

PRCP schedule

Environmental Protection Act 1994

PRCP schedule **P-PRCP-100988907**

This is the approved form for a PRCP schedule issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

PRCP schedule: P-PRCP-100988907_V1

PRCP schedule holder(s)

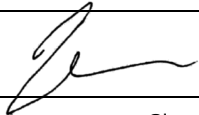
Name(s)	Registered address
Adani Mining Pty Ltd	Level 9 120 Edward St Brisbane, QLD 4000 Australia

Location details

Location(s)
Mining Lease (ML) ML70441, ML70505, ML70506

Take effect

In accordance with section 202B of the *Environmental Protection Act 1994* (EP Act), the PRCP schedule has effect on the day the environmental authority for carrying out relevant activities on land to which the schedule relates takes effect. Pursuant to section 202C of the EP Act, a PRCP schedule continues in force until the environmental authority for the relevant activities to which the PRCP schedule relates is cancelled or surrendered, even if the resource tenure expires or is cancelled and even if the relevant environmental authority is suspended under Chapter 5, part 11 or 11A of the EP Act.



Signature

17 December 2025

Date

Juliana McCosker
Department of the Environment, Tourism, Science
and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Business Centre Coal
PO BOX 3028, Emerald QLD 4720
(07) 4987 9320
CRMining@des.qld.gov.au

Obligations under the *Environmental Protection Act 1994*

Pursuant to section 202E of the EP Act, if there is an inconsistency between an environmental authority and a PRCP schedule, the environmental authority prevails to the extent of the inconsistency.

Pursuant to section 285 of the EP Act:

- The holder of a PRCP schedule must commission an audit of the schedule by a rehabilitation auditor for the following periods (each an audit period) —
 - (a) The 3-year period starting on the day the schedule takes effect
 - (b) Each 3-year period starting on the day after the previous audit period ended.
- The holder must, within 4 months after the end of each audit period, give the administering authority -
 - (a) The rehabilitation auditor's report (an audit report) about the audit that complies with section 286 of the EP Act, and
 - (b) A declaration for the audit report that complies with section 285 of the EP Act.

In addition to the requirements found in the conditions of this PRCP schedule, the holder must also meet their obligations under the environmental authority, the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the EP Act:

- General environmental duty (section 319)
- Duty to notify environmental harm (section 320-320G)
- Offence of causing serious or material environmental harm (sections 437-439)
- Offence of causing environmental nuisance (section 440)
- Offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- Offence to place contaminant where environmental harm or nuisance may be caused (section 443).

PRCP schedule

The PRCP schedule incorporates the following sections:

- Section A - Conditions of PRCP schedule
- Section B – Definitions
- Section C - Final site design and reference maps
- Section D - Post mining land uses
- Section E – Non-use management areas.
- Section F - Appendices

Section A - Conditions of PRCP schedule

Pursuant to section 206A of the EP Act:

- It is a condition of this PRCP schedule that, in carrying out a relevant activity under the schedule, the holder must comply with a requirement stated in the environmental authority relevant to carrying out the activity.
- It is a condition of this PRCP schedule that the holder must comply with the following matters stated in the schedule -
 - (a) Each rehabilitation milestone and management milestone
 - (b) When each rehabilitation milestone and management milestone is to be achieved

General conditions

PRCP	Condition
PRCP1	The holder must for each rehabilitation and improvement area, achieve the corresponding rehabilitation or management milestone criterion (milestone reference): (a) for the cumulative area available specified in this schedule; and (b) by the milestone completion date specified in this schedule.
PRCP2	Where land becomes 'available for rehabilitation' earlier than the date nominated in this schedule, the holder must: (a) notify the administering authority in writing within 30 days of the land becoming 'available for rehabilitation'; (b) describe in the notification why or why not it considers that it would be reasonable and appropriate to amend this schedule; and (c) unless otherwise agreed to by the administering authority in writing, amend this schedule in a way that maximises the progressive rehabilitation to a stable condition within the timeframe specified by the administering authority. Notes: 1. Reference to "earlier than the nominated date in the schedule" means a date that is greater than 1 year prior to the date nominated in the schedule. 2. The written notification must include precise details of the relevant land area and the date when that land became 'available for rehabilitation' 3. Assessment of land becoming available is undertaken on a nominally annual basis. 4. Rehabilitation of land size must be practicable.
PRCP3	Where an area achieves a rehabilitation milestone, it must be maintained and continue to comply with the rehabilitation milestone criteria for that rehabilitation milestone until: (a) the area is progressively certified; or (b) a surrender is approved.
PRCP4	The holder must maintain a risk register that identifies the risks to not achieving: (a) a stable condition for post-mining land uses (PMLU); (b) sufficient improvement for non-use management areas (NUMA); and (c) how the risks are being managed or minimised.
PRCP5	The holder must carry out monitoring in accordance with: (a) any requirement under this schedule; and (b) as necessary to demonstrate achievement of each rehabilitation milestone or management milestone criteria.

PRCP6	The holder must make and keep up to date any evidence and/or records on which the holder relies on to demonstrate the achievement of each rehabilitation milestone criteria in this schedule. Records must be sufficient to demonstrate that these rehabilitation achievements are maintained for the duration of the environmental authority.
PRCP7	Records made under PRCP6 must be provided to the administering authority in the specified format within 10 business days of a written request.
PRCP8	With respect to surface water (a) holder must install monitoring equipment at the relevant surface water monitoring locations specified in Appendix 5 (Surface water monitoring locations) by 2070; (a) The holder must develop site-specific surface water quality limits by 2075 for the North Creek to update Appendix 6 (Surface water Quality Limits).
PRCP11	With respect to surface water: (b) Surface water quality must be monitored at least once per month during flow at downstream locations specified in PRCP schedule Appendix 5 (Surface water monitoring locations) (c) Surface water quality monitored as per PRCP11(a) must not exceed the site-specific surface water quality limits as per Appendix 6 (Surface water Quality Limits), within the five (5) year period immediately prior to surrender; and (d) If surface water quality exceeds criteria in PRCP11(b), the applicable upstream site must be compared to the downstream site result; and quality result measured at a downstream site must be equal to or less than the quality result measured at the applicable upstream site.
PRCP12	Disturbance due to exploration and minor ancillary activities in areas not planned to be mined and not within a Rehabilitation Area in this Schedule must be rehabilitated in accordance with the provisions detailed in the ' <i>Eligibility criteria and standard conditions for exploration and mineral development projects</i> ' or its successor, with the exception that land must be rehabilitated to a stable condition which includes achieving the relevant post mining land use for the disturbance location as detailed in Figure 1 – Final Site Design .
PRCP13	The monitoring bores listed in Appendix 7 (Groundwater Monitoring Locations) must be installed within the later of either 5 years approval of the PRCP, or 2 years after any amendment to Appendix 7 (Groundwater Monitoring Locations) .
PRCP14	An up-to-date closure groundwater and water balance model (calibrated once data becomes available) must be maintained with predictions rerun at least every five years, from the date of approval of the PRCP.
PRCP15	The holder must, prior to the completion of mining, submit to the administering authority updated long term post-mining prediction numerical modelling for drawdown and groundwater level elevations for the Carmichael River, Great Artesian Basin, Doongmabulla Springs Complex and Mellaluka Springs. The predictive groundwater modelling as per the Australian Groundwater Modelling Guidelines (current version), confirms:

