



# Austar Coal Mine Rehabilitation Management Plan

February 2026

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<b>Name of Lease Holder</b>	Austar Coal Mine Pty Limited
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Tenement	Grant Date	Expiry Date	Holder
<b>CCL 728</b>	10/10/1989	30/12/2044	Austar Coal Mine Pty Limited
<b>CCL 752</b>	23/05/1990	30/12/2044	Austar Coal Mine Pty Limited
<b>CML 2</b>	24/03/1993	24/03/2041	Austar Coal Mine Pty Limited
<b>DSL 89 (index title)</b>	04/04/1908	04/04/2030	Austar Coal Mine Pty Limited
<b>ML 1157</b>	08/07/1949	08/07/2028	Austar Coal Mine Pty Limited
<b>ML 1283</b>	13/07/1961	13/07/2042	Austar Coal Mine Pty Limited
<b>ML 1345</b>	23/03/1995	30/12/2044	Austar Coal Mine Pty Limited
<b>ML 1388</b>	02/04/1996	02/04/2038	Austar Coal Mine Pty Limited
<b>ML 1550</b>	24/06/2004	23/06/2046	Austar Coal Mine Pty Limited
<b>ML 1661</b>	22/11/2011	22/11/2032	Austar Coal Mine Pty Limited
<b>ML 1666</b>	25/01/2012	25/01/2033	Austar Coal Mine Pty Limited
<b>ML 1677</b>	23/08/2012	22/08/2032	Austar Coal Mine Pty Limited
<b>MPL 1364</b>	28/10/1968	28/10/2029	Austar Coal Mine Pty Limited
<b>MPL 204</b>	03/02/1916	03/02/2039	Austar Coal Mine Pty Limited
<b>MPL 217</b>	12/04/1916	03/02/2039	Austar Coal Mine Pty Limited
<b>MPL 23</b>	17/05/1909	17/05/2030	Austar Coal Mine Pty Limited
<b>MPL 233</b>	01/08/1916	01/08/2036	Austar Coal Mine Pty Limited
<b>MPL 269</b>	07/12/1917	07/12/2039	Austar Coal Mine Pty Limited
<b>EL 6598</b>	13/07/2006	13/07/2027	Austar Coal Mine Pty Limited
<b>ML1851</b>	16/05/2023	16/05/2044	Austar Coal Mine Pty Limited

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## 1. INTRODUCTION

This Rehabilitation Management Plan (RMP) has been prepared to satisfy the relevant conditions of Austar Coal Mine Pty Limited (Austar) Mining Leases (MLs) as introduced in the Mining Amendment (Standard Conditions of Mining Leases – Rehabilitation) Regulation 2021 under the *Mining Act 1992*. This RMP has been prepared in accordance with the NSW Resources Regulator *Form and Way - Rehabilitation Management Plan for Large Mines* (RR, 2025) and associated guidelines (refer to **Section 2.1**).

On 26 February 2021, a decision was made by the Yancoal board to transition the Austar Coal Mine from care and maintenance to closure. Austar is currently in the closure planning stage of mine closure, undertaking technical studies and site investigations to address closure knowledge gaps and develop detailed decommissioning and rehabilitation execution plans that will deliver optimal rehabilitation and closure outcomes at the site.

Austar is progressively completing ‘Early Works’ projects (including mine sealing, decommissioning and demolition of redundant infrastructure) while closure studies are completed.

This RMP has been prepared based on the current knowledge base and to document the closure planning and early works activities being undertaken. The RMP will be updated as closure studies progress, and the specific closure activities and schedules are determined.

### 1.1. History of Operations

Austar Coal Mine Pty Limited (Austar), a subsidiary of Yancoal Australia Limited (Yancoal), operates the Austar Coal Mine, a closed underground coal mine located approximately 10 kilometres (km) southwest of Cessnock in the Lower Hunter Valley in NSW. Austar Coal Mine incorporates the former Pelton, Ellalong, Cessnock No. 1 (Kalingo) and Bellbird South Collieries and included coal extraction, handling, processing and rail and road transport facilities.

Pit top facilities are located on Middle Road, Paxton, and the Coal Handling and Preparation Plant (CHPP) was located at Wollombi Road, Pelton. Ancillary infrastructure areas are located at No. 2 Shaft, Dry Creek Road Ellalong, and the Kalingo Infrastructure Area. Reject emplacement areas are located at the CHPP, Aberdare Extended Colliery and Bellbird Areas 12 and 13. There has been progressive rehabilitation undertaken at the reject emplacement areas.

There is a long history of mining at the Austar Coal Mine with mining operations commencing at the Pelton Colliery in 1916 and the Pelton CHPP constructed in 1960-1961. Underground mining began at the current pit top facilities in 1978 with coal delivered to the Pelton CHPP by an overland conveyor.

In 1998, Pelton and Ellalong Collieries amalgamated with Bellbird South and were renamed Southland Colliery. Southland Colliery was subsequently purchased by Yancoal and renamed Austar Coal Mine in 2004. Given its long history, parts of the mine’s operational areas are listed under the Heritage provisions of the *Cessnock Local Environmental Plan 2011* (Cessnock LEP) (NSW Parliament, 2011).

Operations are approved under two major project approvals: Bellbird South (DA 29/95) and Stage 3 (PA 08\_0111), along with numerous development approvals from Cessnock City Council (refer to **Section 1.2**). Bellbird South consent DA 29/95 expired on 14 February 2022<sup>1</sup> whilst the Stage 3 consent PA 08\_0111 expires on 31 December 2030.

Within the Bellbird South Area, mining was completed in Stage 1 (Longwalls A1 and A2), Stage 2 (Longwalls A3-A5a) and Bellbird South Mining Area (Longwalls B2-B6). Within the approved Stage 3 area, mining was completed in Longwalls A7 and A8 only. No mining was undertaken in Longwalls B1 and B7 (Bellbird South Mining Area) or Longwalls A9 to A19 (Stage 3).

On 30 March 2020, the Austar Coal Mine transitioned to care and maintenance, with the cessation of mining and coal processing activities. In 2021, the mine transitioned to closure activities and on 11 October 2022, the underground workings were permanently sealed.

Following Yancoal’s announcement of permanent mine closure, Austar resourced the Austar Closure Planning Team and commissioned a team of subject matter experts (SMEs) to complete knowledge gap assessments and develop detailed study scopes to inform mine closure.

In September 2023, Austar completed a Pre-Feasibility Study (PFS) including knowledge gap assessments, risk assessments, site sampling and analysis and technical studies. PFS identified the preferred go-forward options for:

- Final land uses
- Conceptual final landforms
- Demolition strategy (with consideration to heritage values)
- Approvals pathways to execute closure.

In March 2024, the Feasibility Study (FS) commenced to prove and refine the preferred go-forward rehabilitation and closure option(s). The FS includes additional site investigations to fill knowledge gaps identified in PFS technical studies and address PFS recommendations. The FS is scheduled for completion in mid-2026. The closure planning and execution timeline is discussed further in **Section 6.1**.

**Table 1** summarises the history of the Austar Coal Mine.

**TABLE 1 - HISTORY OF MINING ACTIVITIES AT AUSTAR COAL MINE**

Year	Historical Details
1916	Underground mining commenced at Pelton Colliery
1921	Underground mining commenced at Cessnock No.1 (Kalingo) Colliery
1960/1961	Pelton CHPP constructed
1961	Underground mining ceased at Cessnock No.1 Colliery
Late 1960s	Cessnock No. 1 Colliery amalgamated into Pelton Colliery
1978	Underground mining commenced at Ellalong Colliery
1983	Longwall mining commenced at Ellalong Colliery
1992	Underground Mining ceased at Pelton Colliery

<sup>1</sup> Under Schedule 2 Condition 5, DA 29/95 continues to apply in all respects other than to permit the carrying out of mining operations, until the rehabilitation of the site is complete.

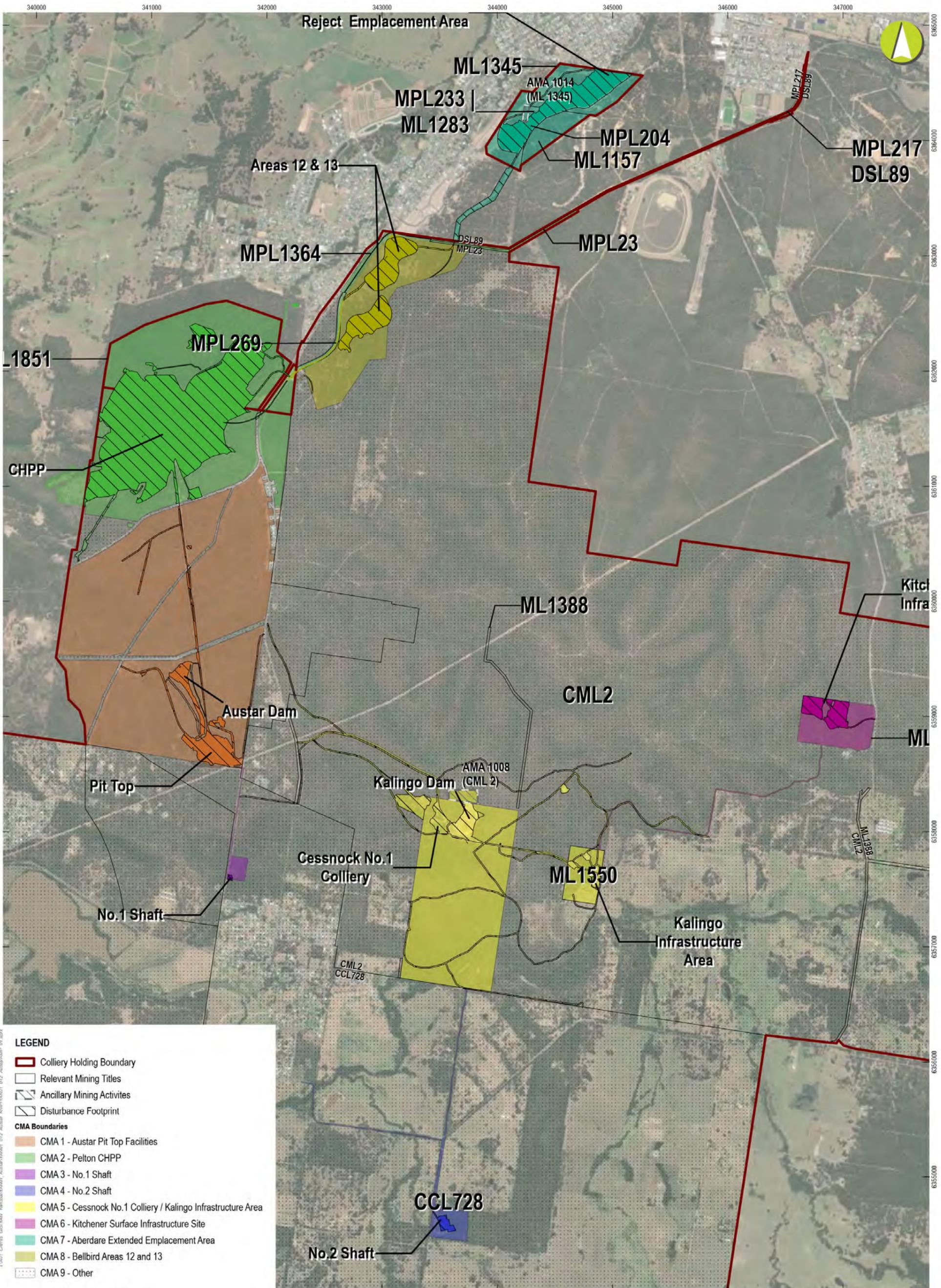
Year	Historical Details
1995	Pelton Open Cut Coal Mine established
1998	Ellalong and Pelton Collieries amalgamated with Bellbird South Colliery and renamed Southland Colliery
2003	Spontaneous combustion event in Longwall SL4 and mine was placed on care and maintenance for 18 months
2004	Yancoal purchased Southland Colliery and changed the name to Austar Coal Mine
2006-2013	Production recommenced with Longwall Top Coal Caving in Stage 1 and Stage 2 Bellbird South mining areas under DA 29/95
2014-2015	Longwalls A7 and A8 mined in Stage 3 mining area under PA 08_0111
2016-2020	Longwalls B2-B6 mined in Bellbird South mining area under DA 29/95
2020	Austar Coal Mine enters care and maintenance
2021	Austar Coal Mine transitions to closure
2022	Partial sealing of the underground mine completed, and ventilation ceased. Access no longer possible.
2023	Austar Closure Prefeasibility Study completed
2024	Austar Closure Feasibility Study commenced
2025	Demolition of mine infrastructure commenced

The Austar mining complex includes approximately 10,300 hectares (ha) of sub-surface mining leases and 923 ha of surface leases. It measures approximately 17 km across and 16 km long. As such, for the purposes of closure planning, Yancoal has divided the mining areas at Austar into discrete Closure Management Areas (CMAs), representing key areas of the mine site. The CMAs were assigned to principally align with the geographical surface disturbance areas used to calculate the Rehabilitation Cost Estimate (RCE) for the site and relate to discrete areas rather than activities.

Final land use and mining domains, as specified in the *Form and Way - Rehabilitation Management Plan for Large Mines* (RR, 2025) and associated guidelines, have been defined within each CMA (refer to **Section 2.4**).

The CMAs have been adopted for the purpose of this RMP as shown in **Figure 1** and are as follows:

- CMA 1 – Austar Pit Top Facilities;
- CMA 2 – Pelton CHPP;
- CMA 3 – No. 1 Shaft;
- CMA 4 – No. 2 Shaft;
- CMA 5 – Cessnock No.1 Colliery / Kalingo Infrastructure Area;
- CMA 6 – Kitchener Surface Infrastructure Site (SIS);
- CMA 7 – Aberdare Extended Emplacement Area (EEA);
- CMA 8 – Bellbird Areas 12 and 13; and
- CMA 9 – Other.



**Austar Coal RMP**

**CMA Locations**

**FIGURE 1**

A summary of the history of operations within each CMA is provided in **Table 2**.

**TABLE 2 - HISTORY OF OPERATIONS BY CMA**

CMA	Description
1 – Austar Pit Top Facilities	<p>CMA 1 incorporates the Austar Pit Top Facilities located off Middle Road, Paxton. The current Austar Pit Top was developed in the 1970's. Production at the Austar Pit Top commenced in 1978 (when it was known as Ellalong Colliery) with coal being delivered by overland conveyor to the Pelton surface facilities (CMA2). Historically, mining was predominantly via bord and pillar mining methods until longwall mining was introduced into Ellalong Colliery in 1983.</p> <p>Operations at the Pit Top continued until March 2020 when Austar transitioned to care and maintenance.</p> <p>CMA 1 includes areas of Pit Top infrastructure including:</p> <ul style="list-style-type: none"> <li>• Austar's Main Drift (including the dolly cart and drift which was sealed in October 2022);</li> <li>• Coal clearance infrastructure (drift conveyor, a surface bin and overland conveyor to the CHPP);</li> <li>• Offices, bathhouse, workshops, equipment and hydrocarbon storage, and main stores.</li> </ul> <p>Demolition of Pit Top infrastructure commenced in 2025 and is scheduled for completion in 2026.</p> <p>CMA 1 also includes Austar Dam which receives mine water from the Pit Top by overland flow, and mine dewatering by pipeline from Kalingo Dam and the half megalitre tank. Water from Austar Dam is pumped by pipeline to the CHPP for treatment or disposal.</p> <p>CMA 1 includes a portion of <i>The South Maitland Railway System, Item ID 1212</i> heritage listed curtilage.</p>
2 – Pelton CHPP	<p>CMA 2 incorporates the Pelton CHPP, associated conveyor systems and train loadout facilities located south-west of the township of Bellbird, off Wollombi Road, Pelton. The CHPP is located centrally within the mine facilities and is surrounded by clean and ROM coal stockpiles to the north and west, administration buildings, store and workshops to the south, and a series of mine water dams to the east. A reverse osmosis water treatment plant is also located adjacent to the CHPP for treatment of mine water. Two small open cut pits, most recently used for overburden and coarse coal reject emplacement are located to the south of the site.</p> <p>Underground mining commenced at Pelton Colliery in 1916, and the Pelton CHPP was constructed in approximately 1960 for the washing of Pelton Colliery coal. Pelton Colliery was amalgamated with the neighbouring Cessnock No.1 Colliery (CMA5) in the late 1960s.</p> <p>Following the development of the Ellalong Colliery in the 1970's, coal was delivered by the overland conveyor from the Ellalong Drift (CMA 1) to the CHPP where the raw coal was washed, processed and stockpiled prior to transport by rail to the Port of Newcastle. Fine tailings were historically stored in tailings dams on site, however have more recently been disposed of to historic underground workings.</p> <p>CMA 2 is located within <i>The Collieries of the South Maitland Coalfields/Greta Coal Measures, Item ID 1215</i> heritage listed curtilage and includes a portion of <i>The South Maitland Railway System, Item ID 1212</i> heritage listed curtilage.</p> <p>Demolition of redundant, non-heritage mining infrastructure (including the CHPP and conveyor systems) within CMA 2 was completed during 2025.</p>
3 – No. 1 Shaft	<p>CMA 3 includes the No. 1 Shaft which is located to the south of the Austar Pit Top off Truro Street, adjacent to the township of Ellalong. Development of the site was approved with the Austar Pit Top in the 1970's.</p> <p>The No.1 Shaft connected the surface to the underground workings and is approximately 272 m deep.</p> <p>The site was originally an upcast shaft with a ventilation fan. With the completion of the No. 3 Shaft (CMA 5), the No. 1 Shaft was most recently used for air intake and as a second egress from the mine. The No. 1 Shaft was partially sealed in October 2022.</p>
4 – No. 2 Shaft	<p>CMA 4 comprises the No. 2 Shaft and the former Ellalong Pit Top. It is located on Dry Creek Road, Ellalong approximately 4 km to the south-east of Austar Pit Top Facilities.</p>

CMA	Description
	<p>Construction of the No. 2 Shaft and Ellalong Pit Top commenced in the 1980s. The No. 2 Shaft was the entry to Ellalong workings and was constructed for ventilation and mine access. It is approximately 474 m deep and 5.4 m wide and was most recently used for pumping water from the underground to the surface. A pipeline from the No. 2 Shaft facility conveyed mine water to Kalingo Dam at the Kalingo Infrastructure Area until September 2021 when it was decommissioned. The shaft is sealed with water from the old workings.</p>
5 – Cessnock No. 1 Colliery / Kalingo Infrastructure Area	<p>CMA 5 includes the Cessnock No. 1 Colliery (also known as the Kalingo Colliery), Kalingo Dam, and the Kalingo Infrastructure Area (KIA) to the east.</p> <p>The Cessnock No. 1 Colliery operated from the 1920s until 1961 when it was amalgamated into the Pelton Colliery. This area includes two sealed shafts (Kalingo No. 1 and Kalingo No. 2) that are around 370 m deep.</p> <p>The Cessnock No. 1 Colliery is located within <i>The Collieries of the South Maitland Coalfields/Greta Coal Measures, Item ID 1215</i> heritage listed curtilage and includes a portion of <i>The South Maitland Railway System, Item ID 1212</i> heritage listed curtilage.</p> <p>Following its closure, most of the infrastructure at the Cessnock No. 1 Colliery was demolished. Today only two extant structures remain (the Upcast Shaft and Fan Building, and the Engine Room), in addition to foundational evidence of a number of the former structures.</p> <p>The site also contains Kalingo Dam, which forms part of the Austar mine water system. Kalingo Dam received mine dewatering from No. 2 Shaft (CMA 4) and can receive water from the Kitchener SIS (CMA 6) by pipeline. A pipeline conveys water from Kalingo Dam to Austar Dam (CMA1) at the Austar Pit Top surface facilities. Desilting of the Kalingo Dam was completed in 2025 prior to proposed removal of the dam wall and rehabilitation in 2026.</p> <p>The KIA to the east was constructed in the early 2000's. It includes the No. 3 and No. 4 shafts which provided ventilation, and services (electricity, water, compressed air and nitrogen) to the mining operation. All services have now been disconnected as part of decommissioning works and the shafts were partially sealed in October 2022. Surface infrastructure at the KIA was demolished in March and April 2025.</p>
6 – Kitchener SIS	<p>The Kitchener Surface Infrastructure Site (SIS) is located within Austar owned land surrounded by Werakata State Conservation Area. The Kitchener SIS was constructed in late 2009 to early 2010 and is the most recent development at the Austar Coal Mine.</p> <p>Kitchener SIS is the site of the No. 5 upcast ventilation shaft, and No. 6 downcast shaft (both sealed at the surface in early 2022) and includes a fully grouted services borehole and water storage areas to manage potentially sediment laden water from disturbed areas.</p> <p>Man-winder shafts and new pit top facilities were approved at the Kitchener SIS but were not constructed.</p>
7 – Aberdare Extended Emplacement Area	<p>The Aberdare Extended Emplacement Area (EEA) is located east of Bellbird Heights and south of Cessnock. It is accessed via private haul road from the CHPP off Wollombi Road, Pelton.</p> <p>The site was formerly the Aberdare Extended open cut mine and was used as Austar's main coarse coal reject emplacement area until mining ceased in 2020.</p> <p>The southern portion of the Aberdare EEA was filled and capped with overburden and rehabilitated in 2012-2013. The northern portion has also been capped and rehabilitated with the most recent rehabilitation being undertaken in 2019-2020. Rehabilitation to date has involved the capping and revegetation of these areas of the emplacement and stabilising with open grassland. The central portion remains uncapped.</p> <p>The Aberdare EEA is located mainly on privately owned (non-Austar) land which is zoned for rural land use. Austar has committed to returning an open grassland area to the landholder. There is an approved subdivision being constructed directly adjacent to the south west of the Aberdare EEA.</p> <p>A portion of CMA 7 is located within <i>The Collieries of the South Maitland Coalfields/Greta Coal Measures, Item ID 1215</i> heritage listed curtilage. CMA 7 also includes a portion of <i>The South Maitland Railway System, Item ID 1212</i> heritage listed curtilage</p>

CMA	Description
8 – Bellbird Areas 12 and 13	<p>CMA 8 comprises the Bellbird Areas 12 and 13 emplacement areas. The area is located east of Bellbird and is accessed from Wollombi Road, Pelton.</p> <p>The former Bellbird pit top and open cut mines (Areas 12 and 13) were filled and rehabilitated in the late 1990’s to early 2010’s.</p> <p>Bellbird Area 12 Emplacement Area has been mostly capped and sown to pasture, except for the mine de-watering borehole infrastructure area. Area 13 has been capped and sown to pasture. Rehabilitation monitoring in both areas indicates these areas are self-sustaining, and weed management is required to progress this ecosystem further.</p> <p>CMA 8 is located within <i>The Collieries of the South Maitland Coalfields/Greta Coal Measures, Item ID 1215</i> heritage listed curtilage and includes a portion of <i>The South Maitland Railway System, Item ID 1212</i> heritage listed curtilage.</p>
9 - Other	<p>CMA 9 includes all other land above Austar’s underground mining leases, including the area above mine workings.</p> <p>CMA 9 includes a portion of <i>The South Maitland Railway System, Item ID 1212</i> heritage listed curtilage.</p>

## 1.2. Current Development Consents, Leases and Licences

### 1.2.1. Development Consents

Austar Coal Mine operates under two major project approvals: Bellbird South (DA 29/95) and Stage 3 (PA 08\_0111), in addition to several development consents issued by Cessnock City Council between 1974 and 2012. DA 29/95 has been modified seven times, with the most recent modification (Mod 7) approved on 25 August 2017. Similarly, PA 08\_0111 has undergone three modifications, with the latest (Mod 3) approved on 17 December 2013.

Approval to undertake mining operations under DA 29/95 lapsed on 14 February 2022. Under Schedule 2 Condition 5, this consent continues to apply in all other respects until rehabilitation of the site is carried out to the required standard. Austar continues to undertake rehabilitation activities and relevant monitoring in accordance with DA29/95 and all approved management plans.

It is noted that some closure activities (i.e. demolition) are permitted under the Exempt Development provisions of the *State Environmental Planning Policy (Resources and Energy) 2021* (Resources SEPP).

A detailed summary of the current development approvals and consents held by Austar is provided in **Table 3** below.

**TABLE 3 - DEVELOPMENT CONSENTS HELD BY AUSTAR**

Consent Description	Date	Expiry	Approval Authority	Summary of Approved Development
DA 29/95	14 Feb 1996	14 Feb 2022	Minister for Urban Affairs and Planning	<p>Ellalong Colliery Extension into Bellbird South.</p> <p>Extension of underground mining activities into Bellbird South area (CML 2).</p> <p>Mine life of 21 years with a production of 3 Million tonnes per annum (Mtpa).</p> <p>Reject emplacement.</p> <p>Construction and operation of a new infrastructure site including new ventilation shaft and fan(s) (No. 2 Shaft) adjacent to Sandy Creek Road.</p> <p>Use of Pelton CHPP for washing and handling of coal.</p> <p>Provision of a maximum raw coal stockpile of 100,000 t.</p> <p>Reopening of disused Cessnock No. 1 Colliery shafts for ventilation and access, or the sinking of new shafts, as required.</p> <p>Construction of various water management devices including sedimentation and clean water dams and drainage systems.</p>
DA 29/95	27 September 2006 (MOD 1)	14 Feb 2022	Minister for Planning	<p>Use of longwall top coal caving (LTCC) mining methods in two longwall panels.</p> <p>Installation of a larger capacity fan at the site approved for DA 8/1999/1658.</p> <p>Installation of a new downcast ventilation shaft.</p> <p>Installation of a new 10 MVA substation.</p> <p>Installation of a nitrogen inertisation plant with a 2,000 m<sup>3</sup> capacity.</p>
	8 Jun 2008 (MOD 2)			<p>Increase in the maximum allowable extraction height from 4.5 m to 6.5 m</p>
	28 May 2009 (MOD 3)			<p>To allow longer and wider panels A4 and A5.</p>
	7 Dec 2010 (MOD 4)			<p>Extract one additional Longwall Panel A5a (LW A5a)</p>
	27 April 2012 (MOD 5)			<p>Extension of Longwall Panel A5a</p>
	29 January 2016 (MOD 6)			<p>Extension to Bellbird South development consent area to include Longwall panels LWB1 to LWB3.</p> <p>Extension of consent to 14 February 2022</p>
	25 August 2017 (MOD 7)			<p>Extension to Bellbird South development consent area to include Longwall panels LWB4 to LWB37</p>
Project Approval 08_0111	6 Sep 2009	31 Dec 2030	Minister for Planning	<p>Stage 3 Expansion Project - extension to longwall mining area to east of existing operations. Key features:</p> <p>Longwall production from the Greta coal seam from panels A6 to A17 using LTCC.</p> <p>Construction of a new surface infrastructure site south west of Kitchener including ventilation shafts and fans, winders, bath house facilities, a workshop, electricity substation, store and offices. Construction of a new road and intersection at Quorrobolong Road.</p> <p>Coal will continue to be brought to the surface at Austar's existing surface facilities at Paxton. These facilities will continue to be used to take large mining equipment into and out of the mine.</p> <p>Continued use of Austar's existing water management, coal transport systems, coal preparation plant and rejects emplacement areas.</p>

Consent Description	Date	Expiry	Approval Authority	Summary of Approved Development
Project Approval 08_0111 (Modifications)	4 May 2010 (MOD 1)	31 Dec 2030	Delegate for Minister for Planning	Minor change to subsidence impact performance measures to built features in Table 1 of Project Approval. The key performance indicator which was amended in the Project Approval requires the project does not cause built features to go beyond safe, serviceable and repairable criteria, unless the landowner agrees in writing.
	13 March 2012 (MOD 2)			Reorientation of the Stage 3 longwalls. Removal of longwall A6, and extraction of coal in longwalls A7 to A19, which are a reorientation of previously approved longwalls A7 to A17 to more closely align with the direction of principal stress. In addition, the chain pillar widths are increased from 45m to 55m to reduce roadway failure risks which in turn further minimises subsidence. The modification will enable more efficient and safer extraction of coal from the Stage 3 area.
	17 Dec 2013 (MOD3)			Extension of Stage 3 longwalls A7 to A10.
DA 74/75/79	4 Dec 1975	Nil expiry	Cessnock City Council (CCC)	Development Consent for a coal mine at Ellalong including: Approval for underground coal mining. Construction of a new access drift, upcast shaft and ventilation shaft. Expansion of the Pelton CHPP. Conveyance of coal from the Ellalong pit top to the Pelton CHPP Operation for the washing and handling of coal. Water management systems. Upgrade of the Pelton rail loading facility and railway spur. reject emplacement underground, open cut areas adjoining Pelton and other abandoned mine sites.
DA 118/680/93	8 Oct 1980	Nil expiry	CCC	Downcast Ventilation Shaft and Man Access Shaft, Bathhouse and Offices at Ellalong Colliery.
DA 118/691/181	26 Nov 1992	Nil expiry	CCC	Pelton Open Cut Coal Mine. Approval of an open cut coal mine adjoining Pelton Colliery up to 300,000 tonnes of coal and underground mining of approximately 27,000 tonnes of coal from a section of prior workings south of the proposed open cut.
DA 118/691/181	11 Jan 1993	Nil expiry	CCC	Pelton Open Cut Coal Mine – Modification. Extension of open cut mining area. Infrastructure and water management modifications.
DA 118/691/229	7 Jan 1993	Nil expiry	CCC	Pelton Coal Handling Preparation Plant – Raw Coal Handling Facility, Washed Coal Facility and Upgrading of the Water Management System. Upgrade and replacement of coal handling infrastructure such as surge bin, automatic stacking system, reclaim facilities and skyline conveyor. Increase in stockpile capacity. Upgrade to water management system. Extension of the reclaim tunnel. Construction of a mine water transfer pipeline from Ellalong Colliery to Pelton. Provision of underground workings for emergency mine water disposal. Upgrade of lime treatment plant.
DA 118/693/42	26 Nov 1993	Nil expiry	CCC	Extension of Pelton Open Cut Mine. Extension of open cut mining area including emplacement of overburden in previously mined blocks and extension of the mine's water management system.
DA 118/694/120	27 Jun 1994	Nil expiry	CCC	Approves the extraction of longwall panels LW13 and LW14 as a minor extension to the Ellalong Colliery within CML2.
DA 118/694/152	7 Jul 1994	Nil expiry	CCC	Relocatable Office and Temporary Bathhouse at Pelton Colliery.

Consent Description	Date	Expiry	Approval Authority	Summary of Approved Development
DA 118/695/22	12 Jul 1995	Nil expiry	CCC	Establishment of an overburden stockpile for the Pelton Open Cut Operations.
DA 118/695/81	12 Jul 1995	Nil expiry	CCC	Additions for Bathhouse, office and car park at Ellalong Colliery. Extension to the bathhouse at the Ellalong drift site. Extension of existing offices or construction of portable offices. Construction of a 4000 square metre car park.
DA 8/1999/1658	18 Feb 2000	Nil expiry	CCC	Relocation of Ventilation Facilities at Bellbird South Underground Mine. Installation of a ventilation shaft and fan house. Upgrading of the existing access track to the site from the Pelton - Ellalong Road.
DA 8/2002/655/1	16 Oct 2002	Nil expiry	CCC	Compressor and Pump Enclosure Buildings at Ellalong Colliery.
DA 118/695/18	21 Feb 1995	Nil expiry	CCC	Relocatable Office at Pelton Colliery.
DA 8/2012/503/1	19 Dec 2012	Nil expiry	CCC	Extension of car parking area associated with Austar Coal Mine

It is noted that a number of closure execution activities required to deliver improved rehabilitation and mine closure outcomes are not currently provided for under the existing development consents or the Exempt Development provisions of the Resources SEPP. As a result, execution of these activities would require further development consent or modification of existing approvals. These activities include:

- Demolition or modification of any historic heritage item.
- Construction of borrow pits to source capping material.
- Importation of sufficient material for rehabilitation activities.
- Establishing post-mining surface water management features.
- Refinements to the final landform and post mining land uses.

Accordingly, Austar proposes to concurrently modify DA 29/95 and MP 08\_0111 to enable execution of rehabilitation and closure works and support optimal mine closure outcomes. Preparation of a modification report to support the SSD modification application is currently underway.

### 1.2.2. EPBC Approvals

The *Environment Protection and Biodiversity Conservation Act 1999* (the EPBC Act) is the Australian Government's central piece of environmental legislation. It provides a legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities, and heritage places which are defined in the EPBC Act as matters of national environmental significance.

Austar has no current EPBC Act approvals.

### 1.2.3. Heritage Act Approvals

The Heritage Act 1977 is the NSW legislative framework designed to protect and conserve items and places of environmental, cultural, and historical significance.

No items on the site are listed on the State Heritage register therefore no approvals are required under the Heritage Act.

#### 1.2.4. Mining Authorisations

The Mining Act 1992 prohibits the carrying out of prospecting or mining activities in NSW without the necessary authority. There are several types of authorities granted under this Act namely the Exploration Licence (EL), Consolidated Coal Lease (CCL), Assessment Lease (AL), Mining Purposes Lease (MPL) and Mining Lease (ML). Austar currently holds the following mining authorisations as summarised in **Table 4**.

**TABLE 4 - MINING AUTHORISATIONS HELD BY AUSTAR**

Mining Title (Act)	Date Granted	Expiry Date	Area (ha)	Surface	Depth Restriction
EL 6598 (1992)	13/07/2006	13/07/2027	7,370	Yes	Various
Dam Site Lease 89 (1901)	04/04/1908	04/04/2030	3.961	Yes	Surface to 15.24 metres
Mineral Lease No. 1157 (1906)	8/07/1949	08/07/2028	10.24	Yes	Surface to 15.24 metres
Mineral Lease No. 1283 (1906)	13/07/1961	13/07/2042	1.973	No (sub-surface)	7.62 to 15.24 metres
Mining Purposes Lease No. 23 (1906)	17/05/1909	17/05/2030	2.421	Yes	Surface to 15.24 metres
Mining Purposes Lease No. 204 (1906)	03/02/1916	03/02/2039	1.2	Yes	Surface to 15.24 metres
Mining Purposes Lease No. 217 (1906)	12/04/1916	03/02/2039	0.6298	Yes	Surface to 15.24 metres
Mining Purposes Lease No. 233 (1906)	01/08/1916	01/08/2036	1.973	Yes	Surface to 7.62 metres
Mining Purposes Lease No. 269 (1906)	07/12/1917	07/12/2039	2.79	Yes	Surface to 6.1 metres below the level of the rails when laid
Mining Purposes Lease No. 1364 (1906)	28/10/1968	28/10/2029	0.4527	Yes	Surface to 15.24 metres
Consolidated Coal Lease No. 728 (1973)	10/10/1989	30/12/2044	3296.8	Various	Various
Consolidated Coal Lease No. 752 (1973)	23/05/1990	30/12/2044	3802	No (Sub-surface)	Various
Consolidated Mining Lease No. 2 (1992)	24/03/1993	24/03/2041	ML -3406 ha AMA 1008 - 2.528 ha	Various	Various
Mining Lease No. 1345 (1992)	23/03/1995	30/12/2044	ML - 41.9 ha AMA 1014- 0.5659 ha	Yes	Surface to 900 metres depth
Mining Lease No. 1388 (1992)	02/04/1996	02/04/2038	15.12	No (sub-surface)	30.48 to unlimited depth
Mining Lease No. 1550 (1992)	24/06/2004	23/06/2046	14.11	Yes	Surface to 20 metres
Mining Lease No. 1661 (1992)	22/11/2011	22/11/2032	469.32	No (sub-surface)	20 to 900 metres
Mining Lease No. 1666 (1992)	25/01/2012	25/01/2033	34.13	No (sub-surface)	30.48 to 900 metres
Mining Lease No. 1677 (1992)	23/08/2012	22/08/2032	9.16	Yes	Surface to 30.48 metres
Mining Lease No. 1851 (1992)	16/05/2023	16/05/2044	115	Yes	Surface to 50m

### 1.2.5. Licences

#### Environment Protection Licence

Austar operates in accordance with Environment Protection Licence 416 (EPL 416), issued on 5 April 2000 by the NSW Environment Protection Authority (EPA), under the authority of the *Protection of the Environment Operations Act 1997* (POEO Act).

#### Water Licences

Austar holds water licences for monitoring and dewatering bores across the operation. Austar's current water licences issued under Part 5 of the Water Act 1912 or s87B of the Water Management Act 2000 are provided in **Table 5**.

**TABLE 5 - WATER LICENCES HELD BY AUSTAR**

Licence Held	Licence Number	Validity of Licence	Purpose of Licence	Extraction Limit
Bore Licence Certificate	20BL171361	17 May 2007 - Perpetuity	Monitoring Bore (AQD1077)	N/A
Bore Licence Certificate	20BL172524	20 July 2010 - Perpetuity	Monitoring Bore (NER1010)	N/A
Bore Licence Certificate	20BL172852	7 June 2011 - Perpetuity	Monitoring Bore (WBH1, WBH2, WBH3)	N/A
Bore Licence Certificate	20BL173843	1 Oct 2014 - Perpetuity	Monitoring Bore (BB1, BB2, BB3)	N/A
Bore Licence Certificate	20BL173878	8 Dec 2014 - Perpetuity	Monitoring Bore (MB01)	N/A
Bore Licence Certificate	20BL173891	19 Mar 2015 - Perpetuity	Monitoring Bore (MB02)	N/A
Water Access Licence / Associated Works	WAL19181 / 20AL210298*	Continuing	Unregulated River Water Licence	Hunter Unregulated and Alluvial Water Sources - Upper Wollombi Water Source - Congewai Creek Management Zone. 10 shares
Water Access Licence / Associated Works	WAL41504 / 20AL217003	Continuing	Aquifer - Industrial dewatering 16CT pump station No 2 Shaft No 2 Shaft Borehole	Sydney Basin – North Coast Groundwater Source. North Coast Fractured and Porous Rock Groundwater Sources 2016. Extraction limit of 770ML in any 12-month period commencing 1 July

### 1.2.6. Extraction Plan Approvals

The relevant Extraction Plan Approvals for Austar Coal Mine are summarised in **Table 6**.

**TABLE 6 - SUBSIDENCE MANAGEMENT PLAN / EXTRACTION PLAN APPROVALS HELD BY AUSTAR**

Description	Date	Expiry Date	Approval Authority	Approval Summary
Extraction Plan Approval	30 May 2013	31 Dec 2030	Department of Planning and Environment (DP&E) now Department of Planning, Industry and Environment (DPIE))	Extraction Plan approval for Austar Longwalls A7 to A10
SMP Approval 13/1876	3 June 2013	31 May 2020	Division of Resources and Energy (DRE)	Subsidence Management Plan approval for Austar Longwalls A7 to A10.
Extraction Plan Approval	6 Jan 2014	31 Dec 2030	DPIE	Extraction Plan approval for Austar Longwalls A7 to A10 to correspond to PA08_0111 MOD3 and retraction to LWA8 start position.
SMP Variation Approval 13/1876	7 Jan 2014	31 May 2020	DRE	Subsidence Management Plan approval for Austar Longwalls A7 to A10 to correspond to PA08_0111 MOD and retraction to LWA8 start position.
SMP Variation Approval 13/1876	19 Feb 2014	31 May 2020	DRE	Subsidence Management Plan approval for retraction to LWA9 commencing end
Extraction Plan LWB1 to LWB3	16 May 2016	Not specified	DPIE	Extraction Plan for Bellbird South Longwalls B1 to B3 was approved by DP&E on 4 July 2016
Extraction Plan LWB4 to LWB7	1 February 2019	Not specified	DPIE	Extraction Plan for Bellbird South Longwalls B4 to B7 approved by DP&E on 20 September 2017. Updated to include the shortening of LWB4 was approved by DP&E on 18 September 2018 and again on 12 February 2019. Other variations to Longwalls B5-B7 were approved by DP&E on 7 August 2019.

Underground mining at Austar has ceased, subsidence has been deemed complete in the above extraction plan areas, and minor repairs to built infrastructure have been completed. During closure execution, Austar will close out any remaining extraction plan requirements.

### 1.2.7. Applicable Guidelines

In addition to the regulatory requirements above, this RMP has been prepared with consideration of the following guidelines and standards:

- Form and way: Rehabilitation Management Plan for large mines (version 3, 2025);
- Form and way: Rehabilitation objectives, rehabilitation completion criteria and final landform and rehabilitation plan for large mines (version 3, 2024);
- Guideline: Rehabilitation risk assessment (version 1, 2021);
- Guideline: Rehabilitation objectives and rehabilitation completion criteria (version 5, 2025);
- Planning for Integrated Mine Closure Toolkit (ICMM, 2008);
- Mining Amendment (Standard Condition of Mining Leases – Rehabilitation) Regulation 2021;
- Strategic Framework for Mine Closure (ANZMEC 2000);

- Leading Practice Sustainable Development Program for the Mining Industry – Mine Closure and Completion, Mine Rehabilitation (Commonwealth Department of Industry, Tourism and Resources, 2016);
- Enduring Value (Mineral Council of Australia 2015);
- State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007 (Mining SEPP).

### 1.3. Land Ownership and Land Use

#### 1.3.1. Land Ownership

Land ownership, land use and vegetation communities at and surrounding Austar are shown on **Figure 2A to 2C**, with a schedule of lands provided in **Appendix A**.

Most land on which Austar operates surface facilities is owned by Austar with the exception of:

- No. 2 Shaft (CMA 2) located on Crown Land,
- Aberdare EEA (CMA 7) which is located on privately owned (non-Austar) and Crown Land; and
- Bellbird Areas 12 and 13 (CMA 8) are located on Crown Land.

The Stage 3 underground mining area is primarily located beneath private rural land holdings. The northern portion of the Stage 3 extraction area extends underneath the Werakata State Conservation Area (SCA) and sections of Crown Land, as well as an area of Austar owned land to the west of the approved Kitchener Surface Infrastructure Site (CMA 6). Land ownership above the Bellbird South longwall panels LWB1 to LWB7 is a mix of privately owned and Austar owned land.

A summary of land ownership by CMA is presented in **Table 7**.

**TABLE 7 - LAND OWNERSHIP BY CMA**

<b>CMA</b>	<b>Land Ownership</b>	<b>Adjacent land ownership</b>
1 – Austar Pit Top Facilities	Austar owned	Land surrounding CMA 1 is predominantly Austar owned, bounded by rural residential land.
2 – Pelton CHPP	Austar owned	Land surrounding CMA 2 is predominantly Austar owned, bounded by the suburbs of Bellbird and Pelton.
3 – No. 1 Shaft	Austar owned	No. 1 Shaft is in proximity to the village of Ellalong
4 – No. 2 Shaft	Crown Land	No. 2 Shaft is bounded by small farm holdings and Crown Land.
5 – Cessnock No. 1 Colliery / Kalingo Infrastructure Area	Austar owned	Land surrounding Kalingo Infrastructure Area is farmland and State Conservation Area.
6 – Kitchener SIS	Austar owned	Land surrounding Kitchener SIS is State Conservation Area.
7 – Aberdare EEA	Privately owned (non-Austar) and Crown Land	Aberdare EEA is bounded by residential lots, a subdivision under construction and Crown Land.
8 – Bellbird Areas 12 and 13	Crown Land	Crown Land and Bellbird residential areas
9 - Other	NSW Government, Crown Land, privately owned (non-Austar), and Austar owned.	NSW Government, Crown Land, Privately owned (non-Austar), and Austar owned.

### **1.3.2. Historic and Current Land Use**

Surrounding land uses include grazing, poultry production, state conservation area, residential and historic mining.

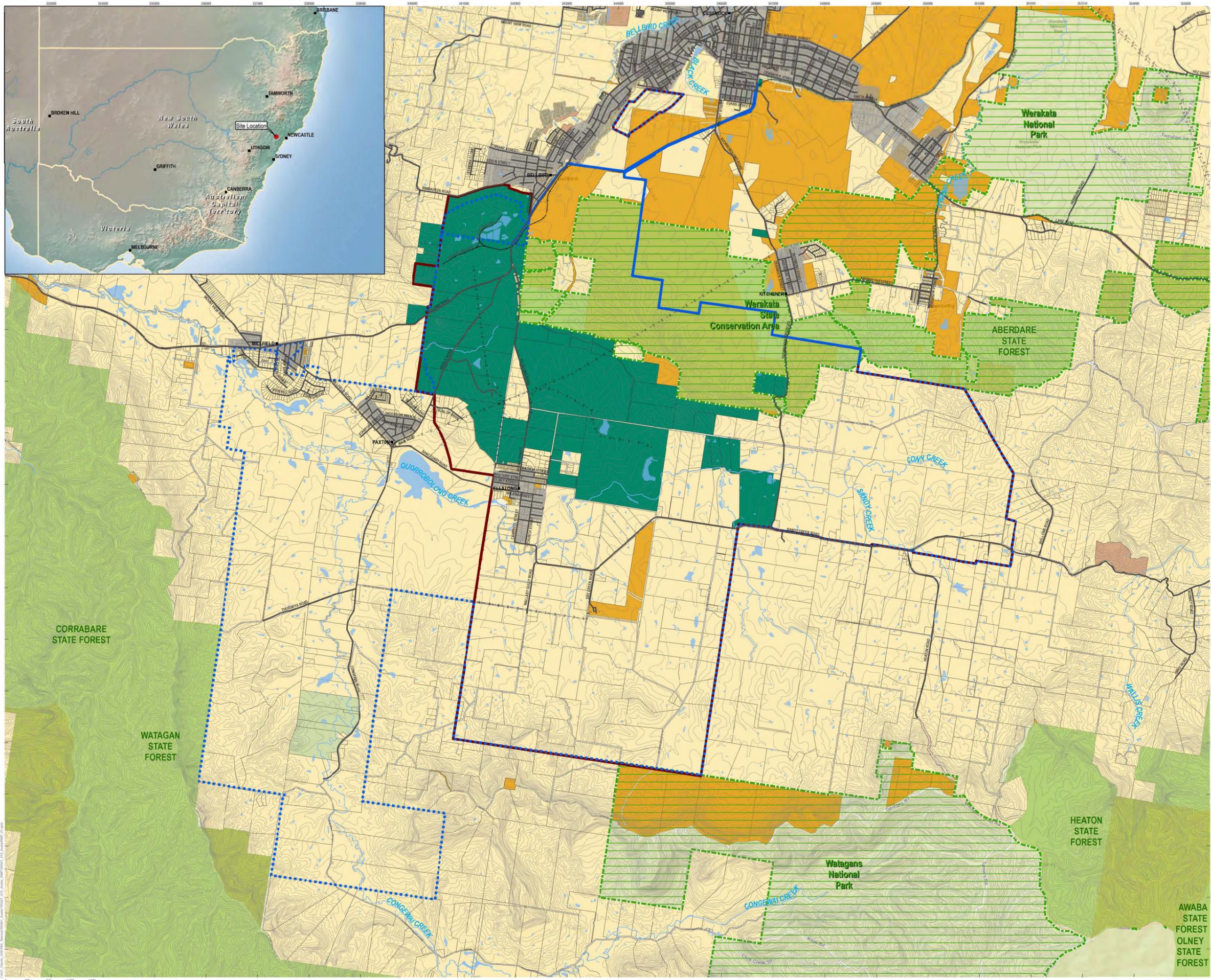
The villages of Kitchener, Abernethy, Bellbird, Paxton, Pelton and Ellalong are also located in proximity to Austar.

Austar Coal Mine was the last operating coal mine in the Cessnock area, and is bounded by many historic coal mine workings, including those on Austar owned land and within Austar mining leases, as well as others in the surrounding locale. Historically the area to the South and West of Cessnock has been used for grazing, mining, forestry and conservation.

### **1.3.3. Future Land Use**

The proposed final land use for areas disturbed by Austar mining activities is either a grassland or native woodland vegetation community, similar to that existing prior to mining, and consistent with those approved in Austar's various Development Consents and Project Approvals.

There are no current stewardship or conservation agreements in place for Austar Coal Mine.



