# **Project Approval**

# Section 75J of the Environmental Planning & Assessment Act 1979

As delegate for the Minister for Planning and Infrastructure, the Planning and Assessment Commission approves the project application referred to in Schedule 1, subject to the conditions in Schedules 2 to 5.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the project.

Dr Neil Shepherd AM **Member of the Commission** 

Mr Garry Payne AM **Member of the Commission** 

Sydney 20 June 2012

**SCHEDULE 1** 

Application Number: 10\_0172

**Proponent:** Boral Cement Limited

Approval Authority: Minister for Planning and Infrastructure

Land: See Appendix 1

Project: Berrima Colliery Continued Operations

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#### **DEFINITIONS**

Adaptive management includes monitoring subsidence impacts and Adaptive management

subsidence effects and, based on the results, modifying the mine plan as mining proceeds to ensure that the effects, impacts and/or associated environmental consequences remain within the predicted and/or designated

ranges and in compliance with the conditions of this approval

**Annual Review** The review required by Condition 4 of Schedule 5

Approval This Project Approval Building Code of Australia BCA

**Built features** Includes any building or work erected or constructed on land, and includes

> dwellings and infrastructure such as any formed road, street, path, walk, or driveway; and any pipeline, water, sewer, telephone, gas or other service

CCC Community Consultative Committee

Conditions of this approval Conditions contained in Schedules 2 to 5 inclusive

Council Wingecarribee Shire Council

The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Dav

Sundays and Public Holidays

Department of Planning and Infrastructure Department Director-General Director-General of the Department, or delegate

Division of Resources and Energy in the Department of Trade and DRE

Investment, Regional Infrastructure and Services

Environmental Assessment titled 'Berrima Colliery Continued Operations: EΑ

Environmental Assessment dated May 2011 and associated response to submissions titled 'Response to Submissions: Berrima Colliery Continued

Operations', dated November 2011

**EPA NSW Environment Protection Authority** Environmental Planning and Assessment Act 1979 EP&A Act

**EP&A Regulation** Environmental Planning and Assessment Regulation 2000 Environment Protection Licence issued under the POEO Act

Environmental consequences The environmental consequences of subsidence impacts, including: damage

to built features; loss of surface water flows to the subsurface; loss of standing pools; adverse water quality impacts; cliff falls; rock falls; damage

to Aboriginal heritage sites; impacts on aquatic ecology; and ponding.

The period from 6pm to 10pm Evening Executive Director Mineral Resources within DRE, or the equivalent role

**Executive Director Mineral** 

Resources

Existing strategies, plans or

programs

Feasible

First workings

Heritage item

Hyporheic

Incident

Land

Material harm to the environment

Minister

Mining operations

Minor Mitigation

Negligible

NOW OEH

**MSB** Night

Sundays and Public Holidays

Office of Environment and Heritage, within the Department of Premier and

Any strategy, plan or program described in the EA as existing.

Feasible relates to engineering considerations and what is practical to build

or to implement

Development of the main headings and gateroads in the underground mining

An item as defined under the Heritage Act 1977 and/or an Aboriginal object or Aboriginal place as defined under the National Parks and Wildlife Act 1974 Describing an area or ecosystem beneath the bed of a river or stream that is saturated with water and that supports invertebrate fauna.

A set of circumstances that:

causes or threatens to cause material harm to the environment; and/or

breaches or exceeds the limits or performance measures/criteria in this

As defined in the EP&A Act, except for where the term is used in the noise and air quality conditions in Schedules 3 and 4 of this approval where it is defined to mean the whole of a lot, or contiguous lots, owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this approval

Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial

Includes all extraction, processing, handling, storage and transportation of coal carried out on the site

Minister for Planning and Infrastructure, or delegate

Not very large, important or serious

Activities associated with reducing the impacts of the project prior to or during

those impacts occurring Mine Subsidence Board

Small and unimportant, such as to be not worth considering

The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on

NSW Office of Water, within the Department of Primary Industry

Cabinet

POEO Act Protection of the Environment Operations Act 1997

Privately-owned land Land that is not owned by a public agency or a mining company (or its

subsidiary)

Project The project described in the EA

Proponent Boral Cement Limited, or any other person or persons who rely on this

approval to carry out the development that is subject to this approval

Reasonable Reasonable relates to the application of judgement in arriving at a decision,

taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential

improvements

Reasonable costs The costs agreed between the Department and the Proponent for obtaining

independent experts to review the adequacy of any aspects of the extraction plan, or where such costs cannot be agreed, the costs determined by a

dispute resolution process

Rehabilitation The treatment or management of land disturbed by the project for the

purpose of establishing a safe, stable and non-polluting environment.

Remediation Activities associated with partially or fully repairing or rehabilitating the

impacts of the project or controlling the environmental consequences of this

impact

ROM coal Run-of-mine coal

RMS Roads and Maritime Services

Safe, serviceable and repairable Safe means no danger to users who are present, serviceable means

available for its intended use, and repairable means damaged components

can be repaired economically

Second workings Extraction of coal by pillar extraction methods

Site The land listed in Appendix 1 SMP Subsidence Management Plan

Statement of Commitments

The Proponent's commitments in Appendix 4
Stygofauna

The Proponent's commitments in Appendix 4
Fauna inhabiting underground aguifers.

