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Published on: 13 March 2009

Statement No.791

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

40 MEGAWATT BIOMASS POWER PLANT - FOREST LEASE NO. 1994/97
APPROXIMATELY 10 KILOMETRES SOUTH-WEST OF MANJIMUP
SHIRE OF MANJIMUP

Proposal: The proposal involves the construction and operation of a 40 Megawatt power plant fuelled by up to 380,000 tonnes (+/-10%) per annum of *Eucalyptus globulus* (Bluegum) and pine plantation wastes, a pipeline for water supply, and a power line connecting the power plant to the sub-station.

Proponent: Western Australia Biomass Pty Ltd

Proponent Address: Level 25, Waterfront Place, 1 Eagle Street,
BRISBANE QLD 4000

Assessment Number: 1707

Report of the Environmental Protection Authority: Report 1294

The proposal referred to in the above report of the Environmental Protection Authority may be implemented. The implementation of that proposal is subject to the following conditions and procedures:

1 Proposal Implementation

1-1 The proponent shall implement the proposal as assessed by the Environmental Protection Authority and described in schedule 1 of this statement subject to the conditions and procedures of this statement.

Published on:

2 Proponent Nomination and Contact Details

- 2-1 The proponent for the time being nominated by the Minister for the Environment under sections 38(6) or 38(7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal.
- 2-2 The proponent shall notify the Chief Executive Officer (CEO) of the Department of Environment and Conservation of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.

3 Time Limit of Authorisation

- 3-1 The authorisation to implement the proposal provided for in this statement shall lapse and be void within five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.
- 3-2 The proponent shall provide the CEO of the Department of Environment and Conservation with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.

4 Compliance Reporting

- 4-1 The proponent shall prepare and submit a compliance assessment plan to the satisfaction of the Chief Executive Officer of the Department of Environment and Conservation, and in consultation with the Shire of Manjimup, prior to implementation of the proposal.
- 4-2 The proponent shall implement and maintain, to the satisfaction of the Chief Executive Officer of the Department of Environment and Conservation, the compliance assessment plan required by condition 4-1. The compliance assessment plan shall indicate:
 - 1 the frequency of compliance reporting;
 - 2 the approach and timing of compliance assessments;
 - 3 the retention of compliance assessments;
 - 4 reporting of potential non-compliances and corrective actions taken;
 - 5 the table of contents of compliance reports; and
 - 6 public availability of compliance reports.

- 4-3 The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.
- 4-4 The proponent shall retain reports of all compliance assessments described in the compliance assessment plan required by condition 4-1 and shall make those reports available when requested by the Chief Executive Officer of the Department of Environment and Conservation.
- 4-5 The proponent shall advise the Chief Executive Officer of the Department of Environment and Conservation of any potential non-compliance, within 48 hours of that non-compliance being known.
- 4-6 The proponent shall submit a compliance assessment report annually from the date of issue of this Implementation Statement addressing the previous twelve month period or other period as agreed by the Chief Executive Officer of the Department of Environment and Conservation. The compliance assessment report shall:
 - 1 be endorsed by the proponent's Managing Director or a person, approved in writing by the Department of Environment and Conservation, delegated to sign on the Managing Director's behalf;
 - 2 include a statement as to whether the proponent has complied with the conditions;
 - 3 identify all potential non-compliances and describe corrective and preventative actions taken;
 - 4 be made publicly available in accordance with the approved compliance assessment plan; and
 - 5 indicate any proposed changes to the compliance assessment plan required by condition 4-1.

5 Performance Review and Reporting

- 5-1 The proponent shall submit to the CEO of the Department of Environment and Conservation Performance Review Reports at the conclusion of the second, fourth, sixth, eighth and tenth years after the start of implementation of the proposal and then, at such intervals as the CEO of the Department of Environment and Conservation may regard as reasonable, which address:
 - 1 the major environmental risks and impacts; the performance objectives, standards and criteria related to these; the success of risk reduction/impact mitigation measures and results of monitoring related to the management of the major risks and impacts;

- 2 the level of progress in the achievement of best practice environmental performance, including industry benchmarking, and the use of best available technology; and
- 3 improvements gained in environmental management which could be applied to this and other similar projects.

6 Fuel Source

- 6-1 The proposal shall only use waste from *Eucalyptus globulus* and pine plantations as a fuel source.

7 Air Quality

- 7-1 The proponent shall design and operate the biomass power plant such that the stack emissions do not exceed the emission limits set in the *Directive 2001/80/EC of the European Parliament and of the Council of 23 October 2001 on the limitation of emissions of certain pollutants into the air from large combustion plants*.
- 7-2 The proponent shall monitor ambient air quality at sensitive receptors in proximity to the project area and ensure that the contribution that the proposal's emissions makes to ambient air quality do not exceed the predicted percentages of the Ambient Air Quality National Environment Protection Measure in Schedule 2.
- 7-3 The proponent shall submit the results of the ambient air quality monitoring required by condition 7-2 to the CEO of the Department of Environment and Conservation, on a six monthly basis.
- 7-4 The proponent shall provide proposed management measures to the CEO of the Department of Environment and Conservation in the event that the requirements of condition 7-2 are not met or are not likely to be met.