	(a) The residual voids will not cause environmental harm through the release of contaminants from the void lakes beyond the tenure boundaries post-closure; and (b) Groundwater drawdown will not negatively impact groundwater dependent ecosystems (GDEs) including Carmichael River Riparian Zone, Mellaluka Springs and Doongmabulla Spring Complex (c) Groundwater drawdown will not negatively impact groundwater levels in the Great Artesian Basin Clematis Sandstone and Dunda Beds
PRCP16	The holder must keep a register of all longwall panels detailing: (a) The surface area (ha) and depth of subsidence within each subsided panel, including dry subsidence areas as well as areas with temporary and permanent/residual ponds; (b) The locations of pre-existing drainage lines and drainage lines to be established to prevent/manage ponding; (c) The locations of proposed and existing drainage structures and infra-structure; (d) The pre-subsidence (baseline) condition of the vegetation; and (e) Spatial data for each panel as well as the extent of each temporary and permanent/residual pond modelled/predicted, and/or authorised ponded areas. The register must be provided to the administering authority upon request.
PRCP17	The baseline condition of each subsidence panel must be assessed prior to the mining of each mining panel. The baseline condition must include, but is not limited to: (a) Site hydrology and fluvial networks; (b) Soil types, properties and productivity; (c) Flora species composition and structure; (d) Land stability (pre-existing degradation/erosion and predisposition to ongoing stability issues); and (e) Regional ecosystem details, if remnant, and BioCondition assessed in accordance with latest version of the BioCondition Assessment Methodology (Queensland Herbarium*). Methodology may include digital surface model or terrain model generated. Components of the baseline condition should be informed by the latest version of the rehabilitation planning part and where relevant, the Subsidence Management Plan, with consideration of the following: (a) Assessment of subsidence impacts on vegetation; (b) Subsidence analysis and modelling; (c) Surface ponding and cracking mitigation measures; (d) Locations of drainage structures and (e) Post-subsidence stabilisation requirements.
PRCP18	Black Throated Finch By 30 June 2029, the holder must submit to the administering authority revised rehabilitation milestone criteria, if necessary, for the ironbark woodland post-mining land use in order to ensure the vegetation is compatible with the surrounding Black-throated finch habitat.
PRCP19	Groundwater The holder must conduct groundwater monitoring: (a) every three (3) months for a minimum of five (5) consecutive years immediately prior to surrender; and (b) at the locations specified in Appendix 7 (Groundwater Monitoring Locations); and

	(c) for the quality characteristics and level specified in Appendix 8 (Groundwater level and quality parameters and limits) ; and
PRCP20	The holder must demonstrate at the end of mining, with respect to groundwater: (a) groundwater monitoring results for locations specified in Appendix 7 (Groundwater Monitoring Locations) have not exceeded the limits stated in Appendix 8 (Groundwater level and quality parameters and limits) for three (3) consecutive results within a three (3) year period immediately prior at the end of mining; and (b) groundwater level at locations in Appendix 7 (Groundwater Monitoring Locations) have not exceeded the drawdown thresholds stated in Appendix 8 (Groundwater level and quality parameters and limits) for three (3) consecutive results within a three (3) year period immediately prior at the end of mining; and (c) there is no environmental harm beyond the boundaries of the mining leases (ML70441, ML70505, ML70506); and (d) predictive groundwater modelling as per the Australian Groundwater Modelling Guidelines (current version), undertaken at the completion of all mining, confirms the network of residual voids will collectively develop into groundwater sinks and prevent environmental harm through the release of contaminants from the void lakes beyond the tenure boundaries post-closure.
PRCP21	By 30 June 2027, the holder must submit to the administering authority a report of the updated groundwater technical study, that includes: (a) updated groundwater modelling, including a summary of changes to assumptions and detailed explanations of any changes to results and/or recommendations; and (b) demonstration the voids will be groundwater sinks and non-polluting; and (c) the monitoring methodology, locations and rehabilitation milestone criteria for groundwater dependent ecosystems (GDEs) ; and (d) proposed groundwater monitoring locations to be inserted into Appendix 7 (Groundwater Monitoring Locations); and (e) proposed groundwater quality limits to be inserted into Appendix 8 (Groundwater level and quality parameters and limits); and (f) proposed groundwater level drawdown thresholds to be inserted into Appendix 8 (Groundwater level and quality parameters and limits); and (g) all groundwater locations and water quality data that was used to calibrate the model and to derive the groundwater quality limits required by this condition
PRCP22	Within three (3) months of submitting the report required by condition PRCP19, if the final land use or associated milestone criteria require revision, the holder must apply to the administering authority for a PRCP Schedule amendment in accordance with section 224 of the <i>Environmental Protection Act 1994 (Qld)</i>.
PRCP23	No later than 2 years prior to underground mining commencing, the holder must submit to the administering authority drainage designs to facilitate reinstatement of a free draining landform for significant ponding caused by subsidence. The drainage designs will support an EA amendment to authorise their associated disturbance footprint.
PRCP24	Notwithstanding the completion dates for exploration rehabilitation for RA5, the decommissioning of exploration bores must occur progressively as follows: • Non-artesian drill holes (excluding those required for ongoing monitoring) decommissioned within 6 months of the hole being drilled • Non-artesian drill holes (excluding those required for ongoing monitoring) intersecting more than one water bearing strata isolated by casing or plugging the hole within 2 months of the hole being drilled • Artesian drill holes with water flows exceeding 500 L/hr for 7 days must be – decommissioned within 1 month of the hole being drilled; or

	– converted into a controlled artesian bore by a licensed water bore driller; or – capped for future conversion into a controlled artesian bore by a licensed water bore driller.
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END OF CONDITIONS

