

Appin Mine Area 7

Longwalls 712 to 716

Coal Resource Recovery Plan

16 February 2026



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DOCUMENT CONTROL

Applicant:	Illawarra Coal Holdings Pty Ltd
Mine:	Appin Mine
Name of operator:	Gear M Illawarra Met Coal Pty Ltd trading as GM ³
Project approval:	MP08_0150
Mining leases:	Consolidated Coal Lease 767, Mine Lease 1698, Mine Lease 1433, Mine Lease 1832, Mine Lease 1847 and Mine Lease 1874
Document Title:	Appin Mine Area 7 Longwalls 712 to 716 Extraction Plan Coal Resource Recovery Plan

NAME OF PERSONS AUTHORISING THIS PLAN

NAME	TITLE	DATE
Gary Brassington	Director Sustainability and Government	December 2025

DOCUMENT REVISIONS

REVISION	DESCRIPTION OF CHANGES	DATE
1	New document for consultation	December 2025

PERSONS INVOLVED IN PREPARATION OF THIS PLAN

NAME	TITLE	EXP (YEARS)
Bruce Blunden	Manager Approvals	30
David Read	Superintendent Infrastructure Protection	15

1. INTRODUCTION

1.1 Project Background

Illawarra Coal Holdings Pty Ltd (ICHPL) operates the Bulli Seam Operations (BSO) Appin Mine extracting hard coking coal used for steel production. On 22 December 2011 the Planning and Assessment Commission (PAC), under delegation of the Minister for Planning, approved BSO (MP 08_0150) under Part 3A of the Environmental Planning and Assessment Act 1979 (EP&A Act) to continue mining operations until 2041.

This Coal Resource Recovery Plan (CRRP) supports the Longwalls 712 to 716 Extraction Plan for mining of coal from Appin Area 7 (AA7).

The CRRP describes the proposed mining geometry, extraction sequence and the quality of the coal resource to demonstrate the effective recovery of the resource.

1.2 Scope

This CRRP has been prepared in accordance with the mining lease requirements as detailed in Table 1.

Table 1 Appin Mine Leases, Licences and other Reference Documents

MINING LEASE - DOCUMENT NUMBER	START	FINISH
CCL 767	29 OCT 1991	08 JUL 2029
ML 1433	24 JULY 1998	24 JULY 2043
ML 1698	26 JUN 2014	26 JUN 2035
ML 1832	9 AUG 2022	9 AUG 2043
ML 1874	20 FEB 2020	20 FEB 2045
ML 1892	4 SEP 2025	4 SEP 2046

1.3 Objectives

The objectives of this CRRP are to detail the efficient and effective extraction of coal from Longwalls 712 to 716 to ensure compliance with the BSO Approval and mining lease conditions.

