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UG4 LW409-414 Drip, Corner Gorge and Goulburn River Monitoring and Reporting Program – Review Report Following Secondary Extraction of First 300 m of LW409 (October 2026)

1. Introduction

This LW409 Review Report has been prepared following completion of secondary extraction of the first 300 metres (m) of Longwall (LW) 409 and has been prepared in accordance with the *UG4 Longwalls 409 to 414 Drip, Corner Gorge and Goulburn River Monitoring and Reporting Program* (UG4 LW409-414 Monitoring and Reporting Program).

Secondary extraction of LW409 commenced on **15 September 2026** and the first 300 m of LW409 was completed on **6 October 2026**.

Relevant monitoring data collected during extraction of the first 300 m of LW409 was made available to the Technical Committee on **8 October 2026**.

A Committee Meeting was held on **16 October 2026** to discuss the monitoring results, review findings and recommendations.

2. Monitoring Data

Monitoring data reviewed for this LW409 Review Report includes:

- Subsidence movements at GNSS units NPWS_G01 to NPWS_G09 and MCO27 to MCO34;
- Groundwater level monitoring at PZ234A, PZ237A, PZ256A and PZ257A; and
- Surface water quality and flow monitoring at SW02 and SW22.
- Visual inspections along the Goulburn River

Monitoring locations are shown in **Figure 1.**

3. Monitoring Review

A summary of the assessment of monitoring outcomes against the trigger levels, Trigger Action Response Plans (TARPs) and performance measures is provided in **Table 1**.

The outcomes of the Technical Committee's review are as follows:

- No physical impacts due to extraction of LW408 observed at the Drip and Corner Gorge or along the Goulburn River during visual inspections.
- Observed subsidence movements at GNSS monitors at the Drip and Corner Gorge and along the Goulburn River consistent with predictions (i.e. no greater than recorded baseline movements).
- Observed surface water flow/quality at surface water monitoring sites along the Goulburn River consistent with predictions (i.e. no loss of flow or quality trigger events).
- Observed groundwater levels at groundwater monitoring bores consistent with predictions (i.e. observed drawdown did not result in an investigation trigger event).

The TARPs for the Drip, Corner Gorge and Goulburn River were not triggered during mining of the first 300 m of LW409, and on this basis, all relevant performance measures and indicators were complied with.

