

# WAMBO COAL PTY LIMITED



## SOUTH BATES EXTENSION UNDERGROUND MINE

### EXTRACTION PLAN LONGWALLS 21 TO 24

### ATTACHMENT 3 PROGRAM TO COLLECT BASELINE DATA FOR FUTURE EXTRACTION PLANS

**Peabody**

### **Attachment 3**

#### **Program to Collect Baseline Data for Future Extraction Plans**

The following underground mines at the Wambo Coal Mine are approved:

- North Wambo Underground Mine (Wambo Seam) (now completed);
- South Bates Underground Mine (Whybrow and Wambo Seams) (now completed);
- South Bates Extension Underground Mine (Whybrow Seam) (current mining area); and
- South Wambo Underground Mine (Woodlands Hill and Arrowfield Seams) (not yet commenced).

The development of the South Bates Extension Underground Mine (Longwalls 17 to 25) was approved in December 2017 via a modification to the Development Consent (DA 305-7-2003 MOD 17).

This Extraction Plan covers Longwalls 21 to 24 at the South Bates Extension Underground Mine.

Future Extraction Plans at the Wambo Coal Mine will include:

- Extraction Plan(s) for the remaining longwalls at the South Bates Extension Underground Mine (Longwall 25); and
- Extraction Plan(s) for the South Wambo Underground Mine.

The monitoring proposed to be undertaken to collect baseline data for future Extraction Plans is summarised in **Table A3-1**. WCPL considers that the current monitoring with the augmentations described below is adequate to collect sufficient baseline data for use in future Extraction Plans.

**Table A3-1  
Program to Collect Baseline Data for Future Extraction Plans**

Aspect of Future Extraction Plan	Proposed Monitoring
Subsidence	<ul style="list-style-type: none"> <li>• Subsidence monitoring undertaken in accordance with the Subsidence Monitoring Program.</li> <li>• The subsidence monitoring data collected during extraction of Longwalls 17 to 24 will be used to validate revised single-seam subsidence predictions for future Extraction Plans.</li> <li>• It is considered that the proposed subsidence monitoring is adequate to collect sufficient subsidence data for use in future Extraction Plans.</li> </ul>
Groundwater	<ul style="list-style-type: none"> <li>• Groundwater monitoring (groundwater level and quality) undertaken in accordance with the GWMP (<b>Figure 12</b> of the Extraction Plan), including nine additional groundwater monitoring sites (GW27 to GW35) installed along North Wambo Creek.</li> <li>• The groundwater monitoring data collected will be used to validate predicted environmental consequences on groundwater resources for future Extraction Plans. If this validation finds environmental consequences have exceeded those predicted, the groundwater monitoring data will be used to provide revised predictions of environmental consequences.</li> <li>• The Extraction Plan that covers Longwall 25 will take into account the findings of the Groundwater Dependent Ecosystem Study required under Condition B64, Schedule 2 of the Development Consent and not less than 2 years of monitoring results obtained from GW23, GW24, GW25, GW26, P317 and UG139.</li> <li>• The Groundwater Management Plan will adequately capture and incorporate the above commitments.</li> </ul>
Surface Water	<ul style="list-style-type: none"> <li>• Surface water monitoring (flow, quality and bed and bank stability) undertaken in accordance with the SWMP (Figure 12 of the Extraction Plan) along North Wambo Creek, Wambo Creek and Stony Creek, including six additional subsidence and diversion monitoring points to be implemented along North Wambo Creek.</li> <li>• The surface water monitoring data collected will be used to validate predicted environmental consequences on surface water resources for future Extraction Plans. If this validation finds environmental consequences have exceeded those predicted, the surface water monitoring data will be used to provide revised predictions of environmental consequences.</li> <li>• It is considered that the proposed surface water monitoring is adequate to collect sufficient baseline surface water data for use in future Extraction Plans.</li> <li>• The Surface Water Management Plan in preparation will adequately capture and incorporate the above commitments.</li> </ul>

**Table A3-1 (Continued)**  
**Program to Collect Baseline Data for Future Extraction Plans**

Aspect of Future Extraction Plan	Proposed Monitoring
Land	<ul style="list-style-type: none"> <li>• Monitoring of impacts to land in general in accordance with the Longwalls 21 to 24 Land Management Plan, including high resolution photographic recording of cliffs.</li> <li>• The monitoring conducted in accordance with the Longwalls 21 to 24 Land Management Plan will be used in the review of observed subsidence impacts for future Extraction Plans.</li> </ul>
Biodiversity	<ul style="list-style-type: none"> <li>• Monitoring of biodiversity in accordance with the Biodiversity Management Plan (<b>Figure 13</b> of the Extraction Plan), including:                             <ul style="list-style-type: none"> <li>– annual vegetation monitoring in the Remnant Woodland Enhancement Program areas;</li> <li>– annual riparian monitoring (including transects along the North Wambo Creek Diversion, North Wambo Creek, Wambo Creek and Stony Creek); and</li> <li>– annual bird surveys including specific surveys for Swift Parrot and Regent Honeyeater.</li> </ul> </li> <li>• Biodiversity monitoring data collected will be used to validate predicted environmental consequences on biodiversity for future Extraction Plans. If this validation finds environmental consequences have exceeded those predicted, the monitoring data would be used to provide revised predictions of environmental consequences.</li> </ul>
Aboriginal Heritage	<ul style="list-style-type: none"> <li>• Maintenance of an Aboriginal heritage sites database.</li> </ul>
Non-Aboriginal Heritage	<ul style="list-style-type: none"> <li>• In accordance with Condition 62A, Schedule 4 of the Development Consent (now removed from the Development Consent as it has been addressed), an Archival Recording has been completed of the Whynot Homestead and outbuildings.</li> <li>• Structural assessment of the Whynot Homestead will be undertaken post-mining to assess if demolition is required.</li> <li>• Monitoring data associated with subsidence near the Wambo Homestead Complex has been collected in accordance with previous Extraction Plans. This monitoring data would be used to predict impacts to the Wambo Homestead Complex for future Extraction Plans.</li> </ul>

Note: GWMP refers to the Wambo Coal Pty Limited Groundwater Monitoring Program.  
 SWMP refers to the Wambo Coal Pty Limited Surface Water Monitoring Program.