**LEGEND**

- Project Approval Boundary
  - - - Colliery Holding Boundary
  - Contour - 10m
  - Road
  - - - Electricity Transmission Line
  - Railway
  - Major Waterways
  - Waterbody
  - Major Population Areas
- Reserves**
- State Forest
  - NPWS Reserves
- Land Ownership**
- Crown
  - Freehold
  - Local Government Authority
  - Unknown
  - Auster Owned Land

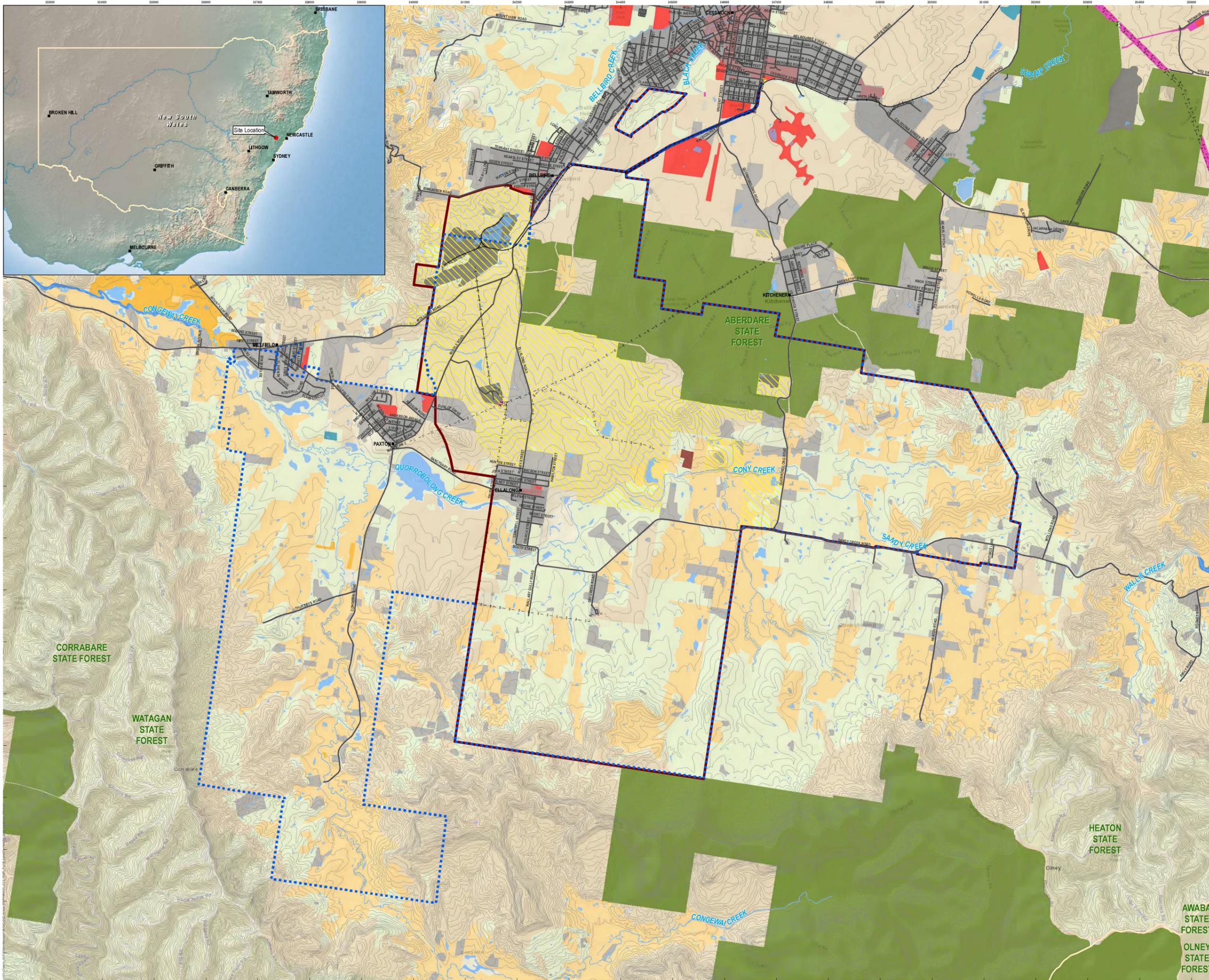
Note: Subject site within Cessnock City Council Local Government Area and the Hunter Catchment Area

**Auster Coal Mine**

**Land Ownership**

**FIGURE 2A**

Mine name	Auster Coal Mine
Plan name	Rehabilitation Management Plan
Year of anticipated relinquishment	TBD
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	17/10/2025



### LEGEND

- Project Approval Boundary
- Colliery Holding Boundary
- Austar Owned Land
- Road
- Railway
- Electricity Transmission Line
- Contour - 10m
- Major Waterways
- Waterbody
- Major Population Areas

### Land Use\*

- 1.1.0 Nature conservation
- 1.3.0 Other minimal use
- 2.1.0 Grazing native vegetation
- 3.2.0 Grazing modified pastures
- 3.6.0 Land in transition
- 4.2.0 Grazing irrigated modified pastures
- 5.4.0 Residential and farm infrastructure
- 5.5.0 Services
- 5.6.0 Utilities
- 5.7.0 Transport and communication
- 5.8.0 Mining
- 5.9.0 Waste treatment and disposal
- 6.2.0 Reservoir/dam
- 6.3.0 River

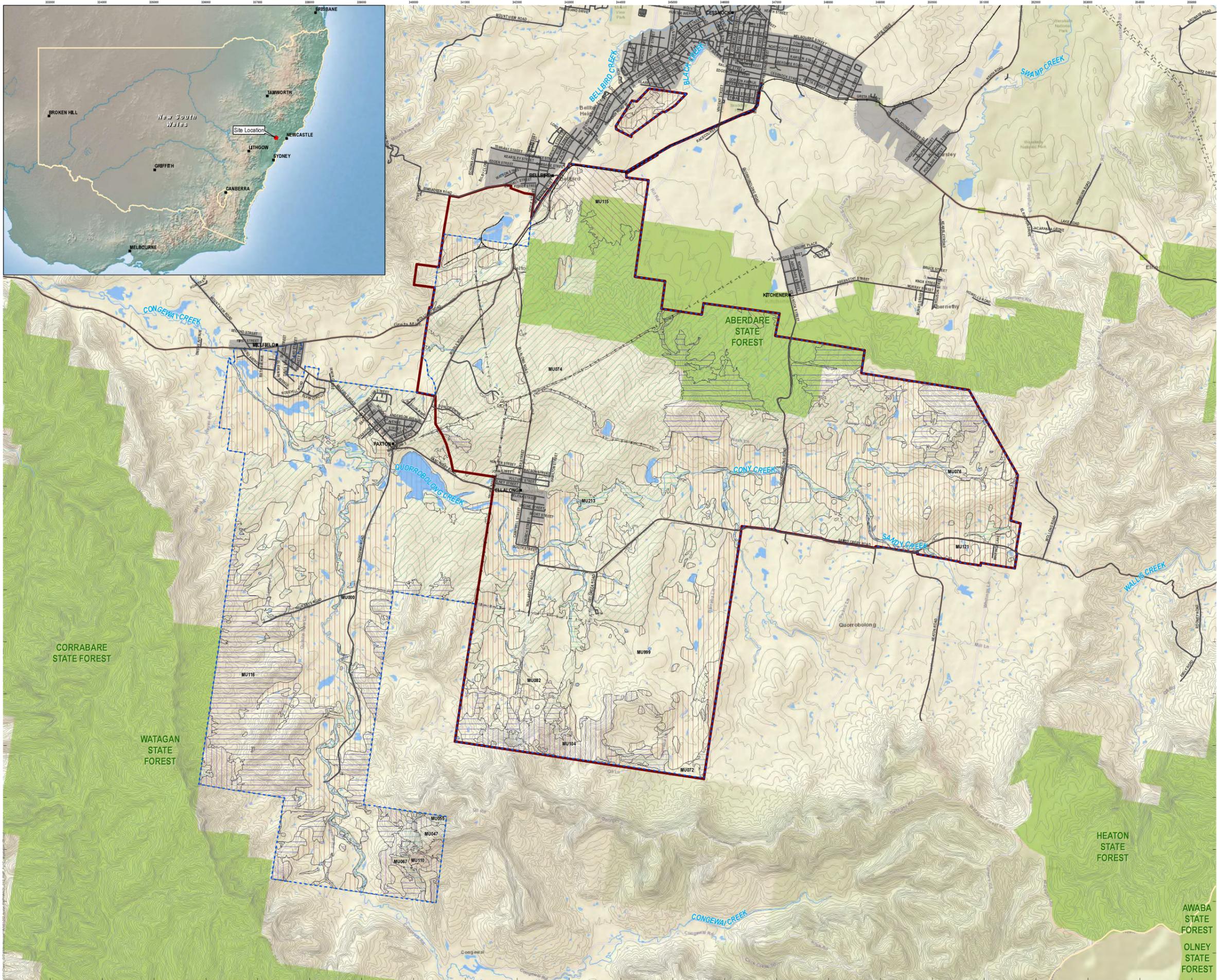
Note: Subject site within Cessnock City Council Local Government Area and the Hunter Catchment Area  
\*Landuse sourced from SEED (2017)

## Austar Coal Mine

### Land Use

#### FIGURE 2B

Mine name	Austar Coal Mine
Plan name	Rehabilitation Management Plan
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	XXXXXX
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	17/10/2025



**LEGEND**

- Project Approval
  - Colliery Holding Boundary
  - Road
  - Railway
  - Electricity Transmission Line
  - Contour - 10m
  - Major Waterways
  - Waterbody
  - Major Population
  - State Forest
- Vegetation**
- MU000 - Non Native Vegetation
  - MU047 - Turpentine/ Rough-barked Apple/ Forest Oak moist shrubby tall open forest of the Central Coast
  - MU054 - Grey Myrtle/ Mountain Blue Gum/ Rough-barked Apple ferny tall open forest in sandstone gullies of the Sydney Basin
  - MU055 - Sydney Blue Gum/ Lilly Pilly mesic tall open forest of coastal ranges and tablelands escarpment
  - MU067 - Grey Gum/ Grey Box shrub/ grass open forest on sandstone ranges of the Sydney Basin
  - MU072 - Spotted Gum/ Broad-leaved Mahogany/ Red Ironbark shrubby open forest
  - MU074 - Spotted Gum/ Red Ironbark/ Grey Gum shrub/ grass open forest of the lower Hunter
  - MU076 - Cabbage Gum/ +-Rough-barked Apple grassy woodland on alluvial floodplains of the lower Hunter
  - MU082 - Spotted Gum/ Red Ironbark/ Narrow-leaved Ironbark/ Grey Box shrub/grass open forest of the lower Hunter
  - MU104 - Grey Gum/ Smooth-barked Apple/ Blue-leaved Stringybark shrub/ grass open forest on coastal ranges of the Sydney Basin
  - MU110 - Turpentine/ Smooth-barked Apple/ Broad-leaved Mahogany shrubby open forest on sandstone ranges of the Central Coast
  - MU115 - Parramatta Red Gum/ Narrow-leaved Apple/ Prickly-leaved Paperbark shrubby woodland in the Cessnock-Kurri Kurri area
  - MU116 - Yellow Bloodwood/ Red Bloodwood/ Brown Stringybark shrub/ grass open forest in the Cessnock-Kurri Kurri area
  - MU121 - Scribbly Gum/ Sydney Peppermint/ Smooth-barked Apple healthy woodland on residual sands of the Quorrobolong area
  - MU213 - Swamp Oak/ Weeping Grass grassy riparian forest of the Hunter Valley

Note: Subject site within Cessnock City Council Local Government Area and the Hunter Catchment Area

**Austar Coal Mine**

**Vegetation**

**FIGURE 2C**

Mine name	Austar Coal Mine
Plan name	Rehabilitation Management Plan
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	XXXXXX
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	17/10/2025

## 2. FINAL LAND USE

### 2.1. Regulatory Requirements for Rehabilitation

**Table 8** provides a summary of regulatory requirements relevant to rehabilitation, closure and post-mining land use at Austar.

On 2 July 2021, the NSW Resources Regulator legislated the *Mining Amendment (Standard Conditions of Mining Leases—Rehabilitation) Regulation 2021* (the Amendment) under the *Mining Act 1992*. The Amendment introduced standard mining lease conditions that apply to rehabilitation, with clear, enforceable, and achievable requirements. These rehabilitation conditions now apply to all mining leases, replacing the previous rehabilitation and environmental management conditions.

As such, all previous rehabilitation requirements under Austar’s mining leases have been replaced by the standard mining lease conditions, along with any retained special conditions stipulated under the Amendment.

**TABLE 8 - REGULATORY REQUIREMENTS RELATING TO REHABILITATION**

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed												
Project Approval (PA 08_0111) Schedule 6, Condition 1	<p>The Proponent shall achieve the rehabilitation objectives in Table 6 to the satisfaction of the Executive Director, Mineral Resources.</p> <p>Table 6: Rehabilitation Objectives</p> <table border="1"> <thead> <tr> <th>Domain</th> <th>Rehabilitation Objective</th> </tr> </thead> <tbody> <tr> <td>Surface Infrastructure Site</td> <td> <ul style="list-style-type: none"> <li>Revegetate the cleared portion of the site with a structured native vegetation community similar to that existing pre-mining, or other landuse approved by the Director-General</li> </ul> </td> </tr> <tr> <td>Biodiversity offset area</td> <td> <ul style="list-style-type: none"> <li>Implement the offset strategy described in the EA and shown conceptually in Appendix 5</li> </ul> </td> </tr> <tr> <td>Land affected by the project (including watercourses and steep slopes)</td> <td> <ul style="list-style-type: none"> <li>Rehabilitate landform, landuse and ecosystem function to that existing pre-mining and consistent with the surrounding landform</li> <li>Reduce safety hazards to no more than those existing pre-mining</li> <li>Minimise erosion risk</li> </ul> </td> </tr> <tr> <td>Built features</td> <td> <ul style="list-style-type: none"> <li>Repair/restore/replace to pre-mining condition or better, unless a claim under the Mine Subsidence Compensation Act 1961 is made for the repairs, restoration or replacement</li> </ul> </td> </tr> <tr> <td>Community</td> <td> <ul style="list-style-type: none"> <li>Minimise the adverse socio-economic effects associated with mine closure</li> </ul> </td> </tr> </tbody> </table>	Domain	Rehabilitation Objective	Surface Infrastructure Site	<ul style="list-style-type: none"> <li>Revegetate the cleared portion of the site with a structured native vegetation community similar to that existing pre-mining, or other landuse approved by the Director-General</li> </ul>	Biodiversity offset area	<ul style="list-style-type: none"> <li>Implement the offset strategy described in the EA and shown conceptually in Appendix 5</li> </ul>	Land affected by the project (including watercourses and steep slopes)	<ul style="list-style-type: none"> <li>Rehabilitate landform, landuse and ecosystem function to that existing pre-mining and consistent with the surrounding landform</li> <li>Reduce safety hazards to no more than those existing pre-mining</li> <li>Minimise erosion risk</li> </ul>	Built features	<ul style="list-style-type: none"> <li>Repair/restore/replace to pre-mining condition or better, unless a claim under the Mine Subsidence Compensation Act 1961 is made for the repairs, restoration or replacement</li> </ul>	Community	<ul style="list-style-type: none"> <li>Minimise the adverse socio-economic effects associated with mine closure</li> </ul>	Stage 3 Mining Area (CMA 9), Kitchener SIS (CMA 6)	Section 4
Domain	Rehabilitation Objective														
Surface Infrastructure Site	<ul style="list-style-type: none"> <li>Revegetate the cleared portion of the site with a structured native vegetation community similar to that existing pre-mining, or other landuse approved by the Director-General</li> </ul>														
Biodiversity offset area	<ul style="list-style-type: none"> <li>Implement the offset strategy described in the EA and shown conceptually in Appendix 5</li> </ul>														
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Built features	<ul style="list-style-type: none"> <li>Repair/restore/replace to pre-mining condition or better, unless a claim under the Mine Subsidence Compensation Act 1961 is made for the repairs, restoration or replacement</li> </ul>														
Community	<ul style="list-style-type: none"> <li>Minimise the adverse socio-economic effects associated with mine closure</li> </ul>														
Project Approval (PA 08_0111) Schedule 6, Condition 2	To the extent that mining operations permit, the Proponent shall carry out rehabilitation progressively, that is, as soon as reasonably practicable following the disturbance.	Stage 3 Mining Area, (CMA 9), Kitchener SIS (CMA 6)	Section 6												
Project Approval (PA 08_0111) Schedule 6, Condition 4	The Proponent shall prepare and implement a Landscape Management Plan for the project to the satisfaction of the Director-General and the Executive Director, Mineral Resources. This plan must: (a) be prepared in consultation with the relevant stakeholders by suitably qualified expert/s whose appointment/s have been endorsed by the Director-General, and be submitted to the Director-General for approval prior to the commencement of second workings in Stage 3 and construction of the Surface Infrastructure Site (other than shaft construction referred to in	Stage 3 Kitchener SIS (CMA 6).	N/A Landscape Management Plan has been prepared, approved and implemented for the Kitchener SIS.												

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed				
	condition 1 of schedule 4); (b) in addition to the standard requirements for management plans (see condition 2 of schedule 7), include: (i) the rehabilitation objectives for the site and offset area; (ii) a description of the short, medium, and long term measures that would be implemented to: <ul style="list-style-type: none"> <li>• rehabilitate the site;</li> <li>• implement the offset strategy; and</li> <li>• manage the remnant vegetation and habitat on the site and in the offset area;</li> </ul> (i) performance and completion criteria for the rehabilitation of the site and implementation of the offset strategy; (ii) a detailed description of the measures would be implemented over the next 3 years, including the procedures to be implemented for: <ul style="list-style-type: none"> <li>• minimising and rehabilitating disturbed areas;</li> <li>• implementing the offset strategy;</li> <li>• protecting vegetation and soil outside the disturbance areas;</li> <li>• undertaking pre-clearance surveys;</li> <li>• managing impacts on fauna;</li> <li>• landscaping the site to minimise visual impacts;</li> <li>• conserving and reusing topsoil;</li> <li>• collecting and propagating seed for rehabilitation works;</li> <li>• salvaging and reusing material from the site for habitat enhancement;</li> <li>• controlling weeds and feral pests;</li> <li>• controlling access; and</li> <li>• bushfire management.</li> </ul>		Completion criteria for the Kitchener SIS are included in Section 4 of this RMP and rehabilitation methodologies have been included as relevant in Section 6.				
Project Approval (PA 08_0111) Commitment 1.14.1	A decommissioning plan will be prepared for the Surface Infrastructure Site as part of the MOP process and submitted to the DRE for approval approximately five years prior to the commencement of decommissioning works.	CMA 6 Kitchener SIS (CMA 6)	Section 6.2.2				
DA 29/95 Schedule 3 Condition 28	The Applicant must rehabilitate the site to the satisfaction of DRG. This rehabilitation must be generally consistent with the proposed rehabilitation strategy described in the documents listed in Schedule 2, Condition 2, and comply with the objectives in Table 6.  Table 6: Rehabilitation Objectives <table border="1"> <thead> <tr> <th>Feature</th> <th>Objective</th> </tr> </thead> <tbody> <tr> <td>               All areas affected by the development             </td> <td> <ul style="list-style-type: none"> <li>• Safe</li> <li>• Hydraulically and geotechnically stable</li> <li>• Non-polluting</li> <li>• Fit for the intended post-mining land use(s)</li> </ul> </td> </tr> </tbody> </table>	Feature	Objective	All areas affected by the development	<ul style="list-style-type: none"> <li>• Safe</li> <li>• Hydraulically and geotechnically stable</li> <li>• Non-polluting</li> <li>• Fit for the intended post-mining land use(s)</li> </ul>	Bellbird South Mining Area (CMA 9) DA29/95 Reject Emplacement Areas (CMA 2, 7) and DA29/95 Infrastructure Areas (CMA 1, 2, 3, 4, 5)	Section 4
Feature	Objective						
All areas affected by the development	<ul style="list-style-type: none"> <li>• Safe</li> <li>• Hydraulically and geotechnically stable</li> <li>• Non-polluting</li> <li>• Fit for the intended post-mining land use(s)</li> </ul>						

Source	Detail of Regulatory Requirement		Area of Relevance	Section Addressed
	Areas proposed for native ecosystem re-establishment	<ul style="list-style-type: none"> <li>Establish self-sustaining ecosystems comprising flora species selected to re-establish and complement local and regional biodiversity</li> </ul>		
	Areas proposed for agricultural or pastoral use	<ul style="list-style-type: none"> <li>Nominated land capability classification is achieved and is self-sustaining</li> </ul>		
	Other areas affected by the development	<ul style="list-style-type: none"> <li>Restore ecosystem function, including maintaining or establishing self-sustaining ecosystems comprised of local native plant species appropriate for the intended post mining land use(s) (unless DRG agrees otherwise)</li> </ul>		
	Surface Infrastructure of the development	<ul style="list-style-type: none"> <li>To be decommissioned and removed, unless DRG agree otherwise or development consent is obtained from the relevant consent authority for their retention and post-mining use</li> </ul>		
	Portals and vent shafts of the development	<ul style="list-style-type: none"> <li>To be decommissioned and made safe and stable</li> </ul>		
	Built features damaged by mining operations	<ul style="list-style-type: none"> <li>Repair/restore/replace to pre-mining condition or equivalent unless the:</li> <li>owner agrees otherwise; or</li> <li>damage is fully restored, repaired or compensated for under the Mine Subsidence Compensation Act 1961</li> </ul>		
	Final Landforms	<ul style="list-style-type: none"> <li>Consistent with surrounding topography to minimise visual impacts</li> <li>Incorporate relief patterns and design principles consistent with natural drainage</li> </ul>		
	All watercourses subject to mine-water discharges and/or subsidence impacts from the development	<ul style="list-style-type: none"> <li>Hydraulically and geomorphologically stable</li> <li>Aquatic ecology and riparian vegetation that is the same or better than prior to mining</li> </ul>		
	Water Quality	<ul style="list-style-type: none"> <li>Surface water retained onsite is fit for the intended post mining land use(s)</li> </ul>		
	Cliffs, minor cliffs and steep slopes	<ul style="list-style-type: none"> <li>No additional risk to public safety compared to prior to mining</li> </ul>		

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed		
	<table border="1"> <tr> <td>Community</td> <td> <ul style="list-style-type: none"> <li>Ensure public safety</li> <li>Minimise adverse socio-economic effects associated with mine closure</li> </ul> </td> </tr> </table> <p><i>Note: These rehabilitation objectives apply to all subsidence impacts and environmental consequences caused by the development and to all surface infrastructure components of the development. Where remediation of watercourses is likely to cause environmental consequences greater than those that require rehabilitation, alternative equivalent works may be undertaken within the affected watercourse.</i></p>	Community	<ul style="list-style-type: none"> <li>Ensure public safety</li> <li>Minimise adverse socio-economic effects associated with mine closure</li> </ul>		
Community	<ul style="list-style-type: none"> <li>Ensure public safety</li> <li>Minimise adverse socio-economic effects associated with mine closure</li> </ul>				
DA 29/95 Schedule 3 Condition 29	<p>The Applicant must rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance, to the satisfaction of DRG. All reasonable steps must be taken to minimise the total area exposed at any time. Interim stabilisation and temporary vegetation strategies must be employed when areas prone to dust generation, soil erosion and weed incursion cannot be permanently rehabilitated.</p> <p><i>Note: It is accepted that some parts of the site that are progressively rehabilitated may be subject to further disturbance at some later stage of the development.</i></p>	Bellbird South Mining Area (CMA 9) DA29/95 Reject Emplacement Areas (CMA 2, 7) and DA29/95 Infrastructure Areas (CMA 1, 2, 3, 4, 5)	Section 6		
Development Consent (DA 118/691/181) Condition 9	All rehabilitated areas will be maintained until such time as the surface has developed a density of vegetative cover that minimises surface erosion to the satisfaction of Council. In this regard, a report from the Soil Conservation Service shall be lodged.	Pelton Colliery (CMA 2)	Section 6.2.5		
DA 118/695/22 Consent Condition for Establishment of Overburden Stockpile on Part Lot 1 DP 69968 Main Road 218, Pelton	Once the stockpile is removed its area will be rehabilitated in accordance with the requirements of the Department of Mineral Resources and the provisions of the Statement of Environmental Effects approved for the Pelton Open Cut Mine.	Pelton Colliery Open Cut – Overburden Stockpile (CMA 2)	Section 6		
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 1 - Protection of the environment and rehabilitation: No.4	<p><b>Must prevent or minimise harm to environment</b></p> <p>(1) The holder of a mining lease must take all reasonable measures to prevent, or if that is not reasonably practicable, to minimise, harm to the environment caused by activities under the mining lease.</p> <p>(2) In this clause-- "harm" to the environment has the same meaning as in the Protection of the Environment Operations Act 1997.</p>	Whole Site	Section 6		
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2.	<p><b>Rehabilitation to occur as soon as reasonably practicable after disturbance</b></p> <p>The holder of a mining lease must rehabilitate land and water in the mining area that is disturbed by activities under the mining lease as soon as reasonably practicable after the disturbance occurs.</p>	Whole Site	Section 6		

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed
Division 1 - Protection of the environment and rehabilitation: No.5			
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 1 - Protection of the environment and rehabilitation: No.6	<p><b>Rehabilitation must achieve final land use</b></p> <p>(1) The holder of a mining lease must ensure that rehabilitation of the mining area achieves the final land use for the mining area.</p> <p>(2) The holder of the mining lease must ensure any planning approval has been obtained that is necessary to enable the holder to comply with subclause (1).</p> <p>(3) The holder of the mining lease must identify and record any reasonably foreseeable hazard that presents a risk to the holder's ability to comply with subclause (1).</p> <p>Note--: Clause 7 requires a rehabilitation risk assessment to be conducted whenever a hazard is identified under this subclause.</p> <p>(4) In this clause-- "final land use" for the mining area means the final landform and land uses to be achieved for the mining area--</p> <p>(a) as set out in the rehabilitation objectives statement and rehabilitation completion criteria statement, and</p> <p>(b) for a large mine--as spatially depicted in the final landform and rehabilitation plan, and</p> <p>(c) if the final land use for the mining area is required by a condition of development consent for activities under the mining lease--as stated in the condition.</p> <p>"planning approval" means--</p> <p>(a) a development consent within the meaning of the Environmental Planning and Assessment Act 1979 , or</p> <p>(b) an approval under that Act, Division 5.1.</p>	Whole Site	Section 2
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 2 – Risk Assessment: No.7	<p><b>Rehabilitation risk assessment</b></p> <p>(1) The holder of a mining lease must conduct a risk assessment (a "rehabilitation risk assessment" ) that--</p> <p>(a) identifies, assesses and evaluates the risks that need to be addressed to achieve the following in relation to the mining lease--</p> <p>(i) the rehabilitation objectives,</p> <p>(ii) the rehabilitation completion criteria, (iii) for large mines--the final land use as spatially depicted in the final landform and rehabilitation plan, and</p> <p>(b) identifies the measures that need to be implemented to eliminate, minimise or mitigate the risks.</p> <p>(2) The holder of the mining lease must implement the measures identified.</p> <p>(3) The holder of a mining lease must conduct a rehabilitation risk assessment--</p> <p>(a) for a large mine--before preparing a rehabilitation management plan, and</p> <p>(b) for a small mine--before preparing the rehabilitation outcome documents for the mine, and</p> <p>(c) whenever a hazard is identified under clause 6(3)--as soon as reasonably practicable after it</p>	Whole Site	Section 3

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed
	is identified, and (d) whenever given a written direction to do so by the Secretary.		
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 3 – Rehabilitation Documents: No.8	<b>Application of Division</b> This Division does not apply to a mining lease unless-- (a) the security deposit required under the mining lease is greater than the minimum deposit prescribed under the Act, section 261BF in relation to that type of mining lease, or (b) the Secretary gives a written direction to the holder of the mining lease that this Division, or a provision of this Division, applies to the mining lease.	Whole Site	Section 2.1
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 3 – Rehabilitation Documents: No. 9	<b>General requirements for documents</b> A document required to be prepared under this Division must-- (a) be in a form approved by the Secretary, and Note--: The approved forms are available on the Department's website. (b) include any matter required to be included by the form, and (c) if required to be given to the Secretary--be given in a way approved by the Secretary.	Whole Site	This document
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 3 – Rehabilitation Documents: No. 10	<b>Rehabilitation management plans for large mines</b> (1) The holder of a mining lease relating to a large mine must prepare a plan (a "rehabilitation management plan" ) for the mining lease that includes the following-- (a) a description of how the holder proposes to manage all aspects of the rehabilitation of the mining area, (b) a description of the steps and actions the holder proposes to take to comply with the conditions of the mining lease that relate to rehabilitation, (c) a summary of rehabilitation risk assessments conducted by the holder, (d) the risk control measures identified in the rehabilitation risk assessments, (e) the rehabilitation outcome documents for the mining lease, (f) a statement of the performance outcomes for the matters addressed by the rehabilitation outcome documents and the ways in which those outcomes are to be measured and monitored. (2) If a rehabilitation outcome document has not been approved by the Secretary, the holder of the mining lease must include a proposed version of the document. (3) A rehabilitation management plan is not required to be given to the Secretary for approval. (4) The holder of the mining lease-- (a) must implement the matters set out in the rehabilitation management plan, and (b) if the forward program specifies timeframes for the implementation of the matters--must implement the matters within those timeframes.	Whole Site	This document
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2.	<b>Amendment of rehabilitation management plans</b> The holder of a mining lease must amend the rehabilitation management plan for the mining lease as follows-- (a) to substitute the proposed version of a rehabilitation outcome document with the version	Whole Site	Section 11.1

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed
Division 3 – Rehabilitation Documents: No. 11	approved by the Secretary--within 30 days after the document is approved, (b) as a consequence of an amendment made under clause 14 to a rehabilitation outcome document--within 30 days after the amendment is made, (c) to reflect any changes to the risk control measures in the prepared plan that are identified in a rehabilitation risk assessment--as soon as practicable after the rehabilitation risk assessment is conducted, (d) whenever given a written direction to do so by the Secretary--in accordance with the direction.		
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 3 – Rehabilitation Documents: No. 12	<b>Rehabilitation outcome documents</b> (1) The holder of a mining lease must prepare the following documents (the "rehabilitation outcome documents" ) for the mining lease and give them to the Secretary for approval-- (a) the "rehabilitation objectives statement" , which sets out the rehabilitation objectives required to achieve the final land use for the mining area, (b) the "rehabilitation completion criteria statement" , which sets out criteria, the completion of which will demonstrate the achievement of the rehabilitation objectives, (c) for a large mine, the "final landform and rehabilitation plan" , showing a spatial depiction of the final land use. (2) If the final land use for the mining area is required by a condition of development consent for activities under the mining lease, the holder of the mining lease must ensure the rehabilitation outcome documents are consistent with that condition.	Whole Site	Section 4 FLRP (Section 5)
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 3 – Rehabilitation Documents: No. 13	<b>Forward program and annual rehabilitation report</b> (1) The holder of a mining lease must prepare a program (a "forward program" ) for the mining lease that includes the following-- (a) a schedule of mining activities for the mining area for the next 3 years, (b) a summary of the spatial progression of rehabilitation through its various phases for the next 3 years, (c) a requirement that the rehabilitation of land and water disturbed by mining activities under the mining lease must occur as soon as reasonably practicable after the disturbance occurs. (2) The holder of a mining lease must prepare a report (an "annual rehabilitation report" ) for the mining lease that includes-- (a) a description of the rehabilitation undertaken over the annual reporting period, (b) a report demonstrating the progress made through the phases of rehabilitation provided for in the forward program applying to the reporting period, (c) a report demonstrating progress made towards the achievement of the following-- (i) the objectives set out in the rehabilitation objectives statement, (ii) the criteria set out in the rehabilitation completion criteria statement, (iii) for large mines--the final land use as spatially depicted in the final landform and rehabilitation plan. (3) If a rehabilitation outcome document has not been approved by the Secretary, the holder of	Whole Site	Addressed in the ARFP

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed
	<p>the mining lease must rely on a proposed version of the document.</p> <p>(4) The holder of the mining lease must give the forward program and annual rehabilitation report to the Secretary.</p> <p>(5) In this clause-- "annual reporting period" means each period of 12 months commencing on--</p> <p>(a) the date on which the mining lease is granted, or</p> <p>(b) if the Secretary approves another date in relation to the mining lease--the other date.</p>		
<p>Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 3 – Rehabilitation Documents: No. 14</p>	<p><b>Amendment of rehabilitation outcome documents and forward program</b></p> <p>(1) This clause applies to--</p> <p>(a) a rehabilitation outcome document if it has been approved by the Secretary, and</p> <p>(b) a forward program if it has been given to the Secretary.</p> <p>(2) The holder of a mining lease must not amend a document to which this clause applies that relates to the mining lease unless--</p> <p>(a) the Secretary gives the holder a written direction to do so, or</p> <p>(b) the Secretary, on written application by the holder, gives a written approval of the amendment.</p> <p>(3) The holder of the mining lease must amend the document in accordance with the Secretary's direction or approval.</p> <p>(4) Nothing in this clause prevents the holder of a mining lease preparing a draft amendment for submission to the Secretary for approval.</p>	<p>Whole Site</p>	<p>Section 11.1</p>
<p>Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 3 – Rehabilitation Documents: No. 15</p>	<p><b>Times at which documents must be prepared and given</b></p> <p>(1) The holder of a mining lease must do the following before the end of the initial period--</p> <p>(a) prepare a rehabilitation management plan, and</p> <p>(b) prepare rehabilitation outcome documents and give them, other than the rehabilitation completion criteria statement, to the Secretary for approval, and</p> <p>(c) prepare a forward program and give it to the Secretary.</p> <p>(2) The holder of the mining lease must prepare a forward program and annual rehabilitation report and give them to the Secretary before--</p> <p>(a) 60 days after the last day of each annual reporting period, commencing with the annual reporting period in which the forward program was given to Secretary under subclause (1)(c), or</p> <p>(b) a later date approved by the Secretary.</p> <p>(3) A rehabilitation completion criteria statement relating to completion of rehabilitation during a period covered by a forward program must be given to the Secretary for approval when the forward program is required to be given to the Secretary.</p> <p>(4) The holder of the mining lease must prepare updated rehabilitation outcome documents for the mining lease and give them to the Secretary for approval before--</p> <p>(a) 60 days after a development consent is modified following an application referred to in clause 20(1)(b), or</p> <p>(b) a later date approved by the Secretary.</p>	<p>Whole Site</p>	<p>Noted</p>

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed
	<p>(5) A rehabilitation completion criteria statement is not required to be given to the Secretary under subclause (4) unless a rehabilitation completion criteria statement has already been given to the Secretary under subclause (3).</p> <p>(6) The Secretary may, by written notice, direct the holder of a mining lease to prepare, or give to the Secretary, a document required to be prepared under this Division at a time other than that specified in this clause.</p> <p>(7) The holder of the mining lease must comply with the direction.</p> <p>(8) In this clause-- "initial period" means the period commencing when the mining lease is granted and ending--</p> <p>(a) 30 days, or other period approved by the Secretary, after this Division first applies to the mining lease, or</p> <p>(b) if this Division applies to the mining lease because of an increase in the required security deposit--</p> <p>(i) when the surface of the mining area is disturbed by activities under the mining lease, or</p> <p>(ii) at a later date approved by the Secretary.</p>		
<p>Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 3 – Rehabilitation Documents: No. 16</p>	<p><b>Certain documents to be publicly available</b></p> <p>(1) This clause applies to the following documents--</p> <p>(a) a rehabilitation management plan,</p> <p>(b) a forward program,</p> <p>(c) an annual rehabilitation report.</p> <p>(2) The holder of a mining lease must make a document to which this clause applies publicly available by--</p> <p>(a) publishing it on its website in a prominent position, or</p> <p>(b) if the holder does not have a website-- providing a copy of it to a person--</p> <p>(i) on the written request of a person, and</p> <p>(ii) without charge, and</p> <p>(iii) within 14 days after the request is received.</p> <p>(3) If a document is published on the website of the holder of the mining lease, the holder must ensure that it is published--</p> <p>(a) for a rehabilitation management plan--within 14 days after it is prepared or amended, or</p> <p>(b) for a forward program or an annual rehabilitation report--within 14 days after it is given to the Secretary or amended,</p> <p>(4) Personal information within the meaning of the Privacy and Personal Information Protection Act 1998 is not required to be included in a document made available to a person under this clause.</p>	<p>Whole Site</p>	<p>Austar website</p>
<p>Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2.</p>	<p><b>Records demonstrating compliance</b></p> <p>The holder of a mining lease must create and maintain records of all actions taken that demonstrate compliance with each of the conditions set out in this Part.</p>	<p>Whole Site</p>	<p>Noted</p>

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed
Division 4 - Records, Reporting and Notification: No. 17	Note--: The Act, sections 163D and 163E provide for the form in which records must be kept and the period for which they must be retained.		
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 4 - Records, Reporting and Notification: No. 18	<p><b>Report on non-compliance</b></p> <p>(1) The holder of a mining lease must provide the Minister with a written report detailing any non-compliance with--</p> <p>(a) a condition of the mining lease, or</p> <p>Note--: The Act, section 364A contains provisions relating to the use and disclosure of information provided under this condition.</p> <p>(b) a requirement of the Act or this Regulation relating to activities under the mining lease.</p> <p>(2) The holder of the mining lease must provide the report within 7 days after becoming aware of the non-compliance.</p> <p>(3) The holder of the mining lease must ensure the report--</p> <p>(a) identifies the condition of the mining lease, or the requirement of the Act or this Regulation, to which the non-compliance relates, and</p> <p>(b) describes the non-compliance and specifies the date or dates on which, or the period during which, the non-compliance occurred, and</p> <p>(c) describes the causes or likely causes of the non-compliance, and</p> <p>(d) describes the action that has been taken, or will be taken, to mitigate the effects, and to prevent any recurrence, of the non-compliance.</p>	Whole Site	Noted
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 4 - Records, Reporting and Notification: No. 19	<p><b>Nominated contact person</b></p> <p>(1) The holder of a mining lease must nominate a natural person to be the contact person with whom the Secretary can communicate in relation to the mining lease for the purposes of the Act.</p> <p>Note--: The Act, section 383 sets out the ways in which notices or other documents may be issued or given to, or served on, a person for the purposes of the Act.</p> <p>(2) The holder of the mining lease must give written notice to the Secretary of--</p> <p>(a) the full name and contact details of the nominated person--within 28 days after the date on which the standard conditions apply to the mining lease under clause 31A of this Regulation, and</p> <p>(b) any change in nomination or in the nominated person's contact details--within 28 days after the change occurs.</p> <p>(3) The holder of the mining lease must ensure that the contact details for the nominated person include the person's phone number and postal and email addresses.</p>	Whole Site	Noted
Standard Conditions under Mining Regulation 2016, Schedule 8A, Part 2. Division 5 – Applications	<p><b>Additional requirements--application for or to modify development consent</b></p> <p>(1) The holder of a mining lease must give written notice to the Secretary within 10 days after--</p> <p>(a) making an application for development consent that relates to the mining area, or</p> <p>(b) making an application for modification of a development consent--</p> <p>(i) under the Environmental Planning and Assessment Act 1979 , section 4.55(2), and</p>	Whole Site	Noted

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed
relating to development consent: No. 20	(ii) that proposes to modify a condition of the consent that relates to rehabilitation of the mining area in a way that may affect an obligation under the mining lease relating to rehabilitation of the mining area. (2) This clause does not apply if the development is State significant development.		
State Environmental Planning Policy (Resources and Energy) 2021 Clause 2.13 Exempt Development	(3) Development for any of the following purposes is exempt development if it is of minimal environmental impact and is on land that is the site of an approved mine, an approved petroleum production facility or an approved extractive industry— (c) the demolition of a building or structure that is carried out in accordance with Australian Standard AS 2601—2001, The demolition of structures, but only if the building or structure is not, or is not part of, a heritage item, or in a heritage conservation area, identified by an environmental planning instrument, Note— Under section 4.1 of the Act, exempt development may be carried out without the need for development consent under Part 4 of the Act or for assessment under Part 5 of the Act. The section states that exempt development— (a) must be of minimal environmental impact, and (b) cannot be carried out in critical habitat of an endangered species, population or ecological community (identified under the Threatened Species Conservation Act 1995 or the Fisheries Management Act 1994), and (c) cannot be carried out in a wilderness area (identified under the Wilderness Act 1987).	Whole Site	Section 6.2.2
Cessnock Local Environmental Plan (LEP) 2011 Clause 5.10 Heritage Conservation	(2) Requirement for consent Development consent is required for any of the following-- (a) demolishing or moving any of the following or altering the exterior of any of the following (including, in the case of a building, making changes to its detail, fabric, finish or appearance)-- (i) a heritage item, (ii) an Aboriginal object, (iii) a building, work, relic or tree within a heritage conservation area, (3) When consent not required However, development consent under this clause is not required if-- (a) the applicant has notified the consent authority of the proposed development and the consent authority has advised the applicant in writing before any work is carried out that it is satisfied that the proposed development-- (i) is of a minor nature or is for the maintenance of the heritage item, Aboriginal object, Aboriginal place of heritage significance or archaeological site or a building, work, relic, tree or place within the heritage conservation area, and (ii) would not adversely affect the heritage significance of the heritage item, Aboriginal object, Aboriginal place, archaeological site or heritage conservation area, or (b) the development is in a cemetery or burial ground and the proposed development-- (i) is the creation of a new grave or monument, or excavation or disturbance of land for the purpose of conserving or repairing monuments or grave markers, and	Areas of CMA 2, CMA 5, CMA 7, CMA 8 within the curtilage of <i>The Collieries of the South Maitland Coalfields/Greta Coal Measures, Item ID 1215</i> and <i>The South Maitland Railway System, Item ID 1212.</i>	Section 6.2.1.13

Source	Detail of Regulatory Requirement	Area of Relevance	Section Addressed
	(ii) would not cause disturbance to human remains, relics, Aboriginal objects in the form of grave goods, or to an Aboriginal place of heritage significance, or (c) the development is limited to the removal of a tree or other vegetation that the Council is satisfied is a risk to human life or property, or (d) the development is exempt development.		

## 2.2. Final Land Use Options Assessment

During PFS, Austar completed studies and options assessments to consider appropriate, feasible and optimum final land use options. The Final Land Use Options Assessment considered potential alternative beneficial post-mining land use options for the various sites with consideration to:

- Population and property context including:
  - Historic and future population growth for the LGA;
  - Socio-demographic profile;
  - Existing and proposed infrastructure mapping;
  - Proposed developments in the area.
- Planning context including:
  - Current land use zoning;
  - Constraints mapping; and
  - Strategic planning context.

The Final Land Use Options Assessment indicated strong potential for residential land sales and renewable energy land use and moderate potential for recreational camp land use. Based on further financial assessment and analysis, Austar considers that commercial renewable energy options are not financially viable, and these are not being pursued as final land use options.

The go-forward final land uses will be grassland and native vegetation in accordance with existing project approval obligations. Notwithstanding this, the rehabilitated final landform objective is to be safe, stable and non-polluting and will not hinder or impede potential alternative land uses pursued in the future, subject to appropriate development consent and approvals pathways.

## 2.3. Final Land Use Statement

The primary goal for mine closure at Austar is to rehabilitate the site to:

- Achieve safe, stable landforms with beneficial post mining land uses; and
- Satisfy all regulatory requirements under development consents, mining leases and licences.

The proposed final land uses presented in this RMP are consistent with those approved within Austar’s various development consents and have been determined through the environmental assessment process associated with PA 08\_0111 and DA 29/95.

For the purpose of this RMP, the proposed final land uses for each CMA are presented in **Table 9**.

**TABLE 9 - FINAL LAND USE STATEMENT BY CMA**

CMA	Proposed Final Land Use
1 – Austar Pit Top Facilities	Generally, CMA 1 will be revegetated with grassland species to create a managed grassland suitable for small rural acreage. The Austar Dam and effluent dam, overland conveyor corridor, tracks and pipeline corridors will be revegetated to comprise native vegetation communities which are commensurate with surrounding land uses or maintained for bushfire management.
2 – Pelton CHPP	CMA 2 will be revegetated to comprise native vegetation or grassland communities which are commensurate with surrounding land uses.

CMA	Proposed Final Land Use
3 – No. 1 Shaft	CMA 3 will be revegetated to comprise native vegetation communities which are commensurate with surrounding land uses.
4 – No. 2 Shaft	CMA 4 will be revegetated to comprise native vegetation communities which are commensurate with surrounding land uses.
5 – Cessnock No. 1 Colliery / Kalingo Infrastructure Area	CMA 5 will be revegetated to comprise native vegetation communities which are commensurate with surrounding land uses. Tracks and pipeline corridors will be revegetated to comprise native vegetation communities which are commensurate with surrounding land uses, or maintained for bushfire management.
6 – Kitchener SIS	In accordance with Schedule 6 Condition 1 of PA 08_0111 the cleared portion of the Kitchener SIS will be revegetated to a structured native vegetation community similar to that existing pre-mining. Austar proposes to establish native bushland (forest) at the Kitchener SIS.
7 – Aberdare EEA	CMA 7 is mainly privately owned land which is zoned for rural land use. Austar has committed to returning an open grassland area to the landholder. The final land use for that area will be at the landowner’s discretion within that land zoning.
8 – Bellbird Areas 12 and 13	Bellbird Areas 12 and 13 have been substantially rehabilitated to a grassland final land use.
9 - Other	All lands above Austar’s underground workings impacted by the project will be rehabilitated to restore the pre-mining land use.

## 2.4. Final Land Use and Mining Domains

Final land use and mining domains to be considered in the preparation of this RMP are specified in the *Form and Way: Rehabilitation Management Plan (large mines)* (RR, 2025a) and are summarised in **Table 10**. The domains highlighted in grey are not applicable to this RMP but have been included in this table for context.

**TABLE 10 - SUMMARY OF FINAL LAND USE AND MINING DOMAINS SPECIFIED IN THE RMP FORM AND WAY**

Final Land Use Domain	Code	Mining Domain	Code
Native Ecosystem	A	Infrastructure Area	1
Agricultural – Grazing	B	Tailings Storage Facility	2
Agricultural – Cropping	C	Water Management Area	3
Rehabilitation Biodiversity Offset Area	D	Overburden Emplacement Area	4
Industrial	E	Active Mining Area (Open cut void)	5
Water Management Areas	F	Underground Mining Area (SMP)	6
Water Storage (Excluding Final Void)	G	Beneficiation Facility	7
Heritage Area	H	Other	8
Infrastructure	I		
Final Void	J		
Other	K		

The domains highlighted grey are not applicable to Austar but have been included in this table for context

### 2.4.1. Final Land Use Domains

Final land use domains are defined as land management units characterised by similar final land use objectives. Each final land use domain will require specific rehabilitation methods.

The proposed final land use domains within each CMA at Austar are presented in **Table 11**.

The final land use domains are shown on the final land use plans in **Section 5**.

**TABLE 11 - FINAL LAND USE DOMAINS**

Code	Final Land Use Domain	Description
<b>CMA 1 – Austar Pit Top Facilities</b>		
A	Native Ecosystem	The Austar Dam, effluent dam and overland conveyor corridor, as well as several access tracks and pipeline corridors are proposed to be revegetated to native vegetation communities which are commensurate with surrounding land uses.
B	Agricultural Grazing	Disturbed areas at the main pit top footprint are proposed revegetated with pasture species to create a managed grassland suitable for small rural acreage.
<b>CMA 2 – Pelton CHPP</b>		
A	Native Ecosystem	The majority of the infrastructure area at CMA 2 will be revegetated to achieve a native ecosystem land use (including a riparian zone of a reinstated tributary of Bellbird Creek at the CHPP area). The remaining areas, including capped tailings and reject emplacement areas, will be revegetated to achieve a grassland final land use.
B	Agricultural Grazing	
F	Water Management	This domain includes a tributary of Bellbird Creek aligned through the CHPP and a clean water drain to the north.
G	Water Storage	Clean water dams will be retained in the final landform.
<b>CMA 3 – No. 1 Shaft</b>		
A	Native Ecosystem	No. 1 Shaft will be revegetated with native vegetation communities which are commensurate with surrounding land uses.
<b>CMA 4 – No. 2 Shaft</b>		
A	Native Ecosystem	No. 2 Shaft will be revegetated with native vegetation communities which are commensurate with surrounding land uses.
<b>CMA 5 – Cessnock No. 1 Colliery / Kalingo Infrastructure Area</b>		
A	Native Ecosystem	CMA 5 will be revegetated with native vegetation communities which are commensurate with surrounding land uses.
G	Water Storage	Clean water dams will be retained in the final landform.
<b>CMA 6 – Kitchener SIS</b>		
A	Native Ecosystem	In accordance with the requirements of Schedule 6 Condition 1 of PA 08_0111, disturbed areas in CMA 6 will be revegetated with a structured native vegetation community similar to the existing pre-mining land use.

Code	Final Land Use Domain	Description
G	Water Storage	Clean water dams will be retained in the final landform.
<b>CMA 7 – Aberdare EEA</b>		
B	Agricultural Grazing	As per the landowner agreement, the Aberdare EEA will be rehabilitated to an open grassland. The final land use for this area will be at the landowner’s discretion in accordance with relevant land zoning and development approvals.
<b>CMA 8 – Bellbird Areas 12 and 13</b>		
B	Agricultural Grazing	Bellbird Areas 12 and 13 have been substantially rehabilitated to a grassland final land use.
<b>CMA 9 – Other</b>		
K1	Other (A1 Subsidence Management Area)	Includes the approved underground mining areas in Stage 3 and the Bellbird South which will be managed and rehabilitated in accordance with the relevant Extraction Plan requirements. Rehabilitation will be undertaken as required to return the land to the existing land use which will generally be consistent with either native ecosystem (domain A) or agricultural (domain B) objectives.

### 2.4.2. Mining Domains

Mining domains identify the footprint of areas disturbed for project-related activities. Mining domains are defined as the set of discrete areas that have a particular operational or functional purpose, therefore having similar geophysical and geochemical characteristics that will have similar rehabilitation requirements.

