

OUT14/11304 MCV14/10

Dr Greg Tarrant Technical Services Manager Metropolitan Collieries Pty Ltd PO Box 402 HELENSBURGH NSW 2508

Dear Dr Tarrant,

# Subsidence Management Plan for Longwall 23A within ML 1610

With reference to your application dated 16 September 2013, I have approved the Metropolitan Colliery ML1610 Longwall 23A Subsidence Management Plan, as the delegate of the Secretary, Department of Trade and Investment, Regional Infrastructure and Services NSW (delegation dated 17 November 2010), under the attached instrument, reference OUT14/11302.

The conditions of approval and Approved Plan showing the extent of the approval are attached. The Approved Plan is DRG No. M130910/1 titled "Metropolitan Mine Approved Plan LW 23A Proposed Extraction (ML1610)", signed by the Manager of Mine Engineering on 11 September 2013.

It should be noted that this Approval does not constitute an approval under the previous Section 138 of the Coal Mines Regulation Act 1982 or current Clause 88 of the Coal Mines Health and Safety Regulation 2006. Operators must comply with the requirements of Section 138 or Clause 88 before extracting any pillars from the first workings or longwall or other extraction systems.

If you have any further enquiries do not hesitate to contact Mr Paul Langley, Subsidence Executive Officer on (02) 4931 6448.

Yours sincerely

B. W. Mulled
Brad Mullard 11/4/14

**Executive Director** 

# **Subsidence Management Plan Approval**

I Brad Mullard, Executive Director Mineral Resources, under delegation from the Secretary, Department of Trade and Investment, Regional Infrastructure and Services, NSW dated 17 November 2010, having considered the likely environmental impacts of the mining operations identified in the Project Description specified in Schedule 1 and having had regard to the principles of ecologically sustainable development as defined in the *Protection of the Environment Administration Act 1991*, approve, for the purposes of the Subsidence Management Condition that became effective on 12/02/2009 in ML 1610, the Subsidence Management Plan identified in Schedule 1, subject to the conditions set out in Schedule 2.

This Approval only authorises the underground mining operations identified in the Project Description for the Period and Area identified in Schedule 1. Obligations under this Approval regarding rehabilitation, monitoring and impact management continue to apply after the expiry of this period unless otherwise notified in writing by the Secretary.

These conditions are required to:

- ensure optimal mineral resource recovery;
- prevent, minimise, manage and/or offset adverse impacts;
- provide for the ongoing environmental management of the project;
- ensure the area disturbed by mining is appropriately rehabilitated.

The rights and duties of a Leaseholder are those prescribed by the *Mining Act 1992*, subject to the terms and conditions of the Lease which include a requirement to carry out operations in accordance with the Subsidence Management Plan conditionally approved by this Approval. This Subsidence Management Plan Approval does not override any obligation on the Leaseholder to comply with the requirements of other legislation and regulatory instruments unless specifically provided in the Mining Act or other legislation or regulatory instruments.

**Note:** This Approval does not constitute an approval under Section 138 of the Coal Mines Regulation Act 1982 or clause 88 of the Coal Mines Health and Safety Regulation 2006.

B.W. Mullet

**Brad Mullard** 

Executive Director, Mineral Resources
Under delegation for the Secretary dated

17 November 2010

Date of Approval File No: MCV14/10 Reference: OUT14/11302

SCHEDULE 1
Description of Approved Activity

**Project Description:** Metropolitan Mine LW 23A within ML 1610

Subsidence Management Plan: Metropolitan Mine Subsidence Management Plan Application ML

1610 dated 16 September 2013, and any supplementary supporting information provided to the Department.

Seam: Bulli Seam

Approved Period of Mining: Date of Approval to 31 March 2021, or the expiry/cancellation of

ML 1610 whichever occurs first.

## **SCHEDULE 2**

#### **Definitions**

Activity The proposed mining described in the SMP AEMR Annual Environmental Management Report

Application Area The area identified within the SMP

Bore Any bore or well connected or proposed to be connected with sources of

sub-surface water, and used or proposed to be used or capable of being

used to obtain supplies of such water

Council Wollongong Shire Council

Department Department of Trade and Investment, Regional Infrastructure & Services,

Director, Environmental

Sustainability Director, Environmental Sustainability of the Department

Director, Mine Safety

Operations Director, Mine Safety Operations of the Department

DP&I Department of Planning and Infrastructure

Environment includes all aspects of the surroundings of humans, whether affecting

any human as an individual or in his or her social groupings

Inspector of Coal Mines Inspector of Coal Mines of the Department

Leaseholder The leaseholder of ML 1610.