Subsidence The totality of subsidence effects, subsidence impacts and environmental

consequences of subsidence impacts

Subsidence effects Deformation of the ground mass due to mining, including all mining-induced

ground movements, such as vertical and horizontal displacement, tilt, strain

and curvature

Subsidence impacts Physical changes to the ground and its surface caused by subsidence

effects, including tensile and shear cracking of the rock mass, localised buckling of strata caused by valley closure and upsidence and surface

depressions or troughs

Surface facilities sites The pit top area; the Loch Catherine stockpile area; all ventilation shaft sites;

sites used for gas drainage or for other mining purposes infrastructure; and any other site subject to existing or proposed surface disturbance associated

with the project

# SCHEDULE 2 ADMINISTRATIVE CONDITIONS

#### **OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT**

1. In addition to meeting the specific performance criteria established under this approval, the Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or rehabilitation of the project.

#### **TERMS OF APPROVAL**

- 2. The Proponent shall carry out the project generally in accordance with the:
  - (a) EA;
  - (b) Statement of Commitments; and
  - (c) conditions of this approval.

#### Notes:

- The general layout of the project is shown in Appendix 2; and
- The Statement of Commitments is reproduced in Appendix 4.
- If there is any inconsistency between the above documents, the most recent document shall prevail to the
  extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any
  inconsistency.
- 4. The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
  - (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this approval; and
  - (b) the implementation of any actions or measures contained in these documents.

#### **LIMITS ON APPROVAL**

## **Mining Operations**

5. The Proponent may carry out mining operations on the site until 30 April 2020.

Note: Under this approval, the Proponent is required to rehabilitate the site and perform additional undertakings to the satisfaction of both the Director-General and the Executive Director Mineral Resources. Consequently, this approval will continue to apply in all other respects other than the right to conduct mining operations until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.

## **Coal Extraction and Transport**

- 6. The Proponent shall not extract more than 460,000 tonnes of coal from the site in any calendar year.
- 7. The Proponent shall ensure that all coal trucks, whether laden or unladen, only travel:
  - (a) between the pit top area and the Loch Catherine stockpile area between 6:00am and 9:00pm on Mondays to Fridays, between 7:00am and 2:00pm on Saturdays, and at no time on Sundays or public holidays; and
  - (b) from the pit top area or the Loch Catherine stockpile area to any other location (or return trips) between 7:00am and 6:00pm on Mondays to Fridays, between 7:00am and 1:00pm on Saturdays, and at no time on Sundays or public holidays.

#### **Hours of Operation**

8. The Proponent may undertake mining operations 24 hours a day, 7 days a week.

## STRUCTURAL ADEQUACY

- 9. The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with:
  - (a) the relevant requirements of the BCA; and

## Notes:

- Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the project.

#### **DEMOLITION**

10. The Proponent shall ensure that all demolition work is carried out in accordance with *Australian Standard AS 2601-2001: The Demolition of Structures*, or its latest version.

## **OPERATION OF PLANT AND EQUIPMENT**

- 11. The Proponent shall ensure that all the plant and equipment used at the site, or to transport coal from the site, is:
  - (a) maintained in a proper and efficient condition; and
  - (b) operated in a proper and efficient manner.

## CONTINUATION OF EXISTING MANAGEMENT PLANS

12. The Proponent shall continue to implement existing strategies, plans or programs that apply to existing activities on the site until they are replaced by an equivalent strategy, plan or program approved under this approval.

# STAGED SUBMISSION OF STRATEGIES, PLANS OR PROGRAMS

13. With the approval of the Director-General, the Proponent may submit any strategies, plans or programs required by this approval on a progressive basis.

## Notes:

- While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times; and
- If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.

NSW Government Department of Planning and Infrastructure

# SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

#### **SUBSIDENCE**

#### **Environmental Performance Measures**

1. The Proponent shall ensure that the project does not cause any exceedance of the performance measures in Table 1, to the satisfaction of the Director-General.

Table 1: Environmental Performance Measures

Biodiversity	
Threatened species, populations or their habitats and endangered ecological	Negligible impact or environmental consequences.
communities	
Aboriginal Heritage	
Known aboriginal heritage items within the	Negligible impact or environmental consequences.
subsidence zone of the project	

Notes: 1) The Proponent will be required to define more detailed performance indicators (including impact assessment criteria) for each of these performance measures in the Extraction Plan required under this approval (see condition 7 below).

- 2) Measurement and/or monitoring of compliance with performance measures and performance indicators is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans. In the event of a dispute over the appropriateness of proposed methods, the Director-General will be the final arbiter.
- 3) The requirements of this condition only apply to the impacts and consequences of mining operations, construction or demolition undertaken following the date of this approval.

#### Offsets

- 2. If the Proponent exceeds the performance measures in Table 1 and the Director-General determines that:
  - (a) it is not reasonable or feasible to remediate the impact or environmental consequence; or
  - (b) remediation measures implemented by the Proponent have failed to satisfactorily remediate the impact or environmental consequence;

then the Proponent shall provide a suitable offset to compensate for the impact or environmental consequence, to the satisfaction of the Director-General.

Note: Any offset required under this condition must be proportionate with the significance of the impact or environmental consequence.

#### **Built Features Performance Measures**

3. The Proponent shall ensure that the project does not cause any exceedances of the performance measures in Table 2, to the satisfaction of the Director-General.

Table 2: Subsidence Impact Performance Measures

Always safe.
Serviceability should be maintained wherever practicable. Loss of serviceability must be fully compensated.
Damage must be fully repaired, replaced or fully compensated.
Negligible additional risk.

Notes: 1) The Proponent will be required to define more detailed performance indicators (including impact assessment criteria) for each of these performance measures in the Extraction Plan required under this approval (see condition 7 below).