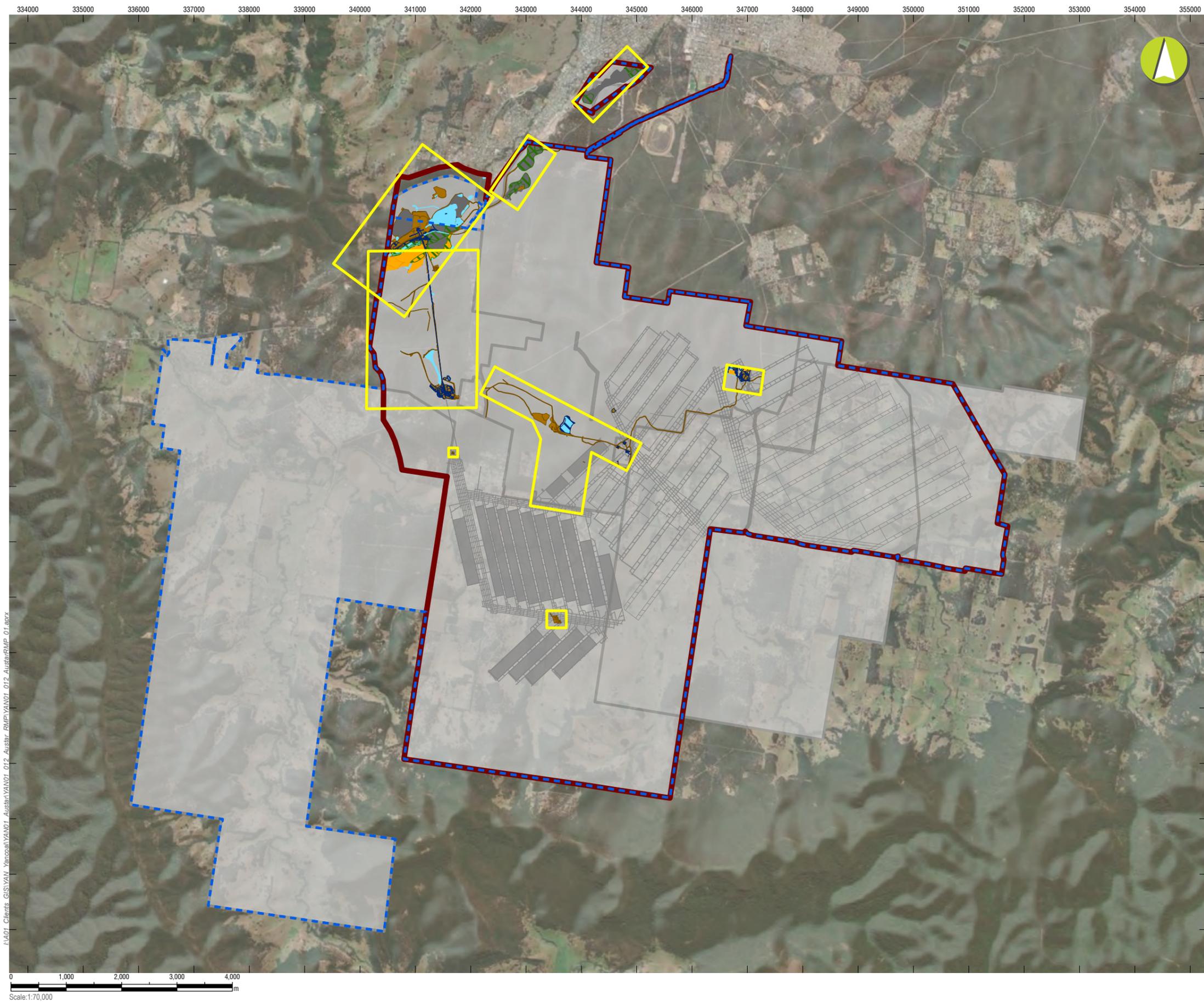
The mining domains within each CMA at Austar are presented in **Table 12**. The mining domains at the commencement of this RMP are presented spatially in **Figure 3**. Insets are included in **Appendix B**.

**TABLE 12 - MINING DOMAINS**

Code	Mining Domain	Description
<b>CMA 1 – Austar Pit Top Facilities</b>		
1	Infrastructure Area	The major existing infrastructure, hardstand and buildings at the Pit Top including access roads and tracks.
3	Water Management Area	Water management infrastructure including the Austar Dam, the Effluent Dam and drainage lines.
<b>CMA 2 – Pelton CHPP</b>		
1	Infrastructure Area	Major existing infrastructure including: <ul style="list-style-type: none"> <li>- hardstand, and buildings at the CHPP including access roads and tracks.</li> <li>- ROM and product stockpiles and tailings drying area</li> <li>- previously disturbed areas of the CHPP which have been previously rehabilitated.</li> </ul>

Code	Mining Domain	Description
2	Tailings Storage Facility	Tailings storage facilities (TSFs) and reject emplacement areas (REAs) at the CHPP area including: <ul style="list-style-type: none"> <li>- NW Emplacement Area (including noise bund)</li> <li>- No. 9 Tailings Storage Area</li> <li>- East Pit Emplacement Area</li> </ul>
3	Water Management Area	The network of dams at the CHPP including the: <ul style="list-style-type: none"> <li>- Process water dams</li> <li>- Water pollution control dam and cells</li> <li>- Emergency overflow dam</li> <li>- Lime loop / Precipitate dam</li> </ul> Also includes the Bellbird Creek tributary alignment through the CHPP.
4	Overburden Emplacement Area	Overburden emplacement areas at the CHPP area including: <ul style="list-style-type: none"> <li>- West Pit Emplacement Area</li> <li>- Previously rehabilitated areas to the south of the East Pit</li> </ul>
7	Beneficiation Facility	The footprint of the Austar CHPP building
<b>CMA 3 – No. 1 Shaft</b>		
1	Infrastructure Area	No. 1 Shaft existing infrastructure, hardstand, and buildings.
<b>CMA 4 – No. 2 Shaft</b>		
1	Infrastructure Area	Existing infrastructure, hardstand and buildings at the No. 2 Shaft and former Ellalong Pit Top.
<b>CMA 5 – Cessnock No. 1 Colliery / Kalingo Infrastructure Area</b>		
1	Infrastructure Area	Existing infrastructure, hardstand and buildings in CMA 5 including the No. 3 and No. 4 ventilation shafts and services. It also includes access roads and tracks.
3	Water Management Area	Kalingo Dam
<b>CMA 6 – Kitchener SIS</b>		
1	Infrastructure Area	The disturbed area of the Kitchener SIS site.
3	Water Management Area	The sediment basins at the Kitchener SIS.
4	Overburden emplacement area	The stockpiles of fine rock from shaft cutting at the Kitchener SIS
<b>CMA 7 – Aberdare EEA</b>		
2	Tailings Storage Facility	The footprint of the Aberdare EEA.

<b>Code</b>	<b>Mining Domain</b>	<b>Description</b>
<b>CMA 8 – Bellbird Areas 12 and 13</b>		
1	Infrastructure Area	The access road and disturbance footprint surrounding the brine boreholes.
2	Tailings Storage Facility	The footprint of Area 12 and Area 13 historic reject emplacement areas
<b>CMA 9 – Other</b>		
6	Underground Mining Area (SMP)	The approved underground mining areas in Stage 3 and the Bellbird South.



- LEGEND**
- Project Approval Boundary
  - Colliery Holding Boundary
  - Austar Mine Plan
  - Completed workings
  - Inset Boundaries (see detailed figures)
- Current Authorisations**
- Coal - Current Titles
- Rehabilitation Phase**
- Decommissioning
  - Ecosystem and Land Use Establishment
- Mining Domain Type**
- Domain 1: Infrastructure Area
  - Domain 2: Tailings Storage Facility
  - Domain 3: Water Management Area
  - Domain 4: Overburden Emplacement Area
  - Domain 7: Beneficiation Facility

**Austar Coal Mine**

**Current Status of Mining and Rehabilitation**

**FIGURE 3**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine RMP
Year of anticipated relinquishment	TBA on final submission
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	26/09/2025

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Source: PA Boundaries, Mining Leases (Yancoal, 2024). Rehabilitation and Disturbance (Yancoal, 2025). LPI Data (NSW Spatial, 2024)

### 3. REHABILITATION RISK ASSESSMENT

#### 3.1. Summary of Risk Assessments

As part of the mine closure planning program, Austar has undertaken several Risk Assessments focussing on risks associated with mine closure. Risk assessments have included all life of mine considerations, as well as separate risk assessments for the key rehabilitation phases.

The outcomes of these risk assessments inform the closure strategies and assist in identifying if there is a need for additional technical or environmental assessments. Closure Risk Assessments are updated as required through closure planning.

A summary of the key rehabilitation and closure risk assessments undertaken by Austar is included in **Table 13**.

**TABLE 13 - SUMMARY OF RISK ASSESSMENTS**

Date	Risk Assessment	Details
2017	MOP Environmental Risk Assessment	Austar Coal Mine undertook an Environmental Risk Assessment (2017) to address Section 3.0 of the <i>ESG3: Mining Operations Plan (MOP) Guidelines</i> (DRE, 2013). The Risk Assessment was undertaken in accordance with <i>ISO 31000:2990 - Risk Management</i> and focused on risks associated with mining operations.
5 June 2020	Care-and-Maintenance MOP Risk Assessment	On 5 June 2020, Austar undertook an Environmental Risk Assessment focused on environmental risks associated with care and maintenance. The key identified risks included: <ul style="list-style-type: none"> <li>- Reduced staffing leads to inadequate environmental management;</li> <li>- Increased trespassing/theft/vandalism leading to asset damage, environmental impacts or personal injury;</li> <li>- Suspended coal processing/reject emplacement leading to delayed filling, capping and rehabilitation of the reject emplacement areas;</li> <li>- Inadequate inspection/maintenance of water management infrastructure (i.e. erosion and sediment controls, pipelines, dams and drainages) leading to run-off of sediment-laden or contaminated water and surface water quality impacts; and</li> <li>- Increased potential for acid mine drainage from active reject emplacement areas.</li> </ul>
September 2020	Initial Closure Risk Assessment	As part of the mine closure planning program, Austar undertook an Environmental Risk Assessment in September 2020, utilising the Bowtie methodology focussing on environmental risks associated with mine closure. It included a risk assessment for all life of mine considerations, as well as separate risk assessments for the key rehabilitation phases.
September 2021	Mid-term Closure Risk Assessment	In September 2021, Austar reviewed the Initial Closure Risk Assessment to reassess the risks based on the findings of Phase 1 Closure Planning Studies.
March 2022	RMP Risk Assessment	In March 2022, Austar undertook a rehabilitation risk assessment to identify and assess the rehabilitation and closure risks for the site in accordance with the Rehabilitation Risk Assessment Guideline (NSW Resources Regulator, 2021).
29 August 2024	RMP Risk Assessment Review	In August 2024, the RMP risk assessment was reviewed and updated.

Date	Risk Assessment	Details
3 September 2025	RMP Risk Assessment Review	In September 2025, the RMP risk assessment was reviewed and updated. Further detail is included in <b>Section 3.2</b> .

### 3.2. Rehabilitation Risk Assessment Workshop

A Rehabilitation Risk Assessment was conducted in March 2022. The objective of the risk assessment was to identify and assess the risks associated with the rehabilitation and closure of Austar, and the successful achievement of the post-mining land use and rehabilitation objectives.

The workshop was guided by the *Guideline - Rehabilitation Risk Assessment* (RR 2021) and with consideration to *ISO 31000:2009 Risk Management Principles and Guidelines*. The risk assessment considered the previous risk assessments listed in **Table 13** as relevant to this RMP and was completed with the Yancoal Risk Matrix.

The rehabilitation workshop was split into two (2) sessions to focus on different phases of rehabilitation and to include key Austar personnel, consultants, demolition, and rehabilitation specialists.

The risk assessment workshop assessed a total of 83 key rehabilitation risks, with the risk rankings summarised as follows:

- 51 risks were ranked as low;
- 13 risks were ranked as moderate;
- 18 risks were ranked as high; and
- 1 risk was ranked as extreme.

Austar has periodically reviewed the Rehabilitation Risk Assessment to reassess the rehabilitation and closure risks. The most recent risk assessment review was undertaken in September 2025 and included key Austar closure personnel.

The revised risk profile is summarised as follows:

- 63 risks were ranked as low;
- 7 risks were ranked as moderate;
- 17 risks were ranked as high; and
- No risks were ranked as extreme.

As indicated above, there has been an overall decrease in the rehabilitation risk profile at Austar due an increase in the knowledge base and implementation of additional controls based on the outcomes and recommendations of the PFS and FS.

Risks identified as high to extreme for each phase are as follows.

#### Active Phase:

- Inadequate capping material quantity available for use in rehabilitation;
- Inability to obtain approval to source capping material (from onsite or offsite sources);
- Less than adequate soil/materials characterisation to inform rehabilitation;

- Adverse geochemical/chemical composition of materials (e.g. overburden and processing wastes);
- Less than adequate management of potentially acid-forming materials on site;
- Less than adequate handling of and containment of geochemically and geotechnically unsuitable tailings and reject materials;
- Sink holes from historic mine workings result in the need for rehabilitation; and
- Underground mine fills with water and surfaces.

**Decommissioning Phase:**

- Public safety risks resulting in fatality, due to less than adequate site security during decommissioning;
- Exposure or access to underground workings; and
- Groundwater accumulation in former underground workings increases the potential for mine to fill and surface.

**Landform Establishment Phase:**

- Less than adequate infrastructure in place to manage water during closure;
- Less than adequate rehabilitation of water management infrastructure;
- Geotechnical and geochemical risks associated with landform establishment;
- Lack of availability of suitable materials for encapsulation/capping of adverse materials;
- Less than adequate construction of historic tailings and reject emplacements resulting in environmental impacts; and
- Final voids, highwalls, rail cuttings, and low walls pose a risk to public safety and/or sterilises land available for future final land uses.

There were no high – extreme risks identified for growth medium development, ecosystem and land use establishment, and ecosystem and land use development phases.

All identified risk controls have been addressed and included in rehabilitation methodologies in **Section 6.2**.

## 4. REHABILITATION OBJECTIVES AND REHABILITATION COMPLETION CRITERIA

### 4.1. Rehabilitation Objectives and Rehabilitation Completion Criteria

#### 4.1.1. General Mine Closure Objectives

The primary goal for mine closure at Austar is to rehabilitate the impacts of mining to:

- Achieve safe, stable landforms with beneficial land uses; and
- Satisfy all regulatory requirements under development consents, mining leases and licences.

The primary objective for the mine closure planning phase is to identify the most appropriate landform(s) and rehabilitation outcomes for executing closure that:

- Are credible, reliable, achievable; and
- Consider optimising beneficial land use(s) post-closure.

#### 4.1.2. Approved Rehabilitation Objectives

In accordance with Clause 12, Schedule 8A of the Mining Regulation 2016, proposed rehabilitation objectives were submitted to the NSW Resources Regulator for approval. The rehabilitation objectives for Austar Coal Mine were subsequently approved on 22 August 2023 (reference ROBJ0001199).

Austar's rehabilitation objectives approval is presented in **Appendix D**.

#### 4.1.3. Rehabilitation Completion Criteria

Completion criteria will be utilised to demonstrate the achievement of rehabilitation objectives.

Completion criteria will be subject to change throughout the detailed mine closure process as a result of ongoing consultation with the relevant stakeholders, findings and recommendations of technical studies and a continuous improvement process informed by rehabilitation monitoring results.

The achievement and progression towards (or otherwise) of the completion criteria will be monitored and reported as required.

Austar intend to submit completion criteria for early works activities including decommissioning, demolition and mine sealing for Resources Regulator approval. Completion criteria for final landforms, and ecological rehabilitation objectives will be further refined in conjunction with the outcomes of closure studies and with reference to NSW Resources Regulator guideline documents.

The approved rehabilitation objectives with proposed rehabilitation completion criteria are presented in **Table 14**.

**TABLE 14 – APPROVED REHABILITATION OBJECTIVES AND PROPOSED COMPLETION CRITERIA**

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
A1 A2 A3 A6 A7	Native Ecosystem	Infrastructure	Removal of infrastructure	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials	All utility infrastructure not required has been removed.	Services (power, water, communications, roads) that have been connected on site as part of the operation will be removed.	<input type="checkbox"/> Statement provided that utility has been removed as validated by site inspection. <input type="checkbox"/> Independent field verification
		Tailings Storage Facility			Infrastructure removed.	Removal of all plant, equipment and associated infrastructure including processing facilities, stockpile areas, rail infrastructure and loading facilities, hydrocarbon storage tanks, office complex, portable offices, exploration core samples, camp facilities, storage racks, samples.	<input type="checkbox"/> Demolition records <input type="checkbox"/> Hazmat clearance records <input type="checkbox"/> Waste disposal records <input type="checkbox"/> As constructed final landform plan <input type="checkbox"/> Photos
		Water Management Areas			Footings removed and / or removed to specified depths to avoid exposure pathways to subsequent final landforms.	Footings removed to a depth as far as reasonably practicable to avoid exposure pathways to subsequent final land use.	<input type="checkbox"/> Statement provided <input type="checkbox"/> Independent field verification <input type="checkbox"/> Surveyed and marked on the as-constructed final landform plan
		Underground Mining Area (SMP)			Infrastructure removed.	Removal of water management infrastructure (including pumps, pipes and power)	<input type="checkbox"/> Statement provided <input type="checkbox"/> Independent field verification <input type="checkbox"/> Photos
		Beneficiation Facility			Cores removed.	All drill cores have been removed and taken to either an authorised storage or disposal location	<input type="checkbox"/> Statement provided <input type="checkbox"/> Independent field verification <input type="checkbox"/> Disposal / transfer receipts
B1 B2 B3 B4 B6	Agricultural Grazing	Infrastructure	Removal of infrastructure	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials	All utility infrastructure not required has been removed.	Services (power, water, communications, roads) that have been connected on site as part of the operation will be removed.	<input type="checkbox"/> Statement provided that utility has been removed as validated by site inspection. <input type="checkbox"/> Independent field verification
		Tailings Storage Facility			Infrastructure removed.	Removal of all plant, equipment and associated infrastructure including processing facilities, stockpile areas, rail infrastructure and loading facilities, hydrocarbon storage tanks, office complex, portable offices, exploration core samples, camp facilities, storage racks, samples.	<input type="checkbox"/> Demolition records <input type="checkbox"/> Hazmat clearance records <input type="checkbox"/> Waste disposal records <input type="checkbox"/> As constructed final landform plan <input type="checkbox"/> Photos
		Water Management Areas			Footings removed and / or removed to specified depths to avoid exposure pathways to subsequent final land use.	Footings removed to a depth as far as reasonably practicable to avoid exposure pathways to subsequent final land use.	<input type="checkbox"/> Statement provided <input type="checkbox"/> Independent field verification <input type="checkbox"/> Surveyed and marked on the as-constructed final landform plan
		Overburden Emplacement Area			Infrastructure removed.	Removal of water management infrastructure (including pumps, pipes and power)	<input type="checkbox"/> Statement provided <input type="checkbox"/> Independent field verification <input type="checkbox"/> Photos
		Underground Mining Area			Cores removed.	All drill cores have been removed and taken to either an authorised storage or disposal location	<input type="checkbox"/> Statement provided <input type="checkbox"/> Independent field verification <input type="checkbox"/> Disposal / transfer receipts <input type="checkbox"/>

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
F3	Water Management Areas	Water Management Area	Removal of infrastructure	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials	All utility infrastructure not required has been removed.	Services (power, water, communications, roads) that have been connected on site as part of the operation will be removed.	<input type="checkbox"/> Statement provided that utility has been removed as validated by site inspection. <input type="checkbox"/> Final landform plan
					Infrastructure removed.	Removal of all plant, equipment and associated infrastructure including processing facilities, stockpile areas, rail infrastructure and loading facilities, hydrocarbon storage tanks, office complex, portable buildings, exploration core samples, storage racks and samples.	<input type="checkbox"/> Demolition records <input type="checkbox"/> Hazmat clearance records <input type="checkbox"/> Waste disposal records <input type="checkbox"/> As constructed final landform plan <input type="checkbox"/> Photos
					Footings removed and / or removed to specified depths to avoid exposure pathways to subsequent final land use.	Footings removed to a depth as far as reasonably practicable to avoid exposure pathways to subsequent final land use.	<input type="checkbox"/> Surveyed and marked on the as-constructed final landform plan
					Infrastructure removed.	Removal of water management infrastructure (including pumps, pipes and power)	<input type="checkbox"/> Demolition records <input type="checkbox"/> Photos
G3	Water Storage	Water Management Area	Removal of infrastructure	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials	All utility infrastructure not required has been removed.	Services (power, water, communications, roads) that have been connected on site as part of the operation will be removed.	<input type="checkbox"/> Statement provided that utility has been removed as validated by site inspection. <input type="checkbox"/> Final landform plan
					Infrastructure removed.	Removal of all plant, equipment and associated infrastructure including processing facilities, stockpile areas, rail infrastructure and loading facilities, hydrocarbon storage tanks, office complex, portable buildings, exploration core samples, storage racks and samples.	<input type="checkbox"/> Demolition records <input type="checkbox"/> Hazmat clearance records <input type="checkbox"/> Waste disposal records <input type="checkbox"/> As constructed final landform plan <input type="checkbox"/> Photos
					Footings removed and / or removed to specified depths to avoid exposure pathways to subsequent final land use.	Footings removed to a depth as far as reasonably practicable to avoid exposure pathways to subsequent final land use.	<input type="checkbox"/> Surveyed and marked on the as-constructed final landform plan
					Infrastructure removed.	Removal of water management infrastructure (including pumps, pipes and power)	<input type="checkbox"/> Demolition records <input type="checkbox"/> Photos
A1 A7	Native Ecosystem	Infrastructure Beneficiation Facility	Removal of infrastructure	Heritage infrastructure has been appropriately assessed and approved for removal	Permits and approval documents issued. All archival reports required are complete and submitted.	Heritage obligations (e.g. development consent under the Environmental Planning and Assessment Act 1979, approvals under the Heritage Act 1977, etc.) have been met (e.g. archival recording, building retention or building demolition with footings preserved).	<input type="checkbox"/> Copy of any relevant approval documentation and archival reports/records.
B1	Agricultural Grazing	Infrastructure	Removal of infrastructure	Heritage infrastructure has been appropriately assessed and approved for removal	Permits and approval documents issued. All archival reports required are complete and submitted.	Heritage obligations (e.g. development consent under the Environmental Planning and Assessment Act 1979, approvals under the Heritage Act 1977, etc.) have been met (e.g. archival recording, building retention or building demolition with footings preserved).	<input type="checkbox"/> Copy of any relevant Approval documentation and archival reports/records.
A1 A2 A3 A6 A7	Native Ecosystem	Infrastructure Tailings Storage Facility Water Management Area Underground Mining area	Removal of infrastructure	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.	Sealing completed and verified.	Surveying and sealing of all drill holes and boreholes (where locatable) in accordance with departmental guidelines (e.g. MDG6001 Permanent filling and capping of surface entries) and relevant standards	<input type="checkbox"/> Engineering report/statement <input type="checkbox"/> Plug and abandonment log <input type="checkbox"/> As constructed drawings, records of fill material and concrete plugs <input type="checkbox"/> Survey records <input type="checkbox"/> Photos
					Sealing completed.	Surveying and sealing of all former underground mine entries.	<input type="checkbox"/> Engineering report/statement

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
		Beneficiation Facility			OR Where sealing records are unavailable, risk assessment shows acceptable residual risk remains to final land use.	OR Where sealing records are not available, risk assessment completed to define risk to final land use.	<input type="checkbox"/> Risk assessment report <input type="checkbox"/> Survey records <input type="checkbox"/> Photos
B1 B2 B3 B4 B6	Agricultural Grazing	Infrastructure Tailings Storage Facility Water Management Area Overburden Emplacement Area Underground Mining Area	Removal of infrastructure	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.	Sealing completed and verified.  Sealing completed. OR Where sealing records are unavailable, risk assessment shows acceptable residual risk remains to final land use.	Surveying and sealing of all drill holes and boreholes (where locatable) in accordance with departmental guidelines (e.g. MDG6001 Permanent filling and capping of surface entries) and relevant standards  Surveying and sealing of all former underground mine entries. OR Where sealing records are not available, risk assessment completed to define risk to final land use..	<input type="checkbox"/> Engineering report/statement <input type="checkbox"/> Plug and abandonment log <input type="checkbox"/> As constructed drawings, records of fill material and concrete plugs <input type="checkbox"/> Survey records <input type="checkbox"/> Photos  <input type="checkbox"/> Engineering report/statement <input type="checkbox"/> Risk assessment report <input type="checkbox"/> Survey records <input type="checkbox"/> Photos
A1 A7	Native Ecosystem	Infrastructure Beneficiation Facility	Retention of infrastructure	All infrastructure that is to remain as part of the final land use is safe, does not pose any hazard to the community.	Hazards effectively isolated and secured.  Repairs completed.  The structural integrity of the infrastructure has been inspected by a suitably qualified engineer and determined to be suitable and safe as part of the intended final land use.  Formal acceptance from the landowner that infrastructure is in a condition that is suitable for the intended final land use in accordance with formal agreement.	Potential hazards (e.g. electrical, mechanical) have been effectively isolated and secured  Damage to access tracks has been repaired and stabilised.  The structural integrity of the infrastructure is suitable and safe for use as part of the intended final land use  Infrastructure is in a condition (e.g. structural, electrical, other hazards) that is suitable for the intended final land use.	<input type="checkbox"/> Statement provided by a suitably qualified engineer. <input type="checkbox"/> As-constructed final landform plan, photos etc. <input type="checkbox"/> Engineering report/statement, photos, risk assessment verifying modes of failure are adequately addressed to minimise risks to public safety or the environment. <input type="checkbox"/> Formal acceptance from landowner.
B1	Agricultural Grazing	Infrastructure	Retention of infrastructure	All infrastructure that is to remain as part of the final land use is safe, does not pose any hazard to the community.	Hazards isolated and secured.  Repairs completed.  The structural integrity of the infrastructure has been inspected by a suitably qualified engineer and determined to be suitable and safe as part of the intended final land use.  Formal acceptance from the landowner that infrastructure is in a condition that is suitable for the intended final land use in accordance with formal agreement.	Potential hazards (e.g. electrical, mechanical) have been effectively isolated and secured  Damage to access tracks has been repaired and stabilised.  The structural integrity of the infrastructure is suitable and safe for use as part of the intended final land use  Infrastructure is in a condition (e.g. structural, electrical, other hazards) that is suitable for the intended final land use.	<input type="checkbox"/> Statement provided by suitably qualified engineer. <input type="checkbox"/> As-constructed final landform plan, photos etc. <input type="checkbox"/> Engineering report/statement, photos, risk assessment verifying modes of failure are adequately addressed to minimise risks to public safety or the environment. <input type="checkbox"/> Formal acceptance from landowner.

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
					<p>The location of the infrastructure has been marked on a plan and registered with the relevant local authority (e.g. local Council) and Dial Before You Dig.</p> <p>Remnant in-situ pipelines are determined to be suitable for the intended final land use.</p> <p>Formal acceptance from the landowner that infrastructure is in a condition that is suitable for the intended final land use in accordance with formal agreement.</p> <p>All potential hazards associated with the retention of pipelines (i.e. residual gas) have been removed.</p>	<p>If any underground pipelines or other infrastructure are to remain in situ, they do not pose a hazard for the intended final land use.</p>	<input type="checkbox"/> Surveyed and marked on the as-constructed final landform plan. <input type="checkbox"/> Copy of notification to local Council and Dial Before You Dig <input type="checkbox"/> Formal acceptance from landowner. Identified on an appropriate legal instrument associated with the land title.
A1 A7	Native Ecosystem	Infrastructure Beneficiation facility	Retention of infrastructure	All infrastructure that is to remain as part of the final land use benefits from the relevant approvals (e.g. development consent and / or licence/lease/binding agreement, etc)	<p>Permits and approval documents issued.</p> <p>Permits and approval documents issued; archival reports (where required) complete and submitted.</p>	<p>Where applicable, necessary approvals are in place (e.g. development consent under the Environmental Planning and Assessment Act 1979) and activated where buildings and infrastructure are to be retained as part of final land use</p> <p>Heritage obligations as required under the Environmental Planning and Assessment Act 1979, Heritage Act 1977, etc. have been met (e.g. archival recording, building retention and restoration).</p>	<input type="checkbox"/> Copy of any relevant approvals. <input type="checkbox"/> Copy of any relevant approvals.
B1	Agricultural Grazing	Infrastructure	Retention of infrastructure	All infrastructure that is to remain as part of the final land use benefits from the relevant approvals (e.g. development consent and / or licence/lease/binding agreement, etc)	<p>Permits and approval documents issued.</p> <p>Permits and approval documents issued; archival reports (where required) complete and submitted.</p>	<p>Where applicable, necessary approvals are in place (e.g. development consent under the Environmental Planning and Assessment Act 1979) and activated where buildings and infrastructure are to be retained as part of final land use</p> <p>Heritage obligations as required under the Environmental Planning and Assessment Act 1979, Heritage Act 1977, etc. have been met (e.g. archival recording, building retention and restoration).</p>	<input type="checkbox"/> Copy of any relevant approvals. <input type="checkbox"/> Copy of any relevant approvals.
A1 A2 A3 A7	Native Ecosystem	Infrastructure Tailing Storage Facility Water Management Area Beneficiation Facility	Land contamination	Ensure the site is safe and levels of hazardous materials are appropriate for final land use	<p>There are no visible signs of contamination following the removal of plant, equipment and materials.</p> <p>All rubbish/ waste materials removed from site.</p> <p>Contamination will be appropriately remediated so that appropriate guidelines for land use are met, e.g. Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013)</p> <p>Visual – verification that capping, type, and placement present acceptable residual risk to final land use.</p> <p>Visual – no signs of impacts on final land use due to residual waste materials indicated by vegetation health.</p> <p>Survey - coarse rejects and tailings has been emplaced or capped in accordance with the final land use plan</p> <p>All mine water management structures have been de-silted and material buried and capped onsite or material transferred to a licensed waste disposal facility.</p>	<p>No waste material and/or visible contamination area on site surface.</p> <p>Soil testing for contaminants of concern as listed by Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013) applicable to land use type.</p> <p>Carbonaceous Material</p> <p>Desilting of mine water management structures</p>	<input type="checkbox"/> Statement provided and before/after photos. <input type="checkbox"/> Contamination Remediation Report prepared by Land Contamination Consultant <input type="checkbox"/> Contamination Validation Report <input type="checkbox"/> Clearance Certificates <input type="checkbox"/> Capping study report <input type="checkbox"/> As-built survey <input type="checkbox"/> Site inspection records <input type="checkbox"/> Waste disposal records

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
B1 B2 B3 B4	Agricultural Grazing	Infrastructure	Land contamination	Ensure the site is safe and levels of hazardous materials are appropriate for final land use	There are no visible signs of contamination following the removal of plant, equipment and materials.  All rubbish/ waste materials removed from site.	No waste material and/or visible contamination area on site surface.	<input type="checkbox"/> Statement provided and before/after photos.
		Tailings Storage Facility			Contamination will be appropriately remediated so that appropriate guidelines for land use are met, e.g. Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013)	Soil testing for contaminants of concern as listed by Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013) applicable to land use type.	<input type="checkbox"/> Contamination Validation Report <input type="checkbox"/> Clearance Certificates
		Water Management Area			Visual – verification that capping, type, and placement present acceptable residual risk to final land use.	Carbonaceous Material	<input type="checkbox"/> Capping study report <input type="checkbox"/> As-built survey
		Overburden Emplacement Area			Visual – no signs of impacts on final land use due to residual waste materials indicated by vegetation health.		
					Survey - coarse rejects and tailings has been emplaced or capped in accordance with the final land use plan		
						All mine water management structures have been de-silted and material buried and capped onsite or material transferred to a licensed waste disposal facility.	Desilting of mine water management structures
F3	Water Management Areas	Water Management Area	Land contamination	Ensure the site is safe and levels of hazardous materials are appropriate for final land use	All mine water management structures have been de-silted and material buried and capped onsite or material transferred to a licensed waste disposal facility.	Desilting of mine water management structures	<input type="checkbox"/> Site inspection records <input type="checkbox"/> Waste disposal records
G3	Water Storage	Water Management Area	Land contamination	Ensure the site is safe and levels of hazardous materials are appropriate for final land use	All mine water management structures have been de-silted and material buried and capped onsite or material transferred to a licensed waste disposal facility.	Desilting of mine water management structures	<input type="checkbox"/> Site inspection records <input type="checkbox"/> Waste disposal records
A1 A2 A3 A4 A7	Native Ecosystem	Infrastructure	Land contamination	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.	There are no visible signs of contamination following the removal of plant, equipment and materials.  All rubbish/ waste materials removed from site.	No waste material and/or visible contamination area on site surface.	<input type="checkbox"/> Statement provided and before/after photos.
		Tailings Storage			Contamination will be appropriately remediated so that appropriate guidelines for land use are met, e.g. Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013)	Soil testing for contaminants of concern as listed by Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013) applicable to land use type.	<input type="checkbox"/> Contamination Validation Report <input type="checkbox"/> Clearance Certificates
		Water Management Area					
		Overburden Emplacement Area					
		Beneficiation Facility					
B1 B2 B3 B4	Agricultural Grazing	Infrastructure	Land contamination	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.	There are no visible signs of contamination following the removal of plant, equipment and materials.  All rubbish/ waste materials removed from site.	No waste material and/or visible contamination area on site surface.	<input type="checkbox"/> Statement provided and before/after photos.
		Tailings Storage			Contamination will be appropriately remediated so that appropriate guidelines for land use are met, e.g. Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013)	Soil testing for contaminants of concern as listed by Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013) applicable to land use type.	<input type="checkbox"/> Contamination Validation Report <input type="checkbox"/> Clearance Certificates
		Water Management Area					
		Overburden Emplacement Area					
F3		Water Management Area	Land contamination	Contaminated areas and/or hazardous	There are no visible signs of contamination following the removal of plant, equipment and materials.	No waste material and/or visible contamination area on site surface.	<input type="checkbox"/> Statement provided and before/after photos.

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	Water Management Areas			materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.	All rubbish/ waste materials removed from site. Contamination will be appropriately remediated so that appropriate guidelines for land use are met, e.g. Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013)	Soil testing for contaminants of concern as listed by Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013) applicable to land use type.	<input type="checkbox"/> Contamination Validation Report <input type="checkbox"/> Clearance Certificates
G3	Water Storage	Water Management Area	Land contamination	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.	There are no visible signs of contamination following the removal of plant, equipment and materials. All rubbish/ waste materials removed from site. Contamination will be appropriately remediated so that appropriate guidelines for land use are met, e.g. Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013)	No waste material and/or visible contamination area on site surface. Soil testing for contaminants of concern as listed by Health Investigation Level of the National Environment Protection (Assessment of Site Contamination) Measure (1999) (amended 2013) applicable to land use type.	<input type="checkbox"/> Statement provided and before/after photos.  <input type="checkbox"/> Contamination Validation Report <input type="checkbox"/> Clearance Certificates
A2	Native Ecosystem	Tailings Storage Facility	Management of waste and process materials	Residual waste materials stored on site (eg tailings, coarse rejects and other wastes) have been appropriately encapsulated or otherwise managed so they do not pose any hazards or constraints to the post mining land use	Visual – verification that capping, type and placement consistent with design Visual – no signs of compromised capping performance indicated by vegetation health – such as tree death (deeper root systems) Visual – no areas of unexpected seepage Survey verifies that capping placement consistent with design and settlement and/or material loss is within predicted limits and will not compromise final landform drainage via differential settlement. Quality assurance records verify capping constructed and in accordance with design specifications relevant to site risks and target final land use.  <i>Further refinement of this completion criteria is required.</i>	Visual –capping material placement, type across emplacement Visual – indication of capping performance on final landform – vegetation health Visual – emplacement seepage and other indicators of groundwater issues – wet spots etc. Measured - survey of emplacement capping to verify construction and to monitor settlement. Quality assurance records for the construction of the emplacement material including (where relevant) capping material, liner system, seepage control etc Measured- surface and groundwater levels to verify water balance modelling and capping function  Measured – contamination levels in surface and groundwater surrounding emplacement for contaminants of concern associated with waste material emplaced.	<input type="checkbox"/> Photos, rehabilitation monitoring reports, as constructed surveys, quality assurance records for construction, erosion surveys, independent geotechnical reports (where required), groundwater/surface water monitoring reports.  <input type="checkbox"/> The structural integrity of the infrastructure and capping has been inspected by a suitably qualified engineer and determined to be suitable and safe as part of the intended final land use and water material adequately contained
B2	Agricultural Grazing	Tailings Storage Facility	Management of waste and process materials	Residual waste materials stored on site (eg tailings, coarse rejects and other wastes) have been appropriately encapsulated or otherwise managed so they do not pose any hazards or constraints to the post mining land use	Visual – verification that capping, type and placement consistent with design Visual – no signs of compromised capping performance indicated by vegetation health – such as tree death (deeper root systems) Visual – no areas of unexpected seepage Survey verifies that capping placement consistent with design and settlement and/or material loss is within predicted limits and will not compromise final landform drainage via differential settlement. Quality assurance records verify capping constructed and in accordance with design specifications relevant to site risks and target final land use.  <i>Further refinement of this completion criteria is required.</i>	Visual –capping material placement, type across emplacement Visual – indication of capping performance on final landform – vegetation health Visual – emplacement seepage and other indicators of groundwater issues – wet spots etc. Measured - survey of emplacement capping to verify construction and to monitor settlement. Quality assurance records for the construction of the emplacement material including (where relevant) capping material, liner system, seepage control etc Measured- surface and groundwater levels to verify water balance modelling and capping function.  Measured – contamination levels in surface and groundwater surrounding emplacement for contaminants of concern associated with waste material emplaced.	<input type="checkbox"/> Photos, rehabilitation monitoring reports, as constructed surveys, quality assurance records for construction, erosion surveys, independent geotechnical reports (where required), groundwater/surface water monitoring reports.  <input type="checkbox"/> The structural integrity of the infrastructure and capping has been inspected by a suitably qualified engineer and determined to be suitable and safe as part of the intended final land use and water material adequately contained

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
A1 A2 A3 A4 A7	Native Ecosystem	Infrastructure	Landform stability	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.	Survey verifies final landform complies with final landform construction in accordance with the Final Landform and Rehabilitation Plan.	Visual assessment and survey conducted to verify that landforms developed are compatible with surrounding landscape and constructed in accordance with Final Landform and Rehabilitation Plan.	<input type="checkbox"/> Final landform approval documentation <input type="checkbox"/> As-built survey <input type="checkbox"/> Visual assessment <input type="checkbox"/> Rehabilitation monitoring reports
		Tailings Storage Facility			Survey verifies final landform complies with final landform construction in accordance with the Final Landform and Rehabilitation Plan.		
		Water Management Area			Minimal erosion that would not require moderate to significant ongoing management and maintenance works.	Erosion	<input type="checkbox"/> Rehabilitation monitoring report
B1 B2 B3 B4	Agricultural Grazing	Infrastructure	Landform stability	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.	Verification that capping, type and placement consistent with design.	Suitable capping thickness is applied to meet the final landform	<input type="checkbox"/> Capping design <input type="checkbox"/> Inspection and Test Plans <input type="checkbox"/> As-built survey
		Tailings Storage Facility			Survey verifies final landform complies with final landform construction in accordance with the Final Landform and Rehabilitation Plan.		
		Water Management			Survey verifies final landform complies with final landform construction in accordance with the Final Landform and Rehabilitation Plan.	Final landform shaped and rehabilitated	<input type="checkbox"/> As-built survey
		Overburden Emplacement			Minimal erosion that would not require moderate to significant ongoing management and maintenance works.	Erosion	<input type="checkbox"/> Rehabilitation monitoring report
F3	Water Management Areas	Water Management Area	Landform stability	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.	Survey verifies final landform complies with final landform construction in accordance with the Final Landform and Rehabilitation Plan.	Visual assessment and survey conducted to verify that landforms developed are compatible with surrounding landscape and constructed in accordance with Final Landform and Rehabilitation Plan.	<input type="checkbox"/> Final landform approval documentation <input type="checkbox"/> As-built survey <input type="checkbox"/> Visual assessment
					Survey verifies final landform complies with final landform construction in accordance with the Final Landform and Rehabilitation Plan.		
					minimal erosion that would not require moderate to significant ongoing management and maintenance works.	Erosion	<input type="checkbox"/> Rehabilitation monitoring report
G3	Water Storage	Water Management Area	Landform stability	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.	Survey verifies final landform complies with final landform construction in accordance with the Final Landform and Rehabilitation Plan.	Visual assessment and survey conducted to verify that landforms developed are compatible with surrounding landscape and constructed in accordance with Final Landform and Rehabilitation Plan.	<input type="checkbox"/> Final landform approval documentation <input type="checkbox"/> As-built survey <input type="checkbox"/> Visual assessment
					Survey verifies final landform complies with final landform construction in accordance with the Final Landform and Rehabilitation Plan.		

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
					minimal erosion that would not require moderate to significant ongoing management and maintenance works.	Erosion	☐ Rehabilitation monitoring report
A1 A2 A3 A4 A6 A7	Native Ecosystem	Infrastructure Tailings Storage Facility Water Management Area Overburden Emplacement Area Underground Mining Area Beneficiation Facility	Landform stability	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.	<p>Visual- minimal erosion that would not require moderate to significant ongoing management and maintenance works.</p> <p>Visual – no signs of geotechnical instability such as mass movement.</p> <p>Visual - no areas of active gully erosion.</p> <p>Visual - no evidence of tunnel erosion.</p> <p>Visual – no evidence of active scour likely to compromise surface water management structure.</p> <p>Survey verifies final landform complies with final landform construction in accordance with Final Landform and Rehabilitation Plan.</p> <p>Survey verifies that settlement and/or material loss is within predicted limits and will not compromise final landform drainage via differential settlement.</p> <p>Erosion rate monitoring verifies that erosion levels are within the range of target analogue sites representative of final land use.</p> <p>Significant surface water management structures (e.g. spillways, drop structures, major drains and creek diversions) have been constructed in accordance with hydrological design.</p> <p>High risk landforms (such as steep slopes, high walls) have been constructed in accordance with geotechnical design.</p> <p><i>Further refinement of this completion criteria is required.</i></p>	<p>Visual - indicators of erosional instability and geotechnical instability.</p> <p>Visual - indicators that surface water management structure are functioning as designed.</p> <p>Measured – erosion rates from field trials and or surveys on both target analogue sites (representative of final land use) and rehabilitated profiles (tonnes / ha).</p> <p>Measured - Survey of rehabilitated landform to verify final landform construction in accordance with Final Landform and Rehabilitation Plan. Measured - survey of rehabilitated landform to specifically monitor settlement and/or material loss via erosion.</p> <p>Modelled – long term erosional stability (e.g. Landform Evolution Modelling) to verify the long-term stability of rehabilitated landform. Modelled – long term geotechnical stability (e.g. stability analysis) to verify the long-term stability of rehabilitated landform.</p>	☐ Before and after photos, rehabilitation monitoring reports, as constructed surveys, erosion surveys, independent geotechnical reports (where required) and or erosion modelling reports (where required) that indicate long-term stability of rehabilitated landform.
B1 B2 B3 B4 B6	Agricultural Grazing	Infrastructure Tailings Storage Facility Water Management Area Overburden Emplacement Area Underground Mining Area	Landform stability	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.	<p>Visual- minimal erosion that would not require moderate to significant ongoing management and maintenance works.</p> <p>Visual – no signs of land instability such as mass movement.</p> <p>Visual - no areas of active gully erosion.</p> <p>Visual - no evidence of tunnel erosion.</p> <p>Visual – no evidence of active scour likely to compromise surface water management structure.</p> <p>Survey verifies final landform complies with final landform construction in accordance with Final Landform and Rehabilitation Plan.</p> <p>Survey verifies that settlement and/or material loss is within predicted limits and will not compromise final landform drainage via differential settlement.</p> <p>Erosion rate monitoring verifies that erosion levels are within the range of target analogue sites representative of final land use.</p> <p>Significant surface water management structures (e.g. spillways, drop structures, major drains and creek diversions) have been constructed in accordance with hydrological design.</p> <p>High risk landforms (such as steep slopes, high walls) have been constructed in accordance with geotechnical design.</p>	<p>Visual - indicators of erosion and land instability.</p> <p>Visual - indicators that surface water management structure are functioning as designed.</p> <p>Measured – erosion rates from field trials and or surveys on both target analogue sites (representative of final land use) and rehabilitated profiles (tonnes / ha).</p> <p>Measured - Survey of rehabilitated landform to verify final landform construction in accordance with Final Landform and Rehabilitation Plan.</p> <p>Measured - survey of rehabilitated landform to specifically monitor settlement and/or material loss via erosion.</p> <p>Modelled – long term erosional stability (e.g. Landform Evolution Modelling) to verify the long-term stability of rehabilitated landform.</p> <p>Modelled – long term geotechnical stability (e.g. stability analysis) to verify the long-term stability of rehabilitated landform.</p>	☐ Before and after photos, rehabilitation monitoring reports, as constructed surveys, erosion surveys, independent geotechnical reports (where required) and or erosion modelling reports (where required) that indicate long-term stability of rehabilitated landform.

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
					<i>Further refinement of this completion criteria is required.</i>		
F3	Water Management Areas	Water Management Area	Landform stability	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.	<p>Visual- minimal erosion that would not require moderate to significant ongoing management and maintenance works.</p> <p>Visual – no signs of land instability such as mass movement.</p> <p>Visual - no areas of active gully erosion.</p> <p>Visual - no evidence of tunnel erosion.</p> <p>Visual – no evidence of active scour likely to compromise surface water management structure.</p> <p>Survey verifies final landform complies with final landform construction in accordance with Final Landform and Rehabilitation Plan.</p> <p>Survey verifies that settlement and/or material loss is within predicted limits and will not compromise final landform drainage via differential settlement.</p> <p>Erosion rate monitoring verifies that erosion levels are within the range of target analogue sites representative of final land use.</p> <p>Significant surface water management structures (e.g. spillways, drop structures, major drains and creek diversions) have been constructed in accordance with hydrological design.</p> <p>High risk landforms (such as steep slopes, high walls) have been constructed in accordance with geotechnical design.</p> <p><i>Further refinement of this completion criteria is required.</i></p>	<p>Visual - indicators of erosion and land instability.</p> <p>Visual - indicators that surface water management structure are functioning as designed. Measured – erosion rates from field trials and or surveys on both target analogue sites (representative of final land use) and rehabilitated profiles (tonnes / ha).</p> <p>Measured - Survey of rehabilitated landform to verify final landform construction in accordance with Final Landform and Rehabilitation Plan.</p> <p>Measured - survey of rehabilitated landform to specifically monitor settlement and/or material loss via erosion.</p> <p>Modelled – long term erosional stability (e.g. Landform Evolution Modelling) to verify the long-term stability of rehabilitated landform.</p> <p>Modelled – long term geotechnical stability (e.g. stability analysis) to verify the long-term stability of rehabilitated landform.</p>	<p>□ Before and after photos, rehabilitation monitoring reports, as constructed surveys, erosion surveys, independent geotechnical reports (where required) and or erosion modelling reports (where required) that indicate long-term stability of rehabilitated landform.</p>
G3	Water Storage	Water Management Area	Landform stability	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.	<p>Visual- minimal erosion that would not require moderate to significant ongoing management and maintenance works.</p> <p>Visual – no signs of land instability such as mass movement.</p> <p>Visual - no areas of active gully erosion.</p> <p>Visual - no evidence of tunnel erosion.</p> <p>Visual – no evidence of active scour likely to compromise surface water management structure.</p> <p>Survey verifies final landform complies with final landform construction in accordance with Final Landform and Rehabilitation Plan.</p> <p>Survey verifies that settlement and/or material loss is within predicted limits and will not compromise final landform drainage via differential settlement.</p> <p>Erosion rate monitoring verifies that erosion levels are within the range of target analogue sites representative of final land use.</p> <p>Significant surface water management structures (e.g. spillways, drop structures, major drains and creek diversions) have been constructed in accordance with hydrological design.</p> <p>High risk landforms (such as steep slopes, high walls) have been constructed in accordance with geotechnical design.</p> <p><i>Further refinement of this completion criteria is required.</i></p>	<p>Visual - indicators of erosion and land instability.</p> <p>Visual - indicators that surface water management structure are functioning as designed. Measured – erosion rates from field trials and or surveys on both target analogue sites (representative of final land use) and rehabilitated profiles (tonnes / ha).</p> <p>Measured - Survey of rehabilitated landform to verify final landform construction in accordance with Final Landform and Rehabilitation Plan.</p> <p>Measured - survey of rehabilitated landform to specifically monitor settlement and/or material loss via erosion.</p> <p>Modelled – long term erosional stability (e.g. Landform Evolution Modelling) to verify the long-term stability of rehabilitated landform.</p> <p>Modelled – long term geotechnical stability (e.g. stability analysis) to verify the long-term stability of rehabilitated landform.</p>	<p>□ Before and after photos, rehabilitation monitoring reports, as constructed surveys, erosion surveys, independent geotechnical reports (where required) and or erosion modelling reports (where required) that indicate long-term stability of rehabilitated landform.</p>

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
A6	Native Ecosystem	Underground Mining Area (SMP)	Landform stability	Public Safety hazards above LW extraction area are managed and reduced to no more than those existing pre-mining	Subsidence Monitoring Program inspection results indicate no public safety hazards post mining.	General landform public safety impacts are remediated. Identified slope instability issues are managed.	<input type="checkbox"/> SM monitoring reports <input type="checkbox"/> End of Panel reports.
B6	Agricultural Grazing	Underground Mining Area (SMP)	Landform stability	Public Safety hazards above LW extraction area are managed and reduced to no more than those existing pre-mining	Subsidence Monitoring Program inspection results indicate no public safety hazards post mining.	General landform public safety impacts are remediated. Identified slope instability issues are managed.	<input type="checkbox"/> SM monitoring reports <input type="checkbox"/> End of Panel reports.
A6	Native Ecosystem	Underground Mining Area (SMP)	Landform stability	Built features damaged by mining operations have been repaired, restored or replaced in accordance with Extraction Plan requirements	The structural integrity of the infrastructure has been inspected by a suitably qualified engineer and determined to be suitable and safe as part of the intended final land use.	The structural integrity of the infrastructure is suitable and safe for use as part of the intended final land use	<input type="checkbox"/> Engineering report/statement, photos, risk assessment verifying modes of failure are adequately addressed to minimise risks to public safety or the environment.
					Formal acceptance from the landowner that infrastructure is in a condition that is suitable for the intended final land use in accordance with formal agreement.	Infrastructure is in a condition (e.g. structural, electrical, other hazards) that is suitable for the intended final land use.	<input type="checkbox"/> Formal acceptance from landowner.
B6	Agricultural Grazing	Underground Mining Area (SMP)	Landform stability	Built features damaged by mining operations have been repaired, restored or replaced in accordance with Extraction Plan requirements	The structural integrity of the infrastructure has been inspected by a suitably qualified engineer and determined to be suitable and safe as part of the intended final land use.	The structural integrity of the infrastructure is suitable and safe for use as part of the intended final land use	<input type="checkbox"/> Engineering report/statement, photos, risk assessment verifying modes of failure are adequately addressed to minimise risks to public safety or the environment.
					Formal acceptance from the landowner that infrastructure is in a condition that is suitable for the intended final land use in accordance with formal agreement.	Infrastructure is in a condition (e.g. structural, electrical, other hazards) that is suitable for the intended final land use.	<input type="checkbox"/> Formal acceptance from landowner.
A1 A2 A3 A4 A7	Native Ecosystem	Infrastructure Tailings Storage Facility Water Management Area Overburden Emplacement Area Beneficiation Facility	Bushfire	The area does not present an unreasonable bushfire hazard to surrounding areas.	Bushfire controls implemented.	Appropriate bushfire hazard controls have been implemented with advice from the NSW Rural Fire Service such as the location and design of retained bushfire trails as depicted in the Final Landform and Rehabilitation Plan.	<input type="checkbox"/> Bushfire management inspection <input type="checkbox"/> Records of fire trail maintenance and clearing of understory
B1 B2 B3 B4	Agricultural Grazing	Infrastructure Tailings Storage Facility Water Management Area Overburden Emplacement Area	Bushfire	The area does not present an unreasonable bushfire hazard to surrounding areas.	Bushfire controls implemented.	Appropriate bushfire hazard controls have been implemented with advice from the NSW Rural Fire Service such as the location and design of retained bushfire trails as depicted in the Final Landform and Rehabilitation Plan.	<input type="checkbox"/> Bushfire management inspection <input type="checkbox"/> Records of fire trail maintenance and clearing of understory
F3	Water Management Areas	Water Management Area	Bushfire	The area does not present an unreasonable bushfire hazard to surrounding areas.	Bushfire controls implemented.	Appropriate bushfire hazard controls have been implemented with advice from the NSW Rural Fire Service such as the location and design of retained bushfire trails as depicted in the Final Landform and Rehabilitation Plan.	<input type="checkbox"/> Bushfire management inspection <input type="checkbox"/> Records of fire trail maintenance and clearing of understory

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
G3	Water Storage	Water Management Area	Bushfire	The area does not present an unreasonable bushfire hazard to surrounding areas.	Bushfire controls implemented.	Appropriate bushfire hazard controls have been implemented with advice from the NSW Rural Fire Service such as the location and design of retained bushfire trails as depicted in the Final Landform and Rehabilitation Plan.	<input type="checkbox"/> Bushfire management inspection <input type="checkbox"/> Records of fire trail maintenance and clearing of understory
F3	Water Management Areas	Water Management Area	Surface water	Surface water retained on site is fit for the intended post-mining land use(s)	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters determined through closure studies.	<input type="checkbox"/> Water quality monitoring reports. <input type="checkbox"/> Environment Protection Licence relinquished by Environment Protection Authority. <input type="checkbox"/> Independent hydrological assessment report.
G3	Water Storage	Water Management Area	Surface water	Surface water retained on site is fit for the intended post-mining land use(s)	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters determined through closure studies.	<input type="checkbox"/> Water quality monitoring reports. <input type="checkbox"/> Environment Protection Licence relinquished by Environment Protection Authority. <input type="checkbox"/> Independent hydrological assessment report.
F3	Water Management Areas	Water Management Area	Surface water	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters determined through closure studies.	<input type="checkbox"/> Water quality monitoring reports. <input type="checkbox"/> Environment Protection Licence relinquished by Environment Protection Authority. <input type="checkbox"/> Independent hydrological assessment report.
F3	Water Management Areas	Water Management Area	Surface water	Reinstatement of the sections of creek that are currently piped underground through the CHPP area are stable for final land use and compatible with the surrounding landscape.	Inspection conducted by a suitably qualified person to verify that the final creek alignment is effective and generally in accordance with final landform design.	The final landform contains existing creek and realigned sections through the CHPP area as identified on the final landform plan for the CHPP.	<input type="checkbox"/> Surface water engineering assessment report <input type="checkbox"/> Surface water monitoring results
					Visual - minimal erosion that would not require moderate to significant ongoing management and maintenance works	Visual – indicators of erosional instability and geotechnical instability.	<input type="checkbox"/> Rehabilitation monitoring
					Inspection conducted to verify that the surface layer is free of any hazardous materials.	Surface layer is free of any hazardous materials.	<input type="checkbox"/> Clearance certificate
					Creek alignment in accordance with detailed design prepared by a suitably qualified expert and constructed to design.	Creek alignment designed to prevent interaction with potentially hostile sediments	<input type="checkbox"/> As-built survey
A1 A2 A3 A4 A7	Native Ecosystem	Infrastructure Tailings Storage Facility Water Management Area Overburden Emplacement Area Beneficiation Facility	Surface water	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters selected from Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 and or Environment Protection Licence (further guidance available on NSW Environment Protection Authority website).	<input type="checkbox"/> Water quality monitoring reports. <input type="checkbox"/> Environment Protection Licence relinquished by Environment Protection Authority. <input type="checkbox"/> Independent hydrological assessment report.
B1 B2 B3 B4	Agricultural Grazing	Infrastructure Tailings Storage Facility	Surface water	Runoff water from the rehabilitation areas is not having an adverse downstream impact on	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.	Water quality parameters selected from Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 and or Environment Protection Licence (further guidance available on NSW Environment Protection Authority website).	<input type="checkbox"/> Water quality monitoring reports. <input type="checkbox"/> Environment Protection Licence relinquished by Environment Protection Authority.