Longwall Mining The extraction of the longwall panels covered by the SMP

MSB Mine Subsidence Board

NOW Department of Trade and Investment, Department of Primary

Industries - NSW Office of Water

OEH NSW Department of Premier and Cabinet, Office of Environment &

Heritage

Principal Subsidence

Engineer Principal Subsidence Engineer of the Department

Proposed Mining The extraction of coal from the proposed panels specified in Schedule 1.

PSMP Property Subsidence Management Plan

SCA Sydney Catchment Authority

Secretary of the Department, or delegate

SMP Subsidence Management Plan, titled Metropolitan Mine Subsidence

Management Plan Application ML 1610 dated 16 September 2013 and

supplementary supporting information provided to the Department.

SMP Approved Plan DRG No. M130910/1 titled Metropolitan Mine Approved Plan LW 23A

Proposed Extraction (ML1610), signed by the Manager of Mining

Engineering on 11 September 2013 and approved by the Secretary.

Subsidence Impacts Direct or indirect impacts resulting from subsidence from the proposed

mining

Subsidence Movement and/or deformation of the ground surface or subsurface strata

as a direct and/or indirect result of the Longwall Mining

#### **Conditions**

# **Limits on Approval**

- 1. The Leaseholder must carry out the activity strictly in accordance with the SMP Approved Plan.
- 2. The Leaseholder must carry out the activity generally in accordance with the SMP and subject to the conditions of this Approval.

In the event of any inconsistency between the conditions of this Approval and the SMP, the conditions of this Approval prevail to the extent of any inconsistency.

3. Where this Approval requires actions to be undertaken by the Leaseholder, including remediation of subsidence impacts, the obligation continues until the Secretary notifies the Leaseholder that the action has been completed to his or her satisfaction.

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- 4. The Secretary may vary the conditions of this Approval by notice in writing.
- 5. The Secretary may, at his or her discretion, suspend or revoke this Approval if:
  - a) the Leaseholder fails to adhere to any condition of the Approval; or
  - b) the head of any other government authority requests suspension or revocation on the basis of the Leaseholder's non-compliance, or potential non-compliance, with legislation administered by that agency in relation to this Approval.

# General Obligation to Minimise Harm to the Environment

6. The Leaseholder must implement the SMP (as amended by the conditions of this Approval) and carry out any additional practicable measures necessary to prevent any harm to the environment that may result from the construction, operation, or rehabilitation of the activity. Where prevention can not be achieved the leaseholder is to demonstrate minimisation of harm to the environment that may result from the construction, operation, or rehabilitation of the activity.

# **Notification of Approval**

7. The Proponent must give notice of this SMP approval within 30 days to the DP&I, NOW, OEH, Council, MSB, the local Aboriginal Land Council/s, the owners/operators of any infrastructure, and landowners in the application area and any other relevant government agencies or stakeholders that the Secretary's approval of the SMP has been granted.

# Implementation of Approval

- 8. Any plans, programmes, reports or strategies required as a condition of this Approval must be developed having regard to any guidelines adopted by the Secretary for the purpose of subsidence management and mine rehabilitation.
- 9. The Leaseholder must implement any plan, programme or strategy required and approved pursuant to this Approval.
  - **Note:** The Leaseholder may, at any time, submit an amended plan, programme or strategy for approval. Once approved, the amended plan, programme or strategy must be implemented, however, up until the date of approval, the Leaseholder must continue to implement the previously approved plan, programme or strategy.
- 10. Any modifications to plans, programmes or strategies already approved for the purposes of the conditions of this Approval must have regard to the matters set out in condition 8. Amended plans, programmes or strategies submitted for approval must be accompanied by all relevant supporting documentation to assist in the assessment of the amendment or modification.
  - **Note:** This condition relates to plans, programmes and strategies required by the conditions of this Approval it does not apply to variations to the SMP or the SMP Approved Plan which must be done in accordance with the requirements of the Mining Act, the conditions of title and the variation procedures identified in the SMP guidelines.

