

TAHMOOR COLLIERY: Longwall 26

Subsidence Management Status Report No. 03
 Submitted every four months as required by Condition 17 of the
 Subsidence Management Plan Approval for Longwall 26



Reporting Period	1 December 2011 to 31 March 2012	
Length of extraction	2264 m	as at 31 March
Length of extraction remaining	1220 m	
Distance travelled by LW since previous report	607 m	
Maximum total subsidence since start of LW22 within zone of active subsidence	934 mm	on Huen Place at 14 March
Maximum incremental subsidence due to LW26 within zone of active subsidence	565 mm	on Hilton Park Road at 29 March
Maximum increase in subsidence since previous report	467 mm	on Hilton Park Road at 29 March

Summary of Observations, Management Actions and Consultation since start of LW26

Summary of subsidence development
<p>The longwall has completed extraction beneath the township of Tahmoor and is progressing towards Thirlmere. The rate of subsidence development within the township of Tahmoor has significantly slowed in during the last two months, with very little change measured each week.</p> <p>Increased subsidence has developed above the commencing end of LW26 along Tahmoor Road, but the magnitude of subsidence is reduced compared to previous experiences during the mining of LWs 24A and 25. It is observed that areas such as Moorland Road and Struan Street have subsided slightly less than Tahmoor Road, suggesting that subsidence is reducing up the panel as mining continues. Remembrance Drive, York Street, the Main Southern Railway and Hilton Park Road have subsided to normal predicted levels.</p> <p>Increased compressive ground strains have been observed at a number of locations above Longwall 26, with the most active area this month along Hilton Park Road. These have resulted in localised impacts on road pavements, services and houses. The rate of development of compressive strain has substantially reduced in recent weeks along Hilton Park Road, though a trend of very small increases is currently being measured at some locations. Subsidence is currently developing along Tickle Drive.</p>
Natural Features
<p><i>Summary of any observed/reported impacts or incidents, exceedence of triggers</i></p> <p>No impacts observed or reported with respect to natural features.</p> <p><i>Summary of Management Actions</i></p> <p>Monitoring and inspections are being undertaken as per the Natural Features Management Plan. The longwall has completed extraction beneath Myrtle Creek and is now more than one kilometre away. While valley closure movements have been observed along monitoring lines that cross the creek, no impacts have been observed. Following a lengthy period of negotiation with landowners about providing access to conduct surveys, a baseline survey has been completed to measure ground closure across Redbank Creek. The surveys are limited to measurements over long distances using relative 3D survey techniques.</p> <p><i>Summary of Consultation with Stakeholders</i></p> <p>Observations during mining of Longwall 26 reported to TCCC. No issues raised.</p>
Main Southern Railway
<p><i>Summary of any observed/reported impacts or incidents, exceedence of triggers</i></p> <p>The longwall has completed extraction beneath the Main Southern Railway and is moving away. There have been no impacts on the safety or serviceability of the Railway. The railway infrastructure has experienced some impacts 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, inspections and management responses are being undertaken as per the Railway Management Plan. Approval has been provided by ARTC and DTIRIS to cease ground surveys along the Railway track, with the exception of Redbank Railway Tunnel.</p> <p><i>Summary of Consultation with Stakeholders</i></p> <p>Ongoing consultation with ARTC, including weekly teleconference. Detailed subsidence monitoring reports weekly and management summary reports and meetings are held monthly. Please refer to Railway Status Report for further information. Approval has been provided by ARTC and DTIRIS to reduce the frequency of monitoring reports from weekly to monthly.</p>
Local Roads, Bridges and Culverts
<p><i>Summary of any observed/reported impacts or incidents, exceedence of triggers</i></p> <p>Impacts to road pavement and kerbs have been observed within zone of active subsidence. Bumps formed on Tahmoor Road, Moorland Road, the corner of Struan St and Tahmoor Rd, Remembrance Drive and York Street where non-systematic subsidence</p>

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movements were observed. Impacts were also observed to kerbs and pavement on Oxley Grove.

Impacts were experienced at the Castlereagh Street Bridge and these were successfully managed by Wollondilly Council and Tahmoor Colliery. There were no impacts on the safe operation of the Bridge. The engineering response measures required the temporary closure of one lane on the Bridge. Traffic management measures were in place during this time.

Summary of Management Actions

Monitoring, inspections and management responses are being undertaken as per the Wollondilly Council Management Plan.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report is issued to Wollondilly Council each week. Teleconferences were held between Council and Tahmoor Colliery with respect to the Castlereagh Street Bridge. Council was also notified of increased ground strains and irregular subsidence profiles and impacts to the road pavement.

Potable Water Infrastructure

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

A water main leaked on Moorland Road on 17 August, where increased ground strains and a bump in the subsidence profile and pavement is observed. The pipe was repaired the same day.

A water leak was observed on York Street in September and again in early November near Pegs Y30 and Y31, where increased strain and a bump have been observed. The leak was repaired each time.