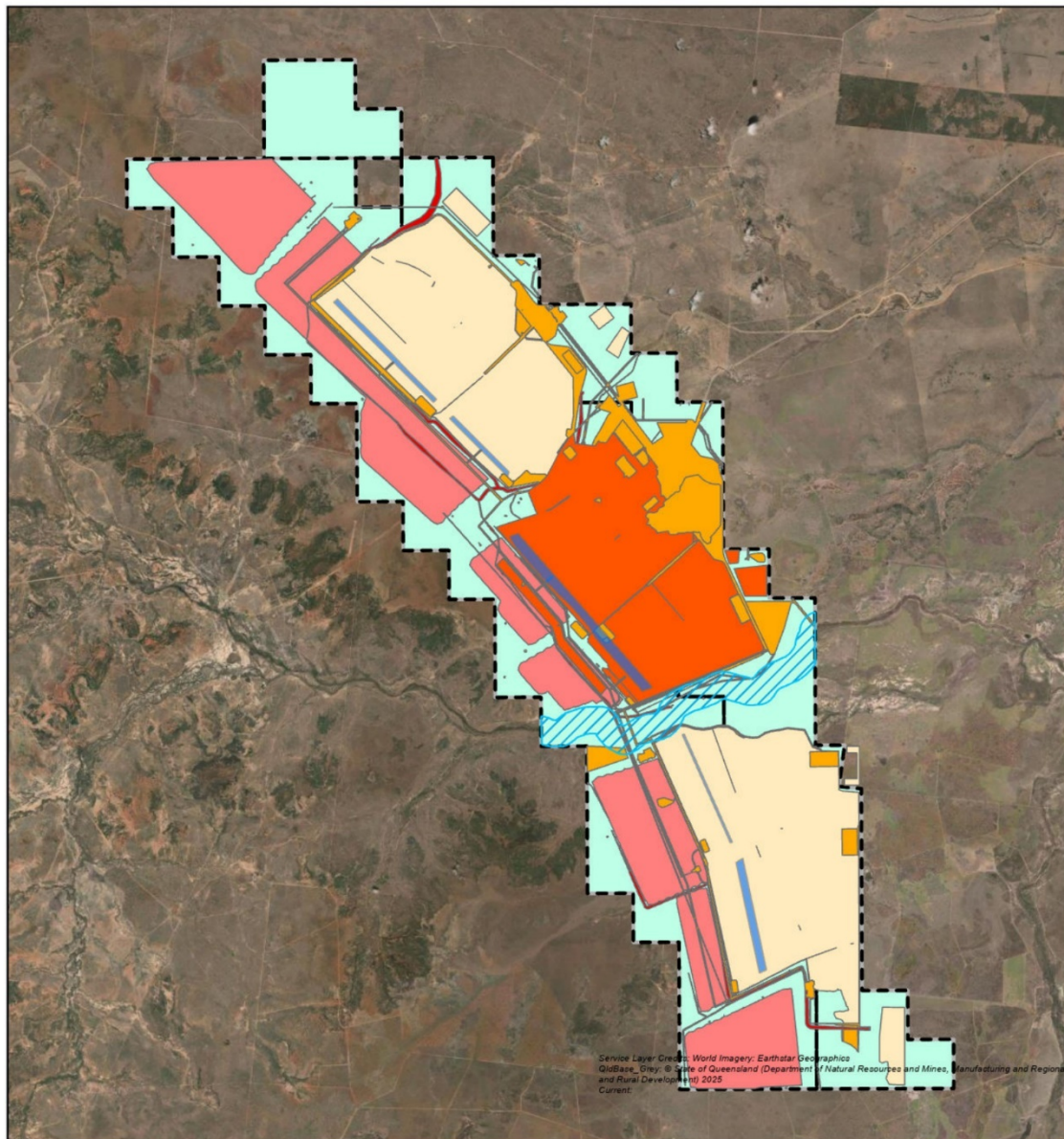
Section B – Definitions

Appropriately qualified person (AQP)	means a person who has professional qualifications, training, skills and experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis on performance relative to the subject matter using the relevant protocols, standards, methods or literature.
Activity (EP Regulation)	includes that part, if any, of an activity relating to the following— (a) preparing a place for the activity before carrying out the activity; (b) rehabilitating a place after it has been used for carrying out the activity.
BioCondition	refers to the <i>BioCondition Assessment Manual</i> (Eyre, T.J., Kelly, A.L, Neldner, V.J., Wilson, B.A., Ferguson, D.J., Laidlaw, M.J. and Franks, A.J. (2015)) and <i>BioCondition: A Condition Assessment Framework for Terrestrial Biodiversity in Queensland. Assessment Manual. Version 2.2</i> (Queensland Herbarium, Department of Science, Information Technology, Innovation and Arts, Brisbane) or later versions thereof.
Contaminants	can be a gas, liquid or solid; or an odour; or an organism (whether alive or dead), including a virus; or energy, including noise, heat, radioactivity and electromagnetic radiation; or a combination of contaminants.
Environmentally problematic material	means material that will negatively impact water quality and stability or vegetation growth.
Flood stress	is the pressure on structures from rapid water rise, erosion, and saturation during extreme floods, risking instability.
Growth media	is defined as all soil and soil-like material that will support the final vegetation cover. This includes the topsoil and subsoil where these materials are applied independently. Where the topsoil is incorporated into the underlying subsoil/spoil, topsoil refers to the depth of incorporation and the remaining depth is regarded as subsoil. The total depth of growth media is nominally considered to be the effective plant root zone
Gully	A gully is a channel excavated by water, more than 0.3 m deep.
Potentially acid forming (PAF)	means material with either a Net Acid Producing Potential of greater than 5 kg of H ₂ SO ₄ /tonne or a Net Acid Generation oxidation pH of less than 4.5 (pH unit).
Rehabilitation activity	means any activity that the holder is required to carry out in relation to this PRCP schedule.
Relevant structure	To be defined during the assessment and listed here. Typically includes TSF and higher risk structures, including WRDs.
Rill	A rill is a channel excavated by water, less than 0.3 m deep.
Stabilised	means one or both of the following conditions apply: no evidence of sediment movement; sides and/or floors of erosion form are revegetated (Australian Soil and Land Survey Field Handbook Fourth Edition).
Stable condition	see section 111A of the <i>Environmental Protection Act 1994</i> .
Suitably qualified and	for performing a regulatory function under chapter 7, part 8 (Contaminated

experienced person (SQP)	Land) of the EP Act or another function prescribed under a regulation, means a person who— (a) has qualifications and experience relevant to performing the function; and (b) if a regulation prescribes an organisation for this paragraph—is a member of the organisation.
Vegetative groundcover	Means plants, plant litter, tree leaf litter, twigs and woody debris capable of protecting the soil surface from erosion.
Weed	Non-native plant including: • Category 3 restricted invasive plant species, defined by the <i>Biosecurity Act 2014</i>; and • Weeds of National Significance, defined by Invasive Plants and Animals Committee 2016, Australian Weeds Strategy 2017 to 2027, Australian Government Department of Agriculture and Water Resources, Canberra.