- 2) Measurement and/or monitoring of compliance with performance measures and performance indicators is to be undertaken using generally accepted methods that are appropriate to the environment and circumstances in which the feature or characteristic is located. These methods are to be fully described in the relevant management plans. In the event of a dispute over the appropriateness of proposed methods, the Director-General will be the final arbiter.
- 3) The requirements of this condition only apply to mining operations undertaken following the date of this approval which are the cause, or a contributory cause, of the impacts or consequences.
- 4) Requirements regarding safety or serviceability do not prevent preventative or mitigatory actions being taken prior to or during mining in order to achieve or maintain these outcomes.

4. Any dispute between the Proponent and the owner of any built feature over the interpretation, application or implementation of the requirements of Condition 3 or Condition 4 is to be settled by the Director-General, following consultation with the MSB and the Executive Director Mineral Resources. Any decision by the Director-General shall be final and not subject to further dispute resolution under this approval.

#### **First Workings**

5. The Proponent may carry out first workings on site, other than in accordance with an approved Extraction Plan, provided that DRE is satisfied that the first workings are designed to remain long-term stable and non-subsiding, except insofar as they may be impacted by approved second workings.

Note: The intent of this condition is not to require an additional approval for first workings, but to ensure that first workings are built to geotechnical and engineering standards sufficient to ensure long term stability, with zero resulting subsidence impacts.

### **Extraction Plan**

- 6. The Proponent shall prepare and implement an Extraction Plan for all second workings on site to the satisfaction of the Director-General. This plan must:
  - be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Director-General;
  - (b) be approved by the Director-General before the Proponent carries out any of the second workings covered by the plan;
  - include detailed plans of existing and proposed first and second workings and any associated surface development;
  - (d) include detailed performance indicators for each of the performance measures in Conditions 1, 3 and 4:
  - (e) provide revised predictions of the potential subsidence effects, subsidence impacts and environmental consequences of the proposed second workings, incorporating any relevant information obtained since this approval;
  - (f) describe the measures that would be implemented to ensure compliance with the performance measures in Conditions 1, 3 and 4, and manage or remediate subsidence impacts;
  - (g) include a Public Safety Management Plan, which has been prepared in consultation with DRE, to ensure public safety in the mining area;
  - (h) include a Built Features Management Plan, which has been prepared in consultation with DRE and the owners of affected public infrastructure, to manage the potential subsidence impacts and/or environmental consequences of the proposed second workings on built features, and which:
    - addresses in appropriate detail all items of key public infrastructure and other public infrastructure and all classes of other built features;
    - has been prepared following appropriate consultation with the owner/s of potentially affected feature/s;
    - recommends appropriate pre-mining mitigatory measures to reduce subsidence impacts and appropriate remedial measures to mitigate, repair, replace or compensate for predicted impacts on potentially affected built features; and
    - in the case of all key public infrastructure, and other public infrastructure except roads, trails
      and associated structures, reports external auditing for compliance with ISO 31000 (or
      alternative standard agreed with the infrastructure owner) and provides for annual auditing
      of compliance and effectiveness during secondary extraction which may impact the
      infrastructure:
  - (i) include a subsidence monitoring program, which has been prepared in consultation with DRE to:
    - provide data to assist with the management of the risks associated with subsidence;
    - validate the subsidence predictions;
    - analyse the relationship between the predicted and resulting subsidence effects and predicted and resulting impacts under the plan; and
    - inform the contingency plan and adaptive management process;
  - (j) include a contingency plan that expressly provides for adaptive management where monitoring indicates that there has been an exceedance of any performance measure in Condition 1, 3 or 4, or where any such exceedance appears likely;
  - (k) propose appropriate revisions to the Rehabilitation Management Plan required under condition 42 of Schedule 3; and
  - (I) include a program to collect sufficient baseline data for future Extraction Plans

Note: An SMP that is substantially consistent with this condition and which is approved by DRE by the date of this approval is taken to satisfy the requirements of this condition.

- 7. The Proponent shall ensure that the management plans required under condition 7(g), (h), (j) and (k) above include:
  - (a) an assessment of the potential environmental consequences of the Extraction Plan, incorporating any relevant information that has been obtained since this approval; and
  - (b) a detailed description of the measures that would be implemented to remediate predicted impacts.

## **Payment of Reasonable Costs**

8. The Proponent shall pay all reasonable costs incurred by the Department to engage suitably qualified, experienced and independent experts to review the adequacy of any aspect of an Extraction Plan.

#### **NOISE**

#### **Noise Criteria**

9. The Proponent shall ensure that the noise generated by the project does not exceed the criteria in Table 3 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.

Table 3: Noise Criteria dB(A)

Location	Day	Evening	Nig	ht
Location —	L <sub>Aeq(15 min)</sub>	L <sub>Aeq(15 min)</sub>	L <sub>Aeq(15 min)</sub>	L <sub>AMax</sub>
1	42	39	35	45
2	42	39	35	45
3	42	39	35	45
4	41	39	35	45
5	40	38	35	45
6	39	36	35	45
7	38	35	35	45
8	37	35	35	45
9	40	38	35	45
10	36	35	35	45
11	36	35	35	45
12	36	35	35	45
13	35	35	35	45
14	35	35	35	45
15	35	35	35	45

#### Notes:

- To interpret the locations referred to in Table 3, see the figure in Appendix 3;
- Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the INP; and
- Criteria applicable to a particular parcel of land are those criteria for the nearest specified location in Table 3.

However, these criteria do not apply if the Proponent has a written agreement with the relevant landowner to exceed the criteria, and the Proponent has advised the Department in writing of the terms of this agreement.

