



Tahmoor Colliery

**AMENDMENT TO INGHAMS
SUBSIDENCE MANAGEMENT PLAN
(REVISION K)**

**DUE TO THE MINING OF
LONGWALL 26**



**Level 1 228 Victoria Avenue – Chatswood – NSW 2067
PO Box 3047 – Willoughby North – NSW 2068
Tel. (02) 9413 3777 Fax. (02) 9413 3822
Email: enquiries@minesubsidence.com**


www.minesubsidence.com


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GENERAL

AUTHORISATION OF AMENDMENT TO:

Tahmoor Colliery Longwalls 24 to 26 – Inghams Enterprises Pty Ltd – Surface Safety and Serviceability Management Plan, Revision K (Stage 2 – Post Mitigation), as amended on 27 March 2008, Report No. MSEC286, Revision K, prepared by Mine Subsidence Engineering Consultants.

Authorised on behalf of Tahmoor Colliery:	
Name:	Ian Sheppard
Signature:	
Position:	Manager, Environment and Community
Date:	17 March 2011

Authorised on behalf of Inghams Enterprises:	
Name:	Michael Peterson
Signature:	
Position:	Geos Process Management
Date:	17/3/11

CHAPTER 1. INTRODUCTION

1.1. Background

Longwall 26 is a continuation of a series of longwalls that extend into the Tahmoor North Lease area, which began with Longwall 22. Longwall 26 is currently scheduled to commence in March 2011.

The Inghams Plant is located at a distance of approximately 730 metres south-west of Longwall 26, at the closest point. An aerial photograph, overlaid with the mine plan and predicted limit of subsidence is shown in Fig. 1.1.

This document amends the previous Management Plan (Report No. MSEC286, Rev. K as amended 27 March 2008). When compared to the previous Plan, the amended management measures have been reduced. The Plan has been amended because the current layout for Longwall 26 has been significantly shortened compared to its previous layout. It is also noted that no impacts were observed during the mining of previous Longwall 25.



Fig. 1.1 Aerial Photograph of Inghams Property overlaid with Mine Plan

CHAPTER 2. AMENDMENTS TO MANAGEMENT PLAN

The following sections of the Management Plan (Report No. MSEC286, Rev. K) have been amended.

2.1. Monitoring Plan (Section 5.4 of Management Plan)

The monitoring measures have been reduced from those described in the Management Plan as described below.

2.1.1. Ground Monitoring Lines

Ground surveys will be undertaken along the East-West, North-South and Dam Lines during the extraction of Longwall 26, in accordance with the amended Risk Control Procedures. The locations of the monitoring lines are shown in Fig. 1.1 of this Amendment.

2.1.2. Other Surveys

It is not proposed to monitor the Plant Perimeter Line, Pipe Support Line or the Building Tilt, unless the ground movements along the East-West, North-South, or Dam Lines are greater than expected, in accordance with the amended Risk Control Procedures, which are provided in Table 2.1 of this Amendment.

2.1.3. Visual Inspections

Inghams may undertake visual inspection as part of normal operations. Whilst all best endeavours will be used to report any ground movement or damage, Inghams are not responsible for notifying any ground movement. Tahmoor Colliery will conduct one formal assessment of the property every six months and if the observed ground movements are greater than predicted, actions in accordance with the amended Risk Control Procedures will be taken, which are provided in Table 2.1 of this Amendment.

2.1.4. Pipe Stress Transducers on Ammonia Pipes

Stress transducers were installed on the ammonia pipelines and were monitored during the mining of Longwalls 24A and 25. It is not proposed to monitor the stress transducers during the mining of Longwall 26, unless required. The stress transducers have not been removed and, if deemed necessary by the IMG, the monitoring system can be recommissioned at Tahmoor Colliery cost if unexpected ground movements are observed during the mining of Longwall 26.

2.1.5. Displacement Gauges at Building Interfaces

Displacement gauges were installed at the building interfaces and were monitored during the mining of Longwalls 24A and 25. It is not proposed to monitor the displacement gauges during the mining of Longwall 26, unless required. If deemed necessary by the IMG, the monitoring system can be recommissioned at Tahmoor Colliery cost if unexpected ground movements are observed during the mining of Longwall 26.



Table 2.1 Amended Risk Control Procedures

Infrastructure	Hazard / Impact	Risk	Trigger	Control Procedure/s	Frequency	By Whom?
All Plant, Equipment and Dams	Explosion of ammonia Leakage of ammonia pipeline Leakage of CO ₂ pipeline Leakage of chlorine pipeline Leakage or loss of capacity of process water Loss of capacity of dams	Low to Significant	None	Ammonia vapour detection	Continuous as per Inghams current practice	Inghams
				Carbon Dioxide Detection	Handheld monitors as per Inghams current practice	Inghams
				Formal "air" check of sub-floor ventilation beneath High-Rise Freezer over and above observations by Inghams as part of normal operations	Once per year	Tahmoor Colliery
				Ground monitoring of the East-West, North-South and Dam Lines (levels and strain)	Monthly during mining until agreed by IMG	Tahmoor Colliery (L&H)
			Observed subsidence due to the mining of LW 26 exceeds 20 mm along the North-South, East-West, or Dam Lines or Impacts are observed that may be due to mine subsidence or If a meeting is requested by any member of the IMG	Formal visual inspection (over and above inspections by Inghams as part of normal operations)	Every six months	Tahmoor Colliery (SBPS)
				Report on longwall position and monitoring results	Monthly during mining until agreed by IMG	Tahmoor Colliery (MSEC)
				IMG will meet and consider the following actions:- <ul style="list-style-type: none"> Consider increase in monitoring frequency for the East-West and North-South Lines Consider monitoring additional ground lines, including the HRF Line, Perimeter Line, Pipe Support Line and Building Tilt Consider visual inspections of the Processing Plant Consider recommissioning and monitoring the pipe stress transducers and the building interface displacement gauges 	As required	IMG
				Notify IMG, Inghams, Tahmoor Colliery, I&I and Mine Subsidence Board	Within 1 week	Tahmoor Colliery