# **Project Approval**

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

I approve the project referred to in schedule 1, subject to the conditions in schedules 2 to 4.

These conditions are required to:

- prevent and/or minimise 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.

Frank Sartor MP Minister for Planning

Sydney 2007

SCHEDULE 1

Application No: 05\_0102

Proponent: Narrabri Coal Pty Limited

Approval Authority: Minister for Planning

Land: See Appendix 1

Project: Narrabri Coal Project

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## **DEFINITIONS**

AEMR Annual Environmental Management Report

BCA Building Code of Australia

CCC Community Consultative Committee

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

Sundays and Public Holidays

DECC Department of Environment and Climate Change

Department Department of Planning

Director-General Director-General of Department of Planning, or delegate

DPI Department of Primary Industries
DWE Department of Water and Energy

EA Environmental Assessment prepared for Narrabri Coal Pty Limited entitled

Narrabri Coal Project Environmental Assessment and Specialist Consultant Studies Compendium, Volumes 1&2 (April 2007), including the Response to Public and Government Agency Submissions (June 2007) and Preferred Project

Report (June 2007)

EP&A Act Environmental Planning and Assessment Act 1979

EP&A Regulation Environmental Planning and Assessment Regulation 2000

EPL Environment Protection Licence issued under the *Protection of the Environment* 

Operations Act 1997

Evening The period from 6pm to 10pm GSC Gunnedah Shire Council

Kamilaroi Highway Intersection The intersection of the Kamilaroi Highway and the mine access road and "Bow

Hills" quarry access road (see Figure 4 of Appendix 2)

km Kilometre

Land 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

Material harm to the environment Material harm to the environment as defined in Protection of the Environment

Operations Act 1997

Mining operations The extraction, processing and transportation of coal on the site, including the

formation of mine access drifts

Minister for Planning, or delegate

NSC Narrabri Shire Council

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

Sundays and Public Holidays

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

subsidiary)

Proponent Narrabri Coal Pty Limited or any other person or persons who rely on this

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

Project The Narrabri Coal Project described in the EA

RTA Roads and Traffic Authority

ROM Run-of-mine

Site Land to which the project application applies (see Appendix 2)

Statement of Commitments The Proponent's commitments in Appendix 4

Subsidence Subsidence of the land surface caused by underground coal mining

## SCHEDULE 2 ADMINISTRATIVE CONDITIONS

## **Obligation to Minimise Harm to the Environment**

1. The Proponent shall implement all practicable 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 (see Appendix 3); and
  - (c) conditions of this approval.

Note: The general layout of the project is shown in Figure 1 of Appendix 2.

- 3. If there is any inconsistency between the above documents, the later 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 and feasible requirements of the Director-General arising from the Department's assessment of:
  - (a) any reports, plans, programs, strategies or correspondence that are submitted in accordance with the conditions of this approval; and
  - (b) the implementation of any actions or measures contained in these reports, plans, programs, strategies or correspondence.

## **Limits on Approval**

5. Mining operations may take place on the site for 21 years from the grant of the mining lease for the project.

Note: Under this Approval, the Proponent is required to rehabilitate the site to the satisfaction of the Director-General and DPI. Consequently this approval will continue to apply in all other respects other than the right to conduct mining operations until the site has been rehabilitated to a satisfactory standard.

- 6. The Proponent shall not extract more than 2.5 million tonnes of ROM coal a year from the site.
- 7. The Proponent shall transport all coal from the site by rail.

#### **Management Plans / Monitoring Programs**

8. With the approval of the Director-General, the Proponent may submit any management plan or monitoring program required by this approval on a progressive basis.

## 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 the relevant requirements of the BCA.

#### Notes

- Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works.
- 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 plant and equipment used on site is:
  - (a) maintained in a proper and efficient condition; and
  - (b) operated in a proper and efficient manner.

## **Planning Agreements**

- 12. Within 12 months of this approval, the Proponent shall enter into a planning agreements with Narrabri Shire Council (NSC), Gunnedah Shire Council (GSC) and the Minister in accordance with:
  - (a) Division 6 of Part 4 of the EP&A Act; and
  - (b) the terms of the Proponent's offer to the Minister on 7 September 2007, which includes the matters set out in Appendix 4.

## SCHEDULE 3 SPECIFIC ENVIRONMENTAL CONDITIONS

#### **WATER MANAGEMENT**

Note: These conditions should be read in conjunction with sections 6, 7, 8 and 11 of the Statement of Commitments.

#### **Great Artesian Basin**

1. Within 5 years of the date of this approval, the Proponent shall ensure that any loss of water flow into the Great Artesian Basin aquifers (equal to the maximum predicted impact, or the measured impact of the project, whichever is the greater), is managed, licensed or offset to the satisfaction of DWE.

