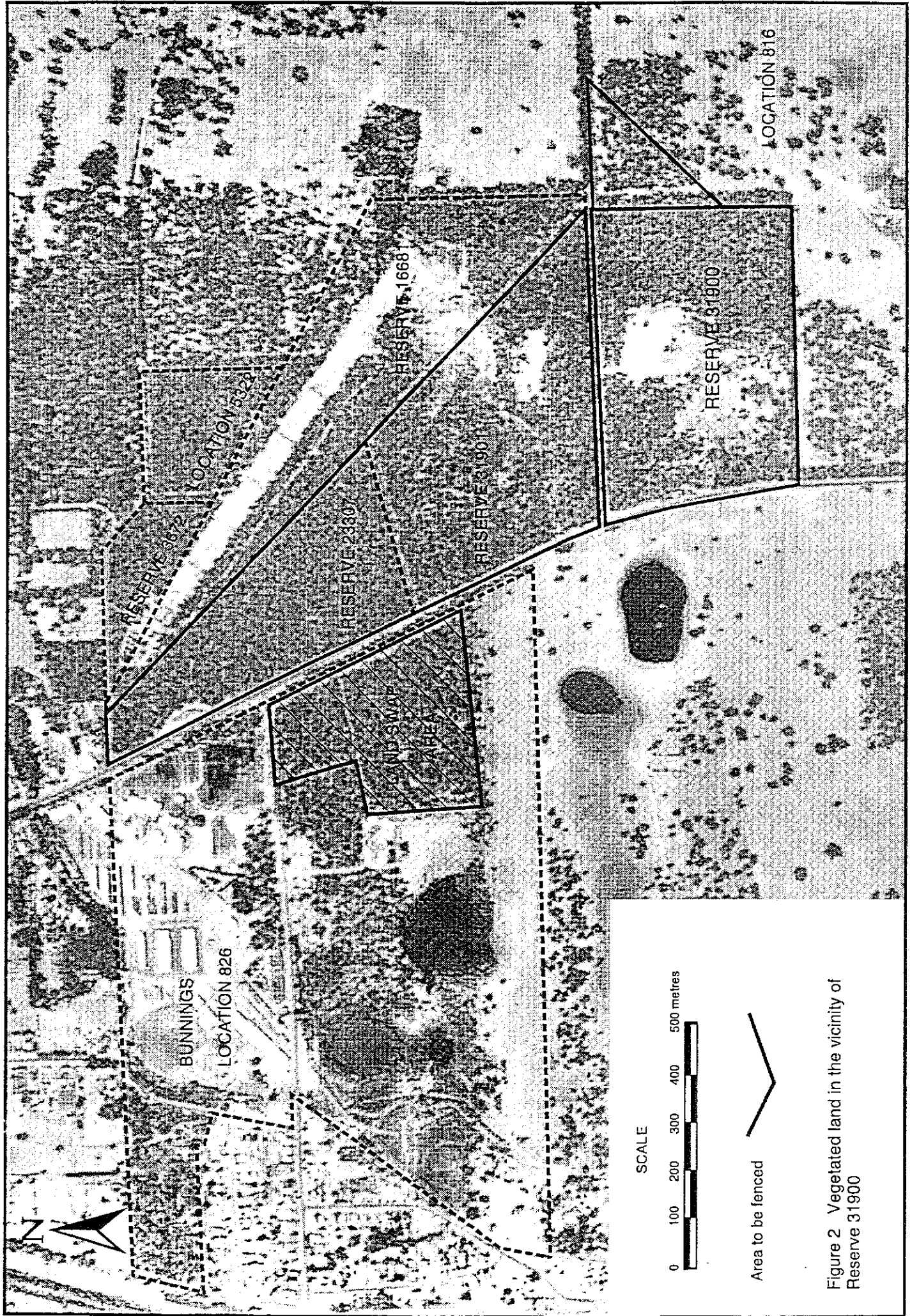


Figure 2 Vegetated land in the vicinity of Reserve 31900

**Proponent's Consolidated Environmental Management  
Commitments**

MINERAL SANDS MINING & RUBBISH TIP  
RELOCATION,  
RESERVE 31900, YARLOOP, SHIRE OF HARVEY  
(Assessment Number 1326)

CABLE SANDS (WA) PTY LTD

*Proponent's Environmental Management Commitments – Mineral Sands Mining & Rubbish Tip Relocation, Reserve 31900, Yarloop (1326)*

Where relevant, these commitments include those made for the existing operations.