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
		Water Management Area Overburden Emplacement Area		downstream water quality	<i>Further refinement of this completion criteria is required.</i>		<input type="checkbox"/> Independent hydrological assessment report.
F3	Water Management Areas	Water Management Area	Water approvals	Structures that take or divert water such as retained dams are appropriately licensed (e.g. under the Water Management Act 2000) and where required ensure sufficient licence shares are held in the water source(s) to account for water take.	Water approvals / licences are granted by relevant NSW Government Agency.	Final landform considers advice from relevant Government Agency whether sufficient licence shares are available in the water source to account for water stored in voids and dams in the proposed final landform.	<input type="checkbox"/> Confirmation from relevant Government Agency that relevant water approvals / licences are able to be granted.
G3	Water Storage	Water Management Area	Water approvals	Structures that take or divert water such as retained dams are appropriately licensed (e.g. under the Water Management Act 2000) and where required ensure sufficient licence shares are held in the water source(s) to account for water take.	Water approvals / licences are granted by relevant NSW Government Agency.	Final landform considers advice from relevant Government Agency whether sufficient licence shares are available in the water source to account for water stored in voids and dams in the proposed final landform.	<input type="checkbox"/> Confirmation from relevant Government Agency that relevant water approvals / licences are able to be granted.
A1 A2 A3 A6 A7	Native Ecosystem	Infrastructure Tailings Storage Facility Water Management Area Underground Mining Area (SMP) Beneficiation Facility	Groundwater	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters selected from Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 and or Environment Protection Licence (further guidance available on the NSW Environment Protection Authority website).	<input type="checkbox"/> independent hydrological assessment report. Depending on the nature, scale and risks associated with a specific site, achievement of criteria may need to be evaluated over a number of years
B1 B2 B3 B4 B6	Agricultural Grazing	Infrastructure Tailings Storage Facility Water Management Area Overburden Emplacement Area	Groundwater	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters selected from Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 and or Environment Protection Licence (further guidance available on the NSW Environment Protection Authority website).	<input type="checkbox"/> independent hydrological assessment report. Depending on the nature, scale and risks associated with a specific site, achievement of criteria may need to be evaluated over a number of years

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
		Underground Mining Area (SMP)					
F3	Water Management Areas	Water Management Area	Groundwater	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters selected from Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 and or Environment Protection Licence (further guidance available on the NSW Environment Protection Authority website).	<input type="checkbox"/> independent hydrological assessment report. Depending on the nature, scale and risks associated with a specific site, achievement of criteria may need to be evaluated over a number of years
G3	Water Storage	Water Management Area	Groundwater	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters selected from Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 and or Environment Protection Licence (further guidance available on the NSW Environment Protection Authority website).	<input type="checkbox"/> independent hydrological assessment report. Depending on the nature, scale and risks associated with a specific site, achievement of criteria may need to be evaluated over a number of years
A1 A2 A3 A6 A7	Native Ecosystem	Infrastructure  Tailings Storage Facility  Water Management Area  Underground Mining Area (SMP)  Beneficiation Facility	Groundwater	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters selected from Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 and or Environment Protection Licence (further guidance available on the NSW Environment Protection Authority website).	<input type="checkbox"/> independent hydrological assessment report. Depending on the nature, scale and risks associated with a specific site, achievement of criteria may need to be evaluated over a number of years
B1 B2 B3 B4 B6	Agricultural Grazing	Infrastructure  Tailings Storage Facility  Water Management Area  Overburden Emplacement Area  Underground Mining Area (SMP)	Groundwater	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters selected from Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 and or Environment Protection Licence (further guidance available on the NSW Environment Protection Authority website).	<input type="checkbox"/> independent hydrological assessment report. Depending on the nature, scale and risks associated with a specific site, achievement of criteria may need to be evaluated over a number of years
F3	Water Management Areas	Water Management Area	Groundwater	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters selected from Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 and or Environment Protection Licence (further guidance available on the NSW Environment Protection Authority website).	<input type="checkbox"/> independent hydrological assessment report. Depending on the nature, scale and risks associated with a specific site, achievement of criteria may need to be evaluated over a number of years
G3	Water Storage	Water Management Area	Groundwater	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar	Water quality discharged from rehabilitated mining operation meet specifications in Environment Protection Licence and/or the criteria determined through closure studies.  <i>Further refinement of this completion criteria is required.</i>	Water quality parameters selected from Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 and or Environment Protection Licence (further guidance available on the NSW Environment Protection Authority website).	<input type="checkbox"/> independent hydrological assessment report. Depending on the nature, scale and risks associated with a specific site, achievement of criteria may need to be evaluated over a number of years

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
				environmental assessments			
A1 A2 A3 A4 A7	Native Ecosystem	Infrastructure Tailings Storage Facility Water Management Area Overburden emplacement area Beneficiation Facility	Ecological rehabilitation	The vegetation composition of the rehabilitation contains species that are commensurate with native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area	Native plant species are characteristic of the target vegetation community(s) when compared to analogue sites.  <i>Further refinement of this completion criteria is required.</i>	Native plant species recorded from 0.04-hectare fixed monitoring plots are characteristic of the target vegetation community (e.g. target PCT)	<input type="checkbox"/> Rehabilitation monitoring reports <input type="checkbox"/> Photos <input type="checkbox"/> Independent ecological monitoring reports that validates completion criteria have been met
				The vegetation structure of the rehabilitation is similar to that of native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area	Cover, abundance and height range of native plant growth forms are characteristic of, or trending towards, the target vegetation community type(s).  <i>Further refinement of this completion criteria is required.</i>	Cover and abundance of plant growth forms recorded from 0.04-hectare fixed monitoring plots are characteristic of the target vegetation community, or an ongoing trend toward becoming characteristic is evident from the monitoring data	<input type="checkbox"/> Rehabilitation monitoring reports <input type="checkbox"/> Photos <input type="checkbox"/> Independent ecological monitoring reports that validates completion criteria have been met
				Levels of ecosystem function have been established to demonstrate the ecosystem is self-sustainable	Litter cover is within 10th-90th percentile variation range of reference sites/data  <i>Further refinement of this completion criteria is required.</i>	Indicators of nutrient cycling are suitable for sustaining the target vegetation community	<input type="checkbox"/> Rehabilitation monitoring reports <input type="checkbox"/> Photos <input type="checkbox"/> Independent ecological monitoring reports that validates completion criteria have been met
					Second generation individuals of trees are within the 10th-90th percentile variation range of reference sites/data approved by the consent authority  <i>Further refinement of this completion criteria is required.</i>	Evidence of plant regeneration from 0.04 hectare fixed monitoring plots or a walk over of the ecological rehabilitation area	<input type="checkbox"/> Rehabilitation monitoring reports <input type="checkbox"/> Photos <input type="checkbox"/> Independent ecological monitoring reports that validates completion criteria have been met
					Foliage cover of 'high threat exotic' (HTE) weeds is within 10th-90th percentile variation range of reference sites/data or at a level that does not cause significant risk to rehabilitation.  <i>Further refinement of this completion criteria is required.</i>	Cover of exotic species within 0.04 hectare fixed monitoring plots is low	<input type="checkbox"/> Rehabilitation monitoring reports <input type="checkbox"/> Photos <input type="checkbox"/> Independent ecological monitoring reports that validates completion criteria have been met
							<input type="checkbox"/>
				Vertebrate pest species – presence and damage is recorded at a level that does not cause significant risk to rehabilitation. Domesticated stock - presence and damage is recorded at a level that does not cause significant risk to rehabilitation.	Threats to rehabilitation	<input type="checkbox"/> Rehabilitation monitoring reports	
B1 B2 B3	Agricultural Grazing	Infrastructure Tailings Storage Facility	Agricultural revegetation	Land use capability is capable of supporting the target final land use	Pasture establishment is in good health and provides adequate cover.	Revegetation is progressing towards a sustainable ecosystem and only requires maintenance that is consistent with the intended final land use.	<input type="checkbox"/> Rehabilitation monitoring report

Spatial Reference	Final Land Use	Mining Domain	Rehabilitation Objective Category	Approved Rehabilitation Objectives	Proposed Rehabilitation Completion Criteria	Indicator	Validation Method
B4 B6		Water Management Area  Overburden Emplacement Area  Underground Mining Area			The re-established topsoil / subsoil substrate is capable of supporting the targeted pasture regime on a sustained basis.  <i>Further refinement of this completion criteria is required.</i>		
B1 B2 B3 B4 B6	Agricultural Grazing	Infrastructure  Tailings Storage Facility  Water Management Area  Overburden Emplacement Area  Underground Mining Area (SMP)	Agricultural revegetation	Agricultural / pastoral revegetation is sustainable for the long term and only requires maintenance that is consistent with the final land use	Pasture establishment is in good health and provides adequate cover. The re-established topsoil / subsoil substrate is capable of supporting the targeted pasture regime on a sustained basis.  <i>Further refinement of this completion criteria is required.</i>	Revegetation is progressing towards a sustainable ecosystem and only requires maintenance that is consistent with the intended final land use.	<input type="checkbox"/> Rehabilitation monitoring report
A1	Native Ecosystem	Infrastructure	Ecological rehabilitation	The vegetation structure of the rehabilitation is similar to that of the riparian zone of native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest found in the local area (applicable to the reinstatement of Bellbird Creek tributary at the CHPP area that is currently piped underground)	Cover, abundance and height range of native plant growth forms are characteristic of, or trending towards, the target vegetation community type(s).  <i>Further refinement of this completion criteria is required.</i>	Cover and abundance of plant growth forms recorded from 0.04-hectare fixed monitoring plots are characteristic of the target vegetation community, or an ongoing trend toward becoming characteristic is evident from the monitoring data	<input type="checkbox"/> Rehabilitation monitoring reports <input type="checkbox"/> Photos <input type="checkbox"/> Independent ecological monitoring reports that validates completion criteria have been met
				The vegetation composition of the rehabilitation contains species that are commensurate with the riparian zone of native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest found in the local area (applicable to the reinstatement of Bellbird Creek tributary at the CHPP area that is currently piped underground)	Native plant species are characteristic of the target vegetation community(s) when compared to analogue sites.  <i>Further refinement of this completion criteria is required.</i>	Native plant species recorded from 0.04-hectare fixed monitoring plots are characteristic of the target vegetation community (e.g. target PCT)	<input type="checkbox"/> Rehabilitation monitoring reports <input type="checkbox"/> Photos <input type="checkbox"/> Independent ecological monitoring reports that validates completion criteria have been met

## 4.2. Rehabilitation Objectives and Rehabilitation Completion Criteria – Stakeholder Consultation

### 4.2.1. Stakeholder Engagement Strategy

Austar has prepared a *Stakeholder Engagement Strategy* to manage consultation through the closure of the Austar Coal Mine. This details Austar’s stakeholders and the strategies used to involve or communicate with them and provides the foundation for working with stakeholders during the closure process. The *Stakeholder Engagement Strategy* is regularly reviewed and revised to reflect the outcomes of technical investigations and the ongoing development of the detailed closure plan as well as the outcomes of ongoing engagement.

### 4.2.2. Summary of Stakeholder Consultation

Rehabilitation objectives were developed in consultation with the Resources Regulator and were approved on 22 August 2023. The approved objectives are listed in **Table 14** and the approval document is included as **Appendix D**.

Since the commencement of closure planning, Austar has regularly consulted with regulatory authorities including Department of Planning, Housing and Infrastructure (DPHI), Resources Regulator, EPA, Cessnock City Council and Crown Lands as well as relevant landholders and the Community Consultative Committee (CCC) regarding mine closure activities.

**Table 15** presents a high-level summary of the key consultation undertaken for the project to date.

**TABLE 15 - CONSULTATION SUMMARY FOR AUSTAR MINE CLOSURE**

Stakeholder	Summary of Engagement
Resources Regulator	Ongoing quarterly update meetings Ongoing 6 monthly closure planning & execution multi-agency workshops undertaken to summarise progress and detail upcoming activities. Participation in targeted assessment programs. Ongoing engagement regarding Rehabilitation Objectives, Completion Criteria and FLRPs.
DPHI	6 monthly closure planning & execution multi-agency workshops undertaken to summarise progress and detail upcoming activities.
EPA	6 monthly closure planning & execution multi-agency workshops undertaken to summarise progress and detail upcoming activities.
Cessnock City Council	Consultation with Cessnock City Council Heritage Officer commenced in June 2022 to discuss heritage studies and strategy.
Crown Lands	Consultation with Crown Lands commenced in June 2022 to discuss rehabilitation and closure activities on Crown Land managed land.
CCC	Ongoing CCC meetings. Since the transition to care and maintenance in 2020, the CCC meetings have been reduced from quarterly to 6-monthly.
Landholders	Meetings with landholders have been undertaken as required. Consultation topics have included noise from short term closure activities, remediation of exploration boreholes, proposed subdivision works adjacent to mine areas requiring rehabilitation.

## 4.3. Completion Criteria Refinement

Austar will continue to refine the completion criteria during mine closure planning in consultation with Resources Regulator and relevant closure stakeholders. The completion criteria for the site will be refined and revised in future revisions of the RMP and be submitted to the Resources Regulator for approval. Updates will consider:

- outcomes of detailed technical studies undertaken during mine closure planning;
- any refinement to the proposed final land use and/or landform;

- government stakeholder expectations following any further consultation with government agencies;
- results of ongoing monitoring programs including rehabilitation and ecological monitoring;
- research and development from relevant industry trials or site experiences; and
- long term sustainability in relation to both landform stability and ecosystem functionality.

## 5. FINAL LANDFORM AND REHABILITATION PLAN

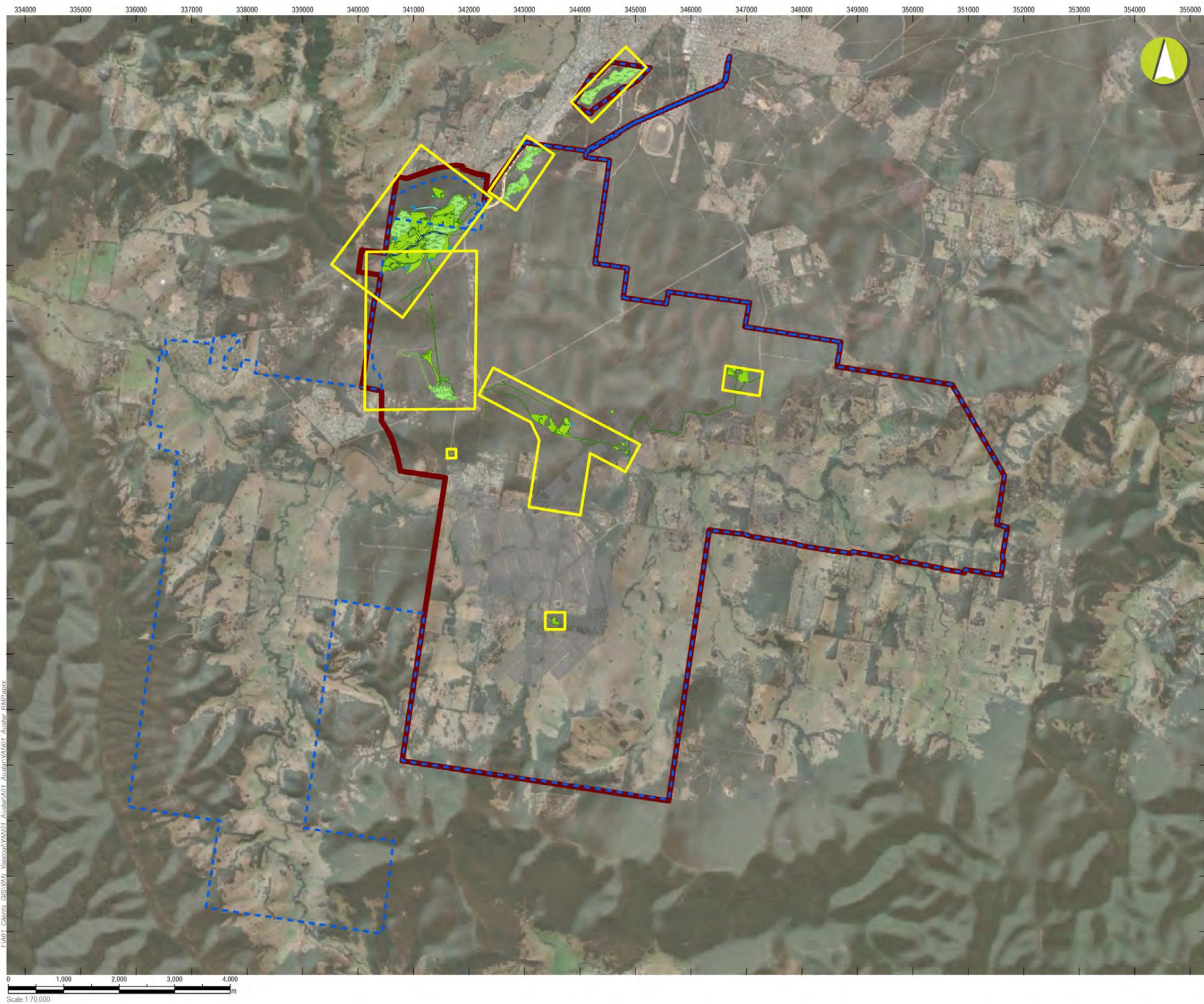
In accordance with the requirements of the *Form and Way: Rehabilitation Management Plan for Large Mines* (RR, 2025a), Final Landform and Rehabilitation Plans (FLRPs) have been prepared to show the proposed final land use and final landform of the Austar Coal Mine Project Area.

The Austar FLRPs were approved by the Resources Regulator on 22 August 2023 (reference FLRP0001155).

As discussed in **Section 1** the site has been divided into discrete CMAs for closure planning purposes. The FLRP Plan 1: Final Landform Features are presented in **Figure 4**. CMA focused inset maps for Plan 1 are included in **Appendix C**. The FLRP Plan 2: Final Landform Contours is presented in **Figure 5**.

In February 2026, Austar submitted a request to the Resources Regulator to update the FLRP to change areas of final land use domains in CMAs 1, 3, 4 and 5 from *Domain B Agricultural – Grazing* to *Domain A - Native Ecosystem*. The reason for this is that these CMAs are surrounded by native forest ecosystem which is expected to encroach upon the rehabilitated footprints. As such a native ecosystem is the best self-sustaining rehabilitation outcome for these areas. The proposed changes remain consistent with Austar's approvals.

The updated FLRPs were submitted to the Resources Regulator for approval in January 2026. The figures presented in this RMP represent the updated final land use domains.



- LEGEND**
- █ Project Approval Boundary
  - - - Colliery Holding Boundary
  - Austar Mine Plan
  - █ Historic workings
  - ▭ Inset Boundaries (see detailed figures)
- Final Landform Feature**
- ▬ Clean water drain
  - ▨ Creepline
  - ▭ Dam
  - ▨ Historical Rail Alignment Corridor
  - ▨ Water Storage
- Final Landuse Domain**
- █ Domain A: Native Ecosystem
  - █ Domain B: Agricultural – Grazing
  - ▨ Domain F: Water Management Areas
  - █ Domain G: Water Storage (Excluding Final Void)

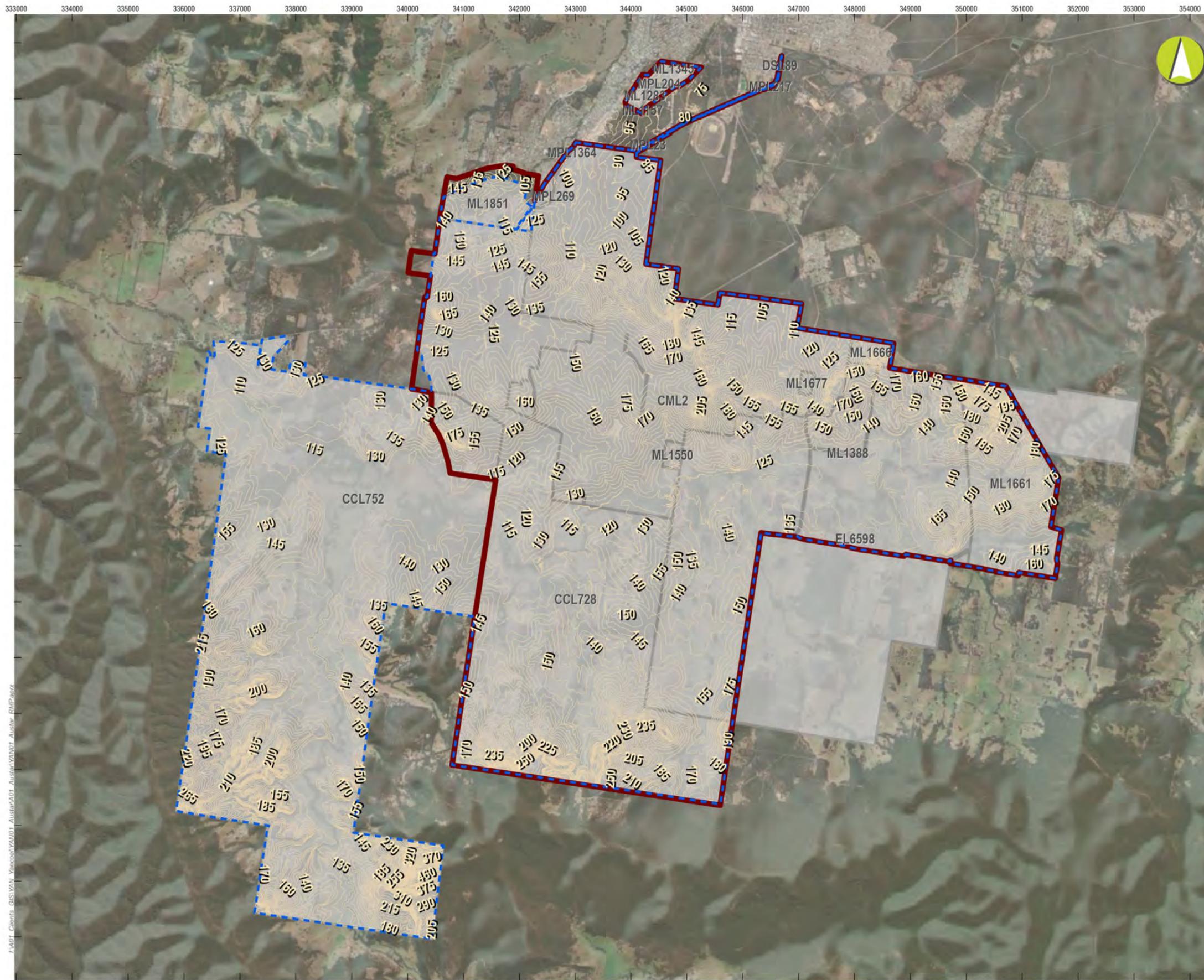
**Austar Coal Mine**

**FLRP PLAN 1:  
Final Landform Features**

**FIGURE 4**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine RMP
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	4/02/2026

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**LEGEND**

- Project Approval Boundary
- - - Colliery Holding Boundary
- Final Landform Contours (5m)
- Current Authorisations**
- Coal - Current Titles

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m  
Scale 1:70,000

**Austar Coal Mine**

**FLRP PLAN 2:  
Final Landform Contours**

**FIGURE 5**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan data (date created)	17/10/2025

## 6. REHABILITATION IMPLEMENTATION

### 6.1. Life of Mine Rehabilitation Schedule

Austar's indicative mine closure schedule (**Figure 6**) outlines the key phases of mine closure, from investigations, approvals and early works through to execution, monitoring, and final lease relinquishment.

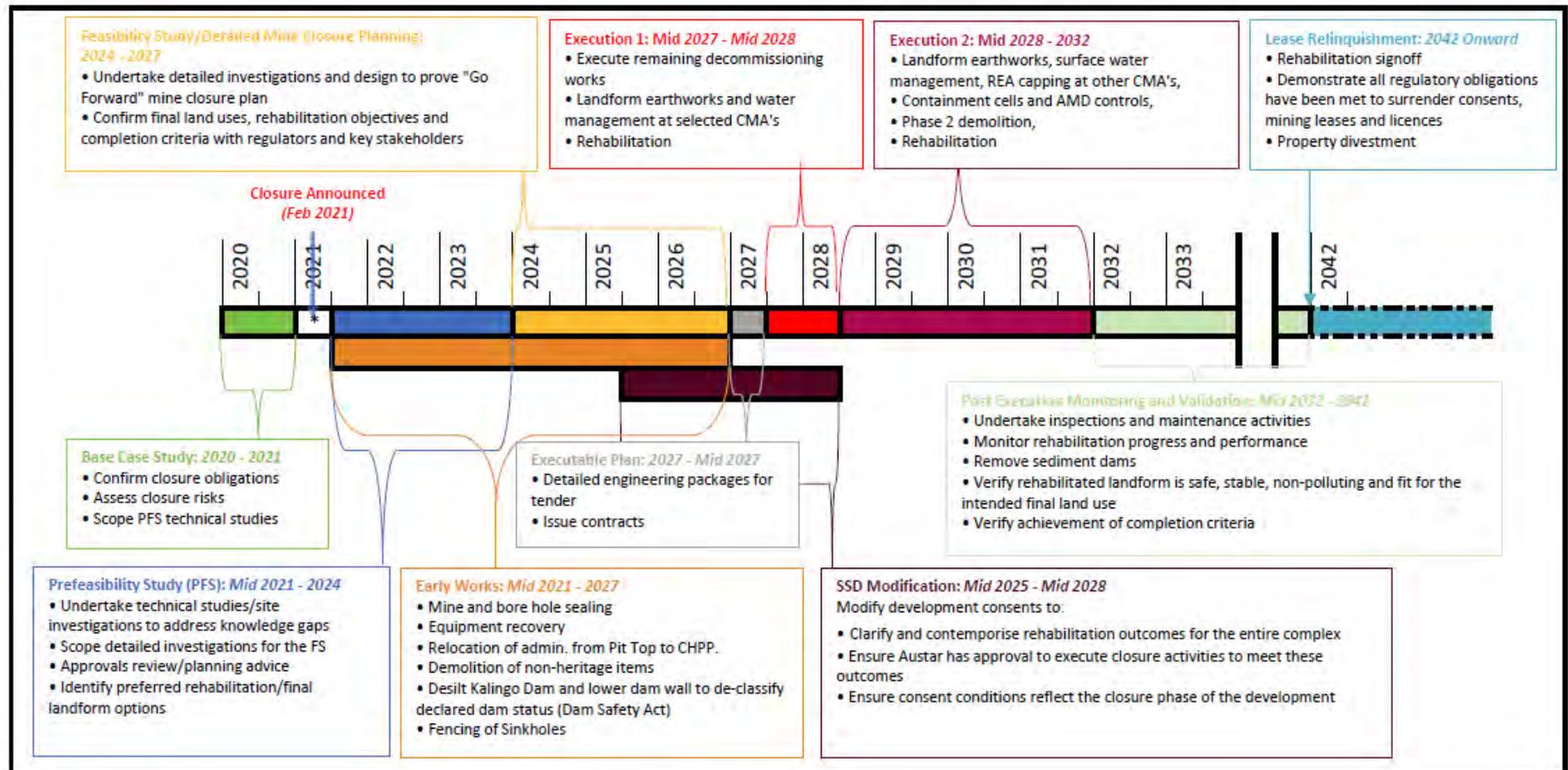
The schedule identifies the approvals pathway required to deliver the improved rehabilitation and mine closure outcomes that are not currently provided for under the existing development consents or the Exempt Development provisions of the Resources SEPP.

Austar is planning rehabilitation and closure works so that Early Works projects, including mine sealing, decommissioning, and demolition of non-heritage infrastructure, can be progressively undertaken, while detailed closure designs and approvals are finalised.

Indicative supporting plans showing progressive rehabilitation are provided in **Figure 7 to 9** at two-yearly intervals. This interval aligns with the key stages of Austar's closure program, including:

- 2025-2027: completion of decommissioning activities across the CMAs that can proceed under existing approvals
- 2027-2029: completion of remaining decommissioning activities and rehabilitation of remote locations (e.g. vent shafts) under existing approvals
- 2029-2031: rehabilitation of remaining mining areas, including rejects and tailings areas and associated access tracks and demolition of heritage items (subject to approval).

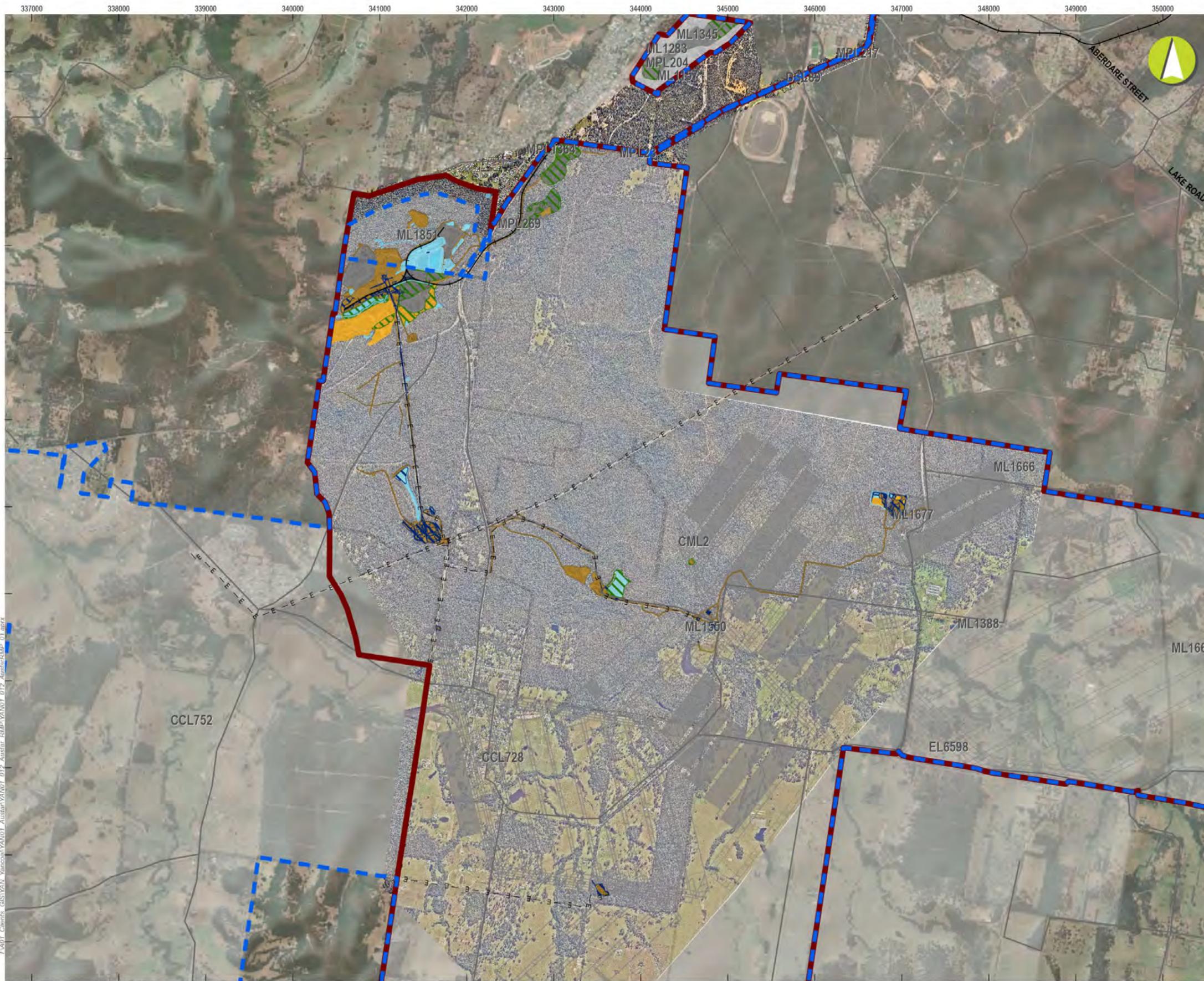
Austar reports progress and provides updates on the status and timing of closure planning and execution activities annually in the Austar Annual Rehabilitation Report and Forward Program.



\* Monitoring requirements prior to relinquishment may change

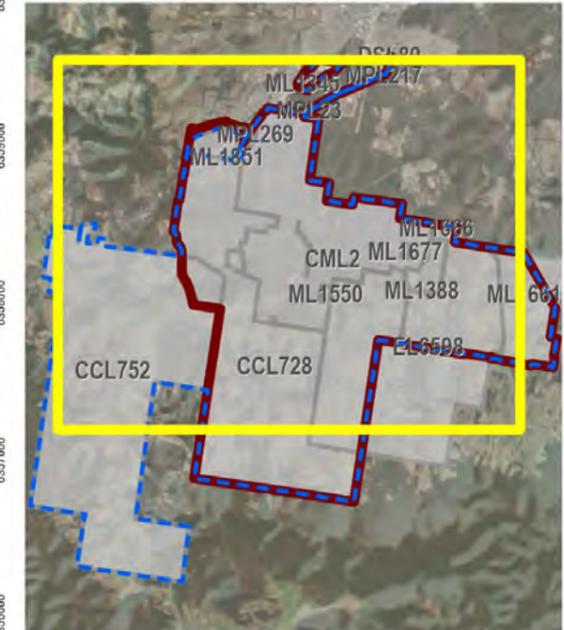
\* Relinquishment may be staged

FIGURE 6 – INDICATIVE CLOSURE PROJECT TIMELINE



**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Austar Mine Plan
- Road
- Railway
- Electricity Transmission Line
- Completed workings
- Current Authorisations**
- Coal - Current Titles
- Rehabilitation Phase**
- Decommissioning
- Ecosystem and Land Use Establishment
- Mining Domain Type**
- Domain 1: Infrastructure Area
- Domain 2: Tailings Storage Facility
- Domain 3: Water Management Area
- Domain 4: Overburden Emplacement Area

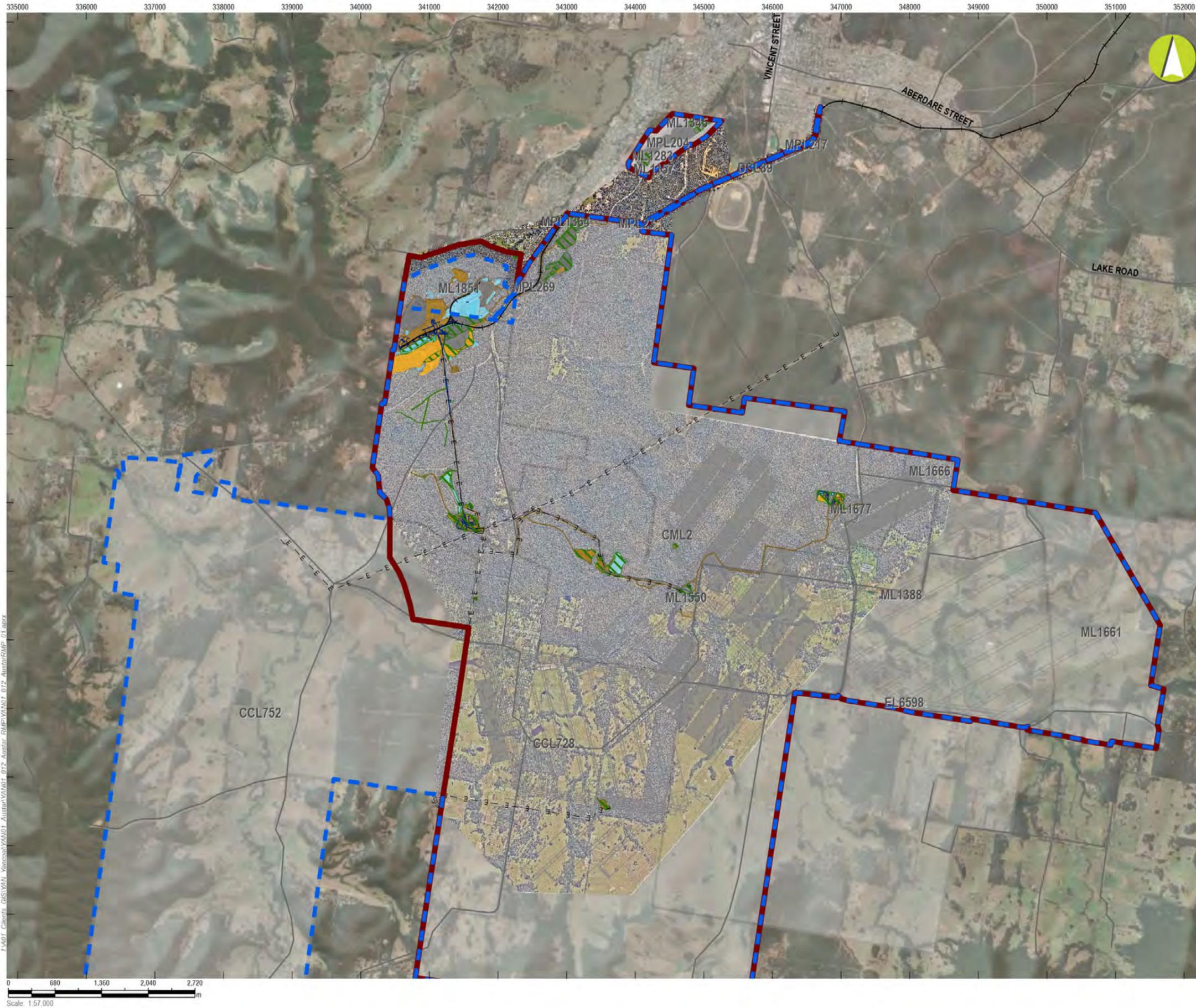


**Austar Coal Mine**

**Life of Mine  
Rehabilitation Schedule FY 2027  
FIGURE 7  
Austar Coal Mine**

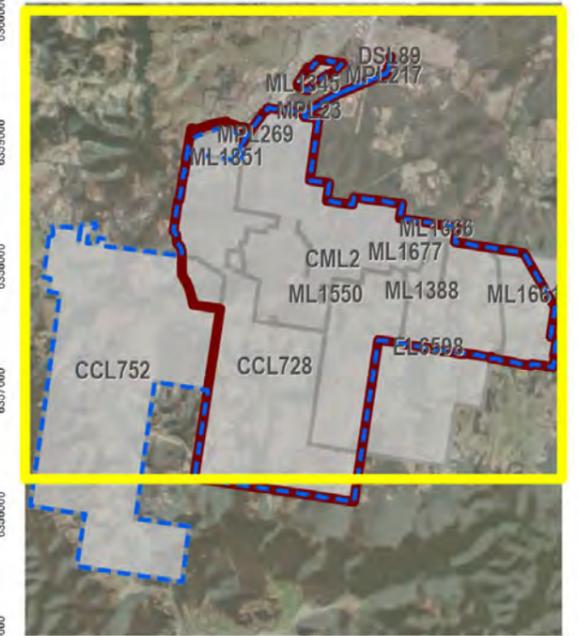
Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on final submission
Data theme submission ID No.	XXXX
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	3/02/2026

Scale: 1:45,000



**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Austar Mine Plan
- Road
- Railway
- Electricity Transmission Line
- Completed workings
- Current Authorisations**
- Coal - Current Titles
- Rehabilitation Phase**
- Decommissioning
- Ecosystem and Land Use Establishment
- Mining Domain Type**
- Domain 1: Infrastructure Area
- Domain 2: Tailings Storage Facility
- Domain 3: Water Management Area
- Domain 4: Overburden Emplacement Area



**Austar Coal Mine**

**Life of Mine  
Rehabilitation Schedule FY 2029  
FIGURE 8  
Austar Coal Mine**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on final submission
Data theme submission ID No.	XXXX
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	3/02/2026



### 6.1.1. Decommissioning of key infrastructure

As shown in **Figure 6**, decommissioning and demolition activities at Austar are scheduled to be delivered in two phases:

- Early Works (2025 to 2027)
- Main Execution (2027 to 2031).

During Early Works, Austar has completed, or is scheduled to complete, the following activities:

- Removal of underground plant, equipment, and services - completed 2022
- Temporary operational shaft sealing (No. 1, 3, 4, 5 and 6 Shafts) - completed 2022
- Permanent sealing of Austar drift (CMA 1) - completed 2022
- Desilting of Kalingo Dam - completed 2024
- Decommissioning and removal of surface equipment - ongoing
- Demolition of redundant non-heritage surface infrastructure
  - CMA 5 – Kalingo Infrastructure Area - in progress, scheduled completion early 2026
  - CMA 2 – CHPP - in progress, scheduled completion early 2026
  - CMA 1 – Pit Top - in progress, scheduled completion 2026
  - CMA 6 – Kitchener SIS - scheduled 2026

Austar will complete the remaining decommissioning and demolition activities during the Main Execution period including:

- Permanent mine sealing
- Demolition of remaining infrastructure, including heritage items under the SSD modification.

Austar will continue to report specific details of planned decommissioning and demolition activities in the Austar Forward Program.

### 6.1.2. Final Landform Establishment

Final landform establishment, including earthworks to construct capped landforms over reject and tailings emplacement areas, and establishment of final landform surface water management features, will be undertaken during the scheduled Execution phase from 2027 to 2031, following completion of detailed designs and receipt of the required approvals.

Where permitted under current approvals, Austar will progress limited landform establishment works during Early Works. For example, decommissioning and rehabilitation of Kalingo Dam is scheduled for 2025-2026.

Austar will continue to report specific details of planned landform establishment activities in the Austar Forward Program.

### 6.1.3. Investigations to address knowledge gaps

Since mine closure in 2021, Austar has focused on undertaking detailed closure planning investigations to address knowledge gaps and define programs of work required to deliver optimum rehabilitation and closure outcomes.

### **Pre-Feasibility Study (Completed September 2023)**

Austar completed a Pre-Feasibility Study (PFS) in 2023 supported by technical studies and site investigations. The PFS:

- Defined the preferred final land uses and conceptual final landforms
- Developed a demolition strategy with consideration of heritage values
- Identified the approvals pathways required to execute closure.

### **Feasibility Study (2024 – mid 2026)**

In February 2024, Austar commenced a Feasibility Study (FS) to address recommendations of the PFS specialist studies, prove up the preferred go-forward options and refine the conceptual landform designs and final land use(s).

Austar is completing the following technical studies in the FS:

- Geotechnical, geophysical and geochemical studies to advance rejects and tailings management, and landform and capping designs.
- Material characterisation investigations to confirm that adequate volumes of suitable capping material are available on site.
- Geotechnical studies to improve the understanding of mine subsidence (land stability) hazards including sinkholes and confirm historic mine entry sealing requirements.
- Hydrological assessments to inform the development of the final landform and the transition from a closed mine water catchment to a free draining rehabilitated landform.
- Contamination studies to inform management and disposal of contaminated materials.

Detailed landform designs will be developed based on the outcomes of these assessments.

The FS is scheduled for completion in 2026.

### **SSD Modification (2025 – Mid 2028)**

In parallel with the FS, Austar is preparing an SSD modification supported by detailed technical studies to:

- Clarify and contemporise rehabilitation outcomes for the entire complex
- Enable execution of closure activities, including demolition of heritage items and final landform establishments
- Ensure consent conditions reflect the closure phase of the development.

Approval of the SSD modification is the critical enabling step for execution of the remaining decommissioning, demolition, and rehabilitation works. Austar's schedule assumes approval of the SSD Modification by mid-2028 following which closure works will be implemented in accordance with the approved designs.

#### **6.1.4. Assumptions and Principles for Progressive Rehabilitation**

The rehabilitation schedule is based on the following key principles and assumptions:

- Major rehabilitation will not start until closure studies are complete and detailed designs have been prepared and approvals are in place.

- During Early Works, Austar will focus on activities that can proceed under existing approvals, such as surface clean-up, sealing of mine entries, and demolition of non-heritage structures.
- The schedule assumes timely approval of the SSD Modification. Any delay will directly affect the start and finish times of the execution phase.

### 6.1.5. Justification for delays

Large-scale rehabilitation cannot begin until the required studies, detailed designs, and approvals are complete. This ensures all major works are properly planned and technically sound.

Until approval of the SSD modification is obtained, Austar’s ability to undertake significant progressive rehabilitation is limited.