Note: The EA predicts a maximum impact of 100 megalitres a year for Great Artesian Basin aquifers in year 50 of the project.

## **Groundwater Model**

- 2. Within 12 months of the commencement of mining operations, the Proponent shall undertake a transient calibration of the groundwater model presented in the EA, in consultation with DWE and DECC, and to the satisfaction of the Director-General.
- 3. Following the completion of the transient calibration of the groundwater model and the first annual review of the water balance, the Proponent shall prepare a Dewatering Contingency Plan. This plan must:
  - (a) be prepared in consultation with DWE and DECC and to the satisfaction of the Director-General;
  - (b) identify the freeboard required to prevent the evaporation/storage ponds from discharge of water under weather conditions of a 1 in 100 year 72 hour storm event for the site;
  - (c) contain measures to ensure minewater is not pumped to the evaporation/storage ponds once this freeboard level is reached;
  - (d) identify lead times required for the construction of a water conditioning plant to ensure the capacity of the site's evaporation /storage ponds is not exceeded (see below);
  - (e) refine its estimates of quantities of salts that would be accumulated within the evaporation/storage ponds over the life of the project;
  - (f) identify how it would manage and/or dispose of these accumulated salts, in consultation with DWE and DECC, and to the satisfaction of the Director-General.
- 4. The Proponent must commence construction of the water conditioning plant identified in condition 10(d) when daily mine dewatering volumes exceed 0.88 megalitres, or an alternative trigger point based on a review of the water balance and model and established in consultation with DWE and DECC, and approved by the Director-General.

## **Discharge**

5. Except as may be expressly provided for by an EPL, the Proponent shall not discharge any surface waters from the site. However, product water from the water conditioning plant may be transferred to water users in accordance with an approved Water Management Plan (see below).

## **Evaporation/Storage Ponds**

- 6. The Proponent shall:
  - construct evaporation/storage ponds incorporating the use of low permeability layers to manage minewater generated by the project;
  - (b) prior to commencement of construction, submit pond designs and a construction QA/QC program to DECC; and
  - (c) prior to commissioning the ponds, summit an "as constructed" report, produced by an experienced and qualified engineer, to DECC;
  - to the satisfaction of the Director-General.

## **Water Management Plan**

7. The Proponent shall prepare and implement a Water Management Plan for the project to the satisfaction of the Director-General. This plan must be submitted to the Director-General for approval prior to the commencement of construction activities (not including the construction of the Kamilaroi Highway

intersection) in consultation with DECC and DWE by suitably qualified expert/s whose appointment/s have been approved by the Director-General and include a:

- (a) Site Water Balance:
- (b) Erosion and Sediment Control Plan;
- (c) Surface Water Monitoring Plan;
- (d) Groundwater Monitoring Program; and
- (e) Surface and Groundwater Response Plan, setting out the procedures for:
  - investigating, and if necessary mitigating, any exceedances of the surface or groundwater assessment criteria (see below); and
  - responding to any unforeseen impacts of the project.

#### Site Water Balance

- 8. The Site Water Balance must:
  - (a) include details of:
    - sources and security of water supply;
    - · water use on site;
    - water management on site;
    - off-site water transfers;
    - reporting procedures;
  - (b) describe measures to minimise water use by the project; and
  - (c) be reviewed and recalculated each year in the light of the most recent water monitoring data.

#### **Erosion and Sediment Control**

- 9. The Erosion and Sediment Control Plan must:
  - (a) be consistent with the requirements of *Managing Urban Stormwater: Soils and Construction* manual (Landcom, 2004), or its latest version:
  - (b) identify activities that could cause soil erosion and generate sediment;
  - (c) describe measures to minimise soil erosion and the potential for transport of sediment to downstream waters:
  - (d) describe the location, function, and capacity of erosion and sediment control structures; and
  - (e) describe what measures would be implemented to monitor and maintain the structures over time.

## **Surface Water Monitoring Program**

- 10. The Surface Water Monitoring Plan must include:
  - (a) detailed baseline data on surface water flows and quality in creeks and other waterbodies that could be affected by the project;
  - (b) surface water impact assessment criteria;
  - (c) a program to monitor the impact of the project on surface water flows and quality;
  - (d) procedures for reporting the results of this monitoring.

## **Groundwater Monitoring Program**

- 11. The Groundwater Monitoring Program must include:
  - (a) further development of the regional and local groundwater model;
  - (b) detailed baseline data to benchmark the natural variation in groundwater levels, yield and quality (including at any privately owned bores in the vicinity of the site);
  - (c) groundwater impact assessment criteria;
  - (d) a program to monitor the impact of the project on groundwater levels, yield and quality;
  - (e) a program to monitor, (by the use of shallow piezometers/lysimeters), detect, and quantify any leakage from the site's evaporation/storage ponds; and
  - (f) procedures for reporting the results of this monitoring.