## **Noise Goals and Audit**

- 10. The Proponent shall:
  - (a) make continual endeavours to reduce noise, with the objective that the noise generated by the project will comply with the criteria in Table 4 at any existing residence on privately-owned land or on more than 25 percent of any privately-owned land;
  - (b) within 6 months of the date of this approval, commission a suitably qualified person, whose appointment has been approved by the Director General, to conduct a noise audit of the mining operations (including coal handling and haulage) to determine the sources of noise contributing to exceedences of the noise goals in Table 4, and make recommendations on the measures necessary to achieve these goals; and
  - (c) within 9 months of the date of this approval, submit a copy of the audit report to the Director General for approval, including a proposed program of measures (such as timeframes for implementation) to achieve the noise goals in Table 4.

Table 4: Long-term Noise Goals dB(A)

Location -	Day	Evening	Night
Location	L <sub>Aeq(15 min)</sub>	L <sub>Aeq(15 min)</sub>	L <sub>Aeq(15 min)</sub>
1, 2, 3, 4, 5, 6, 7, 9	37	35	35
8, 10, 11, 12	35	35	35

#### Notes:

- To interpret the locations referred to in Table 4, see the appropriate figure in Appendix 3; and
- Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the INP.

## **Operating Conditions**

- 11. The Proponent shall:
  - (a) implement best practice noise management to minimise the operational, low frequency and road traffic noise of the project;
  - (b) regularly assess the noise monitoring and meteorological data and relocate, modify, and/or stop operations on site to ensure compliance with the relevant conditions of this approval;
  - (c) minimise the noise impacts of the project during meteorological conditions when the criteria in Tables 3 and 4 do not apply;
  - (d) implement the approved measures to achieve the noise goals in Table 4 and report on progress in each Annual Review;
  - (e) investigate and report annually on the measures taken to minimise noise impacts from the project under meteorological conditions in which the criteria in Tables 3 and 4 do not apply, including:
    - the effectiveness of these measures in maintaining impacts within the criteria in Tables 3 and 4;
       and
    - any additional measures available to mitigate noise impacts under such meteorological conditions;
  - (f) carry out a comprehensive noise audit of the project in conjunction with each independent environmental audit; and
  - (g) undertake a comprehensive review of the noise criteria in Condition 10, which shall:
    - determine whether these criteria should be reduced commensurate with the performance of the mine after implementation of noise mitigation and management measures;
    - be conducted in consultation with EPA by a suitably qualified and experienced person; and
    - form part of the noise audit to be conducted in 2016 under sub-clause (f).

to the satisfaction of the Director-General.

# **Noise Management Plan**

- 12. The Proponent shall prepare and implement a Noise Management Plan for the project to the satisfaction of the Director-General. This plan must:
  - (a) be prepared in consultation with EPA, and submitted for approval to the Director-General within nine months of the date of this approval;
  - (b) include provisions to ensure that the road haulage fleet attains and maintains best practices in both equipment and operations;
  - (c) describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval, including the measures proposed pursuant to Condition 10(c) for achieving the noise goals in Table 4;
  - (d) outline procedures to manage responses to any complaints or issues raised by the owners of affected residences; and
  - (e) include a noise monitoring program that:
    - uses a combination of real-time and supplementary attended monitoring to evaluate the performance of the project; and
    - includes a protocol for determining exceedances of the relevant conditions of this approval.

## **AIR QUALITY AND GREENHOUSE GAS**

## **Air Quality Assessment Criteria**

13. The Proponent shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the project do not exceed the criteria listed in Tables 5, 6 or 7 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.

Table 5: Long-term Criteria for Particulate Matter

Pollutant	Averaging Period	<sup>d</sup> Criterion
Total suspended particulate (TSP) matter	Annual	<sup>a</sup> 90 μg/m <sup>3</sup>
Particulate matter < 10 µm (PM10)	Annual	<sup>a</sup> 30 μg/m <sup>3</sup>

#### Table 6: Short-term Criterion for Particulate Matter

Pollutant	Averaging Period	<sup>d</sup> Criterion
Particulate matter < 10 μm (PM <sub>10</sub> )	24 hour	<sup>a</sup> 50 μg/m <sup>3</sup>

Table 7: Long-term Criteria for Deposited Dust

Pollutant	Averaging Period	Maximum increase in deposited dust level	Maximum total deposited dust level
<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a</sup> 4 g/m <sup>2</sup> /month

Notes to Tables 5-7:

- <sup>a</sup> Total impact (ie incremental increase in concentrations due to the project plus background concentrations due to all other sources);
- b Incremental impact (ie incremental increase in concentrations due to the project on its own);
- <sup>c</sup> Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter -Deposited Matter - Gravimetric Method.
- d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents, illegal activities or any other activity agreed by the Director-General in consultation with EPA.

#### Air Quality and Greenhouse Gas Management Plan

- 14. The Proponent shall prepare and implement an Air Quality and Greenhouse Gas Management Plan for the project to the satisfaction of the Director-General. This plan must:
  - (a) be prepared in consultation with EPA, and submitted for approval to the Director-General within six months of the date of this approval;
  - (b) describe the measures that would be implemented to ensure compliance with the relevant conditions of this approval, including the proposed air quality management system;
  - (c) include an air quality monitoring program, that:
    - uses a combination of high volume samplers and dust deposition gauges to evaluate the performance of the project;
    - monitors greenhouse gas emissions, particularly methane; and
    - includes a protocol for determining exceedances with the relevant conditions of this approval and for reporting such exceedences on the Proponent's website;
  - (d) describe the measures that would be implemented to minimise the release of greenhouse gas emissions from the site, particularly methane.

#### **Greenhouse Gas Emissions**

15. The Proponent shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site, to the satisfaction of the Director-General.