8 Ground and Surface Water Quality

- 8-1 The proponent shall ensure that the run-off or leachate / seepage from the proposal site does not cause the quality of surface water or groundwater leaving the proposal area to exceed ANZECC* requirements, taking into consideration natural background water quality, so that existing and potential uses, including ecosystem maintenance, are protected.

*- *Australian Water Quality Guidelines for Fresh and Marine Waters*, ANZECC (November 1992, and its updates).

- 8-2 The proponent shall monitor the quality of any run-off and leachate / seepage from the proposal site entering surface water and groundwater within and / or in proximity to the proposal area. This monitoring shall be carried out to the satisfaction of the CEO of the Department of Environment and Conservation, in consultation with the Department of Water.
- 8-3 The proponent shall submit the results of the monitoring required by condition 8-2 to the CEO of the Department of Environment and Conservation.
- 8-4 The proponent shall provide proposed management measures to the CEO of the Department of Environment and Conservation in the event that the requirements of condition 8-1 are not met or are not likely to be met.
- 8-5 The proponent shall store all furnace and fly ash on the proposal site in fully enclosed and bunded areas, with leachate management systems.
- 8-6 The proponent shall not store more than one hundred tonnes of ash on the proposal site.
- 8-7 The proponent shall dispose all furnace and fly ash at appropriately licensed landfill facilities, unless regulatory approval is obtained for reuse of ash.
- 9 Decommissioning (Infrastructure, including Pipelines, Powerlines and Buildings)**
- 9-1 Within six months following the cessation of operations, the proponent shall complete the following procedures and measures:
- 1 ensure that the site is suitable for future land uses;
 - 2 remove or, if appropriate, retain plant and infrastructure agreed in consultation with relevant stakeholders;
 - 3 rehabilitate all disturbed areas to a standard suitable for the agreed new land use(s); and
 - 4 identify contaminated areas, and provide evidence of notification and proposed management measures to relevant statutory authorities.
- 9-2 Within 12 months following the cessation of operations, the proponent shall rehabilitate areas of native vegetation cleared for this proposal (including areas cleared for pipelines, powerlines and buildings) in accordance with an accurate figure showing native vegetation cleared and which has been submitted to the CEO of the Department of Environment and Conservation within one month following the completion of clearing.

Procedures

1. Where a condition states “on advice of the Environmental Protection Authority”, the Environmental Protection Authority will provide that advice to the Department of Environment and Conservation for the preparation of written notice to the proponent.
2. The Environmental Protection Authority may seek advice from other agencies or organisations, as required, in order to provide its advice to the Department of Environment and Conservation.
3. The Minister for the Environment will determine any dispute between the proponent and the Environmental Protection Authority or the Department of Environment and Conservation over the fulfillment of the requirements of the conditions.
4. Where a condition lists advisory bodies, it is expected that the proponent will obtain the advice of those listed as part of its compliance reporting to the Department of Environment and Conservation.
5. The proponent is required to apply for a Works Approval and Licence for this project under the provisions of Part V of the *Environmental Protection Act 1986*.

Hon Donna Faragher JP MLC
MINISTER FOR ENVIRONMENT; YOUTH

Schedule 1

The Proposal (Assessment No. 1707)

General Description

The proposal is to construct and operate a 40 Megawatt biomass power plant approximately 10 kilometres south-west of Manjimup on part of Forest Lease No. 1994/97 currently held by WA Pine Resources (WAPRES), which operates the Diamond Timber Mill.

The biomass power plant will consist of a fluidised bed combustion boiler and conventional steam cycle plant generating approximately 322 Gigawatt hours (net) per annum of electricity to be supplied to the South West Interconnected System. Fuel for the plant will be sourced from *Eucalyptus globulus* (Bluegum) and pine plantation wastes from within a maximum radius of 100 kilometres from the plant.

The proposal is described in the following document – *Proposed Biomass Power Plant, Palings Road, Diamond Tree, Manjimup - Public Environmental Review, EPA Assessment No. 1707*, Connell Wagner (January 2008).

Summary Description

A summary of the key proposal characteristics is presented in Table 1.

Table 1 – Summary of Key Proposal Characteristics

Element	Description
General	
Life of project	Approximately 25 years
Generation capacity	Approximately 40 megawatts
Vegetation clearing	Not more than 5 hectares for proposal site, easement for power line and easement for water pipeline.
Water requirement	Not more than 25 mega litres per year
Fuel	
Fuel quantity	380,000 tonnes (+/-10%) per annum
Fuel type	Waste from <i>Eucalyptus globulus</i> (Bluegum) and pine plantations
Fuel storage	Not more than 30 days of supply
Main plant equipment	
Combustion system	Fluidised bed combustion boiler with flue gas recirculation and over fire air systems
Particulate emission control system	Eight baghouses fitted with fabric bags
Stack height	Not more than 40 metres
Cooling system	Air-cooled condenser
Misc	
Ash storage	Maximum of 100 tonnes on site stored in enclosed containers or areas.