During this period, Austar will continue closure investigations, approvals, and preparatory works to ensure that, once approval is granted, remaining decommissioning, demolition, and rehabilitation activities can be executed efficiently and without unnecessary delay.

## 6.2. Phases of Rehabilitation and General Methodologies

The final land use objectives will be achieved through a series of conceptual rehabilitation phases. As defined by the *Form and Way: Rehabilitation Management Plan (large mines)* (RR 2025) the rehabilitation phases are presented in **Table 16**.

**TABLE 16 - REHABILITATION PHASES**

Phase	Description
Active Mining	<p>Activities undertaken during mining operations such as land clearing, salvaging and managing soil resources, salvaging habitat resources, and native seed collection.</p> <p>This phase also includes management actions taken during operations to manage risks to rehabilitation and enhance rehabilitation outcomes such as selective handling of waste rock and management of tailings emplacements.</p>
Decommissioning	<p>This phase includes activities associated with the removal of mining infrastructure and removal and/or remediation of contaminants and hazardous materials.</p> <p>This phase of rehabilitation may also include studies and assessments associated with decommissioning and demolition of infrastructure or works carried out to make safe or ‘fit for purpose’ built infrastructure to be retained for future use(s) following lease relinquishment.</p>
Landform Establishment	<p>This phase of rehabilitation consists of the processes and activities required to construct the approved final landform.</p> <p>In addition to profiling the surface of rehabilitation areas to the approved final landform profile this phase may include works to construct surface water drainage features, encapsulate problematic materials such as tailings, and prepare a substrate with the desired physical and chemical characteristics (that is, rock raking or ameliorating sodic materials).</p>
Growth Medium Development	<p>This phase of rehabilitation consists of activities required to establish the physical, chemical and biological components of the substrate required to establish the desired vegetation community (including short-lived pioneer species) to ensure achievement of the rehabilitation objectives and completion criteria.</p>

Phase	Description
	This phase may include spreading the prepared landform with topsoil and/or subsoil and/or soil substitutes, applying soil ameliorants to enhance the physical, chemical and biological characteristics of the growth media, and actions to minimise loss of growth media due to erosion.
Ecosystem and Land Use Establishment	This phase of rehabilitation consists of the processes to establish the approved final land use following construction of the final landform.  For vegetated land uses this rehabilitation phase includes establishing the desired vegetation community and implementing land management activities such as weed control.
Ecosystem and Land Use Development	This phase of rehabilitation consists of the activities to manage maturing rehabilitation areas on a trajectory to achieving the rehabilitation objectives and completion criteria.  For vegetated land uses this phase may include processes to develop characteristics of functional self-sustaining ecosystems, such as nutrient recycling, vegetation flowering and reproduction, and increasing habitat complexity, and development of a productive, self-sustaining soil profile. This phase of rehabilitation may include specific vegetation management strategies and maintenance such as tree thinning, supplementary plantings and weed management.
Rehabilitation Completion (sign off)	The final phase of rehabilitation when a rehabilitation area has achieved the final land use for the mining area and met the rehabilitation objectives and completion criteria.  Rehabilitation areas may be classified as complete when the NSW Resources Regulator has determined in writing that rehabilitation has achieved the final land use following submission of the relevant application by the lease holder

### **6.2.1. Active Mining Phase**

Austar commenced the transition from care and maintenance to closure in February 2021. As such, there is no active mining undertaken at the site.

For the purpose of this RMP, the active mining phase has been considered as it relates to active closure works and rehabilitation and closure activities, as well as the ongoing management of remaining disturbance areas.

#### **6.2.1.1. Soils and Materials**

Soil types over the underground mining areas were identified in:

- the Stage 3 Modification 2 Environmental Assessment (Umwelt, 2011);
- LWB1-B3 Modification 6 Environmental Assessment (Umwelt, 2015); and
- LWB4-B7 Modification 7 Environmental Assessment (Umwelt, 2017).

This information has been used to assist in the management of any topsoil reserves onsite and the management of any ground disturbance works (with respect to the erosion potential of exposed soils).

It is acknowledged that Austar has limited stockpiled and salvageable topsoil resources and will have a deficit of growth medium available for final rehabilitation works. Austar are undertaking rehabilitation trials and developing a growth media strategy to identify and assess alternative growth media products as part of FS.

During PFS, Austar undertook extensive site investigations to review materials currently available onsite suitable for use in capping and rehabilitation activities at the site. The aim of the investigations was to provide preliminary information on subsurface conditions across each CMA, in particular:

- Depth of and nature of fill at test locations.
- Combustibility of the existing coal reject and emplaced material.
- Potential of subsurface material for re-use as capping material.
- Geochemical parameters (ie potential for acid generation).

The investigation included the drilling of boreholes, the excavation of test pits and laboratory testing of selected samples from approximately 300 sample locations across CMAs 1-8.

Potential sources of suitable capping material were identified on the site including:

- **Sandy Gravel Fill (Unit 1.1):** Generally surficial fill comprising sandy gravel or gravelly sand.
- **Mixed Fill (Unit 1.2):** Generally comprising sandy clay, clayey sand, or silty sand.
- **Overburden Fill (Unit 1.3):** Generally gravel or clay within emplacements.
- **Residual clay (Unit 4):** Generally brown or grey silty clay or sandy clay.
- **Weathered bedrock (Unit 5):** Extremely weathered bedrock to very low strength weathered bedrock or stronger.

The PFS conceptual final landform designs and associated material balance were prepared with reference to these findings. The PFS material balance indicated that existing overburden emplacements and stockpiles do not contain sufficient capping material to meet all requirements for the capping of tailings dams and reject emplacement areas. To address this shortfall, additional onsite sources (borrow areas) have been identified. The preferred approach is to develop two borrow pits in CMA 2 and 8 to extract suitable capping material; these borrow pits will subsequently be converted into permanent detention dams to provide flood mitigation for Bellbird Township.

During FS, Austar is progressing additional investigations to confirm suitability and material characteristics of the identified borrow areas (including assessment of soil and geotechnical properties). Austar has commenced the SSD modification process to obtain relevant approvals for the sourcing of capping material from proposed borrow areas.

Austar has a Rehabilitation Operations Manual that guides effective topsoil management practices to preserve this resource.

#### **6.2.1.2. Flora**

##### **Vegetation Clearing**

As there will be no further underground mining at Austar, there will be no planned clearing of vegetation or ground disturbance relating to the mining process. However, minor clearing may be required to execute the planned rehabilitation and closure activities and to undertake required technical studies to inform mine closure. Vegetation clearing during closure activities will be managed in accordance with the Austar Work Permit and pre-clearance procedures. The Work Permit procedure requires that:

- prior to any ground disturbance taking place, a Work Permit must be approved;
- an archaeological and ecological due diligence assessment of the area must be carried out before work commences and any recommendations be incorporated into the Work Permit as control measures;
- erosion and sediment controls and rehabilitation requirements are considered;

- work must be carried out in accordance with these control measures; and
- work areas must be demarcated and work is not permitted outside of these boundaries as defined in the Work Permit.

Any significant vegetation clearing required to execute closure (ie for the construction of borrow areas) will be considered and assessed as part of the SSD modification application.

### **Seed Collection and Management**

Austar has commenced an endemic seed collection program to establish a seed storage bank for future rehabilitation activities. The focus of the endemic seed collection program has been within local Spotted gum – Ironbark forests on Austar owned land in proximity to areas requiring rehabilitation.

All seed collection, cleaning and storage is carried out by an experienced contractor in accordance with the NSW Government Florabank Guidelines (Florabank 2022).

During FS, Austar will confirm seed mixes for rehabilitation execution including required volumes / quantities.

### **Weed Management**

Austar currently engages a suitably qualified and experienced contractor to undertake weed control activities and develop an annual weed action plan. Ongoing weed management is undertaken per the Weed Action Plan on an as needs basis.

## **6.2.1.3. Fauna**

### **Habitat Clearing**

Any clearing required during rehabilitation and closure activities will be undertaken in accordance with the Work Permit procedure summarised in **Section 6.2.1.2**. The ecological due diligence assessment undertaken for the Work Permit will identify:

- potential habitat features located within proposed disturbance areas (such as hollow-bearing trees) that may require special management during clearing;
- habitat features that can be salvaged for reuse in rehabilitation areas or in adjoining non-disturbed native vegetation areas;
- active nesting/roosting sites that may require active management prior to or during disturbance to minimise impacts on those fauna species; and
- threatened species that may be affected by the proposed disturbance.

The recommendations from the ecological due diligence report are included as conditions in the Work Permit.

### **Pest Management**

In accordance with the *Local Land Services Act 2013*, Austar is required to control declared pest species on their land. Species currently declared pests in NSW that are potentially relevant to Austar include wild rabbits, wild dogs, feral pigs, and foxes.

During closure activities, Austar will continue to implement control actions to assist in the management of these species as necessary. Control actions may include baiting or trapping and will be conducted in consultation with the Local Land Services Offices where required. Due to the proximity of local landholders, baiting would not be conducted where there is a risk of harm to domestic pets.

#### 6.2.1.4. Rock/Overburden Emplacement

Stockpiled overburden from old open cut operations will be used as a source of capping material and as a growth medium where appropriate. West Pit Open Cut is Austar's key overburden emplacement area and a potential onsite source of capping material with up to 210,000 m<sup>3</sup> of available material identified. Additional investigations are being undertaken during FS to confirm volumes and suitability of overburden material in the West Pit Open Cut.

As stated in **Section 6.2.1.1**, PFS investigations indicate that insufficient capping material is available within existing overburden emplacements and stockpiles to provide all the fill required for capping of tailings dams and reject emplacement areas. The development of two borrow pits in CMA 2 and 8 is proposed to win capping material (subject to SSD modification approval). Further work is being undertaken in FS to confirm alternative material sources.

#### 6.2.1.5. Waste Management

Austar has prepared a Closure Waste Management Plan (CWMP) to identify closure specific waste streams and investigate waste management options to optimise rehabilitation and closure outcomes and cost efficiencies while aligning with sustainability principles by reducing waste generation, transportation impacts, and minimising the need for imported resources.

The CWMP identifies non-mineral wastes likely to be generated during decommissioning and demolition, management/disposal options and opportunities for beneficial reuse of material for rehabilitation activities. In particular, the following materials are proposed for mine shaft filling (subject to suitability):

- Recovered railway ballast;
- Aggregate (general demolition waste, i.e. concrete and brick); and
- Recovered asphalt pavement.

Austar have informed the EPA of the intent to beneficially re-use these materials for shaft filling and will implement a due diligence approach to demonstrate that regulatory and environmental obligations will be met.

During demolition, hazardous materials will be removed by a licenced contractor and disposed to a licenced facility.

Contamination assessments have not identified any gross contamination of soils which requires specific management in closure. Any contaminated soils identified during demolition will be classified and either managed in the onsite emplacement areas or disposed at a licenced offsite facility.

Mineral wastes and removed dam sediments will be disposed to the approved emplacement areas and capped along with reject and tailings material in the final landform.

All waste management is undertaken by a licensed waste management contractor who provides information to Austar regarding wastes removed each month. In addition, the licensed waste management contractor also undertakes waste tracking in accordance with the *Protection of the Environment Operations (Waste) Regulation 2005*.

Waste contractors undertake regular inspections of waste bins, oil storage areas and spill kits and report any issues to Austar staff. If cross-contamination is an ongoing issue, or a waste improvement opportunity is identified, employees and contractors can be educated through toolbox talks and inductions. There will be no change to waste management practices during closure.

### 6.2.1.6. Geology and Geochemistry

In accordance with Austar's development consents, Austar has several approved areas which may be utilised for waste rock and reject emplacement. These areas include:

- CMA 2 - East Open Cut Void (unrehabilitated);
- CMA 2 - West Open Cut Emplacement Area (unrehabilitated);
- CMA 7 - Aberdare Extended Reject Emplacement Area (partially rehabilitated); and
- CMA 8 - Area 12 and Area 13 (rehabilitated).

Tailings at Austar have been disposed at:

- CMA 2 - No. 9 Tailings Dam.
- CMA 2 - NW Tailings Dam; and
- CMA 1 and 2 - Underground workings.

Given the historical land use at each of the CMAs, the greatest geochemical risk across the site is centred around these areas. Geochemical risk is related to the potential for generation of acid, metalliferous and/or saline drainage and is discussed further in **Section 6.2.1.8**.

The Austar PFS conceptual final landform designs have been developed to manage all reject and tailing material and includes the capping / encapsulation of all geochemically adverse material within emplacement areas. Proposed capping of tailings and rejects emplacement areas is detailed in **Section 6.2.3.3**.

Further assessment is being undertaken in FS to refine the basis of capping and landform design to ensure that geochemically adverse material is appropriately managed.

### 6.2.1.7. Material Prone to Spontaneous Combustion

#### Underground Spontaneous Combustion

Underground spontaneous combustion monitoring is no longer required or being carried out at Austar as the mine has now been fully sealed. The sealing of the mine has effectively mitigated the risks associated with spontaneous combustion by isolating the underground environment from external oxygen sources and stabilising conditions. As a result, the Austar Mine Closure Spontaneous Combustion Principal Hazard Management Plan (MCSCPHMP) and associated monitoring and management activities have been concluded, as they are no longer necessary in the sealed mine environment.

#### Surface Spontaneous Combustion

The PFS detailed site investigation program assessed the closure risks of combustibility of the coal reject and emplaced material.

The risk of spontaneous combustion from coal reject material has been assessed as low across all CMAs. However, there is a risk of combustion from external sources in some CMAs. PFS concluded the following:

- CMAs 1, 3, 4, 5, and 6 have a low risk of combustion (spontaneous and from external sources), and no further measures are required.

- CMAs 2, 7, and 8 also have a low risk of spontaneous combustion but pose a risk of combustion from external sources. For these areas, a suitable capping layer is required to mitigate this risk. Additional measures such as compaction, limiting slopes, and avoiding the planting of large trees on capping material are also recommended.

The Austar PFS conceptual final land form designs and capping arrangements have been developed to include appropriate capping layers over the coarse rejects in CMAs 2, 7, and 8 and maintaining risk minimisation measures in line with best practices. Conceptual landform designs are discussed in **Section 6.2.3**.

#### **6.2.1.8. Material Prone to Generating Acid Mine Drainage**

During PFS, Austar completed a Geochemical Assessment to gain an understanding of the geochemical risk across the Austar CMAs as it relates to the management of potentially acid forming (PAF) material, including coarse coal rejects and tailings.

The Geochemical Assessment concluded that CMAs 1, 3, 4, 5 and 6 were a relatively low risk of generating acid, metalliferous and/or saline drainage.

Sampling results from CMAs 7 and 8 confirmed the presence of PAF material. In CMA 2, the areas where coarse rejects and/or tailings are stored returned the highest risk of generating acid, metalliferous and/or saline drainage. These include No. 9 Tailings Dam, the Noise Bund, the North-West Tailings Dam, the Precipitate Dam, the Product Stockpile, the ROM Stockpile, and the Stormwater Retention Dam.

The Austar PFS conceptual final land form designs have been developed to manage reject and tailing material, and includes the capping / encapsulation of all PAF material within emplacement areas. Proposed capping of tailings and rejects emplacement areas is detailed in **Section 6.2.3.3**.

Further assessment is being undertaken in FS to refine the basis of capping and landform design to ensure that PAF material is appropriately managed.

#### **6.2.1.9. Ore Beneficiation Waste Management (Reject and Tailings Disposal)**

There will be no further reject or tailings generated from mining activities. The management and rehabilitation of current reject and tailings emplacements have been described in Sections 6.2.1.6 to 6.2.1.8 above.

In accordance with Schedule 2, Condition 7 of MP 08\_0111 Austar is permitted to transport a maximum of 60,000 tonnes of coal (including coal reject) per calendar year from the mine complex by road. As part of closure planning, Austar is reviewing options to reprocess and export beneficially reused tailings and rejects material offsite. Any reprocessing or offsite transport of material will be undertaken in accordance with relevant approval conditions.

#### **6.2.1.10. Erosion and Sediment Control**

As Austar progresses through closure, it is expected that additional surface disturbance will be minimal. Some disturbance will be required through the clearing of tracks and work areas required for intrusive site investigation studies, which are required as part of the closure studies, or mine closure activities (e.g. mine sealing and demolition).

Erosion and sedimentation in areas disturbed by mining activities are managed through:

- The Austar Site Water Management Plan, which includes the details of the water management structures on site and the Erosion and Sediment Control Plan;

- The Work Permit process, utilised at Austar prior to any clearance or ground disturbance activities, which identifies appropriate erosion and sediment controls to be established prior to the commencement of any works; and
- Erosion and sediment control requirements for the surface area above the underground mining areas, which was managed in accordance with a Land Management Plan included as part of an Extraction Plan for the specific mining area. There are no control devices still in place in these areas.

As part of periodic maintenance activities, sediment is removed from site water management structures to maintain their capacity. For mine water dams (e.g. Kalingo Dam, Austar Dam), the sediment is disposed at approved emplacement areas. For clean water sediment basins (e.g. Kitchener SIS), the sediment may be dried within the area that the sediment basin treats, prior to being used in landscaping at that site or disposed of in emplacement areas in accordance with mining lease conditions.

Erosion and sedimentation remain potential environmental risks during closure. Austar will continue to implement the Erosion and Sediment Control Plans and Land Management Plans to control erosion and sedimentation.

The PFS conceptual final landform design includes a conceptual post closure surface water design as well as conceptual layouts for water management structures to manage surface water during closure execution. During FS, the final landform design will be refined, including development of ongoing erosion and sediment control plans for closure execution and progression to the final landform.

Across all CMAs, proactive management of sediments and embankments, coupled with further investigations where necessary, will ensure effective closure outcomes that mitigate environmental risks and achieve long-term landform stability.

#### **6.2.1.11. Ongoing Management of Biological Resources for Use in Rehabilitation**

Austar currently manages biological resources for use in rehabilitation through the Work Permit process, as detailed in **Section 6.2.1.1** and **Section 6.2.1.2**. Resources are salvaged during clearing and used as required in rehabilitation. Topsoil reuse in rehabilitation is detailed in **Section 6.2.4**. As Austar is a closed mine, there is generally minimal topsoil stripping or stockpiling currently required.

#### **6.2.1.12. Mine Subsidence**

Underground mining at Austar has now ceased. A final subsidence survey was undertaken in February 2021, and the results were analysed by Mine Subsidence Engineering Consultant (MSEC). The report concluded that the ongoing long-term residual subsidence effects are expected to be very small and unlikely to result in adverse physical impacts on the natural environment. MSEC considers that ground monitoring could be ceased as the ongoing subsidence is expected to be very small and similar to the order of natural ground movements and survey tolerance.

While Austar managed subsidence over the more recent longwall mining areas during operations in accordance with the relevant extraction plans and subsidence management plans (SMPs) there is a long history of surface impacts (such as sinkholes) above historic (bord and pillar) mining areas, most of which have occurred in (or around) CMA 7 and CMA 8. Repair works of sinkholes in historic, non-active mining areas will continue to be undertaken in consultation with Subsidence Advisory NSW.

Further assessment is being undertaken in FS to guide landform design, and mitigation and management measures relating to sinkholes in historic mining areas.

### 6.2.1.13. Management of Potential Cultural and Heritage Issues

An Aboriginal Cultural Heritage Management Plan (ACHMP) and Historic Heritage Management Plan (HHMP) have been developed and implemented at Austar. Both documents provide the process for the management of known sites and unexpected finds. Sites may be identified through rehabilitation activities such as topsoil stripping and are to be appropriately managed according to the ACHMP and HHMP.

Heritage impacts remain a potential environmental risk during closure. Austar will continue to implement the ACHMP and HHMP including managing known and unknown sites identified during ground disturbance works.

#### Aboriginal Cultural Heritage

Before any ground disturbance occurs at Austar, a Work Permit must be completed. As part of the Work Permit process, an archaeological due diligence assessment of the area must be carried out before work commences and any recommendations are incorporated into the Work Permit as control measures. All unexpected finds will be managed per Austar's Unexpected Finds Protocol.

#### Historic Heritage

Given the long history of mining, areas of the Austar colliery holdings have been identified as having local heritage values and there are two relevant heritage Items listed in the Cessnock Local Environmental Plan (LEP) 2011:

- Item I212 (South Maitland Railway System).
- Item I215 (Collieries of the South Maitland Coalfields/Greta Coal Measures).

Early works demolition of non-heritage significant structures will take place within, or in the vicinity of these items.

When demolition is undertaken in the vicinity of any heritage significant item, appropriate controls will be adopted to avoid impacts (including signage, demarcation and physical protection).

It is noted that a development consent modification is required for the demolition or modification of any building or structure within the curtilage of the heritage listing which is assessed as forming part of the heritage item. Austar has commenced the SSD modification process to obtain relevant approvals for the demolition of heritage structures. Austar will continue to consult with relevant agencies regarding the findings of the heritage assessments and the demolition of heritage items as part of the approvals process.

### 6.2.1.14. Exploration Activities

Austar is no longer operational. Any future exploration activities will be for the purpose of mine closure studies. Any boreholes drilled during closure studies will be sealed in accordance with *EDG 01 'Borehole Sealing Requirements on Land'* or similar.

While exploration boreholes drilled by Austar have been rehabilitated and signed off by the Resources Regulator as completed, there are a number of service boreholes and historic exploration boreholes that require sign off prior to lease relinquishment. As part of PFS, an audit on the status of these boreholes has been undertaken.

Austar has identified a total of 373 exploration boreholes of which rehabilitation is required or has in the past been completed. Austar has lodged rehabilitation completion forms for 135 boreholes. 43

boreholes have been approved, and forms for 104 boreholes were lodged in this reporting period which are pending approval.

During Early Works, Austar will progressively undertake the rehabilitation of the historic exploration boreholes where required.

### **6.2.2. Decommissioning**

Decommissioning is the removal of the infrastructure associated with mining activities including preparation plants, hardstand areas, buildings and associated foundations near surface, contaminated materials, and hazardous materials.

During Early Works, Austar will progressively undertake decommissioning and demolition of redundant, non-heritage mining infrastructure in accordance with development consent conditions or under the exempt development provisions of the Resources SEPP.

#### **6.2.2.1. Site Security**

Site security and public safety have been identified as potential risks during decommissioning. Reduced activities on site have the potential to attract trespassing/theft/vandalism leading to asset damage, environmental impacts, or personal injury.

The mine site is fenced, clearly signed and patrolled by security contractors and mine personnel. There is video surveillance of infrastructure areas and unauthorised access to the site is prohibited. Austar may consider additional security measures from time to time to deter unauthorised access, such as increasing security patrols and installing additional fencing and signage in problem areas.

A safety management plan has been developed by Austar's demolition contractor to detail safety controls specific to hazards associated with the decommissioning of infrastructure areas.

#### **6.2.2.2. Infrastructure to be Removed or Demolished**

Austar is progressively undertaking Early Works decommissioning and demolition (including removal for sale / reuse) of redundant 'non-heritage significant' equipment, infrastructure, buildings and structures, including:

- Decommissioning and/or removal of buried electricity and data services and potable water pipelines;
- Decommissioning and/or removal of aboveground conveyors, gantries, and electricity services;
- Demolition (including removal for sale / reuse) of redundant infrastructure and buildings;
- Demolition of the coal handling and preparation plant (CHPP) and associated coal handling and processing infrastructure;
- Dismantling and removal of mine water management system including pumping infrastructure, mine water pipelines, and boreholes; and
- Decommissioning and rehabilitation of the Kalingo Dam.

Early works demolition of non-heritage significant items is being undertaken in CMA 1, CMA 2, CMA 3, CMA 4 and CMA 5.

The Early Works demolition program does not include any structures of heritage significance.

## Demolition Staging and Sequencing

Early works demolition commenced in March 2025 and is scheduled to be completed in mid-2026.

The general staging and sequencing of the demolition works are outlined below:

- Preliminaries
  - Mobilisation, site establishment and amenities supervision and management;
  - Installation of site signage
  - Demarcation of heritage structures to be protected from damage or disturbance
- Civil works
  - Site access and bunding
  - Earthworks associated with in ground demolition
- Demolition works
  - Removal of Asbestos Containing Materials (ACM) and other hazardous materials as determined in the Hazardous Material report
  - Environmental cleaning, degassing and flushing of the plant and equipment where required
  - Demolition of above ground structures and below ground structures to a below surface level finish of 1 m. This will include
    - CHPP Buildings
    - Conveyors, Transfer Stations, Bins and associated Equipment
    - Hoppers
    - Thickener
    - Concrete Tanks
    - Miscellaneous Minor Structures
    - Services within footprint of structures
  - Redundant Mining Infrastructure Demolition
    - Miscellaneous Mining Infrastructure Scrap
  - Mechanical Processing of Steel Scrap
  - General Plant Operations
  - Waste management and disposal.
- Demobilisation

Any hazardous materials identified during pre-demolition intrusive hazmat surveys will be logged in Austar's hazardous materials register and removed. Any waste generated from the demolition will be segregated and tracked as per the Construction Waste Management Plan (refer **Section 6.2.1.5**). Inert demolition waste proposed for shaft filling will be segregated, sampled to confirm suitability and stockpiled prior to placement in shafts.

Austar currently has a waste contract in place for the regular transportation of waste to a licensed offsite facility. Spill kits are available for use in accordance with Austar's spill response procedure in

the event of a spill. Where decommissioning activities take place outside of Austar's water management system, localised environmental controls will be installed before the commencement of works.

### **6.2.2.3. Buildings, Structure and Fixed Plant to be retained**

Austar is committed to removing all surface infrastructure. However, heritage buildings onsite may be retained. Austar has completed heritage assessments for known and potential historic heritage items to guide retention/demolition decisions.

Structural assessments of the heritage buildings have been completed by a qualified engineer to identify safety risks associated with the retention of heritage structures. Recommendations of the structural assessment are being implemented to ensure heritage items are safe until such a time as approvals are obtained for their removal.

Heritage items are demarcated to prevent damage during decommissioning and demolition activities.

All Austar employees and contractors are educated on heritage aspects during the induction process. Regular toolbox talks are also carried out. If required, Austar will develop a strategy for the ongoing responsibility of any retained heritage structures.

Austar has commenced the SSD modification process to obtain relevant approvals for the demolition of heritage structures.

### **6.2.2.4. Management of Carbonaceous/Contaminated Material**

To date, no significant areas of contaminated land have been identified at Austar.

PFS Contamination Assessments indicated the general absence of gross contamination (at the locations and depths tested) for all CMAs. It is considered that the management of contamination issues as part of the overall site rehabilitation (including through AMD controls) is an appropriate strategy.

Further contamination assessments are being undertaken in FS to refine the conceptual site model (CSM) and ensure any identified contaminated material is appropriately managed. Austar have developed a Contamination Unexpected Finds Protocol to inform the management of any contaminated material which may be exposed during the early works demolition program.

During decommissioning, the contamination resulting from environmental incidents (e.g. spills) and areas of high risk associated with hydrocarbon storage infrastructure will be maintained and appropriately managed (e.g. remediated or disposed of off-site by an authorised waste contractor) as soon as possible after they occur. Monthly environmental inspections will continue to be undertaken by site personnel throughout the closure phase to identify and manage any potential contamination prior to mine closure works.

Contamination remains a potential environmental risk during closure. Austar will continue to undertake routine inspections of surface infrastructure areas where hydrocarbons or chemicals were used, including the CHPP, workshops and fuel storage areas.

Following decommissioning and demolition activities, Austar will progressively complete contamination validation assessments of key areas to confirm that no residual contamination remains that poses a risk to the final land use.

Austar will continue to implement controls including bunding, concrete aprons and spill kits, and the waste management practices in **Section 6.2.1.5** to minimise the potential for contaminated surface water run-off.

### 6.2.2.5. Hazardous Materials Management

The potential for land and water contamination is minimised through the correct handling, storage, and disposal of hazardous substances. These controls include storage within properly sealed containers and controlled areas, banded for medium to long-term storage requirements. These storage and waste receipt areas are isolated from clean water catchments to minimise the risk of land or water pollution should an unplanned spill occur.

A hazardous materials assessment was carried out at CMAs 1, 2, 3, 4, 5, 6 and multiple heritage items across the site in February 2022. During the assessment hazardous materials were identified and recorded. The assessment includes recommendations for the management of these materials during demolition works.

Demolition planning (refer **Section 6.2.2.2**) has considered the findings of the hazardous materials assessment. Austar's demolition contract includes provisions for the management and removal of hazardous materials during demolition.

Hazardous materials such as asbestos will be managed through specific management plans and registers. All chemicals used on site are registered through the ChemAlert database. The central database contains all information contained in the Material Safety Data Sheets (MSDS) and an inventory of chemicals held onsite. The information can be accessed at any computer terminal within the operation and provide guidance on storage, use and disposal.

Hazardous materials are transported and stored on site in accordance with the Hazardous Chemicals Management Procedure. Austar will continue to track the volumes of hazardous materials and hydrocarbons taken by authorised waste contractors.

Accidental spills or ground contamination will be assessed case-by-case and remediated using biodegradable spill absorbent. Hydrocarbon or chemical spills will be reported in the mine site incident reporting system with corrective and preventative measures taken as appropriate. A third-party clearance inspection of the area will be undertaken post demolition before progressing to the next rehabilitation phase.

### 6.2.2.6. Underground Infrastructure

Since the site transitioned to closure, underground assets (including the longwall) have been brought to the surface for storage or sale. Development plant, pumps and other infrastructure were recovered during withdrawal from the mine. Any assets remaining underground were decommissioned appropriately (i.e. de-oiled, de-gassed, hydrocarbons removed) and have been surveyed and recorded on plans as part of the site records.

Austar has completed partial sealing of multiple mine entries across site with a focus on regulatory requirements, public safety and mine security.

Temporary mine sealing of the No. 3, 4, 5 and No. 6 Shafts at the KIA (CMA 5) and Kitchener SIS (CMA 6) was completed in 2022. These shafts were sealed at the surface using 140 kPa rated engineered designed steel lids. Permanent sealing will occur after the final landform plan has been finalised. Shafts will be backfilled within suitable inert demolition material including concrete, brick and asphalt (refer **Section 6.2.1.5**).

Most services boreholes at the KIA have been fully sealed in accordance with relevant standards/guidelines at the time.

The Austar drift has been permanently sealed from the surface to a depth with 15 m competent rock cover using grout in accordance with MDG6001.

Permanent sealing of mine entries will be carried out in accordance with relevant contemporary standards/guidelines. The decommissioning and sealing of boreholes will be carried out in accordance with relevant contemporary standards/guidelines.

To minimise risk to public safety, all permanent seals have been designed by a suitably qualified engineer and will be signed off as constructed through site inspections and verification of materials used. A public safety risk assessment will be conducted prior to the commencement of sealing works.

There are a number of historic mine entries at Austar which have been previously sealed. During FS appropriate studies are being undertaken to assess the integrity of the seals of these entries.

Management of groundwater in the underground workings is being investigated as part of the groundwater investigations during detailed closure planning. Investigations will inform Austar of the potential for future ongoing discharge requirements.

During closure execution, Extraction Plan requirements will be completed and all subsidence pegs will be removed.

### 6.2.3. Landform Establishment

Landform establishment is the process of shaping the final landform to a safe, stable, and free-draining landform that is appropriate for the desired final land use and consistent with the surrounding landscape.

The final landform at Austar will be determined during the mine closure planning process. The early cessation of mining has resulted in some emplacement areas not achieving the anticipated final landform height. Detailed studies are being undertaken to determine rehandling and landform design requirements.

#### 6.2.3.1. Water Management Infrastructure

Austar engaged a suitably qualified consultant to complete a PFS Surface Water Assessment for the closure of Austar Coal Mine. This assessment provided a roadmap of requirements for further mine closure studies and works. In line with these recommendations, Austar has commenced FS site investigations to identify suitable treatment or storage options for contaminated dam sediments.

Kalingo Dam decommissioning is a critical component of Austar's broader closure and rehabilitation strategy, ensuring compliance with legislative and environmental obligations whilst supporting sustainable post-closure land use.

Austar has begun consultation with the Dam Safety NSW regarding the decommissioning and de-prescription of Kalingo Dam. These discussions include the development of a staged plan to remove the dam wall, ensuring compliance with relevant safety and environmental standards. The process involves:

- **Assessment of Dam Stability:** Kalingo Dam's structural integrity has been assessed to determine the most effective and safe decommissioning method.
- **Controlled Drainage:** Water within the dam has been carefully drained in phases to minimise impacts on downstream water systems and maintain environmental compliance. The dam has been maintained empty during desilting activities.
- **Sediment Management:** Sediments within the dam were analysed to ensure proper containment and treatment prior to removal. Following classification, all sediments were removed and transported to East Pit for disposal. Dam desilting was completed in early 2025.

- **Validation sampling:** Following desilting, Austar completed validation sampling to verify that the dam footprint is free of residual contaminants and is suitable for decommissioning and rehabilitation. No remaining contamination that is incompatible with the post mining land use was identified.
- **Dam Wall Removal:** Following drainage and sediment treatment, the dam wall will be dismantled using a method designed to protect adjacent environments and infrastructure.
- **Rehabilitation:** Following dam wall removal, the Kalingo Dam will be reshaped and rehabilitated to the final landform and land use.

The approved Site Water Management Plan (SWMP) provides further detail on Kalingo Dam decommissioning, including planned erosion and sediment control measures during and after the works. This ensures environmental risks, such as sediment displacement or water quality degradation, are minimised.

As part of the closure strategy, Austar is updating the SWMP and consulting with stakeholders to align post-closure water management with the final land use. While it has been assumed that all mine water dams will be removed and rehabilitated, some clean water dams may be retained for the final landform. Retained dams will be assessed for fitness for purpose and licensed, if necessary.

During closure, Austar will ensure:

- Dams are stabilised or rehabilitated to prevent erosion or contamination.
- Localised environmental controls are installed where water management systems are decommissioned.
- Water infrastructure is managed in accordance with site-specific conditions for Closure Management Areas.

#### 6.2.3.2. Final Landform Construction: General Requirements

Austar engaged Arkhill Engineers Pty Limited (Arkhill) to develop the PFS conceptual final landform designs. The aim of the PFS go-forward landform design options is to achieve a safe, stable, and non-polluting landform that meets the standards required for relinquishment.

The PFS Conceptual Landform Design has been informed by the findings and recommendations of each of the PFS technical assessments, in particular:

- Geotechnical sampling and assessment results.
- Contamination assessments.
- Geochemical assessment.
- Subsidence and land stability assessment.
- Rejects and tailings management assessments.

Concept landform designs were developed for each CMA, and a trade-off study has selected the go-forward options that have been taken into the FS.

The process for identifying options included identifying restrictions in existing materials quantities, and a review of the material quality of various on-site materials as determined by the geotechnical, geochemical and contamination assessments. The recommendations of the geochemical assessment (GHD 2023) including AMD controls were the main drivers of the landform designs for CMAs 2, 7 and 8.

Austar has commenced the FS to address recommendations of the PFS specialist studies, prove up the preferred go-forward options and refine the conceptual landform designs and final land use(s). Where appropriate (i.e. emplacement areas and capped landforms), FS studies will include landform evolution modelling to demonstrate the long-term stability of the final landform.

### **PFS Landform Surface Water Design**

The PFS final landform design includes a conceptual post closure surface water design as well as conceptual layouts for water management structures to manage surface water during closure execution.

Preliminary design requirements for surface water management structures are shown in **Table 17**.

**TABLE 17 SURFACE WATER MANAGEMENT STRUCTURES DESIGN CRITERIA**

<b>Item</b>	<b>Design Criteria</b>
<b>Culverts</b>	Existing culverts in the Bellbird Creek tributary are to be removed, and the creek is to be reinstated with open channels.
<b>Clean Water Diversion Drains</b>	All upstream diversion drains have been designed for the 1% AEP peak flow event, with a minimum 0.5m freeboard.
<b>Dirty Water Cut-off Drains</b>	All dirty water cut-off drains located downstream of operational areas which generate sediment or mine water surface runoff have been designed for the 1% AEP peak flow event, with a minimum 0.5m freeboard.
<b>Dirty Water Sediment Dams</b>	<p>Sediment retention dams are to be designed in accordance with the following:</p> <ul style="list-style-type: none"> <li>• Austar Site Water Management Plan (SWMP).</li> <li>• Managing Urban Stormwater – Soils and Construction Landcom 2004 Volume 1 (Blue Book).</li> <li>• “Type D” sediment dams.</li> <li>• Capacity to contain the 5 day-90<sup>th</sup> percentile rainfall event (43mm).</li> <li>• Runoff coefficient C=0.69, in accordance with the Blue Book.</li> <li>• Sediment zone capacity is determined using the maximum of the RUSLE formula or 50% of settling capacity.</li> <li>• 12-month sediment zone management cycle (desilting).</li> <li>• Spillway to be designed for the 1% AEP event (assumes dam is at Low Water Level prior to the rainfall event).</li> <li>• Minimum freeboard at full storage level 0.5m.</li> </ul>
<b>Detention Basins</b>	<p>Detention basin dams are to be designed generally in accordance with the following:</p> <ul style="list-style-type: none"> <li>• Contain the 1% AEP design storm event for durations of 1hr to 72hr duration.</li> <li>• Shall be free draining through controlled outflows via a discharge culvert.</li> </ul>

Item	Design Criteria
	<ul style="list-style-type: none"> <li>• Spillway to be designed for the 1% AEP event (assumes dam is full prior to the design event).</li> <li>• Basin slopes to be generally 1V:6H for future maintenance access, in line with Cessnock City Council Engineering Guidelines.</li> <li>• It is highlighted that detailed hydraulic assessment of the detention basins is outside the scope of the PFS. Austar will engage Cardno (Stantec) who previously developed the Bellbird and Black Creek Flood Assessment for Cessnock City Council (Council) to assess the proposal and downstream impacts for implementing detention basin facilities proposed (refer Section 3.4.5).</li> </ul>
<b>Mine Water Dams</b>	<ul style="list-style-type: none"> <li>• The existing Austar Mine Water Dams will be decommissioned at completion of the Project.</li> <li>• The dams will be desilted, and contaminated soils removed.</li> </ul>

### 6.2.3.3. Final Landform Construction: Reject Emplacement Areas and Tailings Dams

During PFS, Austar engaged GHD to prepare a *Concept Closure Design Coarse Rejects and Tailings Management Strategy* to develop a conceptual capping design that will adequately manage the AMD and spontaneous combustion risks from the coal wastes post-closure.

The strategy was informed by technical studies including contamination assessments, geotechnical and geochemical assessments, surface and groundwater data interpretation, and materials balance assessments. In particular, the strategy was prepared in parallel with the conceptual landform design.

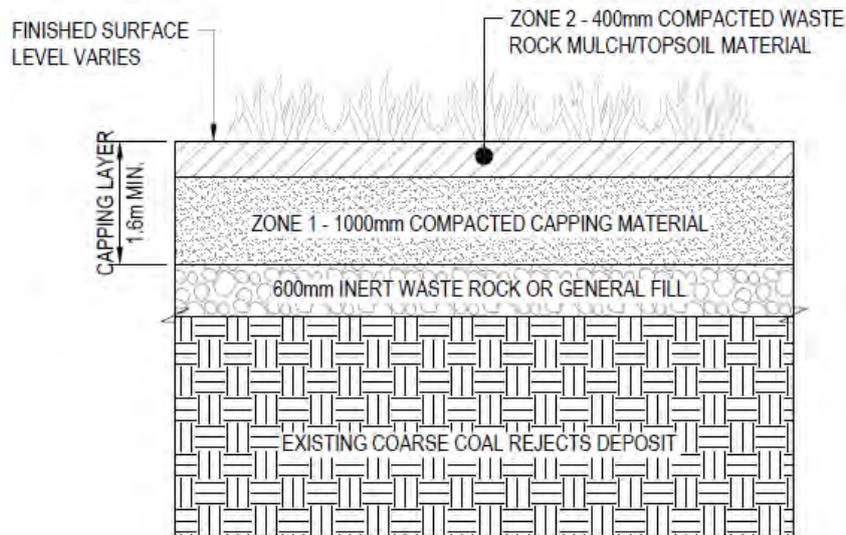
The strategy presented a conceptual closure arrangement to address the following:

- Minimising sulfide oxidation and the subsequent development of AMD by limiting the exposure of tailings at the surface of the storage to infiltration of water and diffusive oxygen.
- Ensuring sufficient erosion protection to limit the potential future exposure of tailings.
- Managing the risk of combustion in the storages with consideration of shallow root system grasses that are unable to penetrate the capping.

The PFS proposed capping arrangement is comprised of the following materials:

- 400 mm thick erosion protection and topsoil, which will also act as a growth medium for rehabilitation.
- 1 m thick Zone 1 capping material comprising of locally available material to form a low permeability cover. This material is proposed to be sourced from the local materials captured onsite.
- Compacted general fill and coarse rejects to form a rock mulch layer which will be used as both a stabilising and capillary break layer below the cover material.

The indicative conceptual capping arrangement is presented in **Figure 10**.



**Figure 10 Conceptual Capping Arrangement (source GHD 2023)**

During FS, Austar is completing additional technical studies to prove and refine the capping design to ensure that AMD and combustion risks of rejects and tailings are adequately managed. This includes additional geochemical and geotechnical assessments as well as specific tailings and capping investigation and design.

#### **6.2.3.4. Final Landform Construction: Final Voids, Highwalls and Low Walls**

There is no final void in Austar’s engineered final landform.

Austar has undertaken a PFS level geotechnical assessments for steep slopes proposed to be retained in the final landform. As part of the FS geotechnical assessment, Austar is undertaking additional detailed assessment of rail cuttings, road cuttings, dam embankments and highwalls.

Austar is also preparing an FS strategy including monitoring and landform stability modelling to demonstrate that retained steep slopes/engineered structures will be long-term stable landforms. The findings from these assessments will be used to consider the risk of highwalls and slopes to public safety in the final landform design.

#### **6.2.3.5. Construction of Creek/River Diversion Works**

A tributary of Bellbird Creek runs through CMA 2 (CHPP) and has been re-aligned from its natural alignment in some locations.

The option of re-instating the original alignment or justifying the existing diversion has been assessed. If the original Bellbird Creek tributary alignment is reinstated, then it is likely that the channel will need to pass through reject areas which presents risks to the long term final landform. The current flow path through the CHPP appears to be generally stable and does not pass through reject emplacement or capping areas.

As such, Austar is planning for the rehabilitation and upgrade of the Bellbird Creek tributary generally in its current alignment. The final landform designs have been developed to avoid coarse rejects emplacement areas, and provide a safe, free-draining, long-term stable landform. The design considers moderate meandering to increase slope length and reduce bedslope and includes removal of all existing culverts in the Bellbird Creek tributary to reinstate the creek with open channels.

#### 6.2.4. Growth Medium Development

As outlined in **Section 6.2.1.1**, it is acknowledged that Austar has limited stockpiled and salvageable topsoil resources and will have a deficit of growth medium available for final rehabilitation works. Austar have developed a *Growth Media Strategy and Execution Plan* (Growth Media Strategy) as part of FS and are undertaking rehabilitation trials to assess alternative growth media products.

The Growth Media Strategy informs the implementation of the growth media phase of rehabilitation, providing the framework for selecting, characterising, and applying suitable growth media in accordance with site constraints and environmental requirements.

Based on the recommendations of the Growth Media Strategy the following general rehabilitation methodology will be implemented:

- Topsoil and/or growth media will be spread uniformly onto areas requiring rehabilitation. Sampling will be undertaken to characterise the geochemical nature of the growth media used at Austar and recommendations for ameliorations will be provided by a suitably qualified agronomist or soil scientist.
- Where topsoil is not available, a suitable organic soil substitute may be used. If Austar requires an alternative growth medium such as composted green waste or biosolids, the material will be used in accordance with the relevant EPA resource recovery order and exemption and will consider site constraints such as proximity to environmentally sensitive receivers.
- The spreading of soil (where available), the addition of soil ameliorants and fertiliser, and the application of seed will be carried out in consecutive operations (where possible) to reduce the potential for soil loss to wind and water erosion.
- Following the spreading of topsoil, ameliorants and fertiliser will be applied to the surface using a mechanical spreader prior to ripping for incorporation into the seedbed. Ameliorant rates will be determined based on the results of topsoil and manure quality testing prior to spreading.
- Cover crops will be used in revegetation, where necessary, to provide for an effective groundcover until the target seed species are established. This will minimise the likelihood of erosion during the initial establishment phase of the rehabilitation. To further minimise degradation of the substrate rehabilitation areas are progressively revegetated to reduce areas of exposed soil. Erosion and sediment control will be undertaken in accordance with the Blue Book.
- Seedbed preparation will be undertaken to ensure optimum establishment and growth of vegetation. All top-dressed areas will be contour ripped to create a “key” between the soil and the subsoil/capping prior to the placement of materials. Ripping will be undertaken along the contour preferably when soil is moist and immediately prior to sowing. The spread top-dressed surface will be scarified with the contour immediately prior to seeding to reduce runoff and increase infiltration. Deep ripping lines every 20 m with the contour will occur in areas of poor water infiltration where capping won’t be compromised.
- Where possible seeding will take place as soon as the ground preparation is complete and be undertaken in optimal seasonal conditions for the establishment of vegetation, i.e. not in hot dry conditions or extremely cold conditions.

Austar will continue to engage suitably qualified and experienced contractors to undertake weed control activities in accordance with the established weed action plan.

### 6.2.5. Ecosystem and Land Use Establishment

Revegetation activities will be planned to occur after the completion of reshaping, topdressing with growth media and construction of drainage structures. Seeding and planting will be planned to occur in optimal seasonal conditions for establishment, i.e. not in hot dry conditions or extremely cold conditions.

Austar has developed a Seed Planner and Vegetation Mapping Tool to inform seeding requirements, target vegetation communities, and appropriate revegetation methods across the mine site. This tool identifies the desired vegetation communities for each Closure Management Area (CMA) and prescribes suitable, locally sourced species mixes, indicative sowing rates, and recommended seeding techniques.

As detailed in **Section 6.2.1.2** where possible seeds will be sourced from the target vegetation communities in the local area. An experienced contractor will handle, treat and store the seeds appropriated. Seeds will be collected and stored in accordance with the NSW Government Florabank Guidelines (Florabank 2022).

Native trees and shrubs will be established from either direct seeding or tube stock planting. Grasslands will generally be established via direct seeding but may also be planted as tube stock if required. Where appropriate, seeds will be treated i.e. inoculated and scarified prior to sowing to improve the chance of early and successful germination.

Austar will use a plant species mix compatible with the surrounding environment. **Table 18** and **Table 19** outline the indicative species lists for grassland and native ecosystem final land uses. The final species mix, seeding rate, and method for each rehabilitation area will be determined using the Austar Seed Planner.

**TABLE 18 – GRASSLAND SPECIES LIST**

Species List for Agricultural Grazing Rehabilitation Areas	
Japanese Millet (summer cover crop)	Haifa Clover
Coolabah Oats (winter cover crop)	Wimmera Rye
Couch	Perennial Rye
Kikuyu	Green Panic
Lucerne	Phalaris
Seaton Park Clover	

**TABLE 19 - NATIVE ECOSYSTEM SPECIES LIST**

<b>Species List for Forest Areas</b>	
<b>Common Name</b>	<b>Taxonomic Name</b>
<b>Canopy Species</b>	
Spotted gum	<i>Corymbia maculata</i>
Cabbage gum	<i>Eucalyptus amplifolia subsp. amplifolia</i>
Large-fruited grey gum	<i>Eucalyptus canaliculata</i>
Narrow-leaved ironbark	<i>Eucalyptus crebra</i>
Thin-leaved stringybark	<i>Eucalyptus eugenioides</i>
Broad-leaved ironbark	<i>Eucalyptus fibrosa</i>
Grey box	<i>Eucalyptus moluccana</i>
Grey gum	<i>Eucalyptus punctata</i>
Forest red gum	<i>Eucalyptus tereticornis</i>
Turpentine	<i>Syncarpia glomulifera subsp. glomulifera</i>
<b>Shrub Stratum</b>	
Silver-stemmed wattle	<i>Acacia parvipinnula</i>
Coffee bush	<i>Breynia oblongifolia</i>
Blackthorn	<i>Bursaria spinosa subsp. spinosa</i>
Broom bitter pea	<i>Daviesia genistifolia</i>
Gorse Bitter Pea	<i>Daviesia ulicifolia</i>
Healthy Parrot Pea	<i>Dillwynia retorta</i>
<b>Ground Stratum</b>	
Threeawn speargrass	<i>Aristida vagans</i>
Blue flax lily	<i>Dianella caerulea</i>
Wiry panic	<i>Entolasia stricta</i>
Love creeper	<i>Glycine tabacina</i>
Star Goodenia	<i>Goodenia rotundifolia</i>
Purple Coral Pea; Waraburra	<i>Hardenbergia violacea</i>
Blady grass	<i>Imperata cylindrica var. major</i>
Wattle Mat-rush	<i>Lomandra filiformis</i>
Many-flowered mat-rush	<i>Lomandra multiflora subsp. multiflora</i>
Kangaroo grass	<i>Themeda australis</i>

### 6.2.6. Ecosystem and Land Use Development

Following completion of revegetation, ongoing maintenance and land management activities, rehabilitation monitoring, and adaptive management will be undertaken. Maintenance at rehabilitated areas may include, but not be limited to:

- Weeds and pest/feral animal species control;
- Managing bushfire risks;
- Minor earthworks to remediate erosion features, including contour banks and diversion channels;
- Infill planting and/or seeding to improve rehabilitation based on monitoring recommendations; and

- Maintaining erosion and sediment controls.

Additional rehabilitation maintenance and management activities will be informed by the findings and recommendations of annual rehabilitation monitoring.

During closure execution Austar will continue to undertake environmental monitoring including surface water, groundwater, air quality, and noise in accordance with the development consent and EPL requirements.