Section C - Final site design and reference maps

Figure 1 – Final Site Design



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**CARMICHAEL MINE
PROJECT**

**Rehabilitation Areas
Carmichael Coal Mine
Progressive Rehabilitation and Closure Plan**

Legend

Rehabilitation Areas

RA1 - Open-Cut voids and dumps B,C,F,G

RA2 - Mine Infrastructure areas and water storage areas

RA3 - Open-cut void and dump DE

RA4 - Water drainage, diversions, and landform levees

RA5 - Exploration and access tracks

RA6 - Underground mining areas (including subsidence)

RA7 - NUMA Voids

Mining Lease

Carmichael River Exclusion Area

No disturbance

Date 07 November 2025

Revision A

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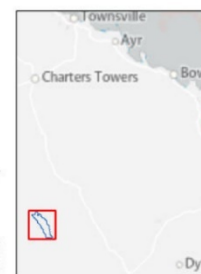
Drawn SRW

Approved SW

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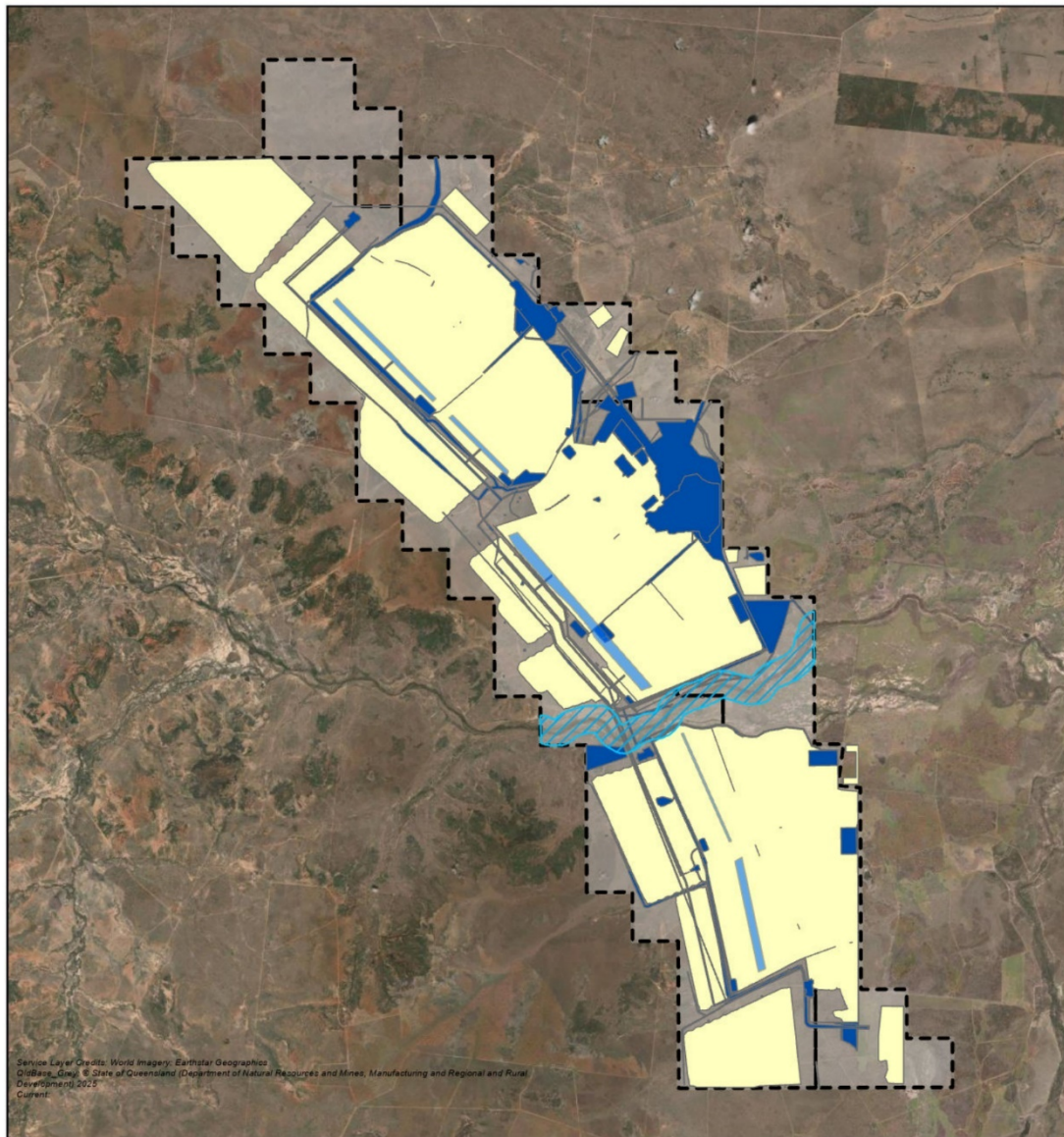
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Figure 2 – Reference Map



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Legend

Post-mining Land Uses

- Pasture
- Ironbark Woodland
- NUMA Void

**CARMICHAEL MINE
PROJECT**

- Mining Lease
- Carmichael River Exclusion Area
- No disturbance

**Post-mining Land Uses
Carmichael Coal Mine
Progressive Rehabilitation and Closure Plan**

Date 07 November 2025

Revision A

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Drawn SRW

Approved SW

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Section D- Post Mining Land Use

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)													
Rehabilitation area				RA1									
Relevant activities				Open-cut Voids and Slopes (B, C, F, G) & Out of Pit Spoil Dumps (Dumps B, C, F, G)									
Total rehabilitation area size (ha)				11114.6									
Commencement of first milestone (RM5):				1/01/2039									
PMLU				Ironbark Woodland									
Date area is available	1/01/39	1/01/44	1/01/49	1/01/54	1/01/59	1/01/64	1/01/69	1/01/74	1/01/79	1/01/84	1/01/89		
Cumulative area available (ha)	230.97	594.51	841.80	1086.32	2341.38	3141.04	3791.02	5148.14	8981.19	9210.83	11114.60		
Milestone completed by	1/01/44	1/01/49	1/01/54	1/01/59	1/01/64	1/01/69	1/01/74	1/01/79	1/01/84	1/01/89	1/01/94	1/01/99	1/01/04
Milestone Reference	Cumulative area achieved (ha)												
RM3	230.97	594.51	841.80	1086.32	2341.38	3141.04	3791.02	5148.14	8981.19	9210.83	11114.60		
RM5	230.97	594.51	841.80	1086.32	2341.38	3141.04	3791.02	5148.14	8981.19	9210.83	11114.60		
RM6	230.97	594.51	841.80	1086.32	2341.38	3141.04	3791.02	5148.14	8981.19	9210.83	11114.60		
RM7		230.97	594.51	841.80	1086.32	2341.38	3141.04	3791.02	5148.14	8981.19	9210.83	11114.60	
RM9			230.97	594.51	841.80	1086.32	2341.38	3141.04	3791.02	5148.14	8981.19	9210.83	11114.60