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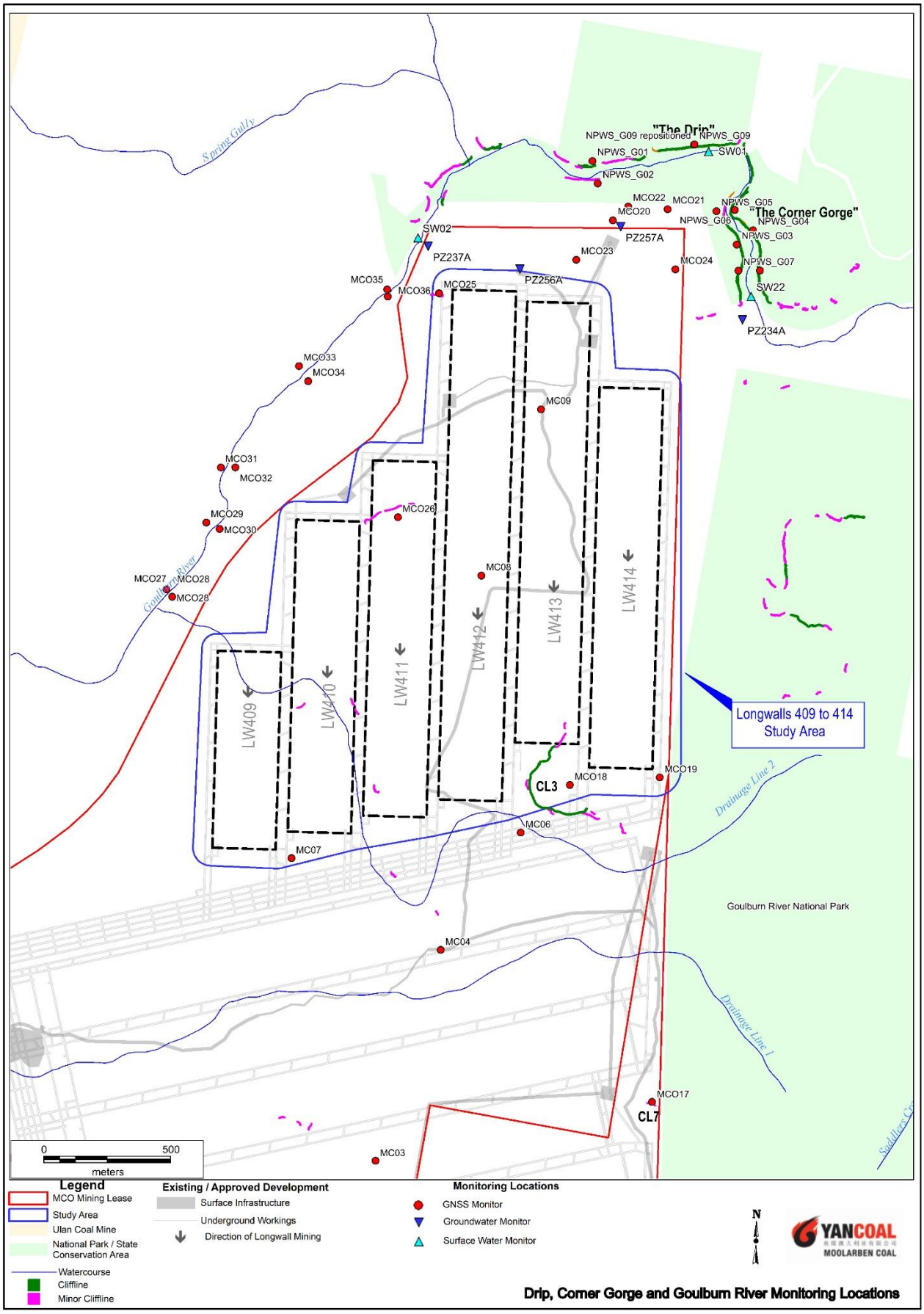


Figure 1: The Drip, Corner Gorge and Goulburn River Monitoring Locations

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Table 1: Assessment of Monitoring Outcomes Against the Trigger Levels, TARPs and Performance Measures for the Drip, Corner Gorge and Goulburn River