#### **Directions**

- 11. The Leaseholder must comply with any written direction given by the Secretary, Director Environmental Sustainability, Director Mine Safety Operations or Principal Subsidence Engineer relating to:
  - a) the implementation of any aspect of the SMP or an approved plan, programme or strategy;
  - b) assessing or reviewing the adequacy, effectiveness, or coverage of any approved plan, programme or strategy or any aspect of the SMP;
  - the type, timing and/or location of monitoring of baseline conditions, subsidence or subsidence impacts;
  - d) any reporting requirement under this Approval;
  - e) the carrying out of works to address subsidence impacts; and/or

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f) the carrying out of any studies or investigations related to subsidence or subsidence impacts and the reporting of any findings or conclusions.

The obligations under this condition prevail over any other obligation under this Approval.

**Note:** Compliance with a written direction will not operate as a defence to a breach of any obligation under this Approval that occurred prior to the Direction being given.

# **Subsidence Monitoring Programme**

- 12. The Leaseholder must submit to the Principal Subsidence Engineer for approval a subsidence monitoring programme for the longwall panel which are the subject of this Approval. This programme must include:
  - a) inspection regimes;
  - b) layout of monitoring points;
  - c) parameters to be measured;
  - d) monitoring methods and accuracy;
  - e) timing and frequencies of surveys and inspections;
  - f) recording and reporting of monitoring results.

The Leaseholder must not commence longwall mining prior to the subsidence monitoring programme being approved.

Note: The programme should be submitted to the Principal Subsidence Engineer at least 30 days prior to the expected commencement of operations to enable sufficient time for the assessment of the programme. The Principal Subsidence Engineer may require the provision of further information to assist in the assessment of the programme or a resubmission of the programme if it is considered inadequate. Complex issues or the need for additional information or a resubmission of the programme may require a longer assessment period.

# **Environmental Management Plan**

- 13. The Leaseholder must submit to the Director Environmental Sustainability for approval an Environmental Management Plan (EMP) for the panels which are the subject of this Approval. This plan must address subsidence impacts on:
  - a) surface and groundwater (quality and quantity);
  - b) flora and fauna;
  - c) cliffs and overhangs, rock ledges and steep slopes;
  - d) archaeological sites; and
  - e) any other significant environmental features that may be effected by subsidence resulting from the proposed longwall extraction

The leaseholder must not operate other than in accordance with an Environmental Management Plan (EMP) approved by the Director Environmental Sustainability. This plan must address subsidence impacts above and must include:

- i) a detailed monitoring programme;
- ii) trigger levels for subsidence impacts that require actions and responses;
- iii) the procedures that would be followed in the event that the monitoring indicates an exceedance of trigger levels;
- iv) measures to mitigate, remediate and/or compensate any identified impacts;
- v) a protocol for the notification of identified exceedances of the trigger levels; and
- vi) a contingency plan.

This plan must be prepared in consultation with relevant landholders and government agencies.

The Leaseholder must not cause subsidence impacts prior to the Environmental Management Planbeing approved.

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The EMP must be developed in sufficient time to allow two years data to be collected prior to extraction commencing, unless otherwise authorised by the Director Environmental Sustainability.

Note: The plan should be submitted to the Director Environmental Sustainability at least 30 days prior to the expected commencement of operations to enable sufficient time for the assessment of the plan. The Director Environmental Sustainability may require the provision of further information to assist in the assessment of the plan or a resubmission of the plan if it is considered inadequate. Complex issues or the need for additional information or a resubmission of the plan may require a longer assessment period.

**Note:** Plans or programmes submitted in the SMP application or submitted under the Environmental Planning and Assessment Act 1979 may satisfy the requirements of conditions 12 or 13 insofar as they meet the requirements of those conditions.