### **6.3. Rehabilitation of Areas Affected by Subsidence**

The Austar colliery holding includes both longwall and bord and pillar underground workings which date back to the early 1900's. Depths of cover to the more recent longwall mine workings is more than 300 m, whereas the depth of cover to the older bord and pillar workings is less than 60 m in some areas.

While Austar managed subsidence over the more recent longwall mining areas during operations in accordance with the relevant extraction plans and subsidence management plans (SMPs) there is a long history of surface impacts (such as sinkholes) above historic (bord and pillar) mining areas.

Underground mining at Austar has now ceased. Final subsidence monitoring (MSEC 2021) over the more recent longwall mining areas concluded that the ongoing long-term residual subsidence effects are expected to be very small and unlikely to result in adverse physical impacts on the natural environment.

During PFS, Austar engaged GHD to prepare the Preliminary Evaluation of Hazardous Mine Subsidence Potential (GHD 2023) to assess closure risks associated with subsidence and land stability above the historic (bord and pillar) mining areas. The report focused on the shallow mine workings (less than 60 m cover depth) as they are more likely to be associated with hazardous sinkhole features and recommended additional geotechnical assessment to establish depth of cover and assess condition of mine workings / voids in key areas.

During FS, Austar is completing additional land stability site investigations to:

- improve the understanding of mechanisms of sinkhole formation and likely frequency and distributions of future sinkhole occurrence
- Inform the final landform design in the vicinity of areas of shallow workings
- identify appropriate feasible mitigation and management measures
- Inform the development of completion criteria in the context of relinquishment and ongoing subsidence hazards.

## 7. REHABILITATION QUALITY ASSURANCE PROCESS

Detailed Rehabilitation Quality Assurance Processes (RQAP) are developed and implemented throughout the mine closure planning and execution process. This includes the details of inspections, monitoring and record-keeping which will be required to ensure that:

- Rehabilitation is being implemented in accordance with the nominated methodologies; and
- Identified risks to rehabilitation are being adequately addressed at each phase of rehabilitation.

Austar implement RQAP through every phase of rehabilitation and closure to confirm that the rehabilitation strategies outlined in this RMP have been completed in accordance with the nominated methodologies. RQAP also includes inspections and documentation to verify that each phase of decommissioning, demolition and rehabilitation has been completed and has met the completion criteria detailed in **Section 4**.

RQAP is used to demonstrate to the relevant regulatory authorities, including Resources Regulator, that rehabilitation has been completed to an acceptable standard to achieve relinquishment.

Documentation to be recorded and retained includes, but is not limited to, the following:

### Phase 1 – Active Mining

- Documentation of pre-clearance surveys;
- Completed Work Permits;
- Desktop study reports;
- Site environmental inspection records;
- Annual weed control reports;
- Extraction plan records; and
- Records of inventory.

### Phase 1 – Demolition

- Documentation of pre-clearance surveys;
- Documentation of mine and boreholes sealing and sign off;
- Inspections and demolition reports to confirm all infrastructure to be demolished has been removed;
- Documentation to identify the future landowner responsible for the ongoing upkeep and management of retained infrastructure;
- Validation testing to ensure any contamination has been appropriately remediated and/or removed;
- Plans of infrastructure/plant remaining underground;
- Hazmat register;
- Records of decommissioning of infrastructure/plant to be left underground. (e.g. records of de-oiling);
- Heritage assessments;
- Waste management records;

- ESF2 documentation;
- MDG6001 documentation; and
- EDG01 documentation.

**Phase 2 – Landform Establishment**

- Survey and preparation of as-constructed drawings of final constructed slopes, landforms and water drainage structures;
- Verification reporting to confirm the specified depth of capping has been implemented (i.e. aerial surveys); and
- Geotechnical and geochemical assessment reports.

**Phase 3 – Growth Medium Development**

- Maintenance of a topsoil inventory to document stripped, stockpiled and re-spread resources;
- Site records of re-spread topsoil, ameliorants, fertiliser etc.;
- Soil testing results to confirm appropriate soil geochemical parameters for plant establishment; and
- Rehabilitation monitoring reports.

**Phase 4 – Ecosystem and Land Use Establishment**

- Documentation of reseeding or planting activities undertaken including:
  - Date of planting;
  - Weather conditions;
  - Seeding rate (kg/ha) and/or planting rate (tubestock/ha);
  - Ameliorant rate (kg/ha); and
- Site inspections of rehabilitated areas to allow early identification of any emerging threats to rehabilitation.

**Phase 5 – Ecosystem and Land Use Sustainability**

- Inspections of temporary and permanent erosion and sediment controls;
- Inspections to identify potential weed infestations;
- Documentation of Rehabilitation Monitoring; and
- Documentation of weed and feral animal management and eradication programs and follow-up inspections.

## 8. REHABILITATION MONITORING PROGRAM

### 8.1. Analogue Site Baseline Monitoring

Austar is currently undertaking rehabilitation monitoring at the Aberdare emplacement area, Bellbird Areas 12 and 13, and Kalingo areas. As part of rehabilitation monitoring two forest analogue sites have been established (one at Bellbird Areas 12 and 13, and one at Kalingo).

The forest analogue sites have been selected based on the following:

- located in undisturbed vegetation adjacent to the previously disturbed areas;
- containing vegetation types similar to the target rehabilitation; and
- are suitable as a basis for comparison to rehabilitation completion criteria.

At this stage there is no reference site for pasture areas, as to date these rehabilitated areas are not specifically required to be commensurate with native grassland vegetation.

Analogue rehabilitation monitoring sites will be reviewed during the detailed mine closure planning process. Additional analogue sites will be established as rehabilitation progresses.

### 8.2. Rehabilitation Establishment Monitoring

A walkover inspection is undertaken as part of the annual rehabilitation monitoring program to enable early identification of emerging issues, and threats to rehabilitation. The walkover inspection is comprised of a traverse of the rehabilitated area with the following documented on standard proformas.

- A general assessment of the health of the rehabilitated vegetation;
- Visual assessment of vegetation cover, species diversity and stage of growth (rate of growth will be assessed during subsequent events);
- Identification of weeds and pests including the density of infestation and impacts on rehabilitation;
- Evidence of erosion (rill, gully and tunnel);
- Stability and functioning of any erosion and sediment control and water management structures;
- Evidence of unauthorised access to the rehabilitated areas; and
- Evidence of use of rehabilitation area by native fauna species.

As Austar progresses towards closure, specific rehabilitation establishment inspections as outlined in **Section 7** are used to monitor rehabilitation areas at the commencement of the rehabilitation establishment phase. As new rehabilitation areas reach the ecosystem establishment phase, they will be added to the inspection regime.

### 8.3. Measuring Performance Against Rehabilitation Objectives and Rehabilitation Completion Criteria

Austar has engaged a suitably qualified ecologist to measure rehabilitation performance against rehabilitation objectives and rehabilitation completion criteria. Austar's final land uses are agricultural

grazing and native ecosystem. To determine if rehabilitation is on a trajectory to achieve these final land uses, the following monitoring is carried out.

### **Native Ecosystem Monitoring**

Native ecosystem monitoring is comprised of a 20 m by 20 m plot, as well as a 50 m transect. These plots have their coordinates recorded using a hand-held GPS and are demarcated with star-pickets in each corner.

The methodology of a 50 m transect is as follows:

- Monitoring photos at both ends of each transect, looking towards the opposite end of the transect.
- For every 5 m interval, the following is recorded:
  - Percentage native canopy cover; and
  - Percentage native mid-storey cover.
- For every 1 m interval, the following is recorded:
  - Presence of native groundcover (grass);
  - Presence of native groundcover (shrub);
  - Presence of native ground cover (other);
  - Presence of native groundcover (exotic);
  - Presence of bare ground; and
  - Presence of leaf litter

The methodology for using 20 m by 20 m plots is as follows:

- A full floristic survey including identification of all vascular plant species and their cover and abundance; and
- Photo monitoring.

### **Agricultural Grazing (Pasture) Monitoring**

Pasture monitoring uses 5 m by 5 m plots. Each plot's coordinates are recorded using a hand-held GPS and is demarcated with a star-pickets. Assessments include:

- Percentage of plot which comprises vegetation;
- Percentage of plot which comprises introduced species;
- Percentage of plot which comprises canopy vegetation; and
- Documentation of all flora species present and their cover/abundance
- Photo monitoring.

### **Assignment of Action Priorities**

Based on the data collected, each site is assigned an "Action Priority" comprising either "Action Required" or "Adequate Management" according to whether the parameters are in accordance with the completion or performance criteria.

- Action Required - either require intervention or have not yet developed to the stage where they are compliant with criteria (but are expected to naturally develop with time – such as the presence of fruiting/flowering of trees).
- Adequate Management – require no management, however, should continue to be monitored.

This categorisation system will be used in future for direct data comparability.

Assignment of an Action Priority is undertaken for both the ecosystem and land use establishment and development phases.

- Ecosystem and land use establishment phase – follows Growing Medium Development. Includes the initial germination and success of plantings. This phase must be achieved prior to moving to the sustainability phase.
- Ecosystem and land use development phase – This phase is required to be achieved prior to land relinquishment.

## 9. REHABILITATION RESEARCH, MODELLING AND TRIALS

### 9.1. Current Rehabilitation Research, Modelling and Trials

As detailed in **Section 6.1**, Austar has completed a pre-feasibility study (PFS) and is currently completing the feasibility study (FS) for mine closure. Extensive technical studies are being undertaken to prove and refine the conceptual final landforms and to inform optimum rehabilitation and closure outcomes.

In addition, the following specific trials are being undertaken at Austar.

#### **Growth Media Trial**

A growth media trial is underway to evaluate composted municipal green waste material as a growth medium, as an alternative to topsoil.

Three rehabilitation trial plots have been established with no compost, 50mm of composted growth medium and 100mm of composted growth medium, respectively. All three plots have been seeded with key canopy, shrub and groundcover species of the Lower Hunter Spotted Gum Ironbark Forest vegetation community. Ongoing monitoring is underway to inform suitability of compost use as a growth medium.

Outcomes of the study will be reported in the Austar Annual Rehabilitation Report.

#### **Coal Waste Blending Trial**

A coal waste blending trial is underway to inform materials handling, excavation, blending and placement strategies through the execution of bulk earthworks, with a focus on optimising processes for tailings and coarse coal reject (CCR) man

Tailings is excavated from the NWT D, dewatered as required, and transported to a trial location at the CHPP. Materials are spread or blended with coarse coal reject (CCR) to evaluate drying rates, handling behaviour, and suitability for placement in containment cells. Observations, geotechnical testing, and laboratory analysis will be conducted to optimize processes.

Outcomes of the study will be reported in the Austar Annual Rehabilitation Report.

### 9.2. Future Rehabilitation Research, Modelling and Trials

Additional technical studies and modelling will be informed by the findings of the currently scoped pre-feasibility studies. Future studies will be reported in the forward program.

## 10. INTERVENTION AND ADAPTIVE MANAGEMENT

Unpredictable events such as bushfires, droughts and floods may present risks to rehabilitation. These events generally have significant consequences for rehabilitation quality and are likely to require adaptive management in order to mitigate risks and achieve relinquishment of affected rehabilitation areas within a satisfactory timeframe.

Although these events may have a high degree of unpredictability, monitoring the status of contributing factors enables an assessment of the likelihood of a major impact on rehabilitation occurring.

### Trigger Action Response Plan

The rehabilitation monitoring program as outlined in **Section 8** will be used to identify any maintenance actions required and whether further works are required to achieve the specific closure criteria (refer to **Section 4**). The rehabilitation maintenance program will be undertaken following the completion of rehabilitation activities at the site and will be utilised to manage the rehabilitation areas.

**Table 20** details the rehabilitation Trigger Action Response Plan (TARP) Which has been developed to identify required containment and remediation actions in the case of unexpected events during rehabilitation activities. Further details on the proposed environmental management measures utilised by Austar are provided in **Section 6.2**.

**TABLE 20 - TRIGGER ACTION RESPONSE PLAN**

Trigger	Containment Action	Remediation Action
Hazardous Materials (asbestos) inappropriately removed during demolition of heritage structures, leading to soil contamination and/or health impact.	Undertake monitoring / engage specialist to understand extent of the impact. Install public safety management measures as required to minimise risk of harm.	Implement corrective actions as necessary based on outcomes of specialist reports. Remediate soils and validate to minimise potential for harm.
Landform not in accordance with completion criteria identified in <b>Section 4</b> including capping material depth.	Undertake survey of areas of concern to determine areas that do not meet requirements.	Monitor areas to assess performance. If rehabilitation performance is inadequate, undertake reshaping works and reseedling of the amended landform, utilising target species for the proposed final land use.
Erosion / poor water quality from rehabilitation areas in excess of target criteria identified in <b>Section 4</b> .	Install appropriate erosion and sedimentation controls such as sediment fences or similar.	Regrade and stabilise with target species for proposed final land use. Check (and repair if required) adequate drainage to underground workings to minimise runoff.
Lack of vegetation establishment or dieback of rehabilitated areas resulting in an inability to meet vegetation criteria targets specified in <b>Section 4</b> .	Undertake soil chemistry monitoring of target area to determine if growth medium is appropriate for vegetation establishment.	Apply ameliorants as required based on results of laboratory testing and re-seed utilising appropriate species as per target final land use
Weed infestation threatening rehabilitation success (weeds in excess of identified criteria level - refer to <b>Section 4</b> ).	Undertake monitoring to understand weed location and abundance.	Implement weed management actions as required. Re-seed utilising appropriate species as per target final land use where necessary.
Significant damage to rehabilitation areas by feral animals, resulting in an inability to	Undertake monitoring to understand potential feral	Implement feral management actions as required.

Trigger	Containment Action	Remediation Action
meet vegetation criteria targets specified in <b>Section 4</b> .	animal habitat location and abundance	Re-seed utilising appropriate species as per target final land use where necessary.
Acid leachate identified from rehabilitated reject emplacement areas, potentially resulting in offsite water impact and/or dieback of revegetation, resulting in an inability to meet vegetation and water quality criteria targets specified in <b>Section 4</b> .	Undertake soil/water chemistry monitoring and landform/drainage investigation of target area to determine the source of the issue. Install containment measures to minimise risk associated with potential offsite impact.	Amend landform to remediate issue, as informed by containment investigations. Undertake water / soil testing post completion of corrective actions to confirm adequacy of remediation. Re-seed utilising appropriate species as per target final land use (where required).
Spontaneous combustion of rehabilitation area	Undertake monitoring to understand nature and extent of the event	Amend landform to remediate issue, as informed by containment investigations. Implement corrective actions as necessary in accordance with Spontaneous Combustion Principal Hazard Management Plan

The rehabilitation monitoring/inspection program will be continued as required until it can be demonstrated that the rehabilitation has satisfied the closure criteria.

In addition to the annual monitoring program, routine site inspections are also conducted monthly by Austar environmental personnel. Mining personnel also conduct inspections of the site which include rehabilitation areas and subsidence repairs undertaken. If issues are identified during this inspection process, the Environment and Community Manager is advised, and corrective actions are implemented as required.

## 11. REVIEW, REVISION, AND IMPLEMENTATION

In accordance with Clause 11 of Schedule 8A to the Mining Regulation 2016, Austar will amend this RMP in the following circumstances:

- As a consequence of an amendment made to the rehabilitation objectives, rehabilitation completion criteria or final landform and rehabilitation plan;
- To reflect any changes to the risk control measures in the rehabilitation management plan that are identified in a rehabilitation risk assessment; and/or
- Whenever directed in writing to do so by the Secretary.

Austar will ensure the RMP remains current and relevant to ensure it defines the rehabilitation outcomes to be achieved in relation to the mining area and sets out the strategy to achieve those outcomes. As Austar progresses through the detailed closure planning process this RMP will be updated to reflect the outcomes of technical studies and any amendments to proposed rehabilitation and closure activities.

Whenever any foreseeable hazard is identified that presents a risk to achieving the rehabilitation objectives, the rehabilitation completion criteria and the final landform and rehabilitation plan, the lease holder is required to update the Rehabilitation Risk Assessment and the RMP.

Those responsible for the implementation and ongoing management of this RMP are identified in **Table 21**.

**TABLE 21 - ROLES AND RESPONSIBILITIES**

Role	Responsibilities
Mining Engineering Manager	Mine closure works and management including the environmental performance of the Austar Coal Mine in accordance with mining lease conditions and the outcomes of the RMP.
	CHPP closure works and management including decommissioning of the coal handling and processing plant, and management of the reject emplacement areas, tailings management, water treatment plant.
Environment & Community Manager	Prepare, review, and revise the RMP document where necessary. Rehabilitation activities on reject emplacement areas. Monitoring and reporting of progress against RMP in Annual Review.

# APPENDIX: A

## SCHEDULE OF LANDS

Land Ownership	Lot	DP
AUSTRALIAN TELECOMMUNICATIONS COMMISSION	25	DP11825
CESSNOCK CITY COUNCIL	1	DP1268618
CESSNOCK CITY COUNCIL	1	DP135945
CESSNOCK CITY COUNCIL	1	DP175536
CESSNOCK CITY COUNCIL	1	DP309362
CESSNOCK CITY COUNCIL	1	DP327619
CESSNOCK CITY COUNCIL	1	DP327620
CESSNOCK CITY COUNCIL	1	DP360790
CESSNOCK CITY COUNCIL	1	DP365734
CESSNOCK CITY COUNCIL	1	DP650540
CESSNOCK CITY COUNCIL	101	DP1219658
CESSNOCK CITY COUNCIL	127	DP1243665
CESSNOCK CITY COUNCIL	128	DP1243665
CESSNOCK CITY COUNCIL	129	DP1243665
CESSNOCK CITY COUNCIL	130	DP1243665
CESSNOCK CITY COUNCIL	136	DP1243665
CESSNOCK CITY COUNCIL	140	DP755225
CESSNOCK CITY COUNCIL	161	DP1257589
CESSNOCK CITY COUNCIL	162	DP1257589
CESSNOCK CITY COUNCIL	178	DP1257589
CESSNOCK CITY COUNCIL	311	DP1091621
CROWN	2	DP1219841
CROWN	4	DP1185571
CROWN	5	DP1185571
CROWN	8	DP758382
CROWN	9	DP758382
CROWN	12	DP758382
CROWN	13	DP758382
CROWN	15	DP755225
CROWN	20	DP755215
CROWN	21	DP755215
CROWN	47	DP1185567
CROWN	48	DP1185567
CROWN	150	DP755215
CROWN	215	DP1185596
CROWN	249	DP755225
CROWN	553	DP725104
CROWN	7004	DP93601
CROWN	7006	DP93602
CROWN	7300	DP1146455
CROWN	7320	DP1157260
CROWN	7321	DP1157260

Land Ownership	Lot	DP
CROWN	7322	DP1157260
ENERGY AUSTRALIA	1	DP1158786
ENERGY AUSTRALIA	1	DP1181682
ENERGY AUSTRALIA	20	DP608964
FREEHOLD	1	DP1010898
FREEHOLD	1	DP1016843
FREEHOLD	1	DP1034264
FREEHOLD	1	DP1035288
FREEHOLD	1	DP1038238
FREEHOLD	1	DP1038341
FREEHOLD	1	DP1042271
FREEHOLD	1	DP1044030
FREEHOLD	1	DP1045678
FREEHOLD	1	DP1047479
FREEHOLD	1	DP1061571
FREEHOLD	1	DP1065119
FREEHOLD	1	DP1065923
FREEHOLD	1	DP1066918
FREEHOLD	1	DP1068185
FREEHOLD	1	DP1069000
FREEHOLD	1	DP1071931
FREEHOLD	1	DP1076392
FREEHOLD	1	DP1078770
FREEHOLD	1	DP1079762
FREEHOLD	1	DP1090956
FREEHOLD	1	DP1094701
FREEHOLD	1	DP1101724
FREEHOLD	1	DP1116494
FREEHOLD	1	DP1129284
FREEHOLD	1	DP113363
FREEHOLD	1	DP1145356
FREEHOLD	1	DP11504
FREEHOLD	1	DP115675
FREEHOLD	1	DP11584
FREEHOLD	1	DP1158786
FREEHOLD	1	DP1168335
FREEHOLD	1	DP1168802
FREEHOLD	1	DP1173947
FREEHOLD	1	DP11747
FREEHOLD	1	DP1176054
FREEHOLD	1	DP1181682
FREEHOLD	1	DP1182363
FREEHOLD	1	DP11825

Land Ownership	Lot	DP
FREEHOLD	1	DP1184613
FREEHOLD	1	DP1212219
FREEHOLD	1	DP1212221
FREEHOLD	1	DP12136
FREEHOLD	1	DP1219841
FREEHOLD	1	DP1227159
FREEHOLD	1	DP122731
FREEHOLD	1	DP1228428
FREEHOLD	1	DP124547
FREEHOLD	1	DP124558
FREEHOLD	1	DP12493
FREEHOLD	1	DP1251187
FREEHOLD	1	DP1254436
FREEHOLD	1	DP1268618
FREEHOLD	1	DP1280491
FREEHOLD	1	DP13008
FREEHOLD	1	DP130986
FREEHOLD	1	DP131005
FREEHOLD	1	DP131054
FREEHOLD	1	DP131087
FREEHOLD	1	DP13687
FREEHOLD	1	DP159382
FREEHOLD	1	DP169281
FREEHOLD	1	DP170509
FREEHOLD	1	DP170894
FREEHOLD	1	DP171040
FREEHOLD	1	DP174028
FREEHOLD	1	DP175536
FREEHOLD	1	DP180954
FREEHOLD	1	DP185087
FREEHOLD	1	DP240664
FREEHOLD	1	DP301570
FREEHOLD	1	DP304170
FREEHOLD	1	DP305225
FREEHOLD	1	DP305728
FREEHOLD	1	DP308679
FREEHOLD	1	DP308680
FREEHOLD	1	DP309362
FREEHOLD	1	DP309628
FREEHOLD	1	DP309629
FREEHOLD	1	DP312349
FREEHOLD	1	DP312463
FREEHOLD	1	DP312611

Land Ownership	Lot	DP
FREEHOLD	1	DP314475
FREEHOLD	1	DP314679
FREEHOLD	1	DP315050
FREEHOLD	1	DP315530
FREEHOLD	1	DP318934
FREEHOLD	1	DP319279
FREEHOLD	1	DP324126
FREEHOLD	1	DP32572
FREEHOLD	1	DP327619
FREEHOLD	1	DP327620
FREEHOLD	1	DP339399
FREEHOLD	1	DP347691
FREEHOLD	1	DP360790
FREEHOLD	1	DP380331
FREEHOLD	1	DP391819
FREEHOLD	1	DP506445
FREEHOLD	1	DP598329
FREEHOLD	1	DP602482
FREEHOLD	1	DP602484
FREEHOLD	1	DP609075
FREEHOLD	1	DP614559
FREEHOLD	1	DP614784
FREEHOLD	1	DP616207
FREEHOLD	1	DP617927
FREEHOLD	1	DP619366
FREEHOLD	1	DP620099
FREEHOLD	1	DP650540
FREEHOLD	1	DP662527
FREEHOLD	1	DP69968
FREEHOLD	1	DP700364
FREEHOLD	1	DP709338
FREEHOLD	1	DP709474
FREEHOLD	1	DP726039
FREEHOLD	1	DP726861
FREEHOLD	1	DP727312
FREEHOLD	1	DP727397
FREEHOLD	1	DP727398
FREEHOLD	1	DP727399
FREEHOLD	1	DP727400
FREEHOLD	1	DP727401
FREEHOLD	1	DP738718
FREEHOLD	1	DP738726
FREEHOLD	1	DP740210

Land Ownership	Lot	DP
FREEHOLD	1	DP745336
FREEHOLD	1	DP758382
FREEHOLD	1	DP772226
FREEHOLD	1	DP772233
FREEHOLD	1	DP772352
FREEHOLD	1	DP775122
FREEHOLD	1	DP775718
FREEHOLD	1	DP778494
FREEHOLD	1	DP78128
FREEHOLD	1	DP786248
FREEHOLD	1	DP795298
FREEHOLD	1	DP798955
FREEHOLD	1	DP79957
FREEHOLD	1	DP805838
FREEHOLD	1	DP806246
FREEHOLD	1	DP807322
FREEHOLD	1	DP811962
FREEHOLD	1	DP819222
FREEHOLD	1	DP821138
FREEHOLD	1	DP823133
FREEHOLD	1	DP834726
FREEHOLD	1	DP834889
FREEHOLD	1	DP836487
FREEHOLD	1	DP837901
FREEHOLD	1	DP841360
FREEHOLD	1	DP843371
FREEHOLD	1	DP850336
FREEHOLD	1	DP851896
FREEHOLD	1	DP852328
FREEHOLD	1	DP858391
FREEHOLD	1	DP867260
FREEHOLD	1	DP8691
FREEHOLD	1	DP870512
FREEHOLD	1	DP87087
FREEHOLD	1	DP873717
FREEHOLD	1	DP880657
FREEHOLD	1	DP932739
FREEHOLD	1	DP950221
FREEHOLD	1	DP986104
FREEHOLD	1	DP986143
FREEHOLD	1	DP996145
FREEHOLD	1	DP998682
FREEHOLD	2	DP1010898

Land Ownership	Lot	DP
FREEHOLD	2	DP1033845
FREEHOLD	2	DP1034264
FREEHOLD	2	DP1035288
FREEHOLD	2	DP1044030
FREEHOLD	2	DP1045678
FREEHOLD	2	DP1055477
FREEHOLD	2	DP1061121
FREEHOLD	2	DP1061571
FREEHOLD	2	DP1065119
FREEHOLD	2	DP1065923
FREEHOLD	2	DP1069000
FREEHOLD	2	DP1076392
FREEHOLD	2	DP1090956
FREEHOLD	2	DP1101724
FREEHOLD	2	DP1115923
FREEHOLD	2	DP1129284
FREEHOLD	2	DP1145356
FREEHOLD	2	DP11584
FREEHOLD	2	DP1164334
FREEHOLD	2	DP1168335
FREEHOLD	2	DP1168802
FREEHOLD	2	DP1173947
FREEHOLD	2	DP11747
FREEHOLD	2	DP1176054
FREEHOLD	2	DP1181682
FREEHOLD	2	DP1182363
FREEHOLD	2	DP11825
FREEHOLD	2	DP1184613
FREEHOLD	2	DP1197775
FREEHOLD	2	DP12136
FREEHOLD	2	DP1214999
FREEHOLD	2	DP1227159
FREEHOLD	2	DP1228428
FREEHOLD	2	DP124547
FREEHOLD	2	DP12493
FREEHOLD	2	DP1268618
FREEHOLD	2	DP13008
FREEHOLD	2	DP130986
FREEHOLD	2	DP169281
FREEHOLD	2	DP240664
FREEHOLD	2	DP243366
FREEHOLD	2	DP304170
FREEHOLD	2	DP312611

Land Ownership	Lot	DP
FREEHOLD	2	DP314679
FREEHOLD	2	DP329463
FREEHOLD	2	DP347691
FREEHOLD	2	DP506445
FREEHOLD	2	DP589534
FREEHOLD	2	DP595102
FREEHOLD	2	DP602482
FREEHOLD	2	DP602484
FREEHOLD	2	DP614784
FREEHOLD	2	DP617927
FREEHOLD	2	DP619366
FREEHOLD	2	DP69968
FREEHOLD	2	DP709338
FREEHOLD	2	DP709474
FREEHOLD	2	DP714067
FREEHOLD	2	DP726861
FREEHOLD	2	DP727397
FREEHOLD	2	DP727398
FREEHOLD	2	DP727399
FREEHOLD	2	DP727400
FREEHOLD	2	DP747207
FREEHOLD	2	DP755225
FREEHOLD	2	DP758382
FREEHOLD	2	DP775122
FREEHOLD	2	DP775718
FREEHOLD	2	DP778494
FREEHOLD	2	DP78128
FREEHOLD	2	DP786248
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FREEHOLD	2	DP828916
FREEHOLD	2	DP834726
FREEHOLD	2	DP834889
FREEHOLD	2	DP836487
FREEHOLD	2	DP841360
FREEHOLD	2	DP843371
FREEHOLD	2	DP851896
FREEHOLD	2	DP867260
FREEHOLD	2	DP8691
FREEHOLD	2	DP873717
FREEHOLD	2	DP880657

Land Ownership	Lot	DP
FREEHOLD	3	DP1003305
FREEHOLD	3	DP1035288
FREEHOLD	3	DP1055477
FREEHOLD	3	DP1061571
FREEHOLD	3	DP1065923
FREEHOLD	3	DP1069000
FREEHOLD	3	DP1115923
FREEHOLD	3	DP1129284
FREEHOLD	3	DP11584
FREEHOLD	3	DP11747
FREEHOLD	3	DP1176054
FREEHOLD	3	DP1181682
FREEHOLD	3	DP11825
FREEHOLD	3	DP1184613
FREEHOLD	3	DP12136
FREEHOLD	3	DP1227159
FREEHOLD	3	DP124547
FREEHOLD	3	DP12493
FREEHOLD	3	DP13008
FREEHOLD	3	DP132841
FREEHOLD	3	DP13897
FREEHOLD	3	DP240664
FREEHOLD	3	DP547566
FREEHOLD	3	DP575428
FREEHOLD	3	DP602482
FREEHOLD	3	DP617927
FREEHOLD	3	DP618957
FREEHOLD	3	DP709474
FREEHOLD	3	DP714067
FREEHOLD	3	DP727398
FREEHOLD	3	DP745656
FREEHOLD	3	DP755225
FREEHOLD	3	DP758382
FREEHOLD	3	DP786248
FREEHOLD	3	DP805838
FREEHOLD	3	DP807322
FREEHOLD	3	DP836487
FREEHOLD	3	DP867260
FREEHOLD	3	DP880657
FREEHOLD	4	DP1003305
FREEHOLD	4	DP1034264
FREEHOLD	4	DP1035288
FREEHOLD	4	DP1061121

Land Ownership	Lot	DP
FREEHOLD	4	DP1061571
FREEHOLD	4	DP1065923
FREEHOLD	4	DP1069000
FREEHOLD	4	DP1129284
FREEHOLD	4	DP11504
FREEHOLD	4	DP11584
FREEHOLD	4	DP11747
FREEHOLD	4	DP1176054
FREEHOLD	4	DP1181682
FREEHOLD	4	DP11825
FREEHOLD	4	DP1184613
FREEHOLD	4	DP12136
FREEHOLD	4	DP1227159
FREEHOLD	4	DP12493
FREEHOLD	4	DP13008
FREEHOLD	4	DP13656
FREEHOLD	4	DP13687
FREEHOLD	4	DP13897
FREEHOLD	4	DP240664
FREEHOLD	4	DP571638
FREEHOLD	4	DP589534
FREEHOLD	4	DP619556
FREEHOLD	4	DP709474
FREEHOLD	4	DP714067
FREEHOLD	4	DP727398
FREEHOLD	4	DP755225
FREEHOLD	4	DP758382
FREEHOLD	4	DP805838
FREEHOLD	4	DP807322
FREEHOLD	4	DP836487
FREEHOLD	4	DP880657
FREEHOLD	4	DP1061121
FREEHOLD	4	DP1061571
FREEHOLD	4	DP1063410
FREEHOLD	4	DP1069000
FREEHOLD	4	DP11504
FREEHOLD	4	DP11584
FREEHOLD	4	DP11747
FREEHOLD	4	DP1176054
FREEHOLD	4	DP1181682
FREEHOLD	4	DP11825
FREEHOLD	4	DP1184613
FREEHOLD	4	DP12136

Land Ownership	Lot	DP
FREEHOLD	4	DP1222967
FREEHOLD	4	DP12493
FREEHOLD	4	DP13008
FREEHOLD	4	DP13656
FREEHOLD	4	DP13687
FREEHOLD	4	DP13897
FREEHOLD	4	DP32572
FREEHOLD	4	DP619556
FREEHOLD	4	DP69968
FREEHOLD	4	DP709474
FREEHOLD	4	DP714067
FREEHOLD	4	DP727398
FREEHOLD	4	DP758382
FREEHOLD	4	DP775122
FREEHOLD	4	DP805838
FREEHOLD	4	DP807322
FREEHOLD	4	DP836487
FREEHOLD	4	DP8691
FREEHOLD	4	DP880657
FREEHOLD	6	DP1034264
FREEHOLD	6	DP1061571
FREEHOLD	6	DP1063410
FREEHOLD	6	DP1069000
FREEHOLD	6	DP11504
FREEHOLD	6	DP11584
FREEHOLD	6	DP11747
FREEHOLD	6	DP1181682
FREEHOLD	6	DP11825
FREEHOLD	6	DP1184613
FREEHOLD	6	DP12136
FREEHOLD	6	DP1222967
FREEHOLD	6	DP12493
FREEHOLD	6	DP13008
FREEHOLD	6	DP131087
FREEHOLD	6	DP13656
FREEHOLD	6	DP13687
FREEHOLD	6	DP709474
FREEHOLD	6	DP714067
FREEHOLD	6	DP727398
FREEHOLD	6	DP732181
FREEHOLD	6	DP758382
FREEHOLD	6	DP775122
FREEHOLD	6	DP805838

Land Ownership	Lot	DP
FREEHOLD	6	DP807322
FREEHOLD	6	DP836487
FREEHOLD	6	DP880657
FREEHOLD	7	DP1034264
FREEHOLD	7	DP1061571
FREEHOLD	7	DP1063410
FREEHOLD	7	DP1069000
FREEHOLD	7	DP11504
FREEHOLD	7	DP11584
FREEHOLD	7	DP11747
FREEHOLD	7	DP1181682
FREEHOLD	7	DP11825
FREEHOLD	7	DP1184613
FREEHOLD	7	DP12136
FREEHOLD	7	DP12493
FREEHOLD	7	DP13008
FREEHOLD	7	DP13656
FREEHOLD	7	DP13687
FREEHOLD	7	DP240664
FREEHOLD	7	DP727398
FREEHOLD	7	DP7396
FREEHOLD	7	DP758382
FREEHOLD	7	DP775122
FREEHOLD	7	DP805838
FREEHOLD	7	DP880657
FREEHOLD	8	DP1034264
FREEHOLD	8	DP1069000
FREEHOLD	8	DP11504
FREEHOLD	8	DP11584
FREEHOLD	8	DP11747
FREEHOLD	8	DP1181682
FREEHOLD	8	DP11825
FREEHOLD	8	DP1184613
FREEHOLD	8	DP12136
FREEHOLD	8	DP12493
FREEHOLD	8	DP13008
FREEHOLD	8	DP13656
FREEHOLD	8	DP13687
FREEHOLD	8	DP13897
FREEHOLD	8	DP240664
FREEHOLD	8	DP69968
FREEHOLD	8	DP727398
FREEHOLD	8	DP7396

Land Ownership	Lot	DP
FREEHOLD	8	DP755225
FREEHOLD	8	DP758382
FREEHOLD	8	DP805838
FREEHOLD	8	DP8691
FREEHOLD	8	DP880657
FREEHOLD	9	DP1034264
FREEHOLD	9	DP1069057
FREEHOLD	9	DP1118095
FREEHOLD	9	DP11504
FREEHOLD	9	DP11584
FREEHOLD	9	DP11747
FREEHOLD	9	DP1181682
FREEHOLD	9	DP11825
FREEHOLD	9	DP1184613
FREEHOLD	9	DP12136
FREEHOLD	9	DP12493
FREEHOLD	9	DP13008
FREEHOLD	9	DP13656
FREEHOLD	9	DP13687
FREEHOLD	9	DP13897
FREEHOLD	9	DP240664
FREEHOLD	9	DP32572
FREEHOLD	9	DP727398
FREEHOLD	9	DP755225
FREEHOLD	9	DP758382
FREEHOLD	9	DP775122
FREEHOLD	9	DP805838
FREEHOLD	9	DP8691
FREEHOLD	9	DP880657
FREEHOLD	10	DP1000136
FREEHOLD	10	DP1034264
FREEHOLD	10	DP1069000
FREEHOLD	10	DP1069057
FREEHOLD	10	DP1075943
FREEHOLD	10	DP11504
FREEHOLD	10	DP11584
FREEHOLD	10	DP11747
FREEHOLD	10	DP1181682
FREEHOLD	10	DP11825
FREEHOLD	10	DP1184613
FREEHOLD	10	DP12136
FREEHOLD	10	DP1232003
FREEHOLD	10	DP12493

Land Ownership	Lot	DP
FREEHOLD	10	DP13008
FREEHOLD	10	DP13656
FREEHOLD	10	DP13687
FREEHOLD	10	DP13897
FREEHOLD	10	DP240664
FREEHOLD	10	DP69968
FREEHOLD	10	DP708972
FREEHOLD	10	DP727398
FREEHOLD	10	DP7396
FREEHOLD	10	DP758382
FREEHOLD	10	DP853942
FREEHOLD	10	DP8691
FREEHOLD	11	DP1000136
FREEHOLD	11	DP1034264
FREEHOLD	11	DP1069000
FREEHOLD	11	DP1075943
FREEHOLD	11	DP1093269
FREEHOLD	11	DP11584
FREEHOLD	11	DP1159608
FREEHOLD	11	DP11747
FREEHOLD	11	DP11825
FREEHOLD	11	DP1184254
FREEHOLD	11	DP1184613
FREEHOLD	11	DP12136
FREEHOLD	11	DP12493
FREEHOLD	11	DP1280456
FREEHOLD	11	DP13008
FREEHOLD	11	DP13656
FREEHOLD	11	DP13897
FREEHOLD	11	DP601130
FREEHOLD	11	DP69968
FREEHOLD	11	DP733545
FREEHOLD	11	DP7396
FREEHOLD	11	DP758382
FREEHOLD	11	DP775122
FREEHOLD	11	DP840227
FREEHOLD	11	DP866231
FREEHOLD	11	DP8691
FREEHOLD	12	DP1034264
FREEHOLD	12	DP1075943
FREEHOLD	12	DP11584
FREEHOLD	12	DP1159608
FREEHOLD	12	DP11747

Land Ownership	Lot	DP
FREEHOLD	12	DP11825
FREEHOLD	12	DP1184613
FREEHOLD	12	DP1197817
FREEHOLD	12	DP12136
FREEHOLD	12	DP1219167
FREEHOLD	12	DP12493
FREEHOLD	12	DP1263587
FREEHOLD	12	DP1280456
FREEHOLD	12	DP13008
FREEHOLD	12	DP13656
FREEHOLD	12	DP634069
FREEHOLD	12	DP69968
FREEHOLD	12	DP7396
FREEHOLD	12	DP758382
FREEHOLD	12	DP866231
FREEHOLD	12	DP8691
FREEHOLD	13	DP1034264
FREEHOLD	13	DP11584
FREEHOLD	13	DP1159608
FREEHOLD	13	DP11747
FREEHOLD	13	DP11825
FREEHOLD	13	DP1184613
FREEHOLD	13	DP1194493
FREEHOLD	13	DP12136
FREEHOLD	13	DP1219167
FREEHOLD	13	DP12493
FREEHOLD	13	DP13008
FREEHOLD	13	DP13656
FREEHOLD	13	DP69968
FREEHOLD	13	DP758382
FREEHOLD	13	DP843329
FREEHOLD	13	DP866231
FREEHOLD	13	DP8691
FREEHOLD	14	DP1014546
FREEHOLD	14	DP1034264
FREEHOLD	14	DP1159608
FREEHOLD	14	DP11825
FREEHOLD	14	DP1184613
FREEHOLD	14	DP12136
FREEHOLD	14	DP1237761
FREEHOLD	14	DP12493
FREEHOLD	14	DP13008
FREEHOLD	14	DP13656

Land Ownership	Lot	DP
FREEHOLD	14	DP661009
FREEHOLD	14	DP758082
FREEHOLD	14	DP758382
FREEHOLD	14	DP775122
FREEHOLD	14	DP843329
FREEHOLD	14	DP8691
FREEHOLD	14	DP880138
FREEHOLD	15	DP1034264
FREEHOLD	15	DP1082788
FREEHOLD	15	DP1159608
FREEHOLD	15	DP11747
FREEHOLD	15	DP11825
FREEHOLD	15	DP1184613
FREEHOLD	15	DP12136
FREEHOLD	15	DP12493
FREEHOLD	15	DP13008
FREEHOLD	15	DP13656
FREEHOLD	15	DP758082
FREEHOLD	15	DP775122
FREEHOLD	15	DP843329
FREEHOLD	15	DP8691
FREEHOLD	15	DP875095
FREEHOLD	16	DP1014546
FREEHOLD	16	DP1034264
FREEHOLD	16	DP1095497
FREEHOLD	16	DP1130950
FREEHOLD	16	DP11747
FREEHOLD	16	DP11825
FREEHOLD	16	DP12136
FREEHOLD	16	DP12493
FREEHOLD	16	DP13008
FREEHOLD	16	DP13656
FREEHOLD	16	DP7396
FREEHOLD	16	DP758082
FREEHOLD	16	DP775122
FREEHOLD	16	DP8691
FREEHOLD	16	DP876894
FREEHOLD	17	DP1034264
FREEHOLD	17	DP11747
FREEHOLD	17	DP11825
FREEHOLD	17	DP12136
FREEHOLD	17	DP12493
FREEHOLD	17	DP13008

Land Ownership	Lot	DP
FREEHOLD	17	DP13656
FREEHOLD	17	DP758082
FREEHOLD	17	DP758382
FREEHOLD	17	DP775122
FREEHOLD	18	DP1034264
FREEHOLD	18	DP11825
FREEHOLD	18	DP12136
FREEHOLD	18	DP12493
FREEHOLD	18	DP13008
FREEHOLD	18	DP13656
FREEHOLD	18	DP758082
FREEHOLD	18	DP758382
FREEHOLD	18	DP775122
FREEHOLD	18	DP779060
FREEHOLD	19	DP1034264
FREEHOLD	19	DP1052902
FREEHOLD	19	DP11747
FREEHOLD	19	DP11825
FREEHOLD	19	DP12136
FREEHOLD	19	DP13008
FREEHOLD	19	DP13656
FREEHOLD	19	DP7396
FREEHOLD	19	DP758082
FREEHOLD	19	DP758382
FREEHOLD	19	DP775122
FREEHOLD	20	DP1034264
FREEHOLD	20	DP11747
FREEHOLD	20	DP11825
FREEHOLD	20	DP12493
FREEHOLD	20	DP13008
FREEHOLD	20	DP13226
FREEHOLD	20	DP13656
FREEHOLD	20	DP608964
FREEHOLD	20	DP7396
FREEHOLD	20	DP758082
FREEHOLD	20	DP758382
FREEHOLD	20	DP775122
FREEHOLD	20	DP880922
FREEHOLD	21	DP1034264
FREEHOLD	21	DP1036379
FREEHOLD	21	DP1079609
FREEHOLD	21	DP1079917
FREEHOLD	21	DP11747

Land Ownership	Lot	DP
FREEHOLD	21	DP11825
FREEHOLD	21	DP1241986
FREEHOLD	21	DP12493
FREEHOLD	21	DP1277741
FREEHOLD	21	DP13008
FREEHOLD	21	DP13656
FREEHOLD	21	DP657097
FREEHOLD	21	DP758082
FREEHOLD	21	DP758382
FREEHOLD	21	DP775122
FREEHOLD	21	DP806588
FREEHOLD	21	DP833965
FREEHOLD	21	DP862340
FREEHOLD	22	DP1036379
FREEHOLD	22	DP1079609
FREEHOLD	22	DP1079917
FREEHOLD	22	DP11747
FREEHOLD	22	DP11825
FREEHOLD	22	DP1241986
FREEHOLD	22	DP12493
FREEHOLD	22	DP1277741
FREEHOLD	22	DP13008
FREEHOLD	22	DP13656
FREEHOLD	22	DP758082
FREEHOLD	22	DP758382
FREEHOLD	22	DP833965
FREEHOLD	22	DP862340
FREEHOLD	23	DP1163880
FREEHOLD	23	DP11747
FREEHOLD	23	DP11825
FREEHOLD	23	DP1241986
FREEHOLD	23	DP12493
FREEHOLD	23	DP13008
FREEHOLD	23	DP13656
FREEHOLD	23	DP758082
FREEHOLD	23	DP758382
FREEHOLD	24	DP11747
FREEHOLD	24	DP11825
FREEHOLD	24	DP1241986
FREEHOLD	24	DP12493
FREEHOLD	24	DP13008
FREEHOLD	24	DP13656
FREEHOLD	24	DP758082

Land Ownership	Lot	DP
FREEHOLD	24	DP758382
FREEHOLD	25	DP11747
FREEHOLD	25	DP11825
FREEHOLD	25	DP12493
FREEHOLD	25	DP1252031
FREEHOLD	25	DP13008
FREEHOLD	25	DP13656
FREEHOLD	25	DP758082
FREEHOLD	26	DP1005818
FREEHOLD	26	DP11747
FREEHOLD	26	DP12493
FREEHOLD	26	DP1252031
FREEHOLD	26	DP13008
FREEHOLD	26	DP13656
FREEHOLD	26	DP758082
FREEHOLD	27	DP1005818
FREEHOLD	27	DP11747
FREEHOLD	27	DP12136
FREEHOLD	27	DP12493
FREEHOLD	27	DP1252031
FREEHOLD	27	DP13008
FREEHOLD	27	DP13656
FREEHOLD	27	DP658523
FREEHOLD	27	DP7396
FREEHOLD	28	DP1005818
FREEHOLD	28	DP11747
FREEHOLD	28	DP11825
FREEHOLD	28	DP12136
FREEHOLD	28	DP12493
FREEHOLD	28	DP1252031
FREEHOLD	28	DP13008
FREEHOLD	28	DP13656
FREEHOLD	28	DP7396
FREEHOLD	29	DP1005818
FREEHOLD	29	DP11747
FREEHOLD	29	DP11825
FREEHOLD	29	DP12136
FREEHOLD	29	DP12493
FREEHOLD	29	DP1252031
FREEHOLD	29	DP13008
FREEHOLD	29	DP13656
FREEHOLD	30	DP1005818
FREEHOLD	30	DP1083169

Land Ownership	Lot	DP
FREEHOLD	30	DP1144473
FREEHOLD	30	DP11747
FREEHOLD	30	DP11825
FREEHOLD	30	DP12136
FREEHOLD	30	DP12493
FREEHOLD	30	DP1252031
FREEHOLD	30	DP13008
FREEHOLD	30	DP13656
FREEHOLD	30	DP7396
FREEHOLD	30	DP849031
FREEHOLD	31	DP1083169
FREEHOLD	31	DP1144473
FREEHOLD	31	DP11747
FREEHOLD	31	DP11825
FREEHOLD	31	DP12136
FREEHOLD	31	DP12493
FREEHOLD	31	DP1252030
FREEHOLD	31	DP13008
FREEHOLD	31	DP13656
FREEHOLD	31	DP626738
FREEHOLD	31	DP7396
FREEHOLD	31	DP847374
FREEHOLD	31	DP849031
FREEHOLD	32	DP1144473
FREEHOLD	32	DP11825
FREEHOLD	32	DP12136
FREEHOLD	32	DP1252030
FREEHOLD	32	DP13008
FREEHOLD	32	DP13656
FREEHOLD	32	DP626738
FREEHOLD	32	DP7396
FREEHOLD	32	DP755215
FREEHOLD	32	DP755254
FREEHOLD	32	DP847374
FREEHOLD	33	DP1144473
FREEHOLD	33	DP11747
FREEHOLD	33	DP11825
FREEHOLD	33	DP12136
FREEHOLD	33	DP1252030
FREEHOLD	33	DP13008
FREEHOLD	34	DP1052033
FREEHOLD	34	DP1052062
FREEHOLD	34	DP11747

Land Ownership	Lot	DP
FREEHOLD	34	DP11825
FREEHOLD	34	DP12136
FREEHOLD	34	DP1252030
FREEHOLD	34	DP708501
FREEHOLD	34	DP801957
FREEHOLD	35	DP1045080
FREEHOLD	35	DP11747
FREEHOLD	35	DP11825
FREEHOLD	35	DP12136
FREEHOLD	35	DP1252028
FREEHOLD	35	DP13656
FREEHOLD	35	DP653974
FREEHOLD	35	DP755225
FREEHOLD	35	DP809095
FREEHOLD	36	DP11747
FREEHOLD	36	DP11825
FREEHOLD	36	DP12136
FREEHOLD	36	DP1252028
FREEHOLD	36	DP7396
FREEHOLD	36	DP809095
FREEHOLD	37	DP11825
FREEHOLD	37	DP12136
FREEHOLD	37	DP1252028
FREEHOLD	38	DP1148949
FREEHOLD	38	DP11747
FREEHOLD	38	DP11825
FREEHOLD	38	DP12136
FREEHOLD	39	DP11747
FREEHOLD	39	DP11825
FREEHOLD	39	DP7396
FREEHOLD	39	DP755225
FREEHOLD	40	DP11747
FREEHOLD	40	DP11825
FREEHOLD	40	DP755225
FREEHOLD	41	DP11747
FREEHOLD	41	DP11825
FREEHOLD	41	DP12136
FREEHOLD	41	DP13656
FREEHOLD	41	DP809589
FREEHOLD	41	DP850188
FREEHOLD	42	DP11747
FREEHOLD	42	DP11825
FREEHOLD	42	DP12136