#### **NOISE**

Note: These conditions should be read in conjunction with section 15 of the Statement of Commitments.

#### **Impact Assessment Criteria**

12. The Proponent shall ensure that the noise generated by the project does not exceed the levels set out in Table 1 at any privately-owned residence.

Location  Lag  Lag(15 minute)	Day	Evening	Night	
	L <sub>Aeq(15 minute)</sub>	L <sub>Aeq(15 minute)</sub>	L <sub>A1(1 minute)</sub>	
All privately owned residences	35	35	35	45

Table 1: Impact assessment criteria dB(A)

#### Notes:

- To determine compliance with the L<sub>Aeq(15 minute)</sub> limit, noise from the project is to be measured at the most affected point within the residential boundary, or at the most affected point within 30 metres of a dwelling (rural situations) where the dwelling is more than 30 metres from the boundary. Where it can be demonstrated that direct measurement of noise from the project is impractical, the DECC may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy). The modification factors in Section 4 of the NSW Industrial Noise Policy shall also be applied to the measured noise levels where applicable.
- These limits apply under the relevant meteorological conditions outlined in the assessment procedures in Chapter 5 of the NSW Industrial Noise Policy.
- To determine compliance with the L<sub>A1(1 minute)</sub> noise limits, noise from the project is to be measured at 1 metre from the dwelling façade. Where it can be demonstrated that direct measurement of noise from the project is impractical, the DECC may accept alternative means of determining compliance (see Chapter 11 of the NSW Industrial Noise Policy).
- These limits do not apply if the Proponent has an agreement with the relevant owner/s of these residences to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement.

## **Continuous Improvement**

- 13. The Proponent shall:
  - (a) implement all reasonable and feasible best practice noise mitigation measures;
  - (b) investigate ways to reduce the noise generated by the project, including off-site road and rail noise and maximum noise levels which may result in sleep disturbance; and
  - (c) report on these investigations and the implementation and effectiveness of these measures in the AEMR.

to the satisfaction of the Director-General.

## Monitoring

- 14. The Proponent shall prepare and implement a Noise Monitoring Program for the project to the satisfaction of the Director-General. This program must:
  - (a) be submitted to the Director-General for approval prior to the commencement of construction activities:
  - (b) be prepared in consultation with the DECC;
  - (a) use attended noise monitoring measures to monitor the performance of the project
  - (c) include a protocol to establish whether the project is complying with the noise impact assessment criteria in Table 1.

## **BLASTING AND VIBRATION**

Note: These conditions should be read in conjunction with section 2 of the Statement of Commitments.

#### **Airblast Overpressure Limits**

15. The Proponent shall ensure that the airblast overpressure level from blasting at the project does not exceed the criteria in Table 2 at any residence on privately-owned land.

Airblast overpressure level (dB(Lin Peak))	Allowable exceedance
115	5% of the total number of blasts in a 12 month period
120	0%

Table 2: Airblast overpressure impact assessment criteria

Note: The overpressure values in Table 2 apply when the measurements are performed with equipment having a lower cut-off frequency of 2 Hz or less. If the instrumentation has a higher cut-off frequency a correction of 5 dB should be added to the measured value. Equipment with a lower cut-off frequency exceeding 10 Hz should not be used.

## **Ground Vibration Impact Assessment Criteria**

16. The Proponent shall ensure that the ground vibration level from blasting, or any other activity at the project does not exceed the criteria in Table 3 at any residence on privately-owned land.

Peak particle velocity (mm/s)	Allowable exceedance	
5	5% of the total number of blasts in a 12 month period	
10	0%	

Table 3: Ground vibration impact assessment criteria

## **Blasting Hours**

17. The Proponent shall only carry out blasting associated with construction activities on site between 10 am and 4pm Monday to Friday.

## **Blasting Frequency**

- 18. The Proponent may carry out:
  - (a) a maximum of 2 blasts a day associated with construction activities; and
  - (b) 5 blasts a week associated with construction activities, averaged over a 12 month period; on site without the written approval of the Director-General.

## **Property Inspections**

- 19. Before carrying out any blasting, the Proponent shall advise all landowners within 2 km of proposed blasting activities, and any other landowner nominated by the Director-General, that they are entitled to a property inspection.
- 20. If the Proponent receives a written request for a property inspection from any landowner within 2 km of proposed blasting activities, or any other landowner nominated by the Director-General, the Proponent shall within 3 months of receiving this request:
  - (a) commission a suitably qualified person, whose appointment has been approved by the Director-General, to inspect the condition of any building or structure on the land, and recommend measures to mitigate any potential blasting impacts; and
  - (b) give the landowner a copy of this property inspection report.