Performance Measure (Project Approval [05_0117])	Monitoring Component	Performance Indicator	Monitoring Site(s)	Relevant Trigger Level	Highest Recorded Monitoring Level	Highest Recorded Trigger Event	Compliance With Performance Indicator?	Compliance With Performance Measure?	Monitoring Data Reviewed By?	Independent Review By?
The Drip and Corner Gorge										
Nil impact or environmental consequences.	Subsidence – Far-field Movement	No physical impacts identified at the Drip and Corner Gorge.	Visual inspection sites GRP-101 to GRP-113	Any observed physical impacts	**No observed physical impacts due to extraction of LW408 based on photographic records**	**The TARP for far-field movements at the Drip and Corner Gorge was not triggered during secondary extraction of LW408. Visual inspection of the Drip and Corner Gorge is scheduled for November 2026**	**Yes**	**Yes**	*n/a*	*n/a*
		Observed level of movement at the Drip and Corner Gorge between baseline natural movements but less than or equal to predicted far-field horizontal movements.	GNSS units NPWS_G01 to NPWS_G09	±10 mm	**9 mm**		**Yes**	**Yes**	Peter DeBono (MSEC)	Yvette Heritage (SCT)
	Subsidence – Valley Closure Movements	Observed differential movements greater than baseline movements but less than or equal to ±15 mm of differential movement.	GNSS units NPWS_G01 to NPWS_G09	±15 mm of differential movement	**5mm closing 9mm opening**	**The TARP for valley closure movements at the Drip and Corner Gorge was not triggered during secondary extraction of first 300 m of LW409.**	**Yes**	**Yes**	Peter DeBono (MSEC)	Yvette Heritage (SCT)
	Groundwater	Groundwater level monitoring results are within relevant trigger levels.	PZ237A	382.9 mAHD	**383.2 mAHD (lowest)**	**The TARP for groundwater for the Drip and Corner Gorge was not triggered during secondary extraction of the first 300 m of LW409.**	**Yes**	**Yes**	Andrew Durick (AGE)	Dr Lloyd Townley (GW-SW)
			PZ256A	373.7 mAHD	**374.1 mAHD (lowest)**					
			PZ257A	376.5 mAHD	**377 mAHD (lowest)**					
The Drip										
Nil impact on the water supply to the Drip.	Subsidence – Water Supply to the Drip	No observed unpredicted loss of water supply to the Drip.	Visual inspection sites GRP-101 to GRP-113	Any observed loss of water supply	**No observed loss of water supply to the Drip based on photographic records**	**The TARP for water supply to the Drip was not triggered during secondary extraction of the first 300 m of LW409.**	**Yes**	**Yes**	Andrew Durick (AGE)	*n/a*
Goulburn River and the bed of the Goulburn River										
Negligible impact or environmental consequences.	Subsidence – Physical Impact	No indication of visible movement observed during ongoing monitoring.	Visual inspection sites **GR-28 to GR-55**	Any indication of visible movement	**No observed physical impacts due to extraction of LW408 based on photographic records**	**The TARP for physical impact along the Goulburn River was not triggered during secondary extraction of the first 300 m of LW409.**	**Yes**	**Yes**	*n/a*	*n/a*
	Subsidence – Valley Closure Movements	Observed differential movements greater than baseline movements but less than or equal to ±15 mm of differential movement.	GNSS units MCO27 to MCO34	±15 mm of differential movement	**2mm closing 5mm opening**	**The TARP for valley closure movements along the Goulburn River was not triggered during secondary extraction of the first 300 m of LW409.**	**Yes**	**Yes**	Peter DeBono (MSEC)	Yvette Heritage (SCT)
	Surface water – Water Quality	Surface water quality monitoring results are within trigger levels.	SW02 and SW22	pH: 6.5 – 8.5	**pH: 8.13 (SW02) 8.48 (SW22)**	**The TARP for surface water quality for the Goulburn River was not triggered during secondary extraction of the first 300 m of LW409.**	**Yes**	**Yes**	David Newton (WRM)	(GW-SW)
				EC (µs/cm): 900	**EC (µs/cm): 891 (SW02) 852 (SW22)**					
				Turbidity (NTU): 25	**Turbidity (NTU): 1.3 (SW02) 0.3 (SW22)**					
	Surface water – Flow	No loss of flow.	SW02 and SW22	Average 7-day flow loss of 5 ML/day four consecutive (i.e. non-overlapping) monitoring periods	**Average 7-day flow loss: Flow gain of 18 to 30 ML/d recorded**	**The TARP for the Goulburn River surface water flow was not triggered during secondary extraction of the first 300 m of LW409.**	**Yes**	**Yes**	David Newton (WRM)	Dr Lloyd Townley (GW-SW)
	Groundwater	Groundwater level monitoring results are within trigger levels.	PZ234A	372.3 mAHD	**372.4 mAHD (lowest)**	**The TARP for the Goulburn River groundwater was not triggered during secondary extraction of the first 300 m of LW409. Current PZ234A trigger will be exceeded if the current measured decline (unrelated to UG4) continues. Drawdown at PZ234A will be investigated before the next Committee meeting and a revised**	**Yes**	**Yes**	Andrew Durick (AGE)	Dr Lloyd Townley (GW-SW)
			PZ237A	382.9 mAHD	**383.2 mAHD (lowest)**					

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Performance Measure (Project Approval [05_0117])	Monitoring Component	Performance Indicator	Monitoring Site(s)	Relevant Trigger Level	Highest Recorded Monitoring Level	Highest Recorded Trigger Event	Compliance With Performance Indicator?	Compliance With Performance Measure?	Monitoring Data Reviewed By?	Independent Review By?
						trigger may be required to capture the effects of UG4.				