Land Ownership	Lot	DP
FREEHOLD	42	DP13226
FREEHOLD	42	DP13656
FREEHOLD	42	DP610808
FREEHOLD	42	DP809589
FREEHOLD	42	DP812815
FREEHOLD	42	DP850188
FREEHOLD	43	DP11747
FREEHOLD	43	DP12136
FREEHOLD	43	DP13226
FREEHOLD	43	DP13656
FREEHOLD	44	DP11747
FREEHOLD	44	DP12136
FREEHOLD	44	DP13226
FREEHOLD	44	DP13656
FREEHOLD	45	DP11747
FREEHOLD	45	DP11825
FREEHOLD	45	DP12136
FREEHOLD	45	DP13656
FREEHOLD	45	DP635630
FREEHOLD	45	DP755225
FREEHOLD	46	DP11747
FREEHOLD	46	DP11825
FREEHOLD	46	DP12136
FREEHOLD	46	DP13656
FREEHOLD	46	DP755225
FREEHOLD	47	DP11747
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FREEHOLD	47	DP12136
FREEHOLD	47	DP13656
FREEHOLD	47	DP755225
FREEHOLD	48	DP11747
FREEHOLD	48	DP11825
FREEHOLD	48	DP12136
FREEHOLD	48	DP755225
FREEHOLD	49	DP11747
FREEHOLD	49	DP11825
FREEHOLD	49	DP12136
FREEHOLD	49	DP755225
FREEHOLD	50	DP11747
FREEHOLD	50	DP12136
FREEHOLD	50	DP13656
FREEHOLD	50	DP755225
FREEHOLD	51	DP1093350

Land Ownership	Lot	DP
FREEHOLD	51	DP11747
FREEHOLD	51	DP12136
FREEHOLD	51	DP13656
FREEHOLD	51	DP599170
FREEHOLD	51	DP755225
FREEHOLD	51	DP794214
FREEHOLD	52	DP1093350
FREEHOLD	52	DP11747
FREEHOLD	52	DP12136
FREEHOLD	52	DP13656
FREEHOLD	52	DP599170
FREEHOLD	53	DP11747
FREEHOLD	53	DP12136
FREEHOLD	53	DP13656
FREEHOLD	54	DP11747
FREEHOLD	54	DP11825
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FREEHOLD	54	DP755254
FREEHOLD	55	DP11747
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FREEHOLD	56	DP11825
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FREEHOLD	60	DP11825
FREEHOLD	60	DP1185153
FREEHOLD	60	DP12136
FREEHOLD	60	DP814379
FREEHOLD	61	DP11825
FREEHOLD	61	DP1185153

Land Ownership	Lot	DP
FREEHOLD	61	DP12136
FREEHOLD	61	DP814379
FREEHOLD	62	DP11825
FREEHOLD	62	DP12136
FREEHOLD	62	DP755225
FREEHOLD	63	DP11825
FREEHOLD	63	DP12136
FREEHOLD	63	DP755225
FREEHOLD	64	DP11825
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FREEHOLD	64	DP755225
FREEHOLD	65	DP11825
FREEHOLD	65	DP12136
FREEHOLD	65	DP755225
FREEHOLD	66	DP11825
FREEHOLD	66	DP12136
FREEHOLD	66	DP755225
FREEHOLD	67	DP11825
FREEHOLD	67	DP12136
FREEHOLD	67	DP627761
FREEHOLD	67	DP755225
FREEHOLD	68	DP1133266
FREEHOLD	68	DP11825
FREEHOLD	68	DP12136
FREEHOLD	69	DP11825
FREEHOLD	69	DP12136
FREEHOLD	70	DP11825
FREEHOLD	70	DP13226
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FREEHOLD	75	DP755254
FREEHOLD	76	DP11825
FREEHOLD	76	DP12136
FREEHOLD	77	DP11825
FREEHOLD	77	DP12136
FREEHOLD	78	DP11825

Land Ownership	Lot	DP
FREEHOLD	78	DP12136
FREEHOLD	79	DP11825
FREEHOLD	79	DP12136
FREEHOLD	80	DP11825
FREEHOLD	80	DP12136
FREEHOLD	81	DP1046758
FREEHOLD	81	DP1088750
FREEHOLD	81	DP11825
FREEHOLD	81	DP12136
FREEHOLD	81	DP755225
FREEHOLD	82	DP1046758
FREEHOLD	82	DP1088750
FREEHOLD	82	DP11825
FREEHOLD	82	DP12136
FREEHOLD	83	DP1046758
FREEHOLD	83	DP11825
FREEHOLD	84	DP11825
FREEHOLD	84	DP13687
FREEHOLD	84	DP755225
FREEHOLD	85	DP11825
FREEHOLD	85	DP12136
FREEHOLD	85	DP755225
FREEHOLD	86	DP11825
FREEHOLD	86	DP12136
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FREEHOLD	87	DP12136
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FREEHOLD	88	DP12136
FREEHOLD	88	DP13687
FREEHOLD	89	DP11825
FREEHOLD	89	DP12136
FREEHOLD	89	DP13687
FREEHOLD	90	DP11825
FREEHOLD	90	DP12136
FREEHOLD	90	DP13687
FREEHOLD	90	DP755225
FREEHOLD	91	DP1064579
FREEHOLD	91	DP11825
FREEHOLD	91	DP12136
FREEHOLD	91	DP1272564
FREEHOLD	91	DP13687
FREEHOLD	91	DP878153
FREEHOLD	92	DP11825

Land Ownership	Lot	DP
FREEHOLD	92	DP12136
FREEHOLD	92	DP1272564
FREEHOLD	92	DP878153
FREEHOLD	93	DP11825
FREEHOLD	93	DP12136
FREEHOLD	94	DP11825
FREEHOLD	94	DP12136
FREEHOLD	95	DP11825
FREEHOLD	95	DP12136
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FREEHOLD	98	DP755225
FREEHOLD	98	DP755254
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FREEHOLD	100	DP12136
FREEHOLD	100	DP1219658
FREEHOLD	100	DP255530
FREEHOLD	100	DP755254
FREEHOLD	101	DP1033985
FREEHOLD	101	DP11825
FREEHOLD	101	DP12136
FREEHOLD	101	DP1219658
FREEHOLD	101	DP1228184
FREEHOLD	101	DP1231595
FREEHOLD	101	DP1243665
FREEHOLD	101	DP803246
FREEHOLD	101	DP817644
FREEHOLD	101	DP826687
FREEHOLD	101	DP853204
FREEHOLD	102	DP1033985
FREEHOLD	102	DP11825
FREEHOLD	102	DP12136
FREEHOLD	102	DP1228184
FREEHOLD	102	DP1243665

Land Ownership	Lot	DP
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FREEHOLD	102	DP826687
FREEHOLD	102	DP853204
FREEHOLD	103	DP11825
FREEHOLD	103	DP12136
FREEHOLD	103	DP1228184
FREEHOLD	103	DP1243665
FREEHOLD	103	DP853204
FREEHOLD	104	DP11825
FREEHOLD	104	DP12136
FREEHOLD	104	DP1228184
FREEHOLD	104	DP1243665
FREEHOLD	104	DP255530
FREEHOLD	104	DP853204
FREEHOLD	105	DP11825
FREEHOLD	105	DP12136
FREEHOLD	105	DP1228184
FREEHOLD	105	DP1243665
FREEHOLD	105	DP853204
FREEHOLD	106	DP11825
FREEHOLD	106	DP12136
FREEHOLD	106	DP1228184
FREEHOLD	106	DP1243665
FREEHOLD	106	DP853204
FREEHOLD	107	DP11825
FREEHOLD	107	DP12136
FREEHOLD	107	DP1228184
FREEHOLD	107	DP1243665
FREEHOLD	107	DP853204
FREEHOLD	108	DP11825
FREEHOLD	108	DP12136
FREEHOLD	108	DP1228184
FREEHOLD	108	DP1243665
FREEHOLD	108	DP755225
FREEHOLD	109	DP11825
FREEHOLD	109	DP12136
FREEHOLD	109	DP1228184
FREEHOLD	109	DP1243665
FREEHOLD	109	DP755225
FREEHOLD	110	DP11825
FREEHOLD	110	DP1228184
FREEHOLD	110	DP1243665
FREEHOLD	110	DP662217

Land Ownership	Lot	DP
FREEHOLD	110	DP859794
FREEHOLD	110	DP881097
FREEHOLD	111	DP11825
FREEHOLD	111	DP1185747
FREEHOLD	111	DP12136
FREEHOLD	111	DP1228184
FREEHOLD	111	DP1243665
FREEHOLD	111	DP859794
FREEHOLD	111	DP881097
FREEHOLD	112	DP11825
FREEHOLD	112	DP1185747
FREEHOLD	112	DP12136
FREEHOLD	112	DP1243665
FREEHOLD	113	DP1013882
FREEHOLD	113	DP11825
FREEHOLD	113	DP1243665
FREEHOLD	114	DP1013882
FREEHOLD	114	DP11825
FREEHOLD	114	DP1243665
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FREEHOLD	115	DP1243665
FREEHOLD	115	DP666780
FREEHOLD	116	DP11825
FREEHOLD	116	DP12136
FREEHOLD	116	DP1243665
FREEHOLD	117	DP11825
FREEHOLD	117	DP1243665
FREEHOLD	117	DP755215
FREEHOLD	118	DP11825
FREEHOLD	118	DP1243665
FREEHOLD	119	DP11825
FREEHOLD	119	DP12136
FREEHOLD	119	DP1243665
FREEHOLD	120	DP1114826
FREEHOLD	120	DP12136
FREEHOLD	120	DP1243665
FREEHOLD	120	DP755225
FREEHOLD	121	DP1070821
FREEHOLD	121	DP1114826
FREEHOLD	121	DP1126842
FREEHOLD	121	DP12136
FREEHOLD	121	DP1243665
FREEHOLD	121	DP755225

Land Ownership	Lot	DP
FREEHOLD	121	DP805927
FREEHOLD	121	DP848796
FREEHOLD	121	DP861773
FREEHOLD	122	DP1070821
FREEHOLD	122	DP1126842
FREEHOLD	122	DP12136
FREEHOLD	122	DP1243665
FREEHOLD	122	DP848796
FREEHOLD	122	DP861773
FREEHOLD	123	DP12136
FREEHOLD	123	DP1243665
FREEHOLD	124	DP1243665
FREEHOLD	125	DP12136
FREEHOLD	125	DP1243665
FREEHOLD	125	DP755225
FREEHOLD	126	DP12136
FREEHOLD	126	DP1243665
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FREEHOLD	128	DP12136
FREEHOLD	128	DP1243665
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FREEHOLD	130	DP1243665
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FREEHOLD	132	DP1243665
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FREEHOLD	133	DP755225
FREEHOLD	134	DP12136
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FREEHOLD	137	DP1243665
FREEHOLD	138	DP12136
FREEHOLD	138	DP1243665
FREEHOLD	138	DP755225
FREEHOLD	139	DP12136
FREEHOLD	139	DP1243665

Land Ownership	Lot	DP
FREEHOLD	140	DP12136
FREEHOLD	140	DP1243665
FREEHOLD	140	DP755225
FREEHOLD	141	DP12136
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FREEHOLD	159	DP12136
FREEHOLD	159	DP1257589
FREEHOLD	160	DP12136
FREEHOLD	160	DP1257589
FREEHOLD	161	DP12136

Land Ownership	Lot	DP
FREEHOLD	161	DP1214464
FREEHOLD	161	DP1257589
FREEHOLD	162	DP12136
FREEHOLD	162	DP1214464
FREEHOLD	162	DP1257589
FREEHOLD	163	DP12136
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FREEHOLD	176	DP1257589
FREEHOLD	176	DP13226
FREEHOLD	177	DP12136
FREEHOLD	177	DP1257589
FREEHOLD	178	DP12136
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Land Ownership	Lot	DP
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FREEHOLD	182	DP12136
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FREEHOLD	185	DP12136
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FREEHOLD	199	DP13226
FREEHOLD	200	DP13226
FREEHOLD	201	DP1062990
FREEHOLD	201	DP1136015
FREEHOLD	201	DP1232862
FREEHOLD	201	DP13226
FREEHOLD	202	DP1062990
FREEHOLD	202	DP1136015
FREEHOLD	202	DP1232862
FREEHOLD	202	DP13226
FREEHOLD	203	DP1232862
FREEHOLD	203	DP13226
FREEHOLD	204	DP1062990
FREEHOLD	204	DP1232862
FREEHOLD	204	DP13226
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FREEHOLD	205	DP13226
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FREEHOLD	208	DP13226
FREEHOLD	209	DP1232862
FREEHOLD	209	DP13226
FREEHOLD	210	DP1232862
FREEHOLD	210	DP13226
FREEHOLD	211	DP1044421

Land Ownership	Lot	DP
FREEHOLD	211	DP1083970
FREEHOLD	211	DP1232862
FREEHOLD	211	DP13226
FREEHOLD	212	DP1044421
FREEHOLD	212	DP1232862
FREEHOLD	212	DP13226
FREEHOLD	213	DP1044421
FREEHOLD	213	DP1232862
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FREEHOLD	215	DP1232862
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FREEHOLD	231	DP1005135
FREEHOLD	231	DP1232862
FREEHOLD	232	DP1232862
FREEHOLD	233	DP1232862
FREEHOLD	233	DP808055
FREEHOLD	234	DP1232862
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FREEHOLD	234	DP808055
FREEHOLD	235	DP1017683
FREEHOLD	235	DP1232862

Land Ownership	Lot	DP
FREEHOLD	235	DP755225
FREEHOLD	236	DP1232862
FREEHOLD	237	DP1232862
FREEHOLD	238	DP1017683
FREEHOLD	238	DP1232862
FREEHOLD	239	DP1017683
FREEHOLD	240	DP1017683
FREEHOLD	243	DP1017683
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FREEHOLD	253	DP755225
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FREEHOLD	255	DP755225
FREEHOLD	256	DP755225
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Land Ownership	Lot	DP
FREEHOLD	310	DP1236971
FREEHOLD	311	DP1091621
FREEHOLD	311	DP1236971
FREEHOLD	312	DP1091621
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FREEHOLD	331	DP1064519
FREEHOLD	331	DP1236971
FREEHOLD	331	DP829406
FREEHOLD	331	DP879525
FREEHOLD	332	DP1236971
FREEHOLD	332	DP829406
FREEHOLD	332	DP879525
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FREEHOLD	336	DP1236971
FREEHOLD	341	DP1044033
FREEHOLD	341	DP1189472
FREEHOLD	342	DP1044033
FREEHOLD	342	DP1189472
FREEHOLD	345	DP1087573

Land Ownership	Lot	DP
FREEHOLD	351	DP808936
FREEHOLD	352	DP808936
FREEHOLD	372	DP832114
FREEHOLD	401	DP1239815
FREEHOLD	401	DP833011
FREEHOLD	402	DP1239815
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FREEHOLD	415	DP1239815
FREEHOLD	431	DP1150174
FREEHOLD	432	DP1150174
FREEHOLD	441	DP633142
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FREEHOLD	500	DP710475
FREEHOLD	501	DP1083188
FREEHOLD	502	DP1083188
FREEHOLD	521	DP1003186
FREEHOLD	522	DP1003186
FREEHOLD	523	DP708708
FREEHOLD	621	DP1124419
FREEHOLD	622	DP1124419
FREEHOLD	701	DP1182904
FREEHOLD	702	DP1182904
FREEHOLD	836	DP1112858
FREEHOLD	973	DP804896
FREEHOLD	1001	DP1102332
FREEHOLD	1001	DP856790
FREEHOLD	1002	DP1102332
FREEHOLD	1003	DP1102332
FREEHOLD	1004	DP1102332

Land Ownership	Lot	DP
FREEHOLD	1005	DP1102332
FREEHOLD	1006	DP1112552
FREEHOLD	1007	DP1112552
FREEHOLD	1009	DP1112552
FREEHOLD	1010	DP1121795
FREEHOLD	1011	DP1121795
FREEHOLD	1012	DP1121795
FREEHOLD	1013	DP1121795
FREEHOLD	1014	DP1121795
FREEHOLD	1016	DP1121795
FREEHOLD	1017	DP1121795
FREEHOLD	1018	DP1121795
FREEHOLD	1019	DP1167712
FREEHOLD	1020	DP1167712
FREEHOLD	1021	DP1167712
FREEHOLD	1131	DP1141419
FREEHOLD	1132	DP1141419
FREEHOLD	1241	DP1105946
FREEHOLD	1242	DP1105946
FREEHOLD	1291	DP1113215
FREEHOLD	1292	DP1113215
FREEHOLD	1461	DP1112665
FREEHOLD	1462	DP1112665
FREEHOLD	1678	DP740713
FREEHOLD	1711	DP1121895
FREEHOLD	1712	DP1121895
FREEHOLD	1841	DP1168502
FREEHOLD	1842	DP1168502
FREEHOLD	2031	DP1141149
FREEHOLD	2032	DP1141149
FREEHOLD	2051	DP1145831
FREEHOLD	2052	DP1145831
FREEHOLD	2081	DP1219443
FREEHOLD	2082	DP1219443
FREEHOLD	2361	DP1233134
FREEHOLD	2362	DP1233134
FREEHOLD	2371	DP1170348
FREEHOLD	2372	DP1170348
FREEHOLD	2701	DP1219166
FREEHOLD	2702	DP1219166
FREEHOLD	3051	DP1264825
FREEHOLD	3052	DP1264825
FREEHOLD	3091	DP1182489

Land Ownership	Lot	DP
FREEHOLD	3092	DP1182489
FREEHOLD	3141	DP1189281
FREEHOLD	3142	DP1189281
FREEHOLD	63A	DP12136
FREEHOLD	A	DP105587
FREEHOLD	A	DP161957
FREEHOLD	A	DP19714
FREEHOLD	A	DP311973
FREEHOLD	A	DP318547
FREEHOLD	A	DP321307
FREEHOLD	A	DP350427
FREEHOLD	A	DP363723
FREEHOLD	A	DP412769
FREEHOLD	B	DP19714
FREEHOLD	B	DP318547
FREEHOLD	B	DP321307
FREEHOLD	B	DP350427
FREEHOLD	B	DP363723
FREEHOLD	C	DP19714
FREEHOLD	D	DP19714
FREEHOLD	E	DP19714
HUNTER WATER CORPORATION LIMITED	2	DP726861
HUNTER WATER CORPORATION LIMITED	10	DP1181682
HUNTER WATER CORPORATION LIMITED	20	DP608964
HUNTER WATER CORPORATION LIMITED	101	DP817644
HUNTER WATER CORPORATION LIMITED	121	DP848796
HUNTER WATER CORPORATION LIMITED	122	DP848796
HUNTER WATER CORPORATION LIMITED	136	DP1243665
HUNTER WATER CORPORATION LIMITED	310	DP1091621
LOCAL GOVERNMENT AUTHORITY	1	DP1182760
LOCAL GOVERNMENT AUTHORITY	38	DP1252028
LOCAL GOVERNMENT AUTHORITY	134	DP1243665
MINE OWNED LAND	1	DP1145356
MINE OWNED LAND	1	DP11747
MINE OWNED LAND	1	DP1182760
MINE OWNED LAND	1	DP124547

Land Ownership	Lot	DP
MINE OWNED LAND	1	DP131054
MINE OWNED LAND	1	DP131087
MINE OWNED LAND	1	DP69968
MINE OWNED LAND	1	DP709338
MINE OWNED LAND	1	DP775718
MINE OWNED LAND	1	DP819222
MINE OWNED LAND	1	DP823133
MINE OWNED LAND	1	DP828916
MINE OWNED LAND	1	DP870512
MINE OWNED LAND	1	DP87087
MINE OWNED LAND	2	DP11747
MINE OWNED LAND	2	DP124547
MINE OWNED LAND	2	DP131087
MINE OWNED LAND	2	DP329463
MINE OWNED LAND	2	DP69968
MINE OWNED LAND	2	DP709338
MINE OWNED LAND	2	DP714067
MINE OWNED LAND	2	DP755225
MINE OWNED LAND	2	DP775718
MINE OWNED LAND	2	DP819222
MINE OWNED LAND	2	DP828916
MINE OWNED LAND	2	DP873717
MINE OWNED LAND	3	DP11747
MINE OWNED LAND	3	DP124547
MINE OWNED LAND	3	DP131087
MINE OWNED LAND	3	DP714067
MINE OWNED LAND	3	DP755225
MINE OWNED LAND	4	DP11747
MINE OWNED LAND	4	DP131087
MINE OWNED LAND	4	DP755225
MINE OWNED LAND	5	DP11747
MINE OWNED LAND	5	DP131087
MINE OWNED LAND	5	DP69968
MINE OWNED LAND	6	DP131087
MINE OWNED LAND	6	DP13656
MINE OWNED LAND	7	DP13656
MINE OWNED LAND	8	DP11747
MINE OWNED LAND	8	DP1265041
MINE OWNED LAND	8	DP69968
MINE OWNED LAND	9	DP11747
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MINE OWNED LAND	10	DP11747
MINE OWNED LAND	10	DP69968

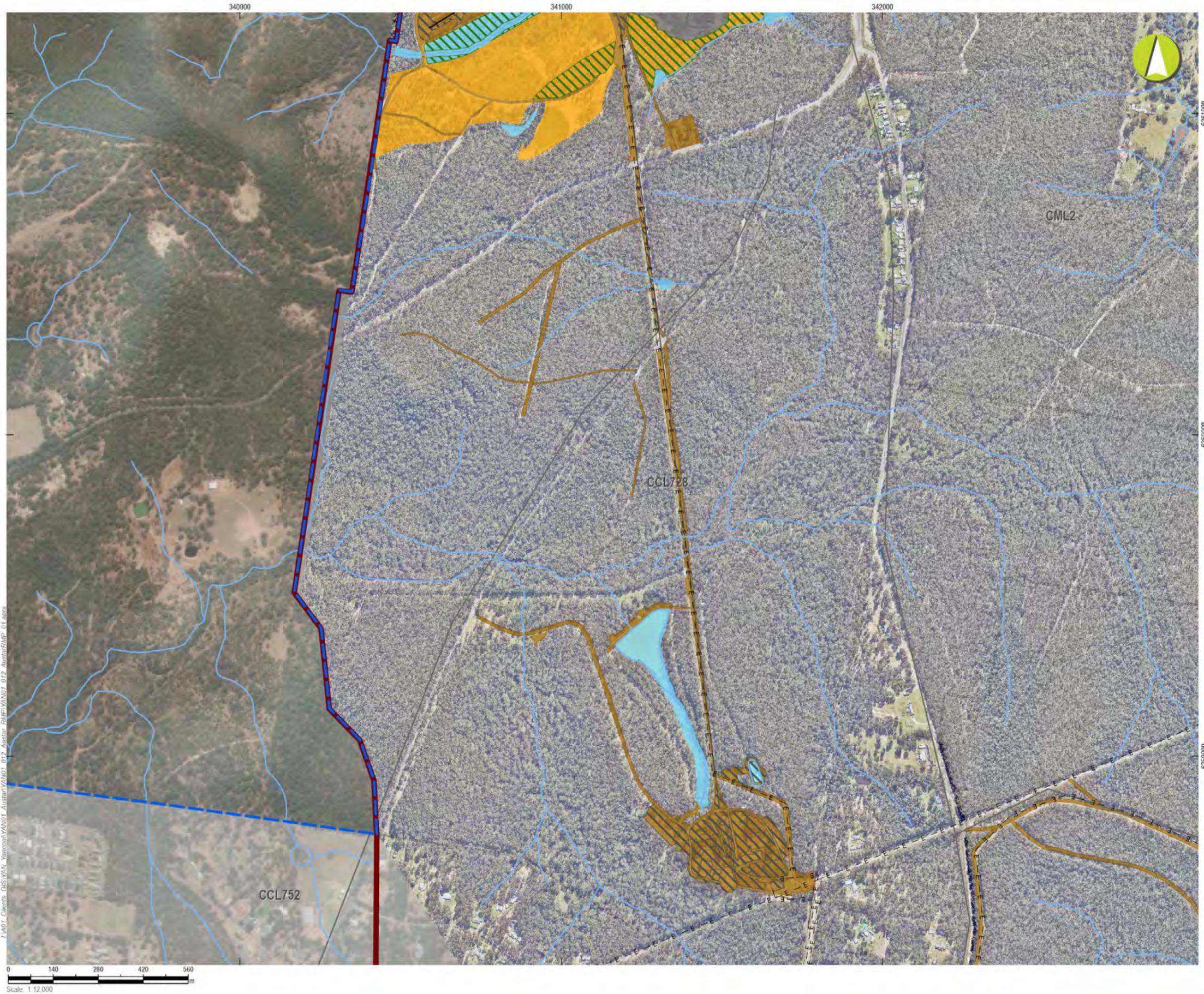
Land Ownership	Lot	DP
MINE OWNED LAND	11	DP11747
MINE OWNED LAND	11	DP69968
MINE OWNED LAND	11	DP866231
MINE OWNED LAND	12	DP11747
MINE OWNED LAND	12	DP69968
MINE OWNED LAND	12	DP755225
MINE OWNED LAND	12	DP866231
MINE OWNED LAND	13	DP11747
MINE OWNED LAND	13	DP69968
MINE OWNED LAND	13	DP755225
MINE OWNED LAND	13	DP866231
MINE OWNED LAND	14	DP11747
MINE OWNED LAND	14	DP755225
MINE OWNED LAND	15	DP11747
MINE OWNED LAND	15	DP13656
MINE OWNED LAND	16	DP11747
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MINE OWNED LAND	17	DP11747
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MINE OWNED LAND	20	DP13656
MINE OWNED LAND	21	DP1034264
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MINE OWNED LAND	28	DP11747
MINE OWNED LAND	28	DP13656
MINE OWNED LAND	29	DP13656
MINE OWNED LAND	30	DP13656
MINE OWNED LAND	31	DP11747

Land Ownership	Lot	DP
MINE OWNED LAND	32	DP11747
MINE OWNED LAND	32	DP755215
MINE OWNED LAND	34	DP11747
MINE OWNED LAND	35	DP11747
MINE OWNED LAND	35	DP755225
MINE OWNED LAND	36	DP11747
MINE OWNED LAND	37	DP11747
MINE OWNED LAND	38	DP11747
MINE OWNED LAND	41	DP11747
MINE OWNED LAND	41	DP850188
MINE OWNED LAND	42	DP11747
MINE OWNED LAND	42	DP812815
MINE OWNED LAND	42	DP850188
MINE OWNED LAND	43	DP11747
MINE OWNED LAND	44	DP11747
MINE OWNED LAND	45	DP11747
MINE OWNED LAND	47	DP11747
MINE OWNED LAND	48	DP11747
MINE OWNED LAND	49	DP11747
MINE OWNED LAND	50	DP11747
MINE OWNED LAND	52	DP11747
MINE OWNED LAND	53	DP11747
MINE OWNED LAND	54	DP11747
MINE OWNED LAND	55	DP11747
MINE OWNED LAND	56	DP11747
MINE OWNED LAND	57	DP11747
MINE OWNED LAND	58	DP11747
MINE OWNED LAND	64	DP755225
MINE OWNED LAND	65	DP755225
MINE OWNED LAND	66	DP755225
MINE OWNED LAND	67	DP755225
MINE OWNED LAND	75	DP755225
MINE OWNED LAND	91	DP1064579
MINE OWNED LAND	96	DP755254
MINE OWNED LAND	98	DP755254
MINE OWNED LAND	99	DP755225
MINE OWNED LAND	99	DP755254
MINE OWNED LAND	100	DP255530
MINE OWNED LAND	100	DP755254
MINE OWNED LAND	104	DP255530
MINE OWNED LAND	120	DP755225
MINE OWNED LAND	125	DP755225
MINE OWNED LAND	202	DP1136015

Land Ownership	Lot	DP
MINE OWNED LAND	215	DP755225
MINE OWNED LAND	216	DP192812
MINE OWNED LAND	223	DP755225
MINE OWNED LAND	255	DP755225
MINE OWNED LAND	256	DP755225
MINE OWNED LAND	973	DP804896
MINE OWNED LAND	2051	DP1145831
MINISTER FOR EDUCATION	1	DP122731
MINISTER FOR EDUCATION	1	DP175536
MINISTER FOR EDUCATION	1	DP309362
MINISTER FOR EDUCATION	1	DP795298
MINISTER FOR EDUCATION	4	DP758382
MINISTER FOR EDUCATION	5	DP758382
MINISTER FOR EDUCATION	258	DP820562
MINISTER FOR EDUCATION	311	DP1091621
MINISTER FOR EDUCATION	331	DP829406
MINISTER FOR EDUCATION	332	DP829406
NSW GOVERNMENT	1	DP1265041
NSW GOVERNMENT	4	DP1265041
NSW GOVERNMENT	5	DP1265041
NSW GOVERNMENT	6	DP1265041
NSW GOVERNMENT	7	DP1265041
NSW GOVERNMENT	8	DP1265041
NSW GOVERNMENT	12	DP755215
NSW GOVERNMENT	24	DP755215
NSW GOVERNMENT	138	DP755215
NSW GOVERNMENT	140	DP755215
NSW GOVERNMENT	581	DP1017350
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UNKNOWN	2	DP602482
UNKNOWN	21	DP657097

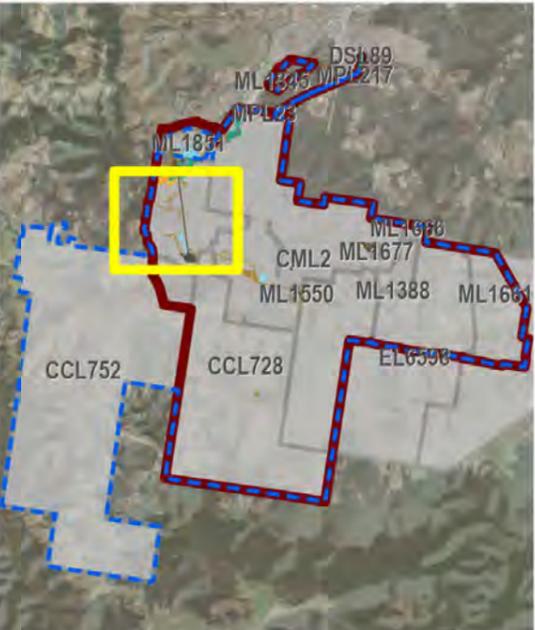
## **APPENDIX: B**

# **MINING DOMAINS BY CMA**



**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Auster Mine Plan
- Road
- Railway
- Electricity Transmission Line
- Creek lines
- Current Authorisations**
- Coal - Current Titles
- Rehabilitation Phase**
- Decommissioning
- Ecosystem and Land Use Establishment
- Mining Domain Type**
- Domain 1: Infrastructure Area
- Domain 2: Tailings Storage Facility
- Domain 3: Water Management Area
- Domain 4: Overburden Emplacement Area

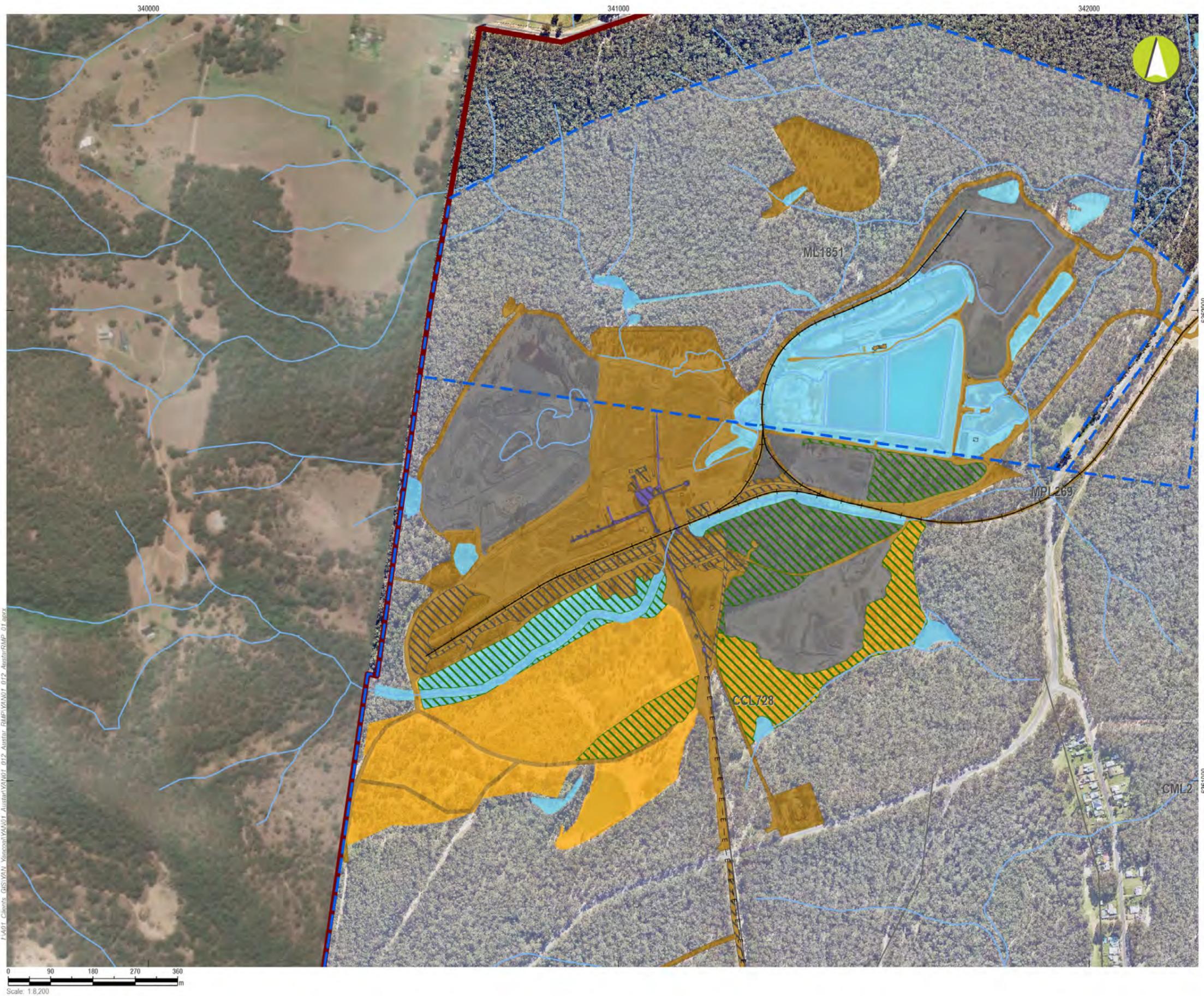


**Auster Coal Mine**

**Current Status of Mining and Rehabilitation**  
**FIGURE 3**

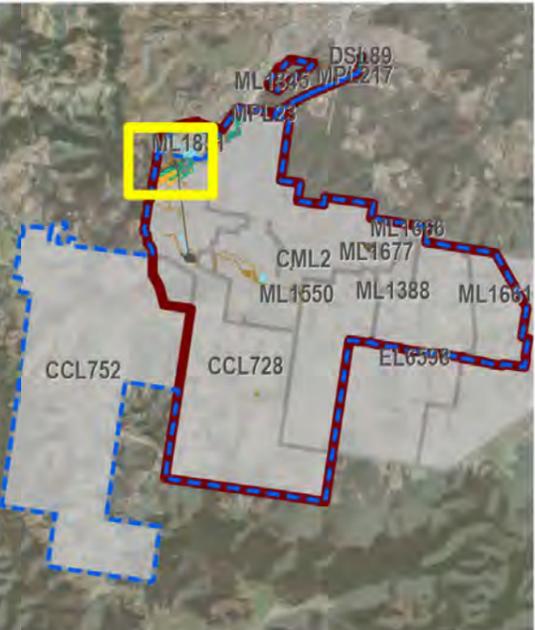
**CMA 1 - Auster Pit Top Facilities**

Mine name	Auster Coal Mine
Plan name	Auster Coal Mine RMP
Year of anticipated relinquishment	TBA on final submission
Data theme submission ID No.	xxxx   xxxx
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	26/09/2025



**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Road
- Railway
- Electricity Transmission Line
- Creek lines
- Current Authorisations**
- Coal - Current Titles
- Rehabilitation Phase**
- Decommissioning
- Ecosystem and Land Use Establishment
- Mining Domain Type**
- Domain 1: Infrastructure Area
- Domain 2: Tailings Storage Facility
- Domain 3: Water Management Area
- Domain 4: Overburden Emplacement Area
- Domain 7: Beneficiation Facility



**Austar Coal Mine**

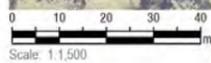
**Current Status of Mining and Rehabilitation**  
**FIGURE 3**

**CMA 2 - Pelton CHPP - Inset 1**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine RMP
Year of anticipated relinquishment	TBA on final submission
Data theme submission ID No.	xxxx   xxxx
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	26/09/2025

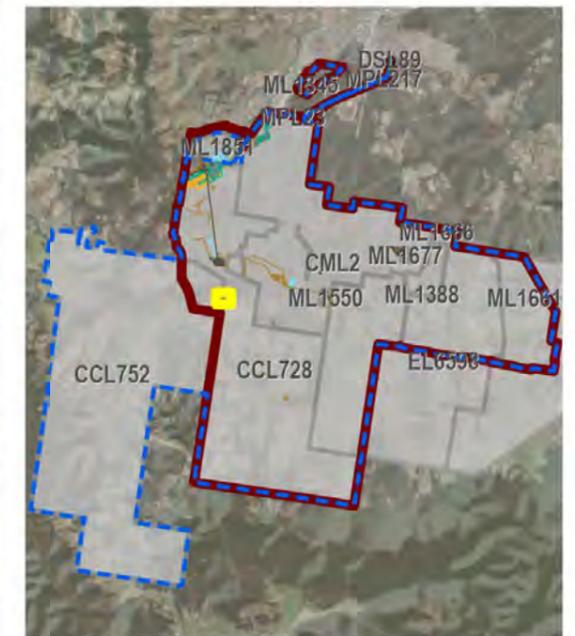


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**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Austar Mine Plan
- Road
- Railway
- Electricity Transmission Line
- Creek lines
- Current Authorisations**
- Coal - Current Titles
- Mining Domain Type**
- Domain 1: Infrastructure Area



**Austar Coal Mine**

**Current Status of Mining and Rehabilitation**

**FIGURE 3**

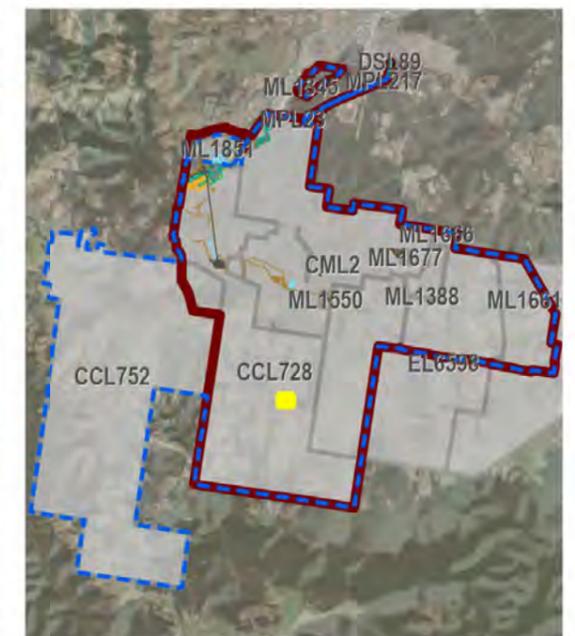
**CMA 3 - No.1 Shaft - Inset**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine RMP
Year of anticipated relinquishment	TBA on final submission
Data theme submission ID No.	xxxx   xxxx
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	26/09/2025



**LEGEND**

-  Project Approval Boundary
-  Colliery Holding Boundary
-  Auster Mine Plan
-  Road
-  Railway
-  Electricity Transmission Line
-  Creek lines
- Current Authorisations**
-  Coal - Current Titles
- Mining Domain Type**
-  Domain 1: Infrastructure Area



**Austar Coal Mine**

**Current Status of Mining and Rehabilitation**

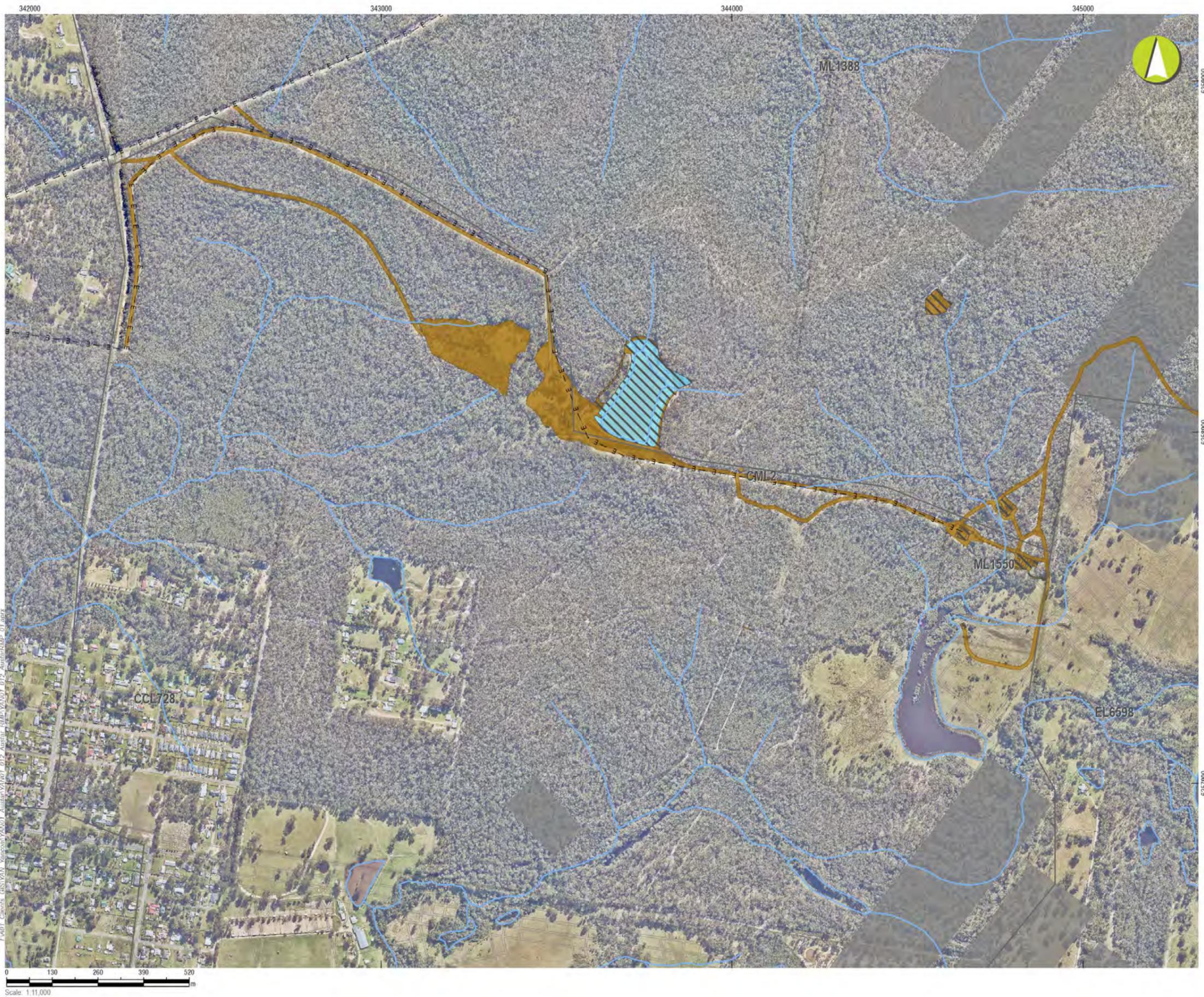
**FIGURE 3**

**CMA 4 - No.2 Shaft - Inset**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine RMP
Year of anticipated relinquishment	TBA on final submission
Data theme submission ID No.	xxxx   xxxx
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	26/09/2025

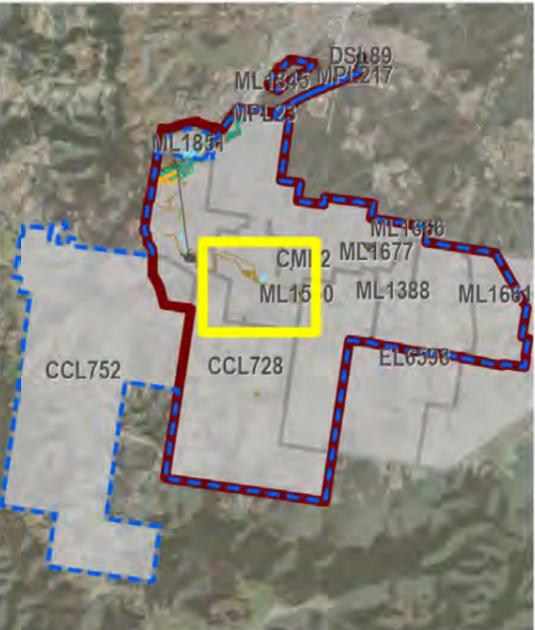
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Scale: 1:1,000



**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Austar Mine Plan
- Road
- Railway
- Electricity Transmission Line
- Creek lines
- Completed workings
- Current Authorisations**
- Coal - Current Titles
- Rehabilitation Phase**
- Decommissioning
- Mining Domain Type**
- Domain 1: Infrastructure Area
- Domain 3: Water Management Area



**Austar Coal Mine**

**Current Status of Mining and Rehabilitation**

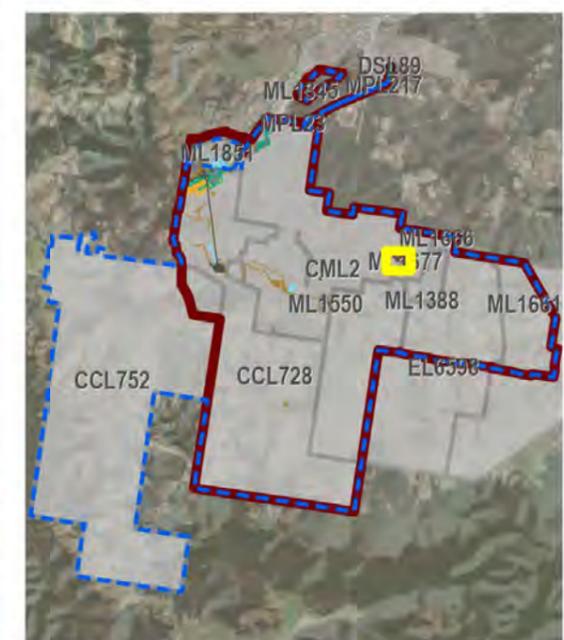
**FIGURE 3**

**CMA 5 - Cessnock No.1 Colliery / Kalingo Infrastructure Area**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine RMP
Year of anticipated relinquishment	TBA on final submission
Data theme submission ID No.	xxxx   xxxx
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	26/09/2025



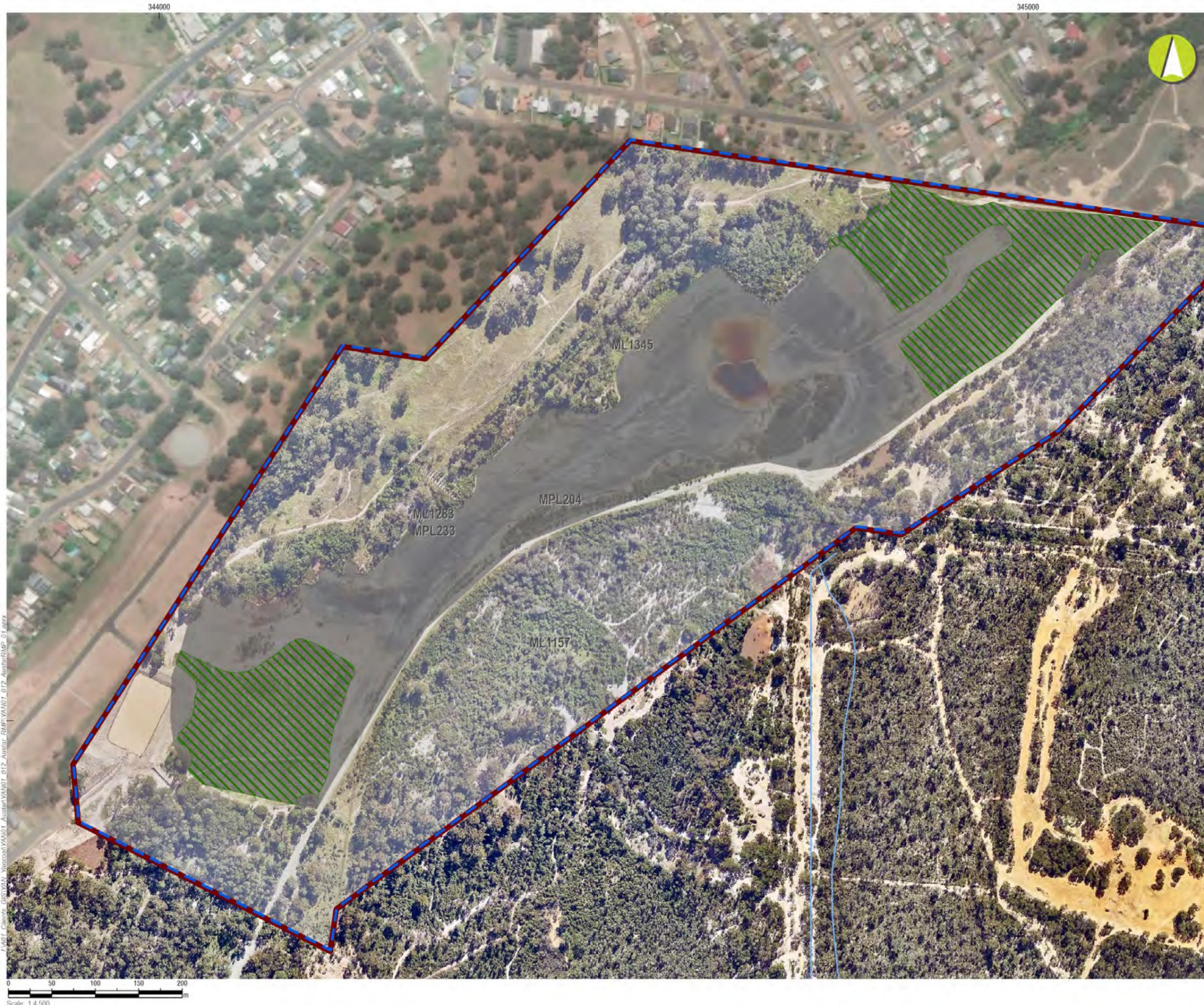
- LEGEND**
- Project Approval Boundary
  - Colliery Holding Boundary
  - Austar Mine Plan
  - Road
  - Railway
  - Electricity Transmission Line
  - Creek lines
  - Completed workings
- Current Authorisations**
- Coal - Current Titles
- Rehabilitation Phase**
- Decommissioning
- Mining Domain Type**
- Domain 1: Infrastructure Area
  - Domain 3: Water Management Area
  - Domain 4: Overburden Emplacement Area