## Odour

16. The Proponent shall ensure that no offensive odours, as defined under the POEO Act, are emitted from the site.

## **Operating Conditions**

- 17. The Proponent shall:
  - implement best practice air quality management at the pit top area, at the Loch Catherine stockpile area and for transport of coal from the site to minimise dust generated by the project; and
  - (b) minimise any visible air pollution generated by the project;
  - (c) within 12 months of this approval:
    - seal the haul road from the pit-top to the Loch Catherine stockpile in order to minimise mobilisation of dust and generation of noise; and
    - maintain the haul road to a standard that ensures continuing achievement of these objectives;
  - ensure that coal trucks are loaded and covered in order to minimise emission of dust and prevent spillage of coal onto public roads;
  - (e) regularly assess the air quality performance of the project and modify/ suspend operations to ensure compliance with the relevant conditions of this approval; and
  - (f) minimise the air quality impacts from the project under adverse meteorological conditions and report in the Annual Review on the actions taken and their effectiveness.

to the satisfaction of the Director-General.

## **METEOROLOGICAL MONITORING**

- 18. During the life of the project, the Proponent shall ensure that there is a suitable meteorological station operating in the vicinity of the pit top area or Loch Catherine stockpile area that:
  - (a) complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline; and
  - (b) is capable of continuous real-time measurement of temperature lapse rate in accordance with the *INP*.

#### **TRANSPORT**

#### **Monitoring of Coal Transport**

- 19. The Proponent shall:
  - (a) keep accurate records of the amount of coal transported from the site (on a monthly basis);
  - (b) make these records publicly available on its website at the end of each calendar year.

#### **Road Transport Protocol**

- 20. The Proponent shall prepare and implement a Road Transport Protocol, in consultation with Council and RMS. This protocol shall:
  - (a) be submitted to the Director-General for approval within six months of the date of this approval;
  - (b) include a Traffic Management Plan, which includes:
    - procedures to ensure that drivers adhere to the designated haulage routes;
    - measures to maximise the use of a low frequency (regular) trucking schedule rather than an intermittently-high frequency (campaign) trucking schedule;
    - details of procedures for receiving and addressing complaints from the community concerning traffic issues associated with truck movements to and from the Colliery;
    - measures to ensure that the provisions of the Traffic Management Plan are implemented, eg driver training in the heavy vehicle drivers' Code of Conduct; and
    - procedures for ensuring compliance with and enforcement of the heavy vehicle drivers' Code of Conduct; and
  - (c) include a Code of Conduct for heavy vehicle drivers that addresses:
    - travelling speeds;
    - staggering of truck departures to ensure a regular trucking schedule throughout the day;
    - instructions to drivers not to overtake each other on the haulage route, as far as practicable, and to maintain appropriate distances between vehicles;
    - instruction to drivers to adhere to the designated haulage routes;
    - instruction to drivers to be properly safety conscious and to strictly obey all traffic regulations; and
    - appropriate penalties for infringements of the Code.

## **Independent Traffic Audit**

- 21. Within twelve months of the date of this approval, and every twelve months thereafter, unless otherwise agreed or required by the Director-General, the Proponent shall commission a suitably qualified person, whose appointment has been approved by the Director-General, to conduct an Independent Traffic Audit of the coal haulage operations. This audit must:
  - be undertaken without prior notice to the Proponent, following consultation with the RMS and Council;
  - (b) review haulage records;
  - (c) assess the impact of the project on the performance of the road network;
  - (d) investigate the accident records on the haulage route, and any incidents involving haulage vehicles from the project;
  - (e) assess the effectiveness of the heavy vehicles drivers' Code of Conduct; and, if necessary,
  - (f) recommend measures to reduce or mitigate any adverse (or potentially adverse) impacts.

Note: After three such audits, the Director-General may consider a request to reduce the audit frequency.

22. Within one month of commissioning the audit, or as otherwise agreed by the Director-General, the Proponent shall submit a copy of the audit report to the Director-General, with a proposed response to any of the recommendations contained in the audit report.

## **Medway Road Upgrade Works**

23. Within 3 months of the date of this approval, the Proponent shall commission a suitably qualified independent expert, whose appointment has been approved by the Director-General, to undertake a pavement condition report for the section of Medway Road that will be used by traffic associated with the project. This report must:

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- (a) include a review of the pavement condition of the road identifying any deficiencies;
- (b) recommend appropriate pavement repairs taking into consideration the axle loads and quantity of vehicles associated with the project that will use this section of Medway Road; and
- (c) ensure the recommended repairs are in accordance with the applicable AUSTROADS standards.
- 24. The Proponent shall, in consultation with Council, and to the satisfaction of the Director-General, undertake pavement and associated upgrade works on Medway Road, as follows:
  - (a) Phase 1, to be completed no later than 12 months from the date of this approval:
    - widen the current 50 km/hr section of Medway Road through Medway to a width of 10 metres, to meet applicable AUSTROADS standards; and
    - repair existing damaged sections of Medway Road in accordance with the recommendations of the pavement condition report required under condition 24;
  - (b) Phase 2, to be completed no later 24 months from the date of this approval:
    - widen the 80 km/hr section of Medway Road to a width of 10 metres; and
    - upgrade 20 m of Liebmans Road from its intersection with Medway Road and the nine private property driveways on Medway Road to improve sight distances.

#### **Maintenance of Medway Road**

25. From the date of this approval, the Proponent shall pay Council a road maintenance levy for that portion of Medway Road used by the project, at a rate of 4 cents/tonne/kilometre for all coal hauled on Medway Road over the previous 12 months, with this rate to be indexed annually in accordance with the RMS Road Cost Index. The levy must be paid annually at the end of the financial year with the first payment to be made on 30 June 2012.