- 14. Left blank intentionally
- 15. Left blank intentionally

# **Incident and Ongoing Management Reporting**

- 16. The Leaseholder must, within 24 hours of becoming aware of the occurrence, notify:
  - a) the Principal Subsidence Engineer;
  - b) Director, Environmental Sustainability;
  - c) The Mine Subsidence Board;
  - d) NSW Office of Water; and
  - e) other relevant stakeholders and any Government Agency with a regulatory role if they request such notification, of the following:
    - Any significant unpredicted and/or higher-than-predicted subsidence and/or abnormalities in the development of subsidence;
    - ii. Any exceedance of predicted impacts on groundwater resources and/or the natural environment that may have been caused (whether partly or wholly) by subsidence;
    - Any observed subsidence impacts adverse to the serviceability and/or safety of infrastructure and other built structures that may be affected by longwall mining;
    - iv. Any significant subsidence-induced cracking and/or ground deformations observed in any surface areas within the SMP application area;

**Note:** Under Condition 11, the Leaseholder can be directed to, among other things, prepare a report on an incident reported under this condition. A report on the details of the incident, including likely or known causes, response action and proposed response measures will generally be required for incidents that involve material property or environmental damage or have the potential to cause such damage.

#### Status Report

- 17. The Leaseholder must prepare and maintain a Subsidence Management Status Report which must include but not be limited to:
  - a) the current face position of the panel being extracted;
  - b) a summary of any subsidence management actions undertaken by the Leaseholder;
  - a summary of any comments, advice and feedback from consultation with stakeholders in relation to the implementation of this Approval (including the preparation, implementation and review of plans, programmes, reports or strategies required by this approval) undertaken or received and a summary of the Leaseholder's response to the comments, advice and feedback given by the stakeholders;
  - d) a summary of the observed and/or reported subsidence impacts, incidents, service difficulties, community complaints, and any other relevant information reported to the Leaseholder and a summary of the Leaseholder's response to these impacts, incidents, service difficulties and complaints;

- a summary of subsidence development based on monitoring information compared with any defined triggers and/or the predicted subsidence to facilitate early detection of potential subsidence impacts;
- f) a summary of the adequacy, quality and effectiveness of the implemented management processes based on the monitoring and consultation information summarised above; and
- g) a statement regarding any additional and/or outstanding management actions to be undertaken or the need for early responses or emergency procedures to ensure adequate management of any potential subsidence impacts due to longwall mining.

The Subsidence Management Status Report must be updated at least every 14 days to reflect any changes in the information required to be included in the Report. The Status Report (as updated from time to time) must be provided, upon request, to the Mine Subsidence Board, the Director of Environmental Sustainability, the Principal Subsidence Engineer, owners/operators of any infrastructure within the application area and any other relevant government agencies.

# **Annual Report**

- 18. The Leaseholder shall prepare an annual report. This report shall be submitted to the Secretary within twelve months of the date of this approval and annually thereafter. The annual report must:
  - a) include a summary of the subsidence and environmental monitoring results for the year;
  - b) include an analysis of these monitoring results against the relevant;
    - impact assessment criteria;
    - monitoring results from previous panels; and
    - predictions in the SMP;
  - c) identify any trends in the monitoring results over the life of the activity; and
  - d) describe what actions were taken to ensure adequate management of any potential or actual subsidence impacts due to mining.

**Note:** The requirement of this condition may be satisfied via an Annual Review prepared under conditions of development consent or project approval.

#### **Access to Information**

- 19. Within 3 months of the submission of an Annual Report (as required by Condition 18) or the approval of a plan, programme or strategy required under this Approval or the SMP (or any subsequent revision of these documents), the Leaseholder must, to the satisfaction of the Secretary:
  - a) provide a copy of these document/s to all relevant agencies;
  - b) ensure that a copy of the relevant documents is made publicly available at the Leaseholder's regional office; and
  - c) put a copy of the relevant document/s on the Leaseholder's website.

**Note:** Relevant agencies currently include MSB, OEH, NOW and DP&I.

# **Survey Marks**

20. At the completion of subsidence, or otherwise as required by the Land and Property Management Authority, the functionality of any survey marks affected by subsidence must be fully restored to the satisfaction of the Land and Property Management Authority.

# Water Supply

21. In the event of interruptions to potable water supplies (water quality and/or quantity) due to subsidence impacts on water supply systems and/or sources caused by longwall mining, the Leaseholder must provide, without delay, water supplies of equivalent quality and quantity to locations convenient to those affected within the SMP Application Area until such time that the affected water supply systems and/or sources are restored.

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