Figure

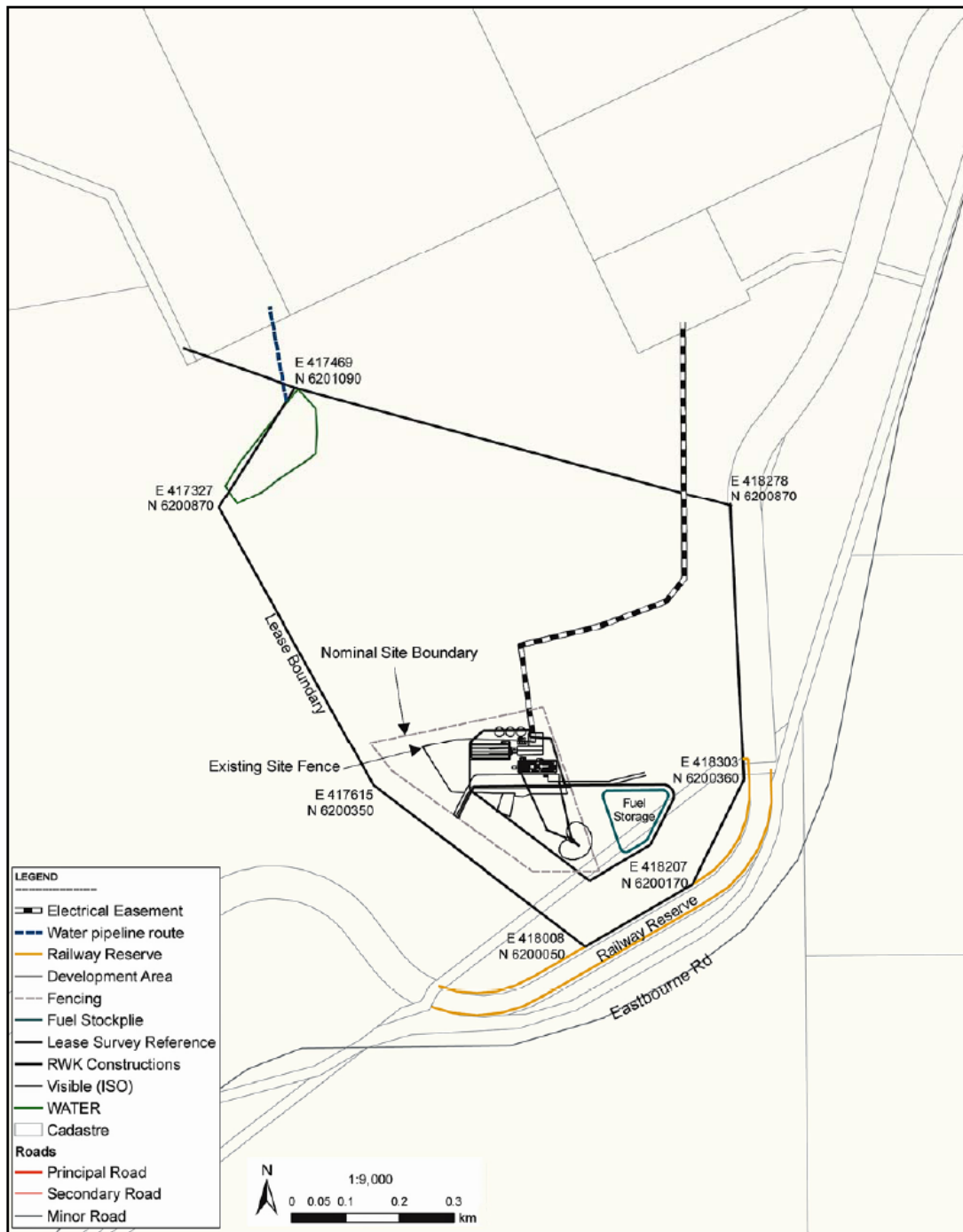


Figure 1: Proposal footprint

Schedule 2

Maximum predicted ground level concentrations from the proposal expressed as percentages of the Ambient Air Quality National Environment Protection Measure (Assessment No. 1707)

Pollutants of significance	Power plant emissions
	Percentage of standard/ guideline
NO ₂ (1-hour average)	-
SO ₂ (1 hour average)	12.6%
PM ₁₀ (24-hour average)	6.4%
PM _{2.5} (24-hour average)	12.8%
CO (8-hour average)	0.33%
Lead (Annual average)	0.0026%