Any dispute about the terms of this agreement is to be settled by the Director-General, following consultation with the Council and the Proponent. Any decision by the Director-General shall be final and not subject to further dispute resolution under this approval.

26. The Proponent shall engage an independent consultant to undertake by 31 December 2019 a pavement condition report for the section of Medway Road used by traffic associated with the project, provided that no further development or modification application has been lodged for an extension the period of approval to conduct mining operations at the project. This report must be submitted for approval to the Director-General by 31 January 2020. If the report determines that significant deterioration to Medway Road has taken place since the upgrade works required to be undertaken under condition 25, and that the maintenance levy payable under condition 26 has been insufficient to satisfactorily maintain the road, then Boral must contribute to the Council an amount, proportionate to its usage of the road, sufficient to fund any necessary further maintenance works.

#### **Maintenance of Taylor Avenue**

27. From the date of this approval, the Proponent shall pay Council a road maintenance levy for that portion of Taylor Avenue used by the project between the Old Hume Highway and Perth Street for each tonne exported via the stockpile at Berrima Cement Works during coal export campaigns. The levy must be paid at a rate of 2 cents/tonne/kilometre and be indexed annually in accordance with the RMS Road Cost Index. The levy must be paid annually at the end of the financial year with the first payment to be made on 30 June 2012.

Note: This levy applies to laden trucks carrying coal for the export campaigns travelling from both:

- the mine to the stockpile at the Cement Works; and
- the stockpile at the Cement Works to the port for export.

#### **SOIL AND WATER**

Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Proponent is required to obtain all necessary water licences for the project.

#### **Compensatory Water Supply**

28. The Proponent shall provide a compensatory water supply to any owner of privately-owned land whose water supply is adversely impacted (other than an impact that is negligible) as a result of the project, in consultation with NOW, and to the satisfaction of the Director-General.

The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributed to the project. Equivalent water supply must be provided (at least on an interim basis) within 24 hours of the loss being identified.

If the Proponent and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.

If the Proponent is unable to provide an alternative long-term supply of water, then the Proponent shall provide alternative compensation to the satisfaction of the Director-General.

## **Surface Water Discharges**

- 29. The Proponent shall ensure that all surface water discharges from the site comply with the discharge limits (both volume and quality) set for the project in any EPL.
- 30. The Proponent shall upgrade the sewage management system on the site to the satisfaction of EPA, SCA and NSW Health before 31 March 2013, or as otherwise agreed by EPA. The upgrade shall include replacement of the existing septic tank and absorption trench with a sewage treatment plant and a disposal or re-use scheme that meets contemporary standards. The goal of the upgraded system shall be to maximise reuse of treated effluent, with a zero direct discharge to surface waters from the system.

## **Water Management Plan**

31. The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Director-General. This plan must be prepared in consultation with EPA and NOW by suitably qualified and experienced persons whose appointment has been approved by the Director-General, and submitted to the Director-General within six months of the date of this approval.

In addition to the standard requirements for management plans (see Condition 2 of Schedule 5), this plan must include:

- (a) a Site Water Balance that includes details of:
  - sources of water supply;
  - water use on site;
  - · water management on site; and
  - · reporting procedures; and
- (b) a Surface Water Management Plan, that includes:
  - baseline data on surface water flows and quality in the waterbodies that could be affected by the project;
  - a detailed description of the surface water management system on site, including the:
    - clean water diversion systems;
    - erosion and sediment controls; and
    - water storages;
  - a detailed investigation of the options available to reduce the levels of manganese and nickel in the water being discharged into the Wingecarribee River, and a proposed program of measures to be implemented to reduce these levels;
  - performance criteria, including trigger levels for investigating any potentially adverse impacts, for the following:
    - the water management system;
    - surface water quality of Wingecarribee River and Mandemar Creek; and
    - the stream and vegetation health of Wingecarribee River and Mandemar Creek;
  - performance criteria for surface water quality attributes relevant to water quality impacts on biological diversity and aquatic ecological integrity, including salinity, heavy metals, sediment load, pH, hardness and biological oxygen demand;
  - a program to monitor the effectiveness of:
    - the water management system;
    - surface water flows and quality in Wingecarribee River and Mandemar Creek; and
    - the stream and riparian vegetation health of Wingecarribee River and Mandemar Creek; and
  - a plan to respond to any exceedences of the performance criteria, and mitigate and/or
    offset any adverse surface water impacts of the project; and
- (c) a Groundwater Management Plan, which includes:
  - baseline data of all groundwater levels, yield and quality in the region, and any privately-owned groundwater bores that may be affected by mining operations on site;
  - a program to augment baseline date over the life of the project;
  - detailed hydrogeological assessment of the mining area to enable characterisation of groundwater inflow into the mining area and the degree of depressurisation due to mining activities;
  - a surface/ groundwater connectivity assessment for Wingecarribee River and Mandemar Creek adjacent to the site, including but not necessarily limited to:
    - installation of monitoring bores near the watercourses of Wingecarribee River and Mandemar Creek:
    - stygofauna and hyporheic zone macroinvertebrate sampling for the characterisation of population dynamics (including species present and water quality/ level requirements); and
    - age dating of water collected from groundwater and the hyporheic zone of the watercourses;

- groundwater assessment criteria based upon analysis of baseline data for groundwater, surface water and ecology, including trigger levels for investigating any potentially adverse groundwater impacts;
- a program to monitor the impacts of the project on:
  - the alluvial aquifers;
  - Groundwater Dependent Ecosystems, including any threatened ecological communities or threatened species which are regarded as groundwater dependent, and including stygofauna; and
  - any groundwater bores on privately-owned land;
- a plan to respond to any exceedences of the performance criteria, and mitigate and/or
  offset any adverse groundwater impacts of the project.