## **Property Investigations**

- 21. If any landowner within a 2 km of proposed blasting activities, or any other landowner nominated by the Director-General, claims that his/her property, including vibration-sensitive infrastructure such as water supply or underground irrigation mains, has been damaged as a result of blasting at the project, the Proponent shall within 3 months of receiving this request:
  - (a) commission a suitably qualified person whose appointment has been approved by the Director-General to investigate the claim; and

(b) give the landowner a copy of the property investigation report.

If this independent investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent shall repair the damages to the satisfaction of the Director-General.

If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Director-General for resolution.

## Monitoring

22. Prior to the commencement of blasting, the Proponent shall prepare and implement a detailed Blasting Monitoring Program for the project to the satisfaction of the Director-General.

#### **AIR QUALITY**

Note: These conditions should be read in conjunction with section 13 of the Statement of Commitments.

#### **Impact Assessment Criteria**

23. The Proponent shall ensure that dust emissions generated by the project does not cause additional exceedances of the criteria listed in Tables 4 to 6 at any residence on privately owned land, or on more than 25 percent of any privately-owned land.

Pollutant	Averaging period	Criterion
Total suspended particulate (TSP) matter	Annual	90 μg/m³
Particulate matter < 10 μm (PM <sub>10</sub> )	Annual	30 μg/m <sup>3</sup>

Table 4: Long term impact assessment criteria for particulate matter

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

Table 5: Short term impact assessment criteria for particulate matter

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

Table 6: Long term impact assessment criteria for deposited dust

Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia, 1991, AS/NZS 3580.10.1-2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulates - Deposited Matter - Gravimetric Method.

## Monitoring

- 24. The Proponent shall prepare and implement an Air Quality Monitoring Program for the project to the satisfaction of the Director-General. This program must:
  - (a) be submitted to the Director-General prior to the commencement of construction activities (not including the construction of the Kamilaroi Highway intersection);
  - (b) be prepared in consultation with the DECC; and
  - (c) use a combination of high volume samplers and dust deposition gauges to monitor the performance of the project.

#### **METEOROLOGICAL MONITORING**

25. During the project, the Proponent shall ensure there is a suitable meteorological station on site that complies with the requirements in *Approved Methods for Sampling of Air Pollutants in New South Wales* (DECC, 2007), or its latest version.

#### **SUBSIDENCE**

#### **Subsidence Impact Limits**

26. The Proponent shall ensure that the project does not result in subsidence impacts of greater than 20 mm vertical subsidence on any land.

#### **Notification of Landowners**

27. Six months prior to mining occurring under each privately owned property, the Proponent shall notify the relevant landowner/s of the extent of planned mining operations under their property.

## LANDSCAPE MANAGEMENT

Note: These conditions should be read in conjunction with sections 5, 9 and 11 of the Statement of Commitments.

#### Rehabilitation

28. The Proponent shall rehabilitate the site to the satisfaction of the Director-General and DPI.

#### Landscape Management Plan

- 29. The Proponent shall prepare and implement a detailed Landscape Management Plan for the site to the satisfaction of the Director-General and DPI. This plan must:
  - (a) be submitted to the Director-General for approval within 12 months of this approval;
  - (b) be prepared by suitably qualified expert/s whose appointment/s have been endorsed by the Director-General;
  - (c) be prepared in consultation with DWE, DECC and NSC; and
  - (d) include a:
    - · Rehabilitation Management Plan; and
    - Mine Closure Plan.

## **Rehabilitation Management Plan**

- 30. The Rehabilitation Management Plan must include:
  - (a) the rehabilitation objectives for the site;
  - (b) a strategic description of how the rehabilitation of the site would be integrated with surrounding land use:
  - a general description of the short and long term measures that would be implemented to rehabilitate the site;
  - (d) a detailed description of the measures that would be implemented to rehabilitate the site, including the measures to be implemented for:
    - managing the remnant vegetation and habitat on site;
    - minimising impacts on fauna;
    - minimising visual impacts;
    - · conserving and reusing topsoil;
    - controlling weeds, feral pests, and access;
    - managing bushfires; and
    - managing any potential conflicts between the rehabilitation works and Aboriginal cultural heritage.
  - (e) detailed performance and completion criteria for the rehabilitation of the site;
  - (f) a detailed description of how the performance of the rehabilitation works would be monitored over time to achieve the stated objectives and against the relevant performance and completion criteria; and
  - (g) details of who is responsible for monitoring, reviewing and implementing the plan.