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)										
Rehabilitation area				RA2						
Relevant activities				Mine infrastructure areas (including underground mining area entry and supporting infrastructure), water storage areas (including MAW dams and raw water dams)						
Total rehabilitation area size (ha)				3422.99						
Commencement of first milestone (RM1):				1/01/2076						
PMLU				Pasture						
Date area is available	1/01/76									
Cumulative area available (ha)	3422.99									
Milestone completed by	1/01/79	1/01/84	1/01/89							
Milestone Reference	Cumulative area achieved (ha)									
RM1	3422.99									
RM2	3422.99									
RM3	3422.99									
RM5	3422.99									
RM6	3422.99									
RM8		3422.99								
RM10			3422.99							

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)													
Rehabilitation area				RA3									
Relevant activities				Open-cut Void and Slope DE & Out of Pit Spoil Dump DE									
Total rehabilitation area size (ha)				4590.36									
Commencement of first milestone (RM5):				1/01/2029									
PMLU				Ironbark Woodland									
Date area is available	1/01/29	1/01/34	1/01/39	1/01/44	1/01/49	1/01/54	1/01/59	1/01/64	1/01/69	1/01/74			
Cumulative area available (ha)	89.96	89.96	89.96	89.96	230.51	364.49	364.49	514.14	4320.17	4590.36			
Milestone completed by	1/01/34	1/01/39	1/01/44	1/01/49	1/01/54	1/01/59	1/01/64	1/01/69	1/01/74	1/01/79	1/01/84	1/01/89	
Milestone Reference	Cumulative area achieved (ha)												
RM3	89.96	89.96	89.96	89.96	230.51	364.49	364.49	514.14	4320.17	4590.36			
RM4	89.96	89.96	89.96	89.96	230.51	364.49	364.49	514.14	4320.17	4590.36			
RM5	89.96	89.96	89.96	89.96	230.51	364.49	364.49	514.14	4320.17	4590.36			
RM6	89.96	89.96	89.96	89.96	230.51	364.49	364.49	514.14	4320.17	4590.36			
RM7		89.96	89.96	89.96	89.96	230.51	364.49	364.49	514.14	4320.17	4590.36		
RM9			89.96	89.96	89.96	89.96	230.51	364.49	364.49	514.14	4320.17	4590.36	

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)										
Rehabilitation area				RA4						
Relevant activities				Water drainage, diversions, and landform levees						
Total rehabilitation area size (ha)				511.58						
Commencement of first milestone (RM5):				1/01/2076						
PMLU				Pasture						
Date area is available	1/01/76									
Cumulative area available (ha)	511.85									
Milestone completed by	1/01/79	1/01/84	1/01/89							
Milestone Reference	Cumulative area achieved (ha)									
RM3	511.58									
RM5	511.58									
RM6	511.58									
RM8		511.58								
RM10			511.58							

(RA5) Rehabilitation area 5

Post-mining land uses (PMLU)											
Rehabilitation area						RA5					
Relevant activities						Exploration and Access Tracks					
Total rehabilitation area size (ha)						40.51					
Commencement of first milestone (RM3):						1/01/2023					
PMLU						Pasture					
Date area is available	1/01/23										
Cumulative area available (ha)	40.51										
Milestone completed by	31/10/28	1/01/33	1/01/38								
Milestone Reference	Cumulative area achieved (ha)										
RM3	40.51										
RM5	40.51										
RM6	40.51										
RM8		40.51									
RM10			40.51								

(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)											
Rehabilitation area	RA6										
Relevant activities	Underground mining areas (including subsidence)										
Total rehabilitation area size (ha)	7786.78										
Commencement of first milestone (RM5):	1/01/2037										
PMLU	Ironbark Woodland* *Where there is surface disturbance across the underground mining areas for the installation of ventilation infrastructure, the revegetation of these areas will be to a Pasture PMLU, following the Milestone Criteria RM8, and RM10 for the Pasture PMLU. These areas will be allowed to naturally regenerate to an Ironbark Woodland PMLU over time.										
Date area is available	1/01/37	1/01/41	1/01/45	1/01/49	1/01/53	1/01/57	1/01/61	1/01/65			
Cumulative area available (ha)	1245.88	2180.30	3348.32	4672.07	5684.35	6618.76	7163.84	7786.78			
Milestone completed by	1/01/41	1/01/45	1/01/49	1/01/53	1/01/57	1/01/61	1/01/65	1/01/70	1/01/75	1/01/80	
Milestone Reference	Cumulative area achieved (ha)										
RM3	1245.88	2180.30	3348.32	4672.07	5684.35	6618.76	7163.84	7786.78			
RM5	1245.88	2180.30	3348.32	4672.07	5684.35	6618.76	7163.84	7786.78			
RM6	1245.88	2180.30	3348.32	4672.07	5684.35	6618.76	7163.84	7786.78			
RM7		1245.88	2180.30	3348.32	4672.07	5684.35	6618.76	7163.84	7786.78		
RM9			1245.88	2180.30	3348.32	4672.07	5684.35	6618.76	7163.84	7786.78	

Section E – Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal	1.1 With the exception of any infrastructure to remain as part of the post-mining land use (PMLU) or where infrastructure is agreed to be retained by the landholder as evidenced by a signed landholder agreement, the following are complete: (a) All services are disconnected and removed; (b) All buildings and associated infrastructure are dismantled and removed offsite. (c) All hardstand, concrete areas and roads (bitumen, blue metal, aggregate etc.) removed. (d) All fencing and associated foundations are removed. (e) All pipelines are drained and removed. (f) All waste that is not authorised to be disposed of on-site under Environmental Authority EPML01470513 is removed. (g) All surface water drainage infrastructure that does have an associated watercourse or riparian ecosystem PMLU or forms part of a non use management area (NUMA) is removed. (h) All drillholes, bores, sediment ponds and sumps are decommissioned. (i) All machinery and equipment, not required for rehabilitation works, is removed from site. (j) All dams are dewatered and desilted. (k) Watercourse crossings and culverts are removed. 1.2 Below-ground infrastructure and services deeper than 0.5m in relation to the final landform surface may be retained provided: (a) All pipelines have been drained and capped or filled with inert material; (b) All below-ground infrastructure to be retained is mapped; (c) The intended PMLU is not compromised; and (d) There is no ongoing risk of environmental harm. 1.3 All gas drainage bores and associated infrastructure is decommissioned in accordance with the Code of Practice for the construction and abandonment of petroleum wells and associated bores in Queensland.