Note: The effectiveness of the Water Management Plan is to be reviewed and audited in accordance with the requirements in Schedule 5. Following this review and audit the plan is to be revised to ensure it remains up to date (see Condition 4 of Schedule 5)

## **BIODIVERSITY**

## **Biodiversity Management Plan**

- 32. The Proponent shall prepare and implement a Biodiversity Management Plan for the project to the satisfaction of the Director-General. This plan must:
  - (a) be submitted for approval to the Director-General within six months of the date of this approval;
  - (b) be prepared by a suitably qualified ecologist approved by the Director-General;
  - (c) include measures to ensure compliance with the biodiversity outcomes specified under Condition 1;
  - (d) include a detailed description of measures that would be implemented over the life of the project to protect and conserve biodiversity, including the procedures to be implemented for:
    - weed management (both control and suppression) and monitoring;
    - management of retained native vegetation and habitat;
    - feral animal control;
    - fire management (including asset protection zones);
    - management of public access; and
    - ecological monitoring; and
  - (e) require an appropriately qualified ecologist to attend all vegetation clearing works on the Loch Catherine stockpile area, for the purpose of identifying koalas that may be present on the site, and advising on construction practices and mitigation measures to be applied to avoid adverse impacts on koala individuals or populations.

## **ABORIGINAL HERITAGE**

#### **Aboriginal Heritage Management Plan**

- 33. The Proponent shall prepare and implement an Aboriginal Heritage Management Plan for the project to the satisfaction of the Director-General. This plan must:
  - (a) be prepared in consultation with OEH, the Aboriginal community, and relevant landowners;
  - (b) be submitted for approval to the Director-General within six months of this approval; and
  - (c) include measures to ensure compliance with the Aboriginal heritage outcomes specified under Condition 1.

## **WASTE**

- 34. The Proponent shall:
  - (a) minimise the waste generated by the project; and
  - (b) ensure that the waste generated by the project is appropriately stored, handled and disposed of, to the satisfaction of the Director-General.

#### **REHABILITATION**

## **Rehabilitation Objectives**

35. The Proponent shall rehabilitate the surface facilities sites to the satisfaction of the Executive Director Mineral Resources. This rehabilitation must be generally consistent with the proposed rehabilitation strategy described in the EA, and comply with the objectives in Table 8.

Table 8: Rehabilitation Objectives

Feature	Objective
Surface facilities sites.	Safe, stable and non-polluting.
	Final land use compatible with surrounding land uses.
Portals and vent shafts	To be decommissioned and made safe and stable.
	Retain habitat for threatened species (eg bats), where possible.

Project surface infrastructure.	To be decommissioned and removed, unless the Executive Director Mineral Resources agrees otherwise.	
Community.	Ensure public safety.  Minimise the adverse socio-economic effects associated with mine closure.	

Notes: 1) These rehabilitation objectives apply to all subsidence impacts and environmental consequences caused by mining taking place after the date of this approval; and to all project surface infrastructure part of the project, whether constructed prior to or following the date of this approval.

## **Rehabilitation Management Plan**

- 36. The Proponent shall prepare and implement a Rehabilitation Management Plan for the project to the satisfaction of the Executive Director Mineral Resources. This plan must:
  - (a) be prepared in consultation with the Department, SCA, Council and the CCC;
  - (b) be prepared in accordance with any relevant DRE guideline and be consistent with the rehabilitation objectives in the EA and Table 8;
  - (c) provide for detailed mine closure planning, including measures to minimise socio-economic effects due to mine closure, to be conducted prior to the site being placed on care and maintenance;
  - (d) build, to the maximum extent practicable, on the other management plans required under this approval; and
  - (e) be submitted to the Executive Director Mineral Resources for approval within 12 months of the date of this approval.

<sup>2)</sup> Rehabilitation of subsidence impacts and environmental consequences caused by mining which took place prior to the date of this approval may be subject to the requirements of other approvals (eg under a mining lease or an Subsidence Management Plan approval) or the Proponent's commitments.

<sup>3)</sup> Plans for decommissioning portals and vent shafts are to be prepared in consultation with OEH.

# SCHEDULE 4 ADDITIONAL PROCEDURES

## **NOTIFICATION OF LANDOWNERS**

- As soon as practicable after obtaining monitoring results showing:
  - (a) an exceedance of any relevant noise criteria in Schedule 3, the Proponent shall notify affected landowners and Council in writing of the exceedance, and provide regular monitoring results to each affected landowner until the project is again complying with the relevant criteria; and
  - (b) an exceedance of any relevant air quality criteria in Schedule 3, the Proponent shall send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and/or existing tenants of the land (including the tenants of any mineowned land).

#### INDEPENDENT REVIEW

2. If an owner of privately-owned land considers the project to be exceeding the relevant noise and air quality criteria in Schedule 3, then he/she may ask the Director-General in writing for an independent review of the impacts of the project on his/her land.

If the Director-General is satisfied that an independent review is warranted, then within two months of the Director-General's decision the Proponent shall:

- (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to:
  - consult with the landowner to determine his/her concerns;
  - conduct monitoring to determine whether the project is complying with the relevant criteria in Schedule 3; and
  - if the project is not complying with these criteria, then identify the measures that could be implemented to ensure compliance with the relevant criteria; and
- (b) give the Director-General and landowner a copy of the independent review.
- 3. If the independent review determines that the project is complying with the relevant noise and air quality criteria in Schedule 3, then the Proponent may discontinue the independent review with the approval of the Director-General.