**Austar Coal Mine**

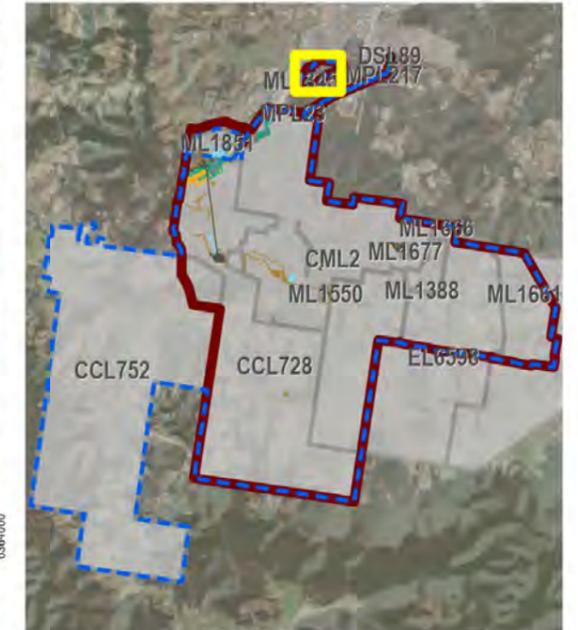
**Current Status of Mining and Rehabilitation**  
**FIGURE 3**  
**CMA 6 - Kitchener Surface Infrastructure Site**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine RMP
Year of anticipated relinquishment	TBA on final submission
Cata theme submission ID No.	xxxx   xxxx
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	26/09/2025



**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Road
- + Railway
- Electricity Transmission Line
- Creek lines
- Current Authorisations**
- Coal - Current Titles
- Rehabilitation Phase**
- Ecosystem and Land Use Establishment
- Mining Domain Type**
- Domain 2: Tailings Storage Facility



**Austar Coal Mine**

**Current Status of Mining and Rehabilitation**

**FIGURE 3**

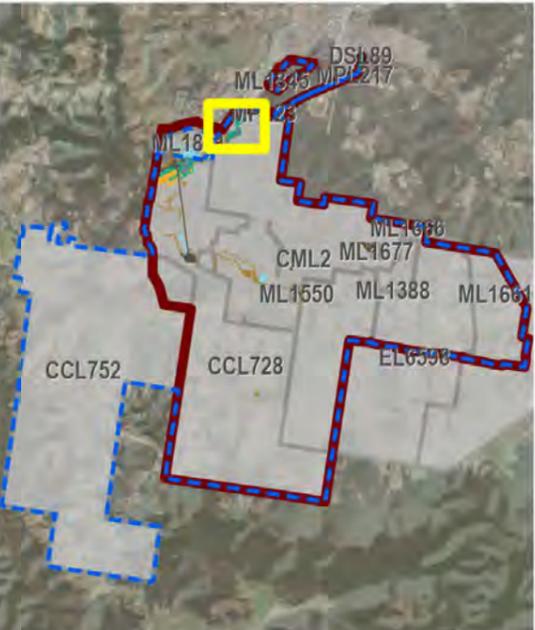
**CMA 7 - Aberdare Extended Emplacement Area**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine RMP
Year of anticipated relinquishment	TBA on final submission
Data theme submission ID No.	xxxx   xxxx
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	26/09/2025



**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Road
- Railway
- Electricity Transmission Line
- Creek lines
- Current Authorisations**
- Coal - Current Titles
- Rehabilitation Phase**
- Ecosystem and Land Use Establishment
- Mining Domain Type**
- Domain 1: Infrastructure Area
- Domain 2: Tailings Storage Facility
- Domain 3: Water Management Area



**Austar Coal Mine**

**Current Status of Mining and Rehabilitation**

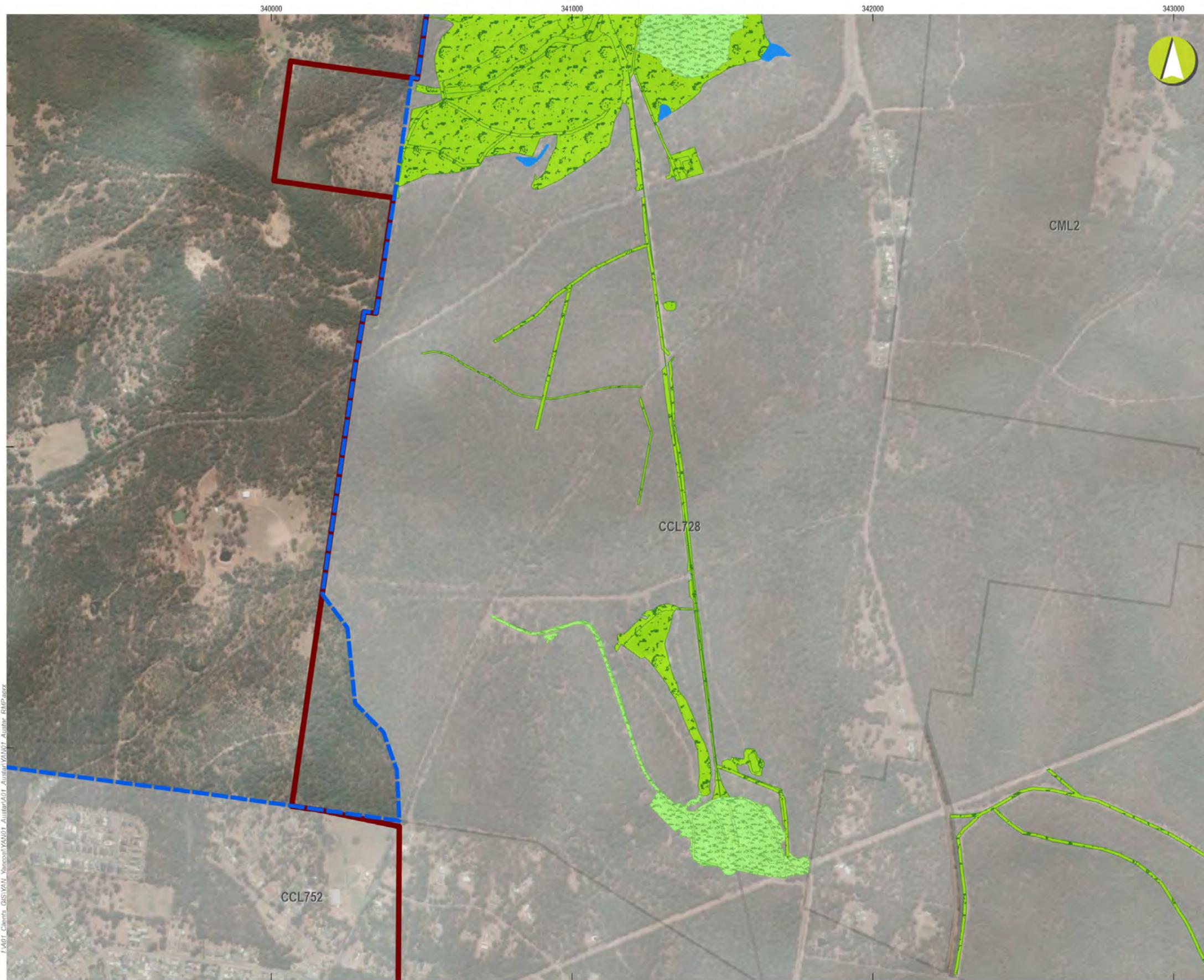
**FIGURE 3**

**CMA 8 - Bellbird Areas 12 and 13 - Inset**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine RMP
Year of anticipated relinquishment	TBA on final submission
Data theme submission ID No.	xxxx   xxxx
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	26/09/2025

# APPENDIX: C

## FINAL LAND USE DOMAINS BY CMA



**LEGEND**

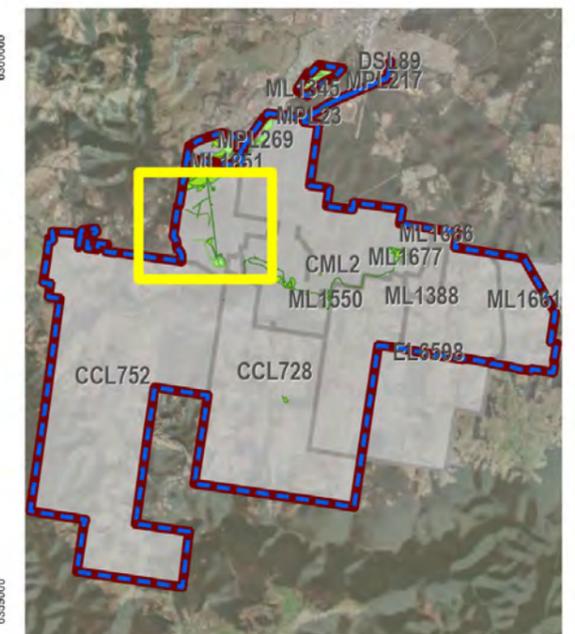
- Project Approval Boundary
- Colliery Holding Boundary
- Austar Mine Plan

**Current Authorisations**

- Coal - Current Titles

**Final Landuse Domain**

- Domain A: Native Ecosystem
- Domain B: Agricultural – Grazing
- Domain G: Water Storage (Excluding Final Void)



**Austar Coal Mine**

CMA 1 - Austar Pit Top Facilities

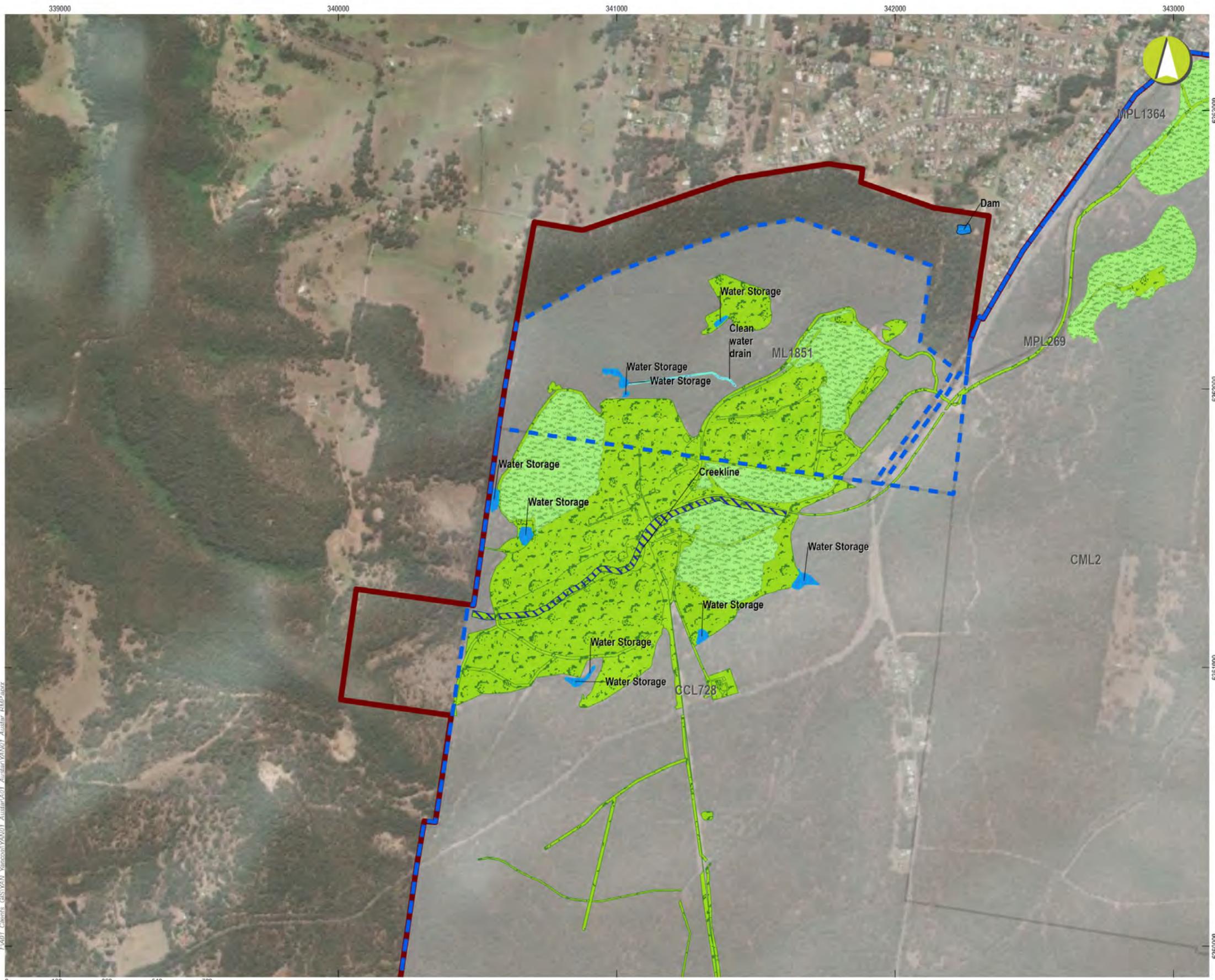
**Final Landform and Rehabilitation Plan**  
**Final Landform Features**

**PLAN 1**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	2/02/2026

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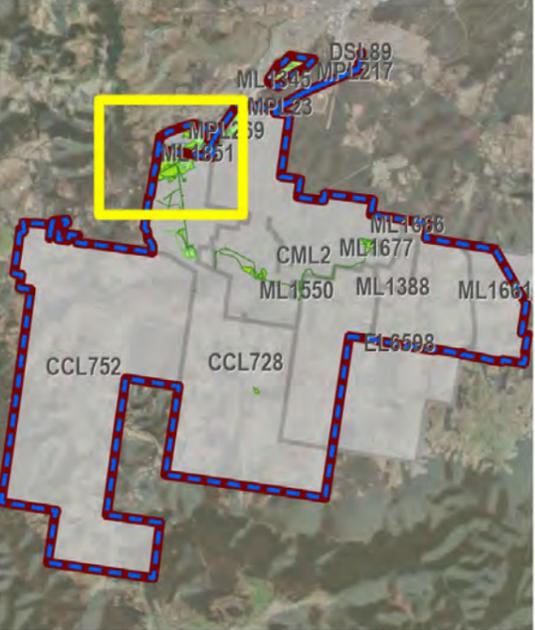
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Scale 1:13,000



Scale 1:14,000

**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Current Authorisations**
- Coal - Current Titles
- Final Landform Feature**
- Clean water drain
- Creekline
- Dam
- Water Storage
- Final Landuse Domain**
- Domain A: Native Ecosystem
- Domain B: Agricultural - Grazing
- Domain F: Water Management Areas
- Domain G: Water Storage (Excluding Final Void)



**Austar Coal Mine**

CMA 2 - Pelton CHPP - Inset 1  
**Final Landform and Rehabilitation Plan**  
**Final Landform Features**

PLAN 1	
Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	2/02/2026



**LEGEND**

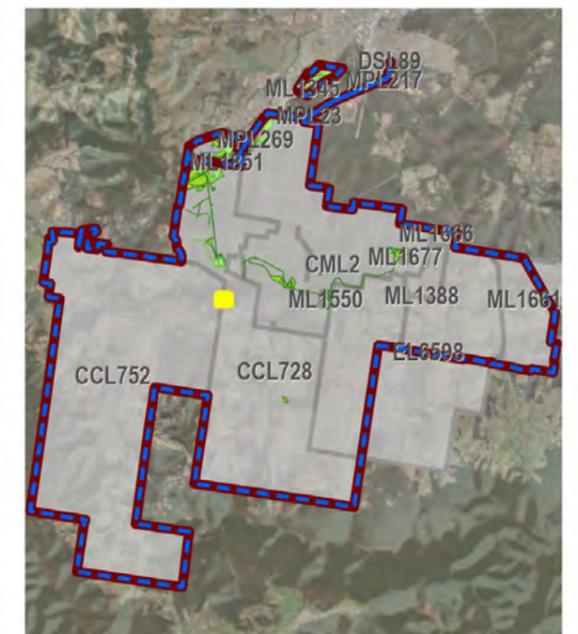
-  Project Approval Boundary
-  Colliery Holding Boundary
-  Austar Mine Plan

**Current Authorisations**

-  Coal - Current Titles

**Final Landuse Domain**

-  Domain A: Native Ecosystem



**Austar Coal Mine**

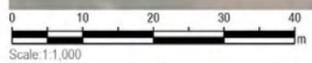
CMA 3 - No.1 Shaft - Inset

**Final Landform and Rehabilitation Plan  
Final Landform Features**

**PLAN 1**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	2/02/2026

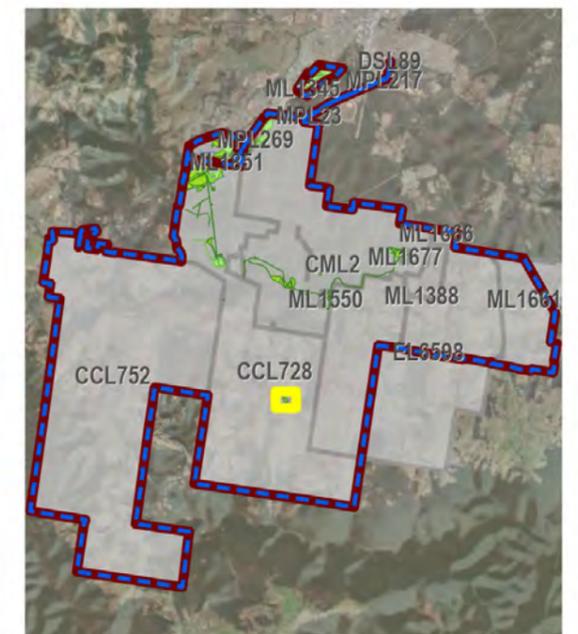
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**LEGEND**

-  Project Approval Boundary
-  Colliery Holding Boundary
-  Austar Mine Plan
-  Completed workings
- Current Authorisations**
-  Coal - Current Titles
- Final Landuse Domain**
-  Domain A: Native Ecosystem



**Austar Coal Mine**

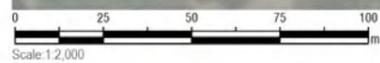
CMA 4 - No.2 Shaft - Inset

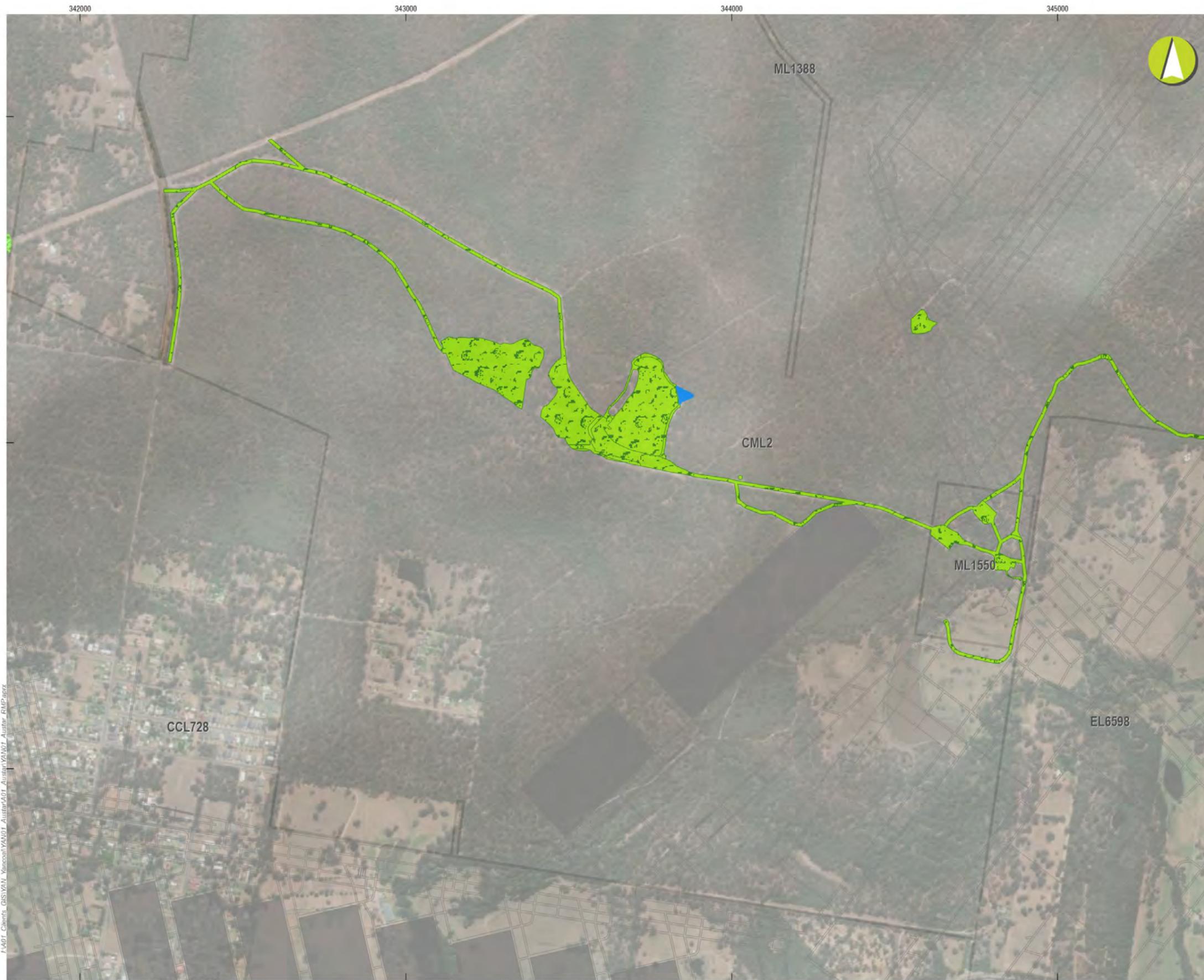
**Final Landform and Rehabilitation Plan  
Final Landform Features**

**PLAN 1**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	2/02/2026

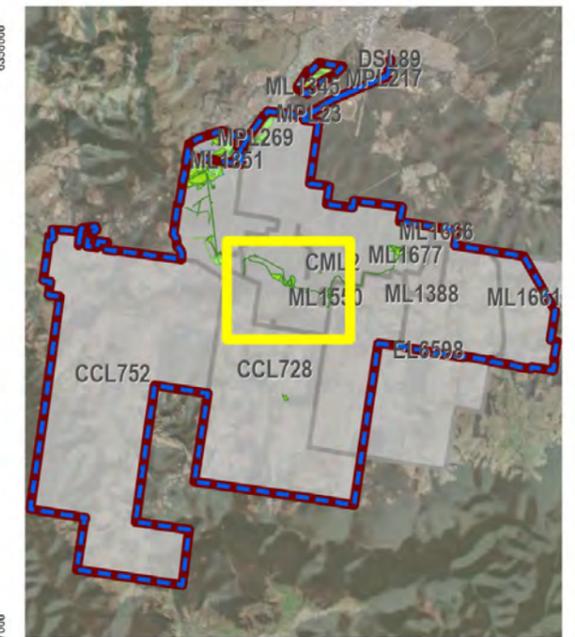
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**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Austar Mine Plan
- Completed workings
- Current Authorisations**
- Coal - Current Titles
- Final Landuse Domain**
- Domain A: Native Ecosystem
- Domain B: Agricultural – Grazing
- Domain G: Water Storage (Excluding Final Void)



Scale 1:12,000

**Austar Coal Mine**  
 CMA 5 - Cessnock No.1 Colliery / Kalingo Infrastructure Area

**Final Landform and Rehabilitation Plan**  
**Final Landform Features**  
**PLAN 1**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	2/02/2026

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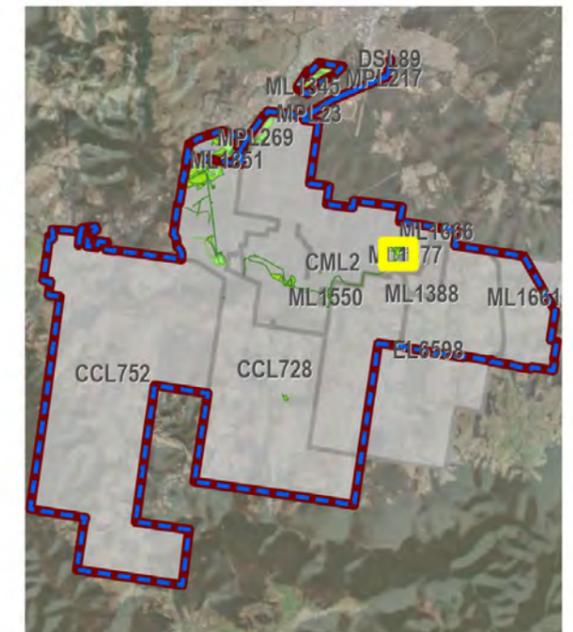


**LEGEND**

-  Project Approval Boundary
-  Colliery Holding Boundary
-  Auster Mine Plan
- Current Authorisations**
-  Coal - Current Titles
- Final Landuse Domain**
-  Domain A: Native Ecosystem



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**Austar Coal Mine**

CMA 6 - Kitchener Surface Infrastructure Site

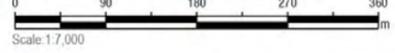
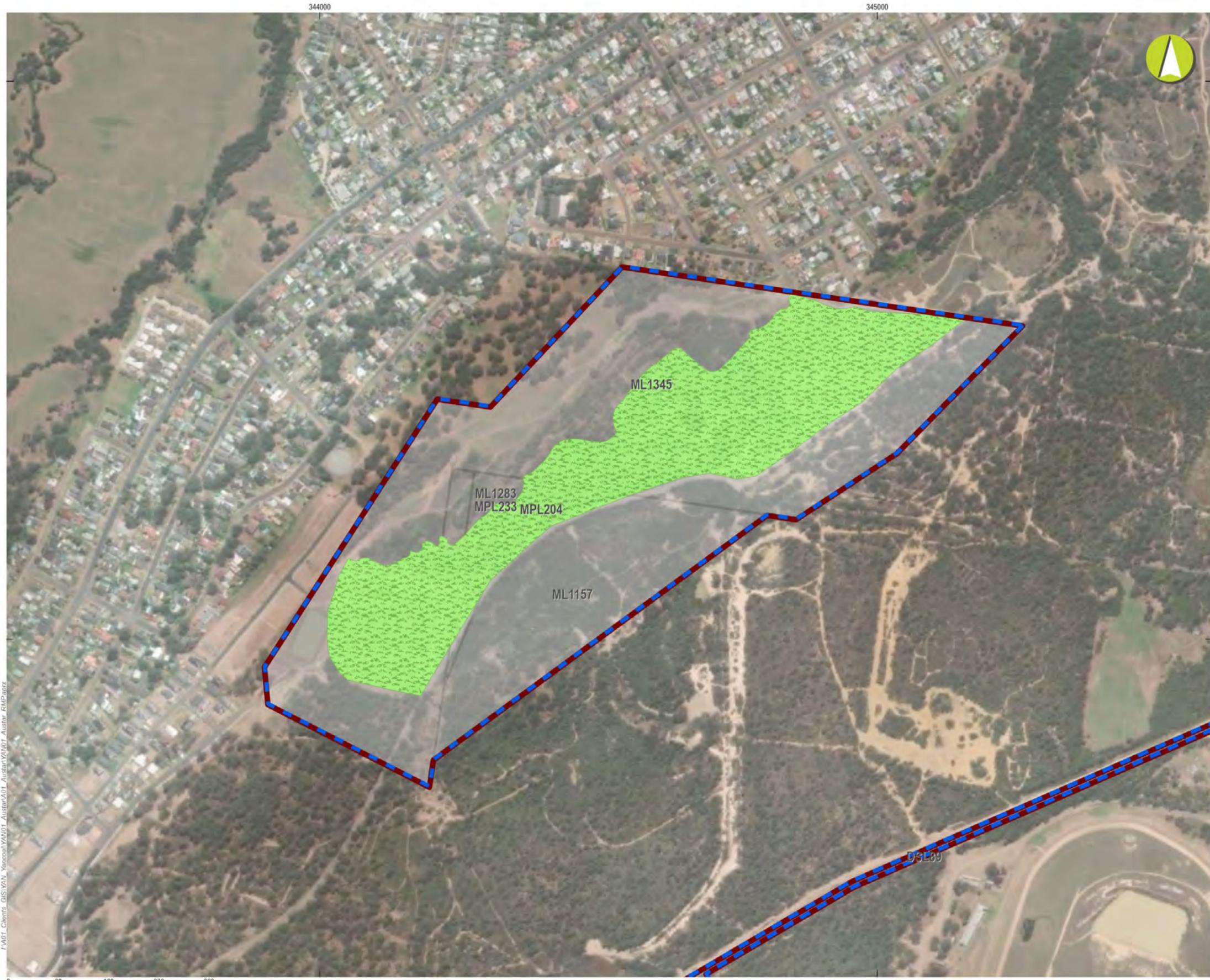
**Final Landform and Rehabilitation Plan  
Final Landform Features**

**PLAN 1**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	2/02/2026

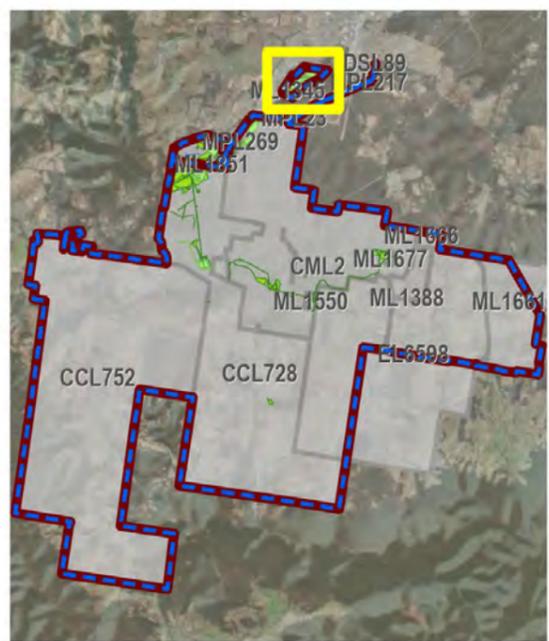
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Scale 1:3,000



**LEGEND**

-  Project Approval Boundary
-  Colliery Holding Boundary
- Current Authorisations**
-  Coal - Current Titles
- Final Landuse Domain**
-  Domain B: Agricultural – Grazing

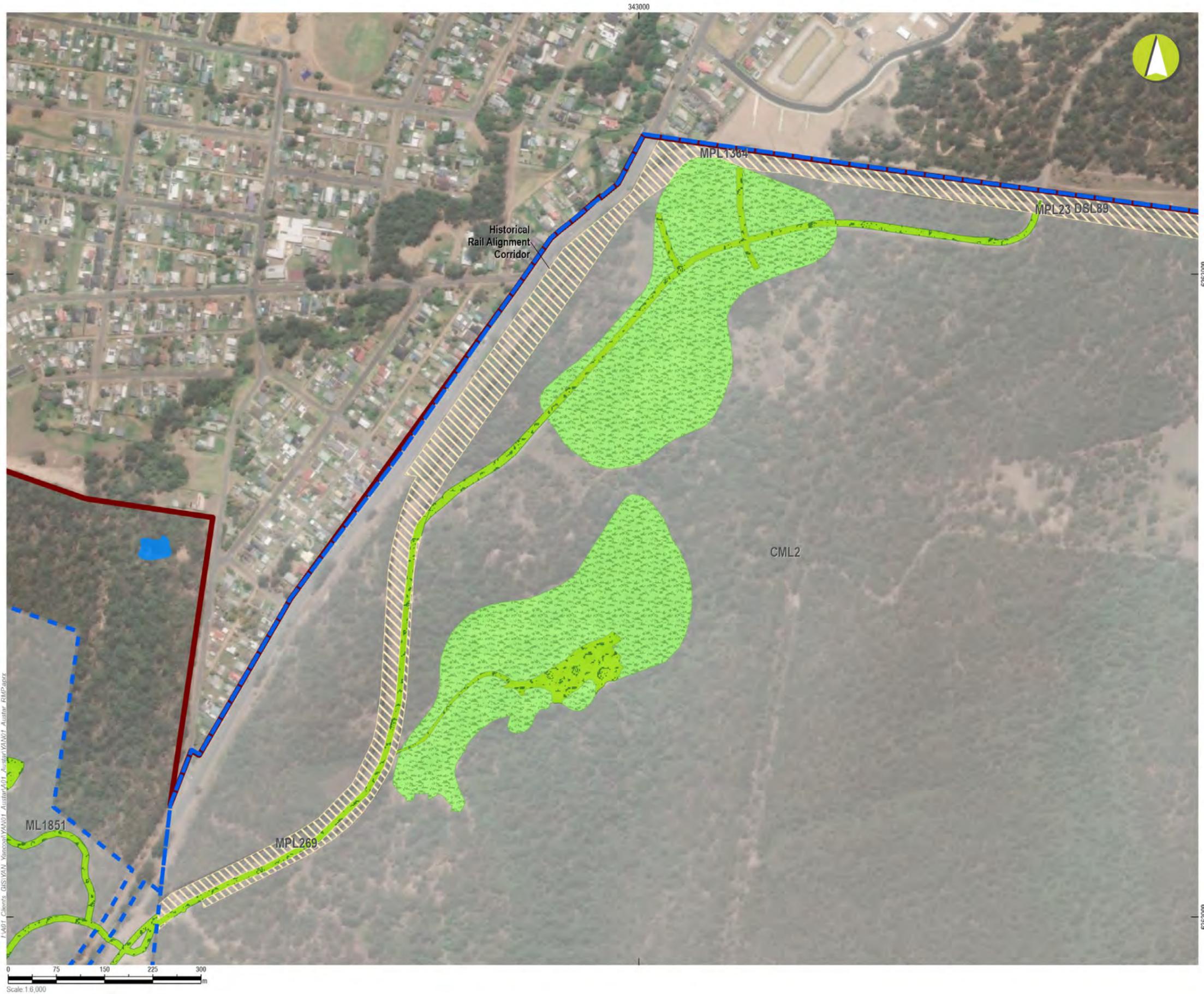


**Austar Coal Mine**

CMA 7 - Aberdare Extended Emplacement Area

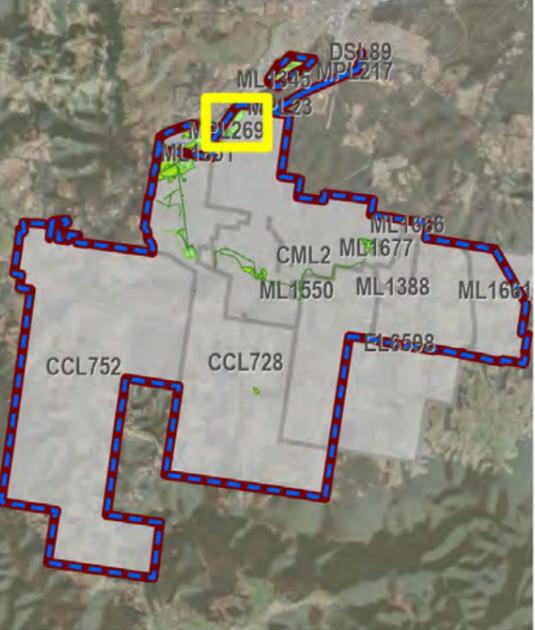
**Final Landform and Rehabilitation Plan  
Final Landform Features  
PLAN 1**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	2/02/2026



**LEGEND**

- Project Approval Boundary
- Colliery Holding Boundary
- Current Authorisations**
- Coal - Current Titles
- Final Landform Feature**
- Historical Rail Alignment Corridor
- Final Landuse Domain**
- Domain A: Native Ecosystem
- Domain B: Agricultural – Grazing
- Domain G: Water Storage (Excluding Final Void)



**Austar Coal Mine**

CMA 8 - Bellbird Areas 12 and 13 - Inset  
**Final Landform and Rehabilitation Plan**  
**Final Landform Features**  
**PLAN 1**

Mine name	Austar Coal Mine
Plan name	Austar Coal Mine
Year of anticipated relinquishment	TBA on file submission
Data theme submission ID No.	TBD
Spatial Reference	GDA2020 MGA Zone 56
Plan date (date created)	2/02/2026

# APPENDIX: D

## APPROVED REHABILITATION OBJECTIVES



**NSW  
Resources  
Regulator**

ROBJ0001199

# **APPROVED REHABILITATION OBJECTIVES STATEMENT**

Austar Coal Mine

TUESDAY 22 AUGUST 2023

# Contents

Summary..... 3

Important note..... 3

Rehabilitation Objectives..... 4

## Summary

DETAIL	APPROVAL
Reference	ROBJ0001199
Date of approval	Tuesday 22 August 2023
Mine	Austar Coal Mine
Contact	Carly McCormack

## Important note

The Regulator may make the information in your application and any supporting information (including this approval) available for inspection by members of the public, including by publication on its website or by displaying the information at any of its offices. If you consider any part of your application to be confidential, please communicate this to the Regulator via the message function on this application within the Portal.

# Rehabilitation Objectives

The following rehabilitation objectives have been approved.

REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
Bushfire	A1	The area does not present an unreasonable bushfire hazard to surrounding areas.
Ecological rehabilitation	A1	The vegetation structure of the rehabilitation is similar to that of the riparian zone of native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest found in the local area (applicable to the reinstatement of Bellbird Creek at the CHPP area that is currently piped underground)
Ecological rehabilitation	A1	Levels of ecosystem function have been established to demonstrate the ecosystem is self sustainable
Ecological rehabilitation	A1	The vegetation composition of the rehabilitation contains species that are commensurate with the riparian zone of native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest found in the local area (applicable to the reinstatement of Bellbird Creek at the CHPP area that is currently piped underground)
Ecological rehabilitation	A1	The vegetation composition of the rehabilitation contains species that are commensurate with native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area
Ecological rehabilitation	A1	The vegetation structure of the rehabilitation is similar to that of native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area
Groundwater	A1	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Groundwater	A1	Groundwater quality is within the range predicted in the relevant Austar environmental

# APPROVED REHABILITATION OBJECTIVES STATEMENT

ROBJ0001199 | Austar Coal Mine

REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
		assessments and does not present a risk of environmental harm
Land contamination	A1	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Land contamination	A1	Ensure the site is safe and levels of hazardous materials are appropriate for final land use
Landform stability	A1	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Landform stability	A1	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Removal of infrastructure	A1	Heritage infrastructure has been appropriately assessed and approved for removal
Removal of infrastructure	A1	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.
Removal of infrastructure	A1	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials
Retention of infrastructure	A1	All infrastructure that is to remain as part of the final land use benefits from the relevant approvals (e.g. development consent and / or licence/lease/binding agreement, etc)
Retention of infrastructure	A1	All infrastructure that is to remain as part of the final land use is safe, does not pose any hazard to the community.
Surface water	A1	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality

# APPROVED REHABILITATION OBJECTIVES STATEMENT

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
Bushfire	A2	The area does not present an unreasonable bushfire hazard to surrounding areas.
Ecological rehabilitation	A2	The vegetation composition of the rehabilitation contains species that are commensurate with native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area
Ecological rehabilitation	A2	The vegetation structure of the rehabilitation is similar to that of native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area
Ecological rehabilitation	A2	Levels of ecosystem function have been established to demonstrate the ecosystem is self sustainable
Groundwater	A2	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Groundwater	A2	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Land contamination	A2	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Land contamination	A2	Ensure the site is safe and levels of hazardous materials are appropriate for final land use
Landform stability	A2	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Landform stability	A2	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Management of waste and process	A2	Residual waste materials stored on site (eg tailings, coarse rejects and other wastes) have

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
materials		been appropriately encapsulated or otherwise managed so they do not pose any hazards or constraints to the post mining land use
Removal of infrastructure	A2	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.
Removal of infrastructure	A2	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials
Surface water	A2	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality
Bushfire	A3	The area does not present an unreasonable bushfire hazard to surrounding areas.
Ecological rehabilitation	A3	The vegetation structure of the rehabilitation is similar to that of native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area
Ecological rehabilitation	A3	Levels of ecosystem function have been established to demonstrate the ecosystem is self sustainable
Ecological rehabilitation	A3	The vegetation composition of the rehabilitation contains species that are commensurate with native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area
Groundwater	A3	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Groundwater	A3	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Land contamination	A3	Ensure the site is safe and levels of hazardous materials are appropriate for final land use

# APPROVED REHABILITATION OBJECTIVES STATEMENT

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
Land contamination	A3	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Landform stability	A3	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Landform stability	A3	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Removal of infrastructure	A3	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials
Removal of infrastructure	A3	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.
Surface water	A3	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality
Bushfire	A4	The area does not present an unreasonable bushfire hazard to surrounding areas.
Ecological rehabilitation	A4	Levels of ecosystem function have been established that demonstrate that the rehabilitation is self-sustainable.
Ecological rehabilitation	A4	The vegetation composition of the rehabilitation contains species that are commensurate with native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area
Ecological rehabilitation	A4	The vegetation structure of the rehabilitation is similar to that of native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
Land contamination	A4	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Landform stability	A4	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Landform stability	A4	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Surface water	A4	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality
Groundwater	A6	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Groundwater	A6	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Landform stability	A6	Public Safety hazards above LW extraction area are managed and reduced to no more than those existing pre-mining
Landform stability	A6	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Landform stability	A6	Built features damaged by mining operations have been repaired, restored or replaced in accordance with Extraction Plan requirements
Removal of infrastructure	A6	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials
Removal of infrastructure	A6	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
		to make safe and stable.
Bushfire	A7	The area does not present an unreasonable bushfire hazard to surrounding areas.
Ecological rehabilitation	A7	The vegetation composition of the rehabilitation contains species that are commensurate with native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area
Ecological rehabilitation	A7	The vegetation structure of the rehabilitation is similar to that of native vegetation communities of the Lower Hunter Spotted Gum-Ironbark Forest and Hunter Coast Foothills Spotted Gum-Ironbark Forest found in the local area
Ecological rehabilitation	A7	Levels of ecosystem function have been established to demonstrate the ecosystem is self sustainable
Groundwater	A7	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Groundwater	A7	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Land contamination	A7	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Land contamination	A7	Ensure the site is safe and levels of hazardous materials are appropriate for final land use
Landform stability	A7	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Landform stability	A7	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
Removal of infrastructure	A7	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.
Removal of infrastructure	A7	Heritage infrastructure has been appropriately assessed and approved for removal
Removal of infrastructure	A7	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials
Retention of infrastructure	A7	All infrastructure that is to remain as part of the final land use is safe, does not pose any hazard to the community.
Retention of infrastructure	A7	All infrastructure that is to remain as part of the final land use benefits from the relevant approvals (e.g. development consent and / or licence/lease/binding agreement, etc)
Surface water	A7	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality
Agricultural revegetation	B1	Land use capability is capable of supporting the target final land use
Agricultural revegetation	B1	Agricultural / pastoral revegetation is sustainable for the long term and only requires maintenance that is consistent with the final land use
Bushfire	B1	The area does not present an unreasonable bushfire hazard to surrounding areas.
Groundwater	B1	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Groundwater	B1	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments

# APPROVED REHABILITATION OBJECTIVES STATEMENT

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
Land contamination	B1	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Land contamination	B1	Ensure the site is safe and levels of hazardous materials are appropriate for final land use
Landform stability	B1	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Landform stability	B1	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Removal of infrastructure	B1	Heritage infrastructure has been appropriately assessed and approved for removal
Removal of infrastructure	B1	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.
Removal of infrastructure	B1	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials
Retention of infrastructure	B1	All infrastructure that is to remain as part of the final land use is safe, does not pose any hazard to the community.
Retention of infrastructure	B1	All infrastructure that is to remain as part of the final land use benefits from the relevant approvals (e.g. development consent and / or licence/lease/binding agreement, etc)
Surface water	B1	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality
Agricultural revegetation	B2	Land use capability is capable of supporting the target final land use

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
Agricultural revegetation	B2	Agricultural / pastoral revegetation is sustainable for the long term and only requires maintenance that is consistent with the final land use
Bushfire	B2	The area does not present an unreasonable bushfire hazard to surrounding areas.
Groundwater	B2	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Groundwater	B2	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Land contamination	B2	Ensure the site is safe and levels of hazardous materials are appropriate for final land use
Land contamination	B2	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Landform stability	B2	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Landform stability	B2	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Management of waste and process materials	B2	Residual waste materials stored on site (eg tailings, coarse rejects and other wastes) have been appropriately encapsulated or otherwise managed so they do not pose any hazards or constraints to the post mining land use
Removal of infrastructure	B2	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials
Removal of infrastructure	B2	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
Surface water	B2	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality
Agricultural revegetation	B3	Land use capability is capable of supporting the target final land use
Agricultural revegetation	B3	Agricultural / pastoral revegetation is sustainable for the long term and only requires maintenance that is consistent with the final land use
Bushfire	B3	The area does not present an unreasonable bushfire hazard to surrounding areas.
Groundwater	B3	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Groundwater	B3	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Land contamination	B3	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Land contamination	B3	Ensure the site is safe and levels of hazardous materials are appropriate for final land use
Landform stability	B3	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Landform stability	B3	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Removal of infrastructure	B3	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.
Removal of infrastructure	B3	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous

# APPROVED REHABILITATION OBJECTIVES STATEMENT

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
		materials
Surface water	B3	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality
Agricultural revegetation	B4	Land use capability is capable of supporting the target final land use
Agricultural revegetation	B4	Agricultural / pastoral revegetation is sustainable for the long term and only requires maintenance that is consistent with the final land use
Bushfire	B4	The area does not present an unreasonable bushfire hazard to surrounding areas.
Groundwater	B4	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Groundwater	B4	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Land contamination	B4	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Land contamination	B4	Ensure the site is safe and levels of hazardous materials are appropriate for final land use
Landform stability	B4	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Landform stability	B4	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Removal of infrastructure	B4	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
Removal of infrastructure	B4	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.
Surface water	B4	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality
Agricultural revegetation	B6	Land use capability is capable of supporting the target final land use
Agricultural revegetation	B6	Agricultural / pastoral revegetation is sustainable for the long term and only requires maintenance that is consistent with the final land use
Groundwater	B6	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Groundwater	B6	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Landform stability	B6	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Landform stability	B6	Built features damaged by mining operations have been repaired, restored or replaced in accordance with Extraction Plan requirements
Landform stability	B6	Public Safety hazards above LW extraction area are managed and reduced to no more than those existing pre-mining
Removal of infrastructure	B6	All shafts mine openings and boreholes are sealed in accordance with the relevant guidelines to make safe and stable.
Removal of infrastructure	B6	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
Bushfire	F3	The area does not present an unreasonable bushfire hazard to surrounding areas.
Groundwater	F3	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Groundwater	F3	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Land contamination	F3	Ensure the site is safe and levels of hazardous materials are appropriate for final land use
Land contamination	F3	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Landform stability	F3	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Landform stability	F3	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Removal of infrastructure	F3	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials
Surface water	F3	Reinstatement of the sections of creek that are currently piped underground through the CHPP area are stable for final land use and compatible with the surrounding landscape.
Surface water	F3	Surface water retained on site is fit for the intended post-mining land use(s)
Surface water	F3	Runoff water from the rehabilitation areas is not having an adverse downstream impact on downstream water quality
Water approvals	F3	Structures that take or divert water such as retained dams are appropriately licensed (e.g.

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REHABILITATION OBJECTIVE CATEGORY	SPATIAL REFERENCE	REHABILITATION OBJECTIVES
		under the Water Management Act 2000) and where required ensure sufficient licence shares are held in the water source(s) to account for water take.
Bushfire	G3	The area does not present an unreasonable bushfire hazard to surrounding areas.
Groundwater	G3	Groundwater quality is within the range predicted in the relevant Austar environmental assessments and does not present a risk of environmental harm
Groundwater	G3	Impacts to groundwater regime are within the range of the groundwater predictions in the relevant Austar environmental assessments
Land contamination	G3	Contaminated areas and/or hazardous materials are identified and remediated, removed or otherwise managed to a level that is compatible with the final land use and does not pose a threat of environmental harm.
Land contamination	G3	Ensure the site is safe and levels of hazardous materials are appropriate for final land use
Landform stability	G3	The final landform is stable for the long term and does not present a risk of environmental harm downstream / downslope of the site or a safety risk to the public/stock/native fauna.
Landform stability	G3	The final landform is commensurate with the surrounding natural landform and has been designed and constructed in accordance with appropriate final landform design principles.
Removal of infrastructure	G3	All non-heritage infrastructure removed to ensure the site is safe and free of hazardous materials
Surface water	G3	Surface water retained on site is fit for the intended post-mining land use(s)
Water approvals	G3	Structures that take or divert water such as retained dams are appropriately licensed (e.g. under the Water Management Act 2000) and where required ensure sufficient licence shares are held in the water source(s) to account for water take.

# APPROVED REHABILITATION OBJECTIVES STATEMENT

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**NSW**  
**Resources**  
**Regulator**

Approval Report (ROBJ) v2.2