- | | |
|--|---|
| | <p>1.4 For RA2, portals, adits or vent shafts connected to Underground Mining Areas have been blocked to prevent human and livestock access .</p> <p>1.5 For RA5, non artesian drill holes (excluding those required for ongoing monitoring) are decommissioned including:</p> <ul style="list-style-type: none">(a) Hole capped at an appropriate depth as per Eligibility criteria and standard conditions for exploration and mineral development projects (ESR/2016/1985)(b) Hole backfilled above the cap with soil or material similar to surroundings. <p>1.6 For all surface to seam boreholes (including but not limited to, exploration bores, water monitoring bores, dewatering bores, ventilation and gas drainage bores must:</p> <ul style="list-style-type: none">(i) grouted and/or plugged;(ii) capped 0.5m below surface; and(iii) exploration bores decommissioned in accordance with 'Eligibility criteria and standard conditions for exploration and mineral development projects.' |
|--|---|

RM2	Identification, remediation and removal of contaminated land	2.1 Contaminated Land Investigation Document completed in accordance with the <i>Environmental Protection Act 1994</i>, including a site investigation report, and, where required, a Validation Report and/or a draft Site Management Plan. 2.2 Contaminated water and sediment removed from dams. 2.3 Contaminated and hazardous material either remediated in-situ or removed/transported to facility lawfully able to accept the material. 2.4 Suitably Qualified Person (SQP) certifies that that no contamination unsuitable for the PMLU remains or is occurring.
RM3	Landform development and reshaping	3. 1 All major earthworks (including reshaping, pushing/trimming) are completed in accordance with a design specification provided by an AQP for the final landform design that: (a) Has undergone landscape evolution modelling and demonstrated the landform is erosionally stable; (b) Has undergone geotechnical assessment and demonstrates the ability to achieve $FOS \geq 1.5$; (c) Is water shedding; and (d) Is suitable to sustain the PMLU. 3. 2 Constructed landform achieves geotechnical stability with a Factor of Safety (FOS) ≥ 1.5, which includes consideration of flood stress 3. 3 Out-of-pit spoil dumps and void highwalls, lowwall and endwalls reshaped to achieve slope angles of $<20\%$ for outer facing/draining slopes, and $<40\%$ for inner facing slopes. 3. 4 Mining infrastructure areas and water storage areas reshaped to be $<12\%$ 3. 5 The installation of contour or graded drains as per construction design has been certified by an appropriately qualified person 3. 6 Back filled pits assessed as geotechnically stable by a suitably qualified geotechnical engineer. 3. 7 Disturbed natural watercourse bed and banks returned to a natural condition with profile similar to the pre-disturbance condition 3. 8 All landforms are shaped to be water shedding except RA6 3. 9 Environmentally problematic material are appropriately placed and located within the final landform, consistent with the relevant designs 3.10 Diversions/ drainage constructed in accordance with the engineering designs developed by an AQP for RA4

RM4	Installation of cover system and capping	4.1 All bulk earthworks and landform reshaping/reprofiling works completed to design 4.2 The construction and maintenance of Dump DE has been certified by an appropriately qualified person and is consistent with the design 4.3 Placement of a minimum thickness of 5 m of spoil over rejects deposits 4.4 Topsoil applied at thickness of 200 mm 4.5 Permeability of spoil material consistent with assumed value of 1×10^{-6} m/s 4.6 Groundwater monitoring confirms dump performance is as designed, and there is no migration of contaminants
RM5	Surface Preparation (Ironbark Woodland and Pasture)	5.1 Prior to placement on landform, plant growth media are ameliorated and tested by an AQP to confirm the parameters in Table 353: Soil Chemistry Target Values for Placed Topsoil' are met. 5.2 Topsoil or growth medium placed at a depth 200mm. 5.3 Topsoil or growth medium is tested prior to placement on the landform under RM5.1 for the parameters in Appendix 2 Soil Chemistry Target Values for Placed Topsoil 5.4 Where the topsoil or growth medium tested under RM5.2 does not meet the criteria stated in Appendix 2 Soil Chemistry Target Values for Placed Topsoil', the topsoil or growth medium is ameliorated and fertilised to achieve all criteria 5.5 Contour ripping completed at a suitable depth to de-compact surfaces as confirmed by an AQP 5.6 Inspections by AQP of longwall surface conditions after underground mining operations cease confirm subsidence has settled (RA6).
RM6	Revegetation (Ironbark Woodland and Pasture)	6.1 Completed seeding of target tree, shrub and groundcover species in alignment with Appendix 1 of this Schedule for Ironbark Woodland and Pasture. 6.2 Preferred foraging and habituation species of Black-throated finch (<i>Poephila cincta cincta</i>) included in seed mix and / or tube stock selection. 6.3 For the Pasture PMLU, the seeding mix must include at least four species of 3P native pasture species.
RM7	Achievement of Surface Requirements ((Ironbark Woodland)	7.1 Presence of at least two tree species, three shrub species, and five groundcover species 7.2 Presence of at least four native perennial pasture species 7.3 Species used in revegetation remain present and show evidence of natural recruitment. 7.4 A BioCondition assessment completed in accordance with latest version of Queensland Herbarium's "BioCondition Assessment Manual' determines that the PMLU has reached a BioCondition score of 20/60 as per Appendix 3 – BioCondition Benchmark Criteria. 7.5 Total vegetative groundcover >70% 7.6 Presence of declared weeds is <5% of vegetative groundcover