Note: The GNSS accuracy of ±5 mm will be considered by the Technical Committee when assessing the actual observed movements.
Groundwater trigger level exceedances only result in a trigger event if exceedance is recorded for two consecutive monthly monitoring rounds.
Surface water quality trigger level exceedances only result in a trigger event if exceedance is recorded for two consecutive monthly rounds.
Visual inspections and photographic records completed by MCO

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4. Technical Committee Recommendation

The Technical Committee has reviewed the monitoring observations against the considerations described in Section 5.2 of the UG4 LW409-414 Monitoring and Reporting Program to inform whether any recommended updates or actions are required.

A summary of the Technical Committee's review against the considerations is provided in **Table 2**.

Table 2: Summary of Technical Committee Review

No.	Consideration	Technical Committee Comment
1	*Are monitoring observations within predictions at relevant monitoring locations for the Drip, Corner Gorge and/or Goulburn River?*	**Yes**
2	*Is the monitoring program, proposed trigger levels and/or TARP appropriate to demonstrate compliance with the performance measures for the Drip, Corner Gorge and/or Goulburn River?*	**Yes**
3	*Is the mine plan appropriate to maintain compliance with the performance measures for the Drip, Corner Gorge and/or Goulburn River?*	**Yes**

The Technical Committee has reviewed the monitoring data against the TARP and makes the following recommendations

1. The Technical Committee does not recommend pausing secondary extraction
2. The Technical Committee does not recommend further investigation considering whether
   - longwall extraction of the current and/or future panels should cease prematurely;
   - longwall extraction of the current panel should be relocated further outbye;
   - future panels should commence further outbye than the approved mining layout;
   - the density of cut throughs should be increased within the first portion of extraction of future panels to enable earlier pause and/or cessation of the longwall extraction, if required;
   - retreat speed of future panels should be limited for the first portion of extraction to enable additional time to review/assess monitoring data; and/or
   - change to the approved mining layout is required.

On this basis, the interventions/actions as described in Section 5.2 of the UG4 LW409-414 Monitoring and Reporting Program have been considered and are not required.

The Technical Committee advises that monitoring and management for the Drip, Corner Gorge and Goulburn River, including associated triggers and TARPs, should continue to be implemented as per the approved UG4 LW409-414 Extraction Plan during secondary extraction of the remainder of LW409 and the first 300 m of LW410 (i.e. the next panel review and reporting milestone).

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5. Steering Committee Decision

The Steering Committee has considered the Technical Committee's recommendation and endorses the actions to be implemented prior to the next panel review and reporting milestone.

A summary of actions as an outcome of the Steering Committee decision is provided in **Table 3**.

Table 3: Summary of Actions as an Outcome of the Steering Committee Decision

No.	Action	Responsibility	Proposed Timing
1	Continue to implement monitoring program for the Drip, Corner Gorge and Goulburn River as per the approved UG4 LW409-414 Extraction Plan.	MCO Underground Technical Services Manager MCO Environment and Community Manager	During secondary extraction of remainder of LW409 and the first 300 m of LW410.
2	Investigate observed drawdown at PZ234A prior to the next Committee Meeting.	AGE	Prior to LW410 Committee Meeting
3	Review relevant monitoring data and document recommendation.	Technical and Steering Committees	Following secondary extraction of the first 300 m of LW410.

Yours Sincerely,

Signed by:
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Liam Mildon
Underground Technical Services Manager
Technical Committee Chair for the Drip, Corner Gorge and Goulburn River
Moolarben Coal Operations Pty Ltd

Signed by:
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Ryan Davidson
Underground Operations Manager
Steering Committee Chair for the Drip, Corner Gorge and Goulburn River
Moolarben Coal Operations Pty Ltd

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