If the independent review determines that the project is not complying with the relevant criteria in Schedule 3, then the Proponent shall:

- (a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent person, and conduct further monitoring until the project complies with the relevant criteria; or
- (b) secure a written agreement with the landowner to allow exceedances of the relevant criteria, to the satisfaction of the Director-General.

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# SCHEDULE 5 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

## **ENVIRONMENTAL MANAGEMENT**

#### **Environmental Management Strategy**

- 1. The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Director-General. This strategy must:
  - (a) be submitted for approval to the Director-General within six months of the date of this approval;
  - (b) provide the strategic framework for the environmental management of the project;
  - (c) identify the statutory approvals that apply to the project;
  - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;
  - (e) describe the procedures that would be implemented to:
    - keep the local community and relevant agencies informed about the operation and environmental performance of the project;
    - receive, handle, respond to, and record complaints;
    - resolve any disputes that may arise during the course of the project;
    - respond to any non-compliance;
    - respond to emergencies; and
  - (f) include:
    - copies of any strategies, plans and programs approved under the conditions of this approval; and
    - a clear plan depicting all the monitoring required to be carried out under the conditions of this approval.

## **Management Plan Requirements**

- 2. The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:
  - (a) detailed baseline data;
  - (b) a description of:
    - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - any relevant limits or performance measures/criteria;
    - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;
  - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
  - (d) a program to monitor and report on the:
    - impacts and environmental performance of the project;
    - effectiveness of any management measures (see c above);
  - (e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible:
  - (f) a program to investigate and implement ways to improve the environmental performance of the project over time;
  - (g) a protocol for managing and reporting any:
    - incidents:
    - complaints;
    - non-compliances with statutory requirements; and
    - exceedances of the impact assessment criteria and/or performance criteria; and
  - (h) a protocol for periodic review of the plan.

Note: The Director-General may waive some of these requirements if they are unnecessary for particular management plans.

## **Adaptive Management**

3. The Proponent must assess and manage project-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria and/or performance measures has occurred, the Proponent must, at the earliest opportunity:

(a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur:

- (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
- (c) implement remediation measures as directed by the Director-General, to the satisfaction of the Director-General.

#### **Annual Review**

- 4. By 31 March 2013, and annually thereafter, the Proponent shall review the environmental performance of the project to the satisfaction of the Director-General. This review must:
  - (a) describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;
  - (b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against the:
    - the relevant statutory requirements, limits or performance measures/criteria;
    - requirements of any plan or program required under this approval;
    - · the monitoring results of previous calendar years; and
    - the relevant predictions in the EA:
  - (c) identify any non-compliance over the previous calendar year, and describe what actions were (or are being) taken to ensure compliance;
  - (d) identify any trends in the monitoring data over the life of the project;
  - (e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and
  - (f) describe what measures will be implemented over the calendar year to improve the environmental performance of the project.

## Revision of Strategies, Plans and Programs

- 5. Within three months of:
  - (a) the submission of an annual review under Condition 4 above;
  - (b) the submission of an incident report under Condition 7 below;
  - (c) the submission of an audit under Condition 9 below; and
  - (d) any modification to the conditions of this approval (unless the conditions require otherwise), the Proponent shall review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Director-General.

Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.

## **Community Consultative Committee**

6. The Proponent shall establish and operate a Community Consultative Committee (CCC) for the project in general accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (Department of Planning, 2007, or its latest version), and to the satisfaction of the Director-General. This CCC must be operating within six months of the date of this approval.

## Notes:

- The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Proponent complies with this approval; and
- In accordance with the guideline, the Committee should be comprised of an independent chair and appropriate representation from the Proponent, Council, recognised environmental groups and the local community.

#### **REPORTING**

# **Incident Reporting**

7. The Proponent shall notify, at the earliest opportunity, the Director-General and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incidents associated with the project, the Proponent shall notify the Director-General and any other relevant agencies as soon as practicable after the Proponent becomes aware of the incident. Within seven days of the date of the incident, the Proponent shall provide the Director-General and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

#### Regular Reporting

 The Proponent shall provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.

#### INDEPENDENT ENVIRONMENTAL AUDIT

- 9. Within 12 months of this approval and every three years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:
  - (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General;
  - (b) include consultation with the relevant agencies;
  - (c) assess the environmental performance of the project and assess whether it is complying with the requirements in this approval and any relevant EPL or Mining Lease (including any assessment, plan or program required under these approvals);
  - (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and
  - (e) recommend appropriate measures or actions to improve the environmental performance and rehabilitation of the project while on care and maintenance or following mine closure.

Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Director-General.

10. Within six weeks of the completion of this audit, or as otherwise agreed by the Director-General, the Proponent shall submit a copy of the audit report to the Director-General, together with its response to any recommendations contained in the audit report.

#### **ACCESS TO INFORMATION**

- 11. From 31 October 2012, the Proponent shall:
  - (a) make copies of the following publicly available on its website:
    - the documents referred to in condition 2 of Schedule 2;
    - all relevant statutory approvals for the project;
    - all approved strategies, plans and programs required under the conditions of this approval;
    - a comprehensive summary of the monitoring results of the project, reported in accordance
      with the specifications in any approved plans or programs required under the conditions of
      this or any other approval;
    - a complaints register, which is to be updated on a monthly basis;
    - minutes of CCC meetings;
    - the annual reviews required under this approval;
    - any independent environmental audit of the project, and the Proponent's response to the recommendations in any audit;
    - · any other matter required by the Director-General; and
  - (b) keep this information up-to-date,

to the satisfaction of the Director-General.