

TAHMOOR COLLIERY: Longwall 30

Subsidence Management Status Report No. 11
 Submitted every four months as required by Condition 17 of the
 Subsidence Management Plan Approval for Longwall 30

Reporting Period	1 March 2016 to 30 June 2016	
Length of extraction of LW30	61 m	as at 28 June (LW29 completed 3 April 2016)
Length of extraction remaining of LW30	2261 m	
Distance travelled by LW since previous report	258 m 61 m	LW29 between 1 Mar and 3 Apr LW30 between 20 Jun and 28 Jun
Maximum total subsidence since start of LW22 within zone of active subsidence	1008 mm	Railway line as at 24 May (End of LW29)
Maximum incremental subsidence due to LW30 within zone of active subsidence	0 mm	Movements within survey tolerance
Maximum increase in subsidence since previous report	195 mm	Bridge Street (23 February to 19 May)

Summary of Observations, Management Actions and Consultation

Summary of subsidence development
Minor additional subsidence developed during the reporting period near the finishing end of Longwall 29. Subsidence is yet to commence above the commencing end of Longwall 30, as expected.
Natural Features
<p><i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i></p> <p>Valley closure has developed along Redbank Creek during this reporting period. Observed maximum valley closure is currently less than predicted maximum valley closure. Closure is also developing gradually across a small tributary entering Redbank Creek from the south between Pegs RK27 and RK28. A small tributary enters Redbank Creek from the north directly opposite, indicating that the two tributaries are likely following the alignment of a geological structure. No closure is currently developing where the tributary intersects Bridge Street near Pegs BG98 and BG99 but will continue to be watched.</p> <p>The first visual inspection of Redbank Creek for Longwall 29 was undertaken on 17 December, where it was found that the creek was totally dry upstream of the railway culvert above Longwall 28. Downstream of the culvert, pools were low to dry above Longwall 29. Minor cracks have been observed in the railway culvert at the downstream end. Prior to the large rain event on 5 June, the creek was dry upstream of the railway culvert. The observations of loss of surface water, while within expectations, exceed the reporting trigger levels in the Natural Features Management Plan. No impacts have been reported on water quality.</p> <p>A very large rain event, close to 1 in 100 year ARI, occurred on 5 June. This resulted in substantial flooding in Myrtle and Redbank Creeks. Significant changes observed along the stream bed due to this event, including stripping of vegetation, erosion of soil on the creek banks and shifting of loose rocks and boulders.</p> <p><i>Summary of Management Actions</i></p> <p>Monitoring and inspections were undertaken as per the Natural Features Management Plan.</p> <p>Monitoring of Redbank Creek has finished following the completion of Longwall 29.</p> <p><i>Summary of Consultation with Stakeholders</i></p> <p>Observations during mining of Longwall 29 reported to TCCCC and DRE. No issues of concern have been raised.</p>
Main Southern Railway
<p><i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i></p> <p>Longwall 29 mined beneath and beyond the Main Southern Railway during this reporting period. There have been no impacts on the safety or serviceability of the Railway.</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 and monthly governance meetings, were held as scheduled. Detailed subsidence monitoring reports were issued weekly. Please refer to Railway Status Report for further information.</p>

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Local Roads, Bridges and Culverts

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

No significant impacts have been observed to the local bridges and road culverts.

Summary of Management Actions

Monitoring and inspections have been undertaken as per the Wollondilly Shire Council Management Plan. Weekly surveys at the Remembrance Drive Road and Foot Bridge over Myrtle Creek have measured only minor changes.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report is issued to Wollondilly Council.

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. No impacts were observed along the Thirlmere Carrier pipe during the mining of Longwall 29.

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. Sydney Water is ready to respond if required to ensure the sewer remains serviceable.

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.

A local 3D survey of nine locations along the gas pipe on Remembrance Drive Road Bridge over Myrtle Creek is being undertaken on a weekly basis.

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 Energy Management Plan. This includes monthly surveys of critical power poles.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report is issued to Endeavour Energy.


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Telecommunications Infrastructure
<i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i> No impacts observed or reported with respect to telecommunications cables or poles. <i>Summary of Management Actions</i> Monitoring and inspections are being undertaken as per the Telstra Management Plan. This includes weekly visual inspections within the zone of active subsidence. <i>Summary of Consultation with Stakeholders</i> 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.
Building Structures
<i>Summary of any observed/reported impacts or incidents, exceedance of triggers</i> No impacts have been observed or reported. <i>Summary of Management Actions</i> Ongoing inspections of properties within the active subsidence area. <i>Summary of Consultation with Stakeholders</i> 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: 30 June 2016