		7.7 No evidence of erosion classified as 'moderate' or 'severe' as defined by Appendix 4 – Erosion classification framework. 7.8 No tunnel erosion or mass movement present 7.9 Erosion requiring intervention has been remediated and does not not compromise the achievement of a PMLU to a stable condition. 7.10 Subsidence cracks are repaired if the cracks will not self-heal and they adversely impact achieving the PMLU as assessed by an AQP (RA6)
RM8	Achievement of Surface Requirements (Pasture)	8.1 Minimum vegetation composition (per hectare (averaged)) of at least four species of 3P native pasture species. 8.2 Total vegetative groundcover >60% 8.3 Presence of declared weeds is <5% of vegetative groundcover 8.4 Land Suitability class is ≤3 8.5 No evidence of erosion classified as 'moderate' or 'severe' as defined by Appendix 4 – Erosion classification framework. 8.6 Erosion requiring intervention has been remediated and does not not compromise the achievement of a PMLU to a stable condition.
RM9	Achievement of post mining land use to a stable condition (Ironbark woodland)	All Areas 9.1 Safety hazards in the rehabilitation area are not significantly different to surrounding unmined landscapes subject to the same land use. 9.2 Rehabilitation is assessed as geotechnically stable by an AQP with a Factor of Safety (FOS) ≥ 1.5. 9.3 Minimum vegetative groundcover of 70% 9.4 No evidence of erosion classified as 'moderate' or 'severe' as defined by Appendix 4– Erosion classification framework. 9.5 No tunnel erosion or mass movement present 9.6 No evidence of scouring, overtopping, sedimentation or destabilisation in or associated with erosion and sediment control and engineered drainage structures. 9.7 Presence of declared weeds is <5% of vegetative groundcover 9.8 A BioCondition assessment completed in accordance with latest version of Queensland Herbarium's "BioCondition Assessment Manual" determines that the PMLU has reached a BioCondition score of 40/60 as per Appendix 3 – BioCondition Benchmark Criteria 9.9 Surface water runoff has been collected across representative areas of rehabilitation when surface flows occur, and it is safe to do so and the results are not significantly different to upstream values for pH, EC, turbidity. Subsidence (RA6) 9.11 Subsidence within the rehabilitation area does not present a safety hazard in the context of the PMLU. 9.12 Bed and banks of subsidence drainage structures are stable.

		9.13 All areas that have been affected by subsidence are rehabilitated to attain the pre-existing land use 9.14 All surface cracks remediated 9.15 No remaining significant depressions that cause ponding of incident rainfall and water runoff
RM10	Achievement of post mining land use to a stable condition (Pasture)	10.1 Safety hazards in the rehabilitation area are not significantly different to surrounding unmined landscapes subject to the same land use. 10.2 Rehabilitation is assessed as geotechnically stable by an AQP with a Factor of Safety (FOS) ≥ 1.5. 10.3 Minimum vegetative groundcover of 60% 10.4 No evidence of erosion classified as 'moderate' or 'severe' as defined by Appendix 4 – Erosion classification framework. 10.5 No tunnel erosion or mass movement present 10.6 Erosion requiring intervention has been remediated and does not not compromise the achievement of a PMLU to a stable condition. 10.7 No evidence of scouring, overtopping, sedimentation or destabilisation in or associated with erosion and sediment control and engineered drainage structures. 10.8 Presence of declared weeds is <5% of vegetative groundcover 10.9 Surface water runoff has been collected across representative areas of rehabilitation when surface flows occur, and it is safe to do so and the results are not significantly different to upstream values for pH, EC, turbidity. 10.10 Land Suitability class is ≤ 3 as confirmed by an AQP

Section E – Non-use management areas

(IA1) Improvement area (NUMA)

Non-use management area (NUMA)					
Improvement area			Final Voids Pit DE, Pit B, Pit C Pit F and Pit G		
Relevant activities			Water Body as final void		
Total size (ha)			590.63 (Pit DE- 293.55 ha, Pit BC- 139.19 ha, Pit FG-157.89 ha)		
Commencement of first milestone: MM1			2064		
			Non-use management area		
Date area is available	10/12/2064	10/12/2069	10/12/2076	10/12/2079	
Cumulative area available (ha)	293.55	432.74	590.63	590.63	
Milestone completed by	10/12/2069	10/12/2074	10/12/2079	10/12/2084	
Milestone Reference	Cumulative area achieved (ha)				
MM1	293.55	139.19	157.89		
MM2		293.55	432.74	590.63	
Note - Bravus to confirm NUMA to be a final void as dry 'pit' or 'lake' pending the results of the groundwater technical study and further assessment weather the predicted quality is suitable to support the ironbark woodland PMLU in the long term					

Improvement area milestones

Milestone reference	Management milestone	Milestone criteria
MM1	Achievement of final landform design	1.1 Coal seams covered by backfilled material in each pit as indicated in Appendix 9 – Residual Void Cross Sections and as below (a) Backfilling of Pit B final void is complete up to the roof of D seam on highwall slopes (b) Backfilling of Pit C final void is complete up to the roof of D seam on highwall slopes (c) Backfilling of Pit D and Pit E final void is complete up to the roof of AB seam on highwall slopes (d) Backfilling of Pit F final void is complete up to the roof of AB seam on highwall slopes (e) Backfilling of Pit G final void is complete up to the roof of D seam on highwall slopes 1.2 Final residual voids are not subject to inundation from floodwaters up to and including the 0.1% AEP 1.3 Installation of fencing completed for the residual void management areas to limit human and livestock access. 1.4 Based on the water level and water quality prediction results from the post-closure groundwater model an AQP assess that (a) the void will act as a groundwater sink and do not contaminate the groundwater environment, and (b) the final void lake will not overflow
MM2	Achievement of sufficient improvement	2.1 The residual voids (a) Are geotechnically stable (b) Are safe and not access to human and livestock (c) Retain flood immunity, supported by flood modelling re-run at the end of life and calibrated against the final landform 2.2 An AQP demonstrates that (a) the void will act as a groundwater sink and do not contaminate the groundwater environment, and (b) the final void lake will not overflow
Note - Bravus to confirm NUMA to be a final void as dry 'pit' or 'lake' pending the results of the groundwater technical study and further assessment whether the predicted quality is suitable to support the ironbark woodland PMLU in the long term		

Section F – Appendices

Appendix1 – Species list and seeding rates

- i. Pasture PMLU and where required for erosional stability of the banks of water storages

Scientific name	Common name	Indicative application rate (kg/ha)
<i>Echinochloa esculenta</i>	Japanese Millet	20
<i>Bothriochloa decipiens</i>	Pitted Blue Grass	4
<i>Cynodon dactylon</i>	Bermuda Grass (Couch)	20
<i>Alloterospis semialata</i> ¹	Cockatoo Grass	4
<i>Eragrostis sororia</i>	Woodland Lovegrass	2
<i>Bothriochloa ewartiana</i>	Desert Bluegrass	4
<i>Digitaria brownii</i> ¹	Cotton Panic Grass	4
<i>Digitaria ammobila</i> ¹	Silky Umbrella Grass	4
<i>Enneapogon virens</i> ¹	Kakudidi	4
<i>Sehima nervosum</i> ¹	White grass	4
<i>subquadripara</i> ¹	Signal Grass	2
<i>Urochloa mosambicensis</i> ¹	Sabi Grass	2
<i>Paspalidium constrictum</i> ¹	Box grass	4
3P Species		
<i>Themeda triandra</i>	Kangaroo Grass	4
<i>Bothriochloa bladhii</i>	Forest Bluegrass	4
<i>Dicanthium sericeum</i>	Queensland Bluegrass	4
<i>Panicum decompositum</i>	Native Millet	4
<i>Heteropogon contortus</i>	Black spear grass	4
<i>Chrysopogon fallax</i> ¹	Golden Beard Grass	4
Minimum total sowing rate		20-30kg/ha