Visual inspections of Myrtle Creek pipe crossing have not detected any impacts.

Summary of Management Actions

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

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report is issued to Sydney Water each week. Sydney Water was also notified of increased ground strains and irregular subsidence profiles and observations of water leaks.

Sewer Infrastructure

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

Impacts previously reported on sewer pipes on Tahmoor Road and along sections of pipes between Abelia Street and Oxley Grove have been repaired. Inspections and CCTV investigations were undertaken for a section of pipes along Moorland Road where non-systematic subsidence movements have developed and no issues were found.

Monitoring of critical pipes for changes in sewer grade between Struan Street, Tahmoor Road and Moorland Road demonstrated that pipe grades have remained well above trigger levels for low grades.

The temporary, standby bypass line and pump system for the horizontal bore behind Amblecote Place was installed prior to the longwall approaching the site. A minor sewage overflow occurred on 9 November at a manhole at Elphin Street. The area was cleaned up immediately by Sydney Water.

The overflow occurred upstream of the area where the sewer line had been partially impacted by mine subsidence, and a bypass line had been installed and maintained by Sydney Water, in the event of loss of pipeline flow due to mine subsidence. Unfortunately, due to an electrical fault, Sydney Water's bypass system did not operate and a small overflow resulted.

The bypass pump is operating on an intermittent basis in response to rising water levels in the upstream manhole, as per the Sewer Management Plan. The incident is being managed by Sydney Water and its contractors. Preparations are currently being made to repair the damaged section of pipes.

Surveys of Myrtle Creek pipe crossings have commenced and surveys have recorded an initial shortening in distance across the Huen Place crossing, with very little change for the last 3 months. A CCTV investigation of the pipe has found no impacts on the pipe sections.

Summary of Management Actions

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

Summary of Consultation with Stakeholders

Ongoing consultation is being held between Sydney Water and Tahmoor Colliery. Detailed subsidence monitoring report is issued to Sydney Water each week.

Gas Infrastructure

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

No impacts observed or reported with respect to gas pipes. Increased compressive ground strain has exceeded the early warning Level 1 trigger level at one location on Remembrance Drive. Weekly inspections by Jemena have detected no leaks.

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Summary of Management Actions

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

Summary of Consultation with Stakeholders

Jemena was consulted prior to and after exceedence of the Level 1 trigger level and discussions between Jemena and Tahmoor Colliery resulted in a decision to undertake inspections by Jemena on a weekly basis as a precautionary measure. Detailed subsidence monitoring report is issued to Jemena each week.

Electrical Infrastructure

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

No impacts observed or reported with respect to electrical cables or poles. Changes in the catenaries of some cables are noted but are not of concern.

Summary of Management Actions

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

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report is issued to Integral each week. Integral were notified by Tahmoor Colliery of the leaning of some power poles in the network as part the Colliery's inspections. The poles were inspected and the causes of lean were not considered to be due to mine subsidence.

Telecommunications Infrastructure

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

No impacts observed or reported with respect to telecommunications cables or poles. Changes in the catenaries of some aerial cables have been observed but are not of concern yet, though some were tight in Tahmoor Road and Krista Place.

Summary of Management Actions

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

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report and a detailed visual inspection report is issued to Telstra each week.

Tahmoor Town Centre

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

No significant impacts observed or reported at the Tahmoor Town Centre. The rate of subsidence development at Tahmoor Town Centre has substantially slowed with very little change measured.

Summary of Management Actions

Monitoring and inspections are being undertaken as per the TTC Management Plan. Approval was granted to reduce surveys to monthly until the end of longwall 26.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring report is issued to TTC each week.

Inghams

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

No new impacts observed or reported at Inghams Processing Plant. No triggers have been exceeded and are considered unlikely to be exceeded as mining progresses.

Summary of Management Actions

Approval was granted to cease surveys.

Summary of Consultation with Stakeholders

Detailed subsidence monitoring reports were issued to Inghams until approval was granted to cease monitoring.

Items of Heritage Significance

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

No impacts observed. No triggers have been exceeded.

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Summary of Management Actions

The heritage listed property on Remembrance Drive was inspected from the kerb each week.

Summary of Consultation with Stakeholders

The resident has requested not to be consulted and no access is permitted on the property.

Building Structures

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

Impacts observed to a number of houses during the mining of LW26, including severe (Category 4) impacts to 3 houses near the locations of non-systematic movements on Tahmoor Road and Moorland Road. Most houses on Oxley Grove have also reported impacts, as have some houses near the corner of Struan Street and Tahmoor Road.

Summary of Management Actions

Extensive monitoring, inspections and emergency works have been undertaken on houses and associated structures by Tahmoor Colliery and the Mine Subsidence Board.

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.

A handwritten signature in black ink, appearing to be 'P. Coyle'.

Certified by Tahmoor Colliery:

Signature: _____ Date: 5 April 2012