

TAHMOOR COLLIERY: Longwall 30

Subsidence Management Status Report No. 12
Submitted every four months as required by Condition 17 of the
Subsidence Management Plan Approval for Longwall 30

Reporting Period	1 July 2016 to 31 October 2016	
Length of extraction of LW30	994 m	as at 27 October
Length of extraction remaining of LW30	1328 m	
Distance travelled by LW since previous report	933 m	
Maximum total subsidence since start of LW22 within zone of active subsidence	1027 mm	Railway line as at 25 October
Maximum incremental subsidence due to LW30 within zone of active subsidence	651 mm	Optic fibre line as at 24 October
Maximum increase in subsidence since previous report	625 mm	Optic fibre line (16 August to 24 October)

Summary of Observations, Management Actions and Consultation

Summary of subsidence development
<p>Subsidence is developing above LW30 within expectations. The zone of active subsidence is currently in rural land adjacent to the Main Southern Railway. During this reporting period, subsidence monitoring has focussed primarily on the Main Southern Railway and the Telstra optical fibre cable which crosses it.</p>
Natural Features
<p><i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i></p> <p>Valley closure has developed along the MXB line where it crosses Myrtle Creek above previously extracted Longwall 27. Less than 10 mm of additional closure has been observed during Longwall 30. The longwall face has moved away from Myrtle Creek by more than 1 kilometre and the last survey for Longwall 30 was undertaken on 4 October 2016.</p> <p><i>Summary of Management Actions</i></p> <p>Monitoring and inspections are being undertaken as per the Natural Features Management Plan. Ground surveys will commence along Redbank Creek after 1300 metres of extraction, as per the Management Plan.</p> <p><i>Summary of Consultation with Stakeholders</i></p> <p>Observations during mining of Longwall 30 reported to Tahmoor Colliery Community Consultative Committee. No issues raised.</p>
Main Southern Railway
<p><i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i></p> <p>The longwall face has mined adjacent to the Main Southern Railway during this reporting period. There have been no impacts on the safety or serviceability of the Railway. The railway infrastructure has experienced some minor impacts along the track as a result of mine subsidence, and these have been successfully managed by ARTC and Tahmoor Colliery.</p> <p><i>Summary of Management Actions</i></p> <p>Monitoring and inspections are being undertaken as per the Railway Management Plan.</p> <p><i>Summary of Consultation with Stakeholders</i></p> <p>Ongoing consultation with ARTC, including weekly teleconference. Detailed subsidence monitoring reports issued weekly. Please refer to Railway Status Report for further information.</p>
Local Roads, Bridges and Culverts
<p><i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i></p> <p>Stilton Lane is currently the only local road experiencing active subsidence from the mining of Longwall 30, with no impacts observed. No impacts have been observed to the local bridges and road culverts.</p> <p><i>Summary of Management Actions</i></p> <p>Monitoring and inspections have been undertaken as per the Wollondilly Shire Council Management Plan. Surveys at the Remembrance Drive Road and Foot Bridge over Myrtle Creek have measured minor changes during Longwall 30. A small amount of closure has developed between the footbridge abutments.</p> <p><i>Summary of Consultation with Stakeholders</i></p> <p>Detailed subsidence monitoring report is issued to Wollondilly Council.</p>

TAHMOOR COLLIERY: Longwall 30

Subsidence Management Status Report No. 12
Submitted every four months as required by Condition 17 of the
Subsidence Management Plan Approval for Longwall 30

TAHMOOR
UNDERGROUND
GLENCORE

Potable Water Infrastructure

Summary of any observed/reported impacts or incidents, exceedance of triggers

No potable water infrastructure is located within the active subsidence area during this reporting period.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Potable Water Management Plan.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report is issued to Sydney Water.

Sewer Infrastructure

Summary of any observed/reported impacts or incidents, exceedance of triggers

No sewer infrastructure is located within the current active subsidence area during this reporting period.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Sewer Management Plan.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring reports are issued to Sydney Water.

Gas Infrastructure

Summary of any observed/reported impacts or incidents, exceedance of triggers

No impacts observed or reported with respect to gas pipes. No gas services are located within the active subsidence area during this reporting period.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Jemena Management Plan.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring reports are issued to Jemena.

Electrical Infrastructure

Summary of any observed/reported impacts or incidents, exceedance of triggers

No impacts observed or reported with respect to electrical cables or poles.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Endeavour Management Plan. This includes monthly surveys of critical power poles.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report is issued to Endeavour Energy.

Telecommunications Infrastructure

Summary of any observed/reported impacts or incidents, exceedance of triggers

No impacts observed or reported with respect to telecommunications cables or poles.

Compressive ground strains are observed between Pegs OF32 and OF35, along the alignment of the optical fibre cable, with strain measured up to 1.2 mm/m between Pegs OF32 and OF33. Strain is also observed at the railway crossing between Pegs OF23 and OF24. It is noted that the cables, which are buried in conduit, cross a shallow railway cutting in this area, and that the cutting excavation took place along an old creek line. OTDR monitoring of the cable is ongoing, with no issues reported.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the Telstra Management Plan. This includes weekly visual inspections within the zone of active subsidence.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring reports are issued to Telstra.

Items of Heritage Significance

No items of heritage significance are located within the active subsidence area during this reporting period.

TAHMOOR COLLIERY: Longwall 30

Subsidence Management Status Report No. 12
*Submitted every four months as required by Condition 17 of the
Subsidence Management Plan Approval for Longwall 30*

TAHMOOR
UNDERGROUND
GLENCORE

Building Structures

Summary of any observed/reported impacts or incidents, exceedance of triggers

A small number of houses have experienced subsidence movements during the mining of Longwall 30. No impacts have been observed or reported.

Summary of Management Actions

Ongoing inspections of properties within the active subsidence area.

Summary of Consultation with Stakeholders

Ongoing, extensive consultation has been undertaken with residents in the subsided areas. This includes consultation with residents who have experienced impacts and neighbouring residents who have not reported impacts.

Any additional and/or outstanding management actions

None. The existing management processes are considered to be adequate and effective.



Certified by Tahmoor Colliery:

Signature: _____ Date: 21-10-2016