¹ Preferred Black throated finch species for foraging

- ii. Ironbark Woodland PMLU RE 10.5.5

Scientific name	Common name	Indicative Application rate seeds(kg/ha)	Indicative Application rate tube stock (unit/ha)	RE10.5.5
Trees(T)				
<i>Eucalyptus melanophloia</i>	Silver-Leaved Ironbark	1	15	X
<i>Corymbia dallachiana</i>	Dallachy's Ghost Gum	0.2	3	

<i>Corymbia terminalis</i>	Bloodwood	0.2	3	X
<i>Eucalyptus brownii</i>	Reid River Box	4	60	
<i>Eucalyptus populnea</i>	Poplar Box	1	15	X
<i>Corymbia plena</i>	Bloodwood	0.2	3	X
<i>Brachychiton populneus</i>	Kurrajong	0.2	3	X
Minimum total sowing rate (seeds)		4-5kg/ha		
<i>Shrubs(S)</i>				
<i>Acacia sericophylla</i>	Cork Bark Wattle	X	3	X
<i>Acacia excelsa</i> ¹	Ironbark Wattle	X	3	X
<i>Carissa lanceolata</i>	Conkerberry		3	
<i>Petalostigma pubescens</i>	Quinine Tree	X	3	X
<i>Denhamia cunninghamii</i>	Yellowberry Bush	X	3	X
Minimum total sowing rate		2-3kg/ha		
<i>Ground cover – Grasses(G) and Forbs(F)</i>				
<i>Triodia pungens</i>	Soft Spinifex	2	-	X
<i>Enneapogon virens</i>	Kakudidi	2		
<i>Eriachne mucronata</i> ¹	Mountain Wanderrie	4	-	X
<i>Eragrostis lacunaria</i> ¹	Purple Lovegrass	2	-	X
<i>Heteropogon contortus</i>	Black Speargrass	4	-	X
<i>Aristida contorta</i>	Bunched Kerosene Grass	4	-	X
<i>Bothriochloa ewartiana</i>	Desert Bluegrass	4	-	X
<i>Digitaria ammophila</i>	Silky Umbrella Grass	4		
<i>Tragus australianus</i> ¹	Burr Grass	4	-	
<i>Digitaria brownii</i> ¹	Cotton Panic Grass	4	-	
<i>Urochloa subquadriflora</i> ¹	Signal Grass	2	-	
<i>Chrysopogon fallax</i> ¹	Golden Beard Grass	4	-	
<i>Paspalidium constrictum</i> ¹	Box Grass	4	-	
<i>Panicum effusum</i> ¹	Hairy Panic	4	-	
<i>Panicum decompositum</i>	Native Millet	4	-	
<i>Paspalidium rarum</i>	Rare panic	4		
<i>Sehima nervosum</i>	White grass	4		

<i>Themeda triandra</i>	<i>Kangaroo grass</i>	4		
Minimum total sowing rate	20-30kg			
1 Preferred Black throated finch species for foraging				

Appendix 2 Soil Chemistry Target Values for Placed Topsoil

Parameter	Target Value for Ironbark Woodland PMLU	Target Value for Pasture PMLU
pH	5.5 - 8	5.5 -8
EC 1:5 (dS/cm)	<0.15	<0.15
Chloride (mg/kg)	<100	<100
Exchangable Soodium Percentage (ESP)	15-30	15 -30
Total Phosphorus (mg/kg)	≥100	≥100
Colwell Potassium (mg/kg)	>320	>350
Total nitrogen (mg/kg)	>800	>1000

Appendix 3 – BioCondition Benchmark Criteria

PMLU		Site-Specific Reference Benchmark Value RE10.5.5	Modified BioCondition attributes and weightings (Year 5 and Year 15)			
Regional Ecosystem			10.5.5 Indicative benchmark for 5 years (≥20/60)	BioCondition score	10.5.5 Indicative benchmark for 15 years (≥40/60)	BioCondition score
BioCondition attribute	Weighting	RE 10.5.5 Silver-leaved ironbark woodland				
Non-native plant cover (%)	10	12.5%	<25% non-native plant cover	5	< 25% non-native plant cover	5
Dominant canopy species present as regeneration	5	92.45%	0	0	1 (≥ 20% of dominant canopy species)	3
Tree height	5	10.9m	1.0m (≥ 10% relative to benchmark)	2	Above 5m (≥ 50% and ≤ 200% relative to benchmark)	5

PMLU		Site-Specific Reference Benchmark Value RE10.5.5	Modified BioCondition attributes and weightings (Year 5 and Year 15)			
Regional Ecosystem			10.5.5 Indicative benchmark for 5 years (≥20/60)	BioCondition score	10.5.5 Indicative benchmark for 15 years (≥40/60)	BioCondition score
BioCondition attribute	Weighting	RE 10.5.5 Silver-leaved ironbark woodland				
Native tree species richness	5	6	2 species	2	3 species	3
Native shrub species richness	5	6	2 species	2	3 species	3
Grass species richness*	5	8	2 species	2	3 species	4
Forbs and other species richness*	5	4	1 species	2	2 species	4
Native tree canopy cover (%)	5	21%	2.1% canopy cover	2	Over 10.5% canopy cover	5
Native shrub canopy cover (%)	5	4.7%	1% shrub cover	3	2.5% shrub cover	5
Native perennial grass cover (%)	5	22%	10% cover	2	>1% cover	3
Organic litter ground cover (%)	5	20%	0	0	10% cover	5
Overall score required	60			22/60		45/60

Appendix 4 – Erosion classification framework:

Erosion classification	Minor	Moderate	Severe
Sheet erosion	Shallow soil deposits downslope	Partial exposure of roots; moderate soil deposits downslope, etc	Loss of surface horizon; root exposure; moderate substantial soil deposits downslope
Rill erosion	<15 rills pre transect*	15-30 rills per transect*	>30 rills per transect*
Gully erosion	Absent	Absent	Present
Tunnel erosion	Absent	Absent	Present
Mass movement	Absent	Absent	Present