#### Mine Closure Plan

- 31. The Mine Closure Plan must:
  - (a) define the objectives and criteria for mine closure;
  - (b) investigate options for the future use of the site;
  - (c) provide a detailed methodology for decommissioning the site's evaporation/storage ponds and the treatment of any accumulated salt within or around those ponds:
  - investigate ways to minimise the adverse socio-economic effects associated with mine closure, including reduction in local and regional employment levels;
  - describe the measures that would be implemented to minimise or manage the on-going environmental effects of the project; and
  - (f) describe how the performance of these measures would be monitored over time.

#### **HERITAGE**

Note: These conditions should be read in conjunction with section 10 of the Statement of Commitments.

## **Aboriginal Cultural Heritage Management Plan**

- 32. The Proponent shall not destroy any known Aboriginal objects (as defined in the *National Parks and Wildlife Act 1974*) without the written approval of the Director-General.
- 33. The Proponent shall prepare and implement an Aboriginal Cultural Heritage Management Plan for the project to the satisfaction of the Director-General. This plan must:
  - (a) be submitted the Director-General prior to the commencement of construction activities (not including the construction of the Kamilaroi Highway intersection);
  - (b) be prepared in consultation with the DECC and the Narrabri Local Aboriginal Land Council;
  - include a protocol for the ongoing consultation and involvement of Aboriginal communities in the conservation and management of Aboriginal heritage on site;
  - (d) describe the measures that would be implemented to protect Aboriginal sites on site, or if any new Aboriginal objects or skeletal remains are discovered during the project.

## **TRANSPORT**

Note: These conditions should be read in conjunction with section 14 of the Statement of Commitments.

## Kamilaroi Highway Intersection

- 34. The Proponent shall construct the Kamilaroi Highway intersection in consultation with NSC and to the satisfaction of RTA. This intersection must:
  - (a) be completed, other than for items listed in (c) below, prior to the commencement of construction activities on site (with the exception of construction of the Access Road);
  - (b) be constructed in accordance with a Traffic Management Plan approved by NSC and RTA;
  - (c) include boom gates, flashing lights and warning bells for the Kurrajong Creek Road level crossing, to the satisfaction of ARTC and NSC;
  - include illumination of the Kurrajong Creek Road level crossing during construction of the intersection:
  - (e) provide a information sign on Kurrajong Creek Road to inform road users of likely delays due to train traffic; and
  - (f) maintain permanent access for the "Bow Hills" quarry.

## **Kurrajong Creek Road**

35. Within 12 months of commencement of mining operations, the Proponent shall bitumen seal Kurrajong Creek Road (Shire Road 188) for a distance of 7 km south of the Kamilaroi Highway intersection (see Figure 2 of Appendix 2), to the satisfaction of NSC.

#### **VISUAL IMPACT**

Note: These conditions should be read in conjunction with section 12 of the Statement of Commitments.

#### **Visual Amenity**

36. The Proponent shall minimise the visual impacts of the project to the satisfaction of the Director-General.

#### **Lighting Emissions**

- 37. The Proponent shall ensure that:
  - (a) no outdoor lights shine above the horizontal; and
  - (b) all external lighting associated with the project complies with Australian Standard AS4282 (INT) 1995

     Control of Obtrusive Effects of Outdoor Lighting.

#### **GREENHOUSE GAS**

Note: These conditions should be read in conjunction with section 13 of the Statement of Commitments.

#### **Energy Savings Action Plan**

- 38. The Proponent shall prepare and implement an Energy Savings Action Plan for the project to the satisfaction of the Director-General. This plan must:
  - (a) be prepared in consultation with DECC;
  - (b) be prepared in accordance with the *Guidelines for Energy Savings Action Plans* (DEUS, 2005), or its latest version:
  - (c) be submitted to the Director-General for approval within 3 months of this approval; and
  - (d) include a program to monitor the effectiveness of measures to reduce energy use on site.

## **Gas Drainage**

- 39. The Proponent shall implement all reasonable and feasible measures to minimise the greenhouse gas emissions from the underground mining operations to the satisfaction of the Director-General.
- 40. Prior to carrying out underground coal mining operations, the Proponent shall submit a Greenhouse Gas Minimisation Plan to the Director-General. This plan must:
  - (a) identify options for minimising greenhouse gas emissions from underground mining operations, with a
    particular focus on capturing and/or using these emissions;
  - (b) investigate the feasibility of implementing each option;
  - (c) propose the measures that would be implemented in the short to medium term on site; and
  - (d) include a research program to inform the continuous improvement of the greenhouse gas minimisation measures on site.

## **WASTE**

Note: These conditions should be read in conjunction with section 9 of the Statement of Commitments.