Commitment (Who/What)	Objective (Why)	Action (How/where)	Timing (When)	Whose Advice	Measurement Compliance Criteria
1 Incorporate environmental aspects of Reserve 31900 into the Yarloop Environmental Management and Monitoring Plan (EMMP)	To ensure environmental management is in accordance with EPA objectives and continually improves	Incorporate into existing EMMP	Prior to construction and throughout mine life	DME	Submission of modified EMMP
2 Report environmental performance on a 6-monthly basis.	To inform Government on environmental performance of the proposal	1. Preparation of 6-monthly environmental performance reports. 2. Make report publicly available.	Operation and decommissioning		Receipt of 6-monthly report
3 Locate infrastructure for mining and primary processing on cleared land outside Res 31900.	To minimise impact on vegetation in Reserve 31900.	Incorporate in Mine Planning	Prior to and during mining		Infrastructure not present on reserve
4 Acquire the 9.1ha part of Location 826 indicated in Figure 3 for incorporation in the conservation estate.	To increase security of Forrestfield Complex	By acquiring part of Location 826	Prior to clearing native vegetation within Reserve 31900		Letter from proponent
5 Fence Reserves A23307, 31900, 31901 and the land purchase area to restrict access to these areas.	To reduce threatening processes in these reserves	The three reserves and the land purchase area	During mining (reserves A23307, 31901 and the land purchase area) ; and At completion of mining (reserve 31900)	CALM	Advice with environmental performance reports
6 Retain and fence the area of overstorey on the Loc 816 immediately east of the reserve and facilitate growth of native understorey species.	To provide a buffer to conservation values of Reserves 31900 and 31901	Within fenced area of Loc 816	During mining		Advice with environmental performance reports
7 Maintain vegetation clearing to a practical minimum.	To minimise impact on vegetation in Reserve 31900	Within the reserve	During mining	CALM	Rehabilitation Plan meets CALM requirements
8 Preserve as much seed and plant material as practical for rehabilitation	To facilitate rehabilitation success	Within the reserve	Prior to mining	CALM	Rehabilitation Plan meets CALM requirements
9 Rehabilitate unmined degraded areas in Reserve 31900 west of the mining areas.	To consolidate values of Reserve 31900	Incorporate with Rehabilitation Plan	During mining	CALM	Rehabilitation Plan meets CALM requirements
10 Retain a strip of native vegetation along the northern boundary of Reserve 31900.	To provide a buffer and fauna corridor between Res 31900 and 31901	Incorporate in Mine Planning	Prior to mining	CALM	Rehabilitation Plan meets CALM requirements
11 Implement the noise management plan	To ensure appropriate management of noise issues	For all Yarloop Mining including Reserve 31900	Prior to Mining		Advice with environmental performance reports
12 Wet haulage roads with a water cart as required	To minimise dust emissions	Within and in the vicinity of the reserve	Throughout mine life		Advice with environmental performance reports

Commitment (Who/What)	Objective (Why)	Action (How/where)	Timing (When)	Whose Advice	Measurement Compliance Criteria
13 Stockpiles will be vegetated as far as practicable to prevent dust emissions.	To minimise dust emissions	Within and in the vicinity of the reserve	Throughout mine life		Advice with environmental performance reports
14 Keep disturbed areas to a minimum.	To minimise dust emissions	Within and in the vicinity of the reserve	Throughout mine life		Advice with environmental performance reports
15 Develop a groundwater management plan	To ensure appropriate management of water issues including abstraction	1. Around minesite and borefield area. 2. Make the plan publicly available.	Prior to Mining.	WRC	WRC approval of Plan
16 Implement a groundwater management plan	To ensure appropriate management of water issues including abstraction	Around minesite and borefield area	Throughout minelife	WRC	Meets EPA requirements. Advice with environmental performance reports
17 Enhance or maintain vegetation screens	To minimise impacts on visual amenity	Around mining area	Throughout mine life		Advice with environmental performance reports
18 Cease production in any area where Aboriginal sites are discovered and consult with the Dept of Aboriginal Affairs.	To comply with the Aboriginal Heritage Act 1972	Within the mining area	Throughout mine life	AAD	Letter from AAD
19 Prepare a Management Plan for Decommissioning of the Yarloop Rubbish Tip	To ensure appropriate management of rubbish tip	Within mining area	Prior to Mining	Shire of Harvey	Letter form Shire and from DEP
20 Implement the Management Plan for Decommissioning of the Yarloop Rubbish Tip	To ensure appropriate management of rubbish tip	Within mining area	Throughout minelife	Shire of Harvey	Advice with environmental performance reports
21 Prepare a programme for mining and rehabilitation of Reserve 31900 in consultation with CALM and DEP. The programme will include the requirement to re-estate the final landform, consistent with the surrounding terrain, within 12 months of completion of mining of the orebody	To ensure appropriate rehabilitation of mined areas and degraded areas	Throughout Reserve 31900	Prior to Mining	CALM	Letter from CALM
22 Implement the mining and rehabilitation programme	To ensure appropriate rehabilitation of mined areas and degraded areas	Throughout Reserve 31900	Throughout minelife	CALM	Advice with environmental performance reports

Note: Figure numbers in this table refer to figures in the Proponent's environmental review document of May, 2000.

### 1.1.1 Abbreviations

AAD = Aboriginal Affairs Department  
CALM = Department of Conservation and Land Management  
DEP = Department of Environmental Protection  
DME = Department of Minerals and Energy  
EPA = Environmental Protection Authority  
WRC = Water and Rivers Commission