

# 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 18 March 2004 in ML 1051 & CCL 721 and 13 April 2013 in ML 1632, 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.*

**SIGNED**



Brad Mullard  
**Executive Director, Mineral Resources**  
**Under delegation for the Secretary** dated  
17 November 2010

Date of Approval

12/6/14

File No: 10/3634 Reference: OUT14/16348

## SCHEDULE 1 Description of Approved Activity

<b>Project Description:</b>	Chain Valley Colliery Miniwalls 7 to 12
<b>Subsidence Management Plan:</b>	Chain Valley Colliery SMP Application – MW7 to MW 12 dated 3 March 2014, and any supplementary supporting information provided to the Department.
<b>Seam:</b>	Fassifern Seam

**Approved Period of Mining:** Date of Approval to 30 June 2021, or the expiry/cancellation of ML 1051, ML 1632 (subleased) & CCL 721 (subleased) 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	Lake Macquarie City 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&E Environment	Department of Planning and Environment includes all aspects of the surroundings of humans, whether affecting any human as an individual or in his or her social groupings
EP	Extraction Plan, titled "Chain Valley Colliery Extraction Plan MW7 to MW12" (Departmental Ref: INW14/19976) approved by the Department of Planning & Environment on 6 June 2014
Fisheries	Department of Trade & Investment, Department of Primary Industries - Fisheries
Inspector of Coal Mines	Inspector of Coal Mines of the Department
Leaseholder	The leaseholder of ML 1051, ML 1632 (subleased) & CCL 721 (subleased)
Miniwall Mining	The extraction of the miniwall panels covered by the SMP
MSB	Mine Subsidence Board
NOW	Department of Trade and Investment, Department of Primary Industries – NSW Office of Water
OEH	Department of Planning & Environment, 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	Secretary of the Department, or delegate
SMP	Subsidence Management Plan, titled "Chain Valley Colliery SMP Application – MW7 to MW12" dated 3 March 2014 and supplementary supporting information provided to the Department.
SMP Approved Plan	DRG No. C4A0026_0 titled Lakecoal Pty Ltd Chain Valley Colliery Fassifern Seam – MW 7-12 (CCL721, ML1051 & ML1632) SMP Application Approved Plan, signed by the Manager of Mining Engineering on 7 March 2014 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 Miniwall 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 EP and the SMP and is 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.
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&E, 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:
- the implementation of any aspect of the SMP or an approved plan, programme or strategy;
  - 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;
  - any reporting requirement under this Approval;
  - the carrying out of works to address subsidence impacts; and/or
  - 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 and underground monitoring programme for the miniwall panels which are the subject of this Approval. This programme must include:
- inspection regimes;
  - layout of monitoring points;
  - parameters to be measured;
  - monitoring methods and accuracy;
  - timing and frequencies of surveys and inspections;
  - recording and reporting of monitoring results.

The Leaseholder must not commence miniwall 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.*

13. Left Blank Intentionally



14. The Leaseholder must submit to the Director Mine Safety Operations for approval management plans for the following infrastructure that may be affected by subsidence. These plans must be developed in consultation with:
- a) the owners/operators of the infrastructure; and
  - b) any Government Agency with a regulatory role for the infrastructure.

The Leaseholder must not cause any subsidence impacts to any of the infrastructure listed below prior to the management plans for the said infrastructure being approved:

- i. telecommunications cable
- ii. any other infrastructure that may be required by the Director Mine Safety Operations for subsidence management

15. Left Blank Intentionally

**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 14 insofar as they meet the requirements of those conditions.*

### 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;
  - e) The operators of all infrastructure as listed in condition 14; and
  - f) other relevant stakeholders and any Government Agency with a regulatory role if they request such notification, of the following:
    - i. 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;
    - iii. Any observed subsidence impacts adverse to the serviceability and/or safety of infrastructure and other built structures that may be affected by minewall 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;
  - c) 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;

- e) 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 miniwall 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&E.*

### 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 miniwall 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.