## **Waste Minimisation**

- 41. The Proponent shall prepare and implement a Waste Management Plan for the project to the satisfaction of the Director-General. This plan must:
  - (a) be submitted to the Director-General for approval prior to commencing of construction;
  - (b) identify the various waste streams of the project:
  - (c) describe what measures would be implemented to reuse, recycle, or minimise the waste generated by the project:
  - (d) ensure irrigation of treated wastewater is undertaken in accordance with *Environmental Guidelines:* Use of Effluent by Irrigation (DEC, 2004), or its latest version; and
  - (e) include a program to monitor the effectiveness of these measures.

## **SCHEDULE 4**

## **ENVIRONMENTAL MANAGEMENT, MONITORING, AUDITING AND REPORTING**

Note: This schedule should be read in conjunction with sections 18 and 19 of the Statement of Commitments.

## **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 be submitted to the Director-General prior to the commencement of construction activities, and:
  - (a) provide the strategic context for environmental management of the project;
  - (b) identify the statutory requirements that apply to the project;
  - describe in general how the environmental performance of the project would be monitored and managed;
  - (d) 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;
    - · manage cumulative impacts; and
    - · respond to emergencies; and
  - (e) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project.

## **ENVIRONMENTAL MONITORING PROGRAM**

2. The Proponent shall prepare and implement an Environmental Monitoring Program for the project to the satisfaction of the Director-General. This program must be submitted to the Director-General within 6 months of this approval and consolidate the various monitoring requirements in schedule 3 of this approval into a single document.

## **REPORTING**

## **Incident Reporting**

- 3. As soon as practicable, and in any event within 24 hours of detecting an exceedance of the limits/performance criteria in this approval or the occurrence of an incident that causes (or may cause) material harm to the environment, the Proponent shall notify the Department and other relevant agencies of the exceedance/incident.
- 4. Within 6 days of notifying the Department and other relevant agencies of an exceedance/incident, the Proponent shall provide the Department and these agencies with a written report that:
  - (a) describes the date, time, and nature of the exceedance/incident;
  - (b) identifies the cause (or likely cause) of the exceedance/incident;
  - (c) describes what action has been taken to date; and
  - (d) describes the proposed measures to address the exceedance/incident.

## **Annual Reporting**

- 5. Within 12 months of this approval, and annually thereafter, the Proponent shall submit an AEMR to the Director-General and to all relevant agencies. This report must:
  - (a) identify the standards and performance measures that apply to the project;
  - (b) describe the works carried out in the last 12 months;
  - (c) describe the works that would be carried out in the next 12 months;
  - (d) include a summary of the complaints received during the past year, and compare this to the complaints received in previous years;
  - (e) include a summary of the monitoring results for the project during the past year;
  - (f) include an analysis of these monitoring results against the relevant:
    - impact assessment criteria/limits;
    - monitoring results from previous years; and

- predictions in the EA;
- (g) identify any trends in the monitoring results over the life of the project;
- (h) identify any non-compliance during the previous year; and
- (i) describe what actions were, or are being, taken to ensure compliance.

## INDEPENDENT ENVIRONMENTAL AUDIT

- 6. Within 2 years of this approval, and every 3 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 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 relevant requirements of this approval and any relevant mining lease or EPL (including any strategy, plan or program required under these approvals);
  - (d) review the adequacy of strategies, plans or programs required under these approvals; and, if appropriate,
  - (e) recommend measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under these approvals.

Note: This audit team must be led by a suitably qualified auditor and include experts in the fields of water and noise management.

- 7. Within 6 weeks of the completing 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.
- 8. Within 3 months of submitting the audit report to the Director-General, the Proponent shall review, and if necessary revise the strategies/plans/programs required under this approval to the satisfaction of the Director-General.

## **COMMUNITY CONSULTATIVE COMMITTEE**

9. Within 3 months of this approval, the Proponent shall establish a Community Consultative Committee (CCC) for the project to the satisfaction of the Director-General, in general accordance with the *Guideline for Establishing and Operating Community Consultative Committees for Mining Projects (Department of Planning, 2007)*, or its latest version.

## **ACCESS TO INFORMATION**

- 10. Within 3 months of the approval of any strategy/plan/ program required under this approval (or any subsequent revision of these strategies/plans/ programs), or the completion of the audits or AEMRs required under this approval, the Proponent shall:
  - (a) provide a copy of the relevant document/s to the relevant agencies and CCC; and
  - (b) put a copy of the relevant document/s on its website.
- 11. During the project, the Proponent shall:
  - (a) make a summary of monitoring results required under this approval publicly available at the mine and on its website; and
  - (b) update these results on a regular basis (at least every three months).

## APPENDIX 1 SCHEDULE OF PROJECT LAND

Area	Land Title Reference	
Pit Top Area	Part Lot 60 DP 757124	
	Part Lots 151 & 152 DP 816020.	
Indicative Mining Area	Part Lots 57, 58, 63 to 65, 81 to 84 & 115 DP 757124	
	Lot 61 DP 757124	
	Part Lot 1 DP 811171, Lot 2 DP 811171	
	Part Lots 3, 8, 25, 67 & 68 DP 757104	
	Lot 7 DP 757104	
	Part Lot 152 DP 816020	
	Lot 1 DP 659899, Part Lot 3 DP 1005608	
	Part Pilliga East State Forest	
	Various Crown roads.	
Remainder of Project Site	Lots 381 & 382 DP 1028753	
	Part Lot 1 DP 798487	
	Part Lots 57, 58, 60, 63 to 65, 81 to 84, 115 DP 757124	
	Part Lot 1 DP 811171	
	Part Lots 3, 8, 10, 25, 67 & 68 DP 757104	
	Part Lot 3 DP 1005608	
	Part Lots 151 & 152 DP 816020	
	Part Pilliga East State Forest	
	Various Crown roads.	

# APPENDIX 2 PROJECT MAPS

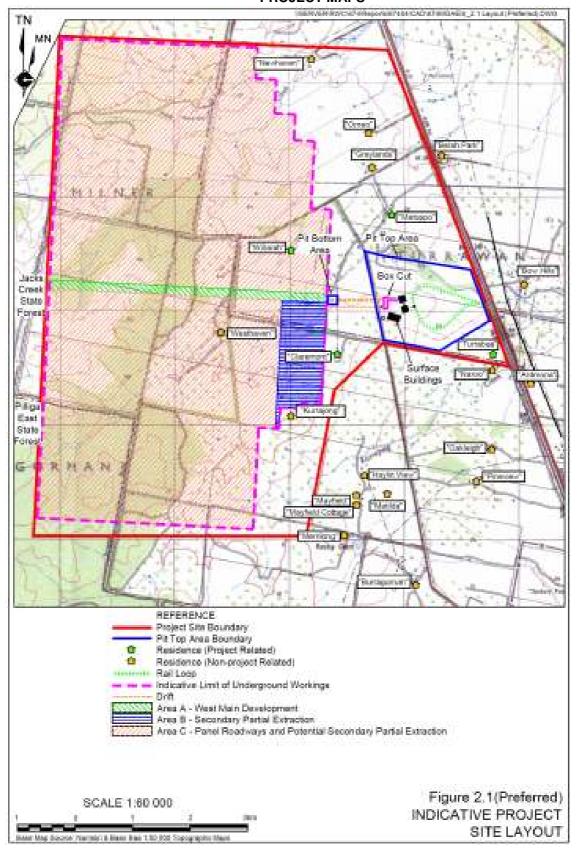


Figure 1: Project Layout

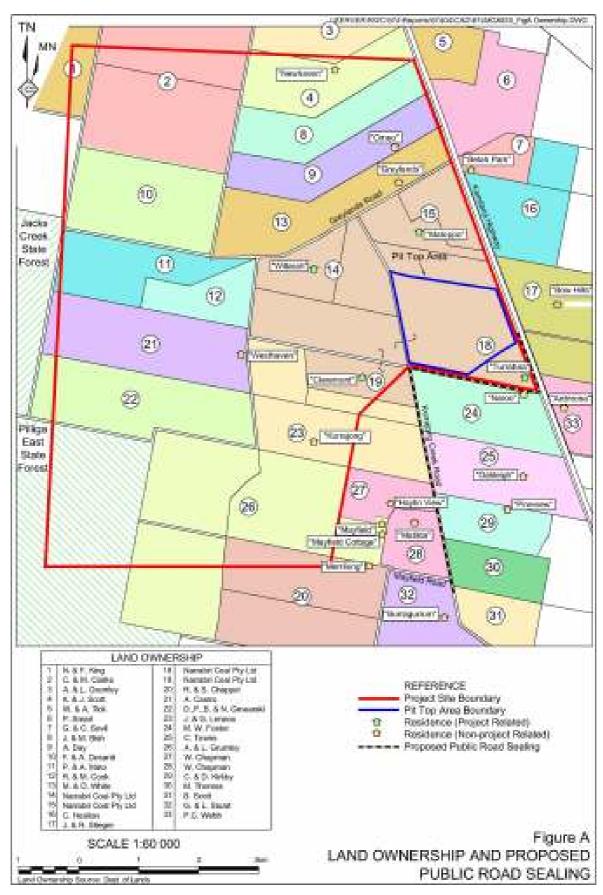


Figure 2: Section of Kurrajong Creek Road proposed to be sealed

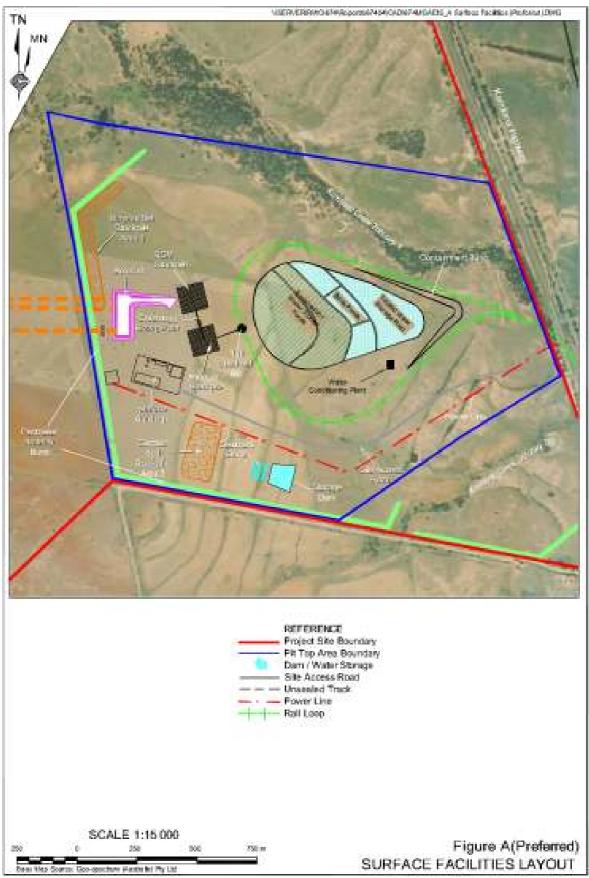


Figure 3: Surface Facilities Layout

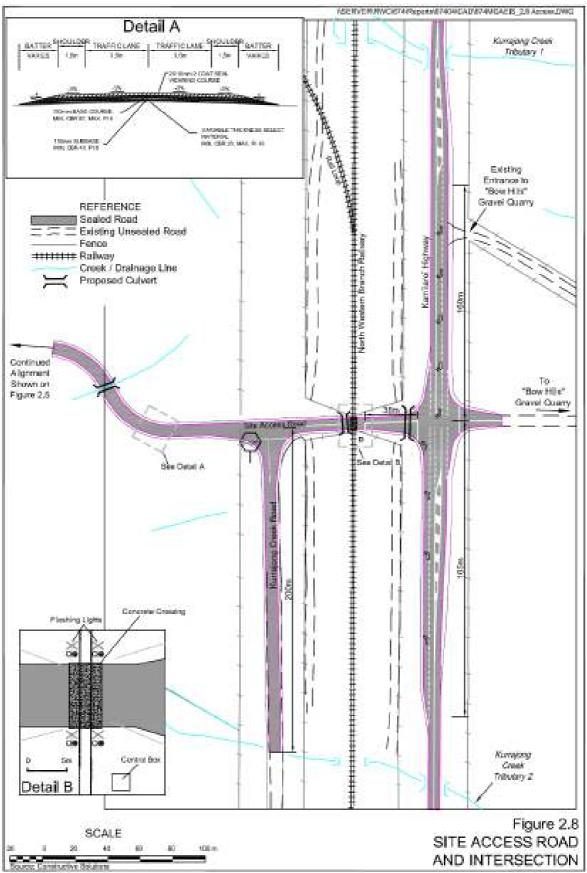


Figure 4: Proposed Kamilaroi Highway Intersection

# APPENDIX 3 STATEMENT OF COMMITMENTS

# APPENDIX 4 GENERAL TERMS OF PLANNING AGREEMENTS

Funding Area	Minimum Proponent Contribution	Funding Time Frame
Narrabri Shire Upgrade and seal Kurrajong Creek Road, adjacent to the Project site	7.0 kilometres length of Kurrajong Creek Road to be upgraded and sealed.	Works to be completed within 12 months of this approval.
Narrabri Shire Monetary Contribution – Provision of bush fire services	\$7,000	One instalment to be paid within 12 months of this approval.
Narrabri Shire Community Infrastructure Contribution	\$93,000	An initial instalment of \$13,000 to be paid within 12 months of this approval with \$20,000 to paid for a period of four years on the anniversary of the initial payment.
Gunnedah Shire Monetary Contribution – Gunnedah Urban Riverine Scheme	\$100,000	\$20,000 each year for a period of 5 years with the first instalment to be paid within 12 months of this approval.

## Notes:

- The Gunnedah Urban Riverine Scheme Contributions must be reviewed and adjusted to take into account any
  increase in the CPI over time, in accordance with the Planning Agreement between the Proponent and Gunnedah
  Shire Council required under this approval.
- The Community Infrastructure Contribution must be reviewed and adjusted to take into account any increase in the CPI over time, in accordance with the Planning Agreement and Narrabri Shire Council required under this approval.