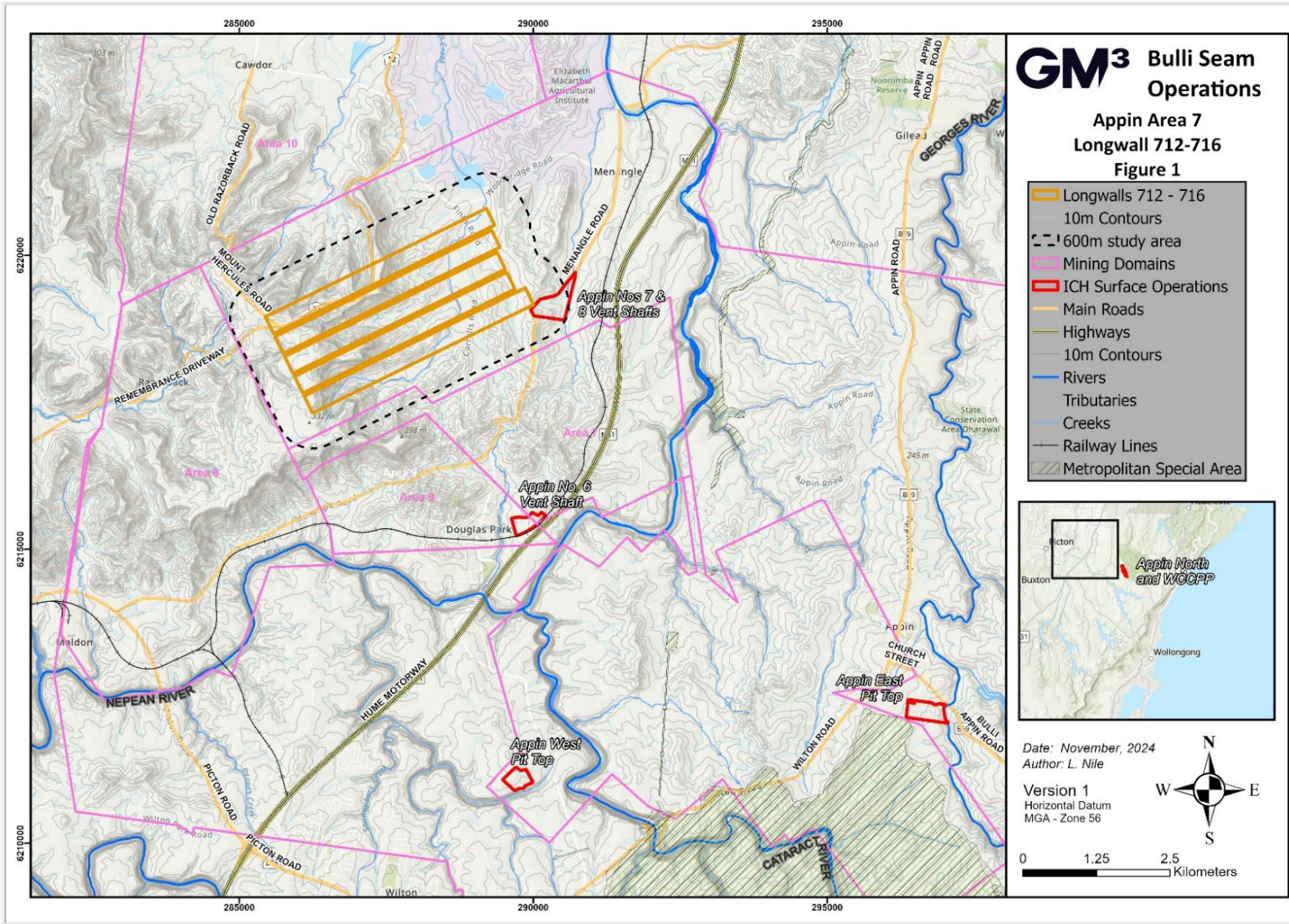
1.4 Study Area

The Study Area for the Extraction Plan is defined in accordance with MSEC (2025) as the surface area predicted to be affected by the proposed mining of Longwalls 712 to 716 and encompasses the areas bounded by the following limits (Figure 1):

- A 35° angle of draw line from the maximum depth of cover, which equates to a horizontal distance varying between 555 m and 800 m around the limits of the proposed extraction areas for Longwalls 712 to 716, and
- The predicted limit of vertical subsidence, taken as the 20 mm subsidence contour, resulting from the extraction of the proposed Longwalls 712 to 716.

Additionally, features potentially sensitive to far field movements, which includes horizontal, valley closure and upsidence movements that may be outside the 20 mm subsidence zone or 35° angle of draw line have been assessed.

Figure 1 Longwalls 712 to 716 Study Area



2. THE RESOURCE

The AA7 mining area lies in the southern part of the Permo–Triassic Sydney Basin, within which the main coal bearing sequence is the Illawarra Coal Measures of Late Permian age. The Illawarra Coal Measures contain several seams, the uppermost of which is the Bulli Seam.

ICHPL plan to extract high quality coking coal from the Bulli Seam within AA7 as detailed in the BSO Environmental Assessment (EA).

Three stratigraphic divisions form the overburden to the Bulli Seam. All three belong to the Hawkesbury Tectonic Stage. The lowest division is the Narrabeen Group which is subdivided into a series of interbedded sandstone and claystone units. Overlying the Narrabeen Group is the Hawkesbury Sandstone Group, which is a series of bedded sandstone units. Above the Hawkesbury Sandstone is the Wianamatta Group, which consists of shales and siltstones.

The depth of cover to the Bulli Seam directly above the proposed longwalls varies between 555 – 800 m. The minimum depth of cover occurs along a tributary to Navigation Creek above the tailgate of Longwall 712. The maximum depth of cover occurs along the Razorback Range above the western end of Longwall 716. Surface depth contours can be found in MSEC (2025).

The Bulli Seam floor within the Study Area generally dips from the south-southeast to the north-northwest. The seam thickness within the proposed longwall goaf area varies between 3.0 m and 3.6 m. Surface depth contours can be found in MSEC (2025) Drawing No. 1459-04 and seam thickness contours in MSEC Drawing No. 1459-05.

The Bulli Seam floor within the Study Area generally dips from the south to the north. The seam thickness within the proposed longwall goaf areas varies between 2.8 m and 3.3 m.

The proposed longwall dimensions are provided in Table 2. The lengths of longwall extraction excluding the installation headings are approximately 9 m less than the overall void length provided in the below table. The longwall face widths excluding the first workings are 315 m. The longwalls will be extracted from west to east.

Table 2 Geometry of the Proposed Longwalls 712 to 716

LONGWALL	OVERALL VOID LENGTH INCLUDING INSTALLATION HEADING (M)	OVERALL VOID WIDTH INCLUDING FIRST WORKINGS (M)	OVERALL TAILGATE CHAIN PILLAR WIDTH (M)
712	4195	324	51
713	4030	324	51
714	4030	324	52
715	4110	324	52

716	4195	324	53
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The layout and dimension of the proposed longwalls has been refined from the proposed layout of the BSO EA. The BSO EA proposed layout within AA7 and 9 comprised longwalls having overall lengths varying between 1,150 m and 5,575 m, overall void widths varying between of 320 m and 325 m with chain pillars varying between 35 – 45 m.

Note: Appin Mine is extracting coal at deep depths of cover (>750 m) which has posed challenging mining conditions. The geometry of Longwalls 712 to 716 may change in the future to account for these conditions which will be assessed in any future Extraction Plan variation applications.

2.1 Extraction Sequence

Extraction of longwalls will occur in a staged process commencing with Longwall 712 and finishing with Longwall 716. The scheduled mining of Longwalls 712 to 716 is provided below in Table 3.

Table 3 Expected Schedule for Longwall Extraction 712 to 716

LONGWALL	START	FINISH
712	January 2027	June 2028
713	July 2028	November 2029
714	November 2029	March 2031
715	April 2031	August 2032
716	September 2032	January 2034

2.2 Estimated Recovery

Longwalls 712 to 716 contain approximately 36.6 million tonnes of run-of mine (ROM) coal, with 2.4 million tonnes ROM recoverable from roadway development and 34.2 million tonnes from longwall extraction. The proposed longwalls will extract the full seam height.

2.3 Possible Effects on Other Seams

The Bulli Seam is the top seam in the Illawarra Coal Measures and consequently, mining this seam does not preclude future extraction of the seams below. There are currently no workings in other seams in the area. There are five coal seams below the Bulli Seam ranging in thickness from 0.8 m to 9.0 m.

The adjacent Balgownie seam is from 5 m to 10 m below the Bulli seam, but is only approximately 1.2 m thick and is not considered economically viable to mine. The mining of Longwalls 712 to 716 will not preclude the future mining of the lower seams.

Using available technology the Bulli Seam is currently the only economic seam in the area and there are no existing plans for mining other seams.

3. PLAN ADMINISTRATION

3.1 Distribution

ICHPL will make the Extraction Plan and other relevant environmental documentation publicly available on the GM³ website (Condition 11, Schedule 6).

Individual management plans will be developed in consultation with, and copies will be provided to, the relevant Government agencies and stakeholders as detailed in the appropriate Plan.

3.2 Review and Update

In accordance with Condition 5 of Schedule 6 of the Appin Mine approval, the Extraction Plan will be reviewed, and if necessary revised, within three months, of:

- the submission of an Annual Review;
- the submission of an incident report;
- the submission of an Independent Environmental Audit (IEA) report; or
- any modification to the conditions of the Appin Mine approval (unless the conditions require otherwise).

If significant deficiencies in this Plan are identified in the interim period, the plans will be modified as required. This process has been designed to ensure that environmental documentation continues to meet current environmental requirements, including changes in technology and operational practice, and expectations of stakeholders.

4. REFERENCES

MSEC 2025, Appin Longwalls 712 to 716: Subsidence Predictions and Impact Assessments for the Natural and Built Features due to the Extraction of the Proposed Longwalls 712 to 716 at Appin Colliery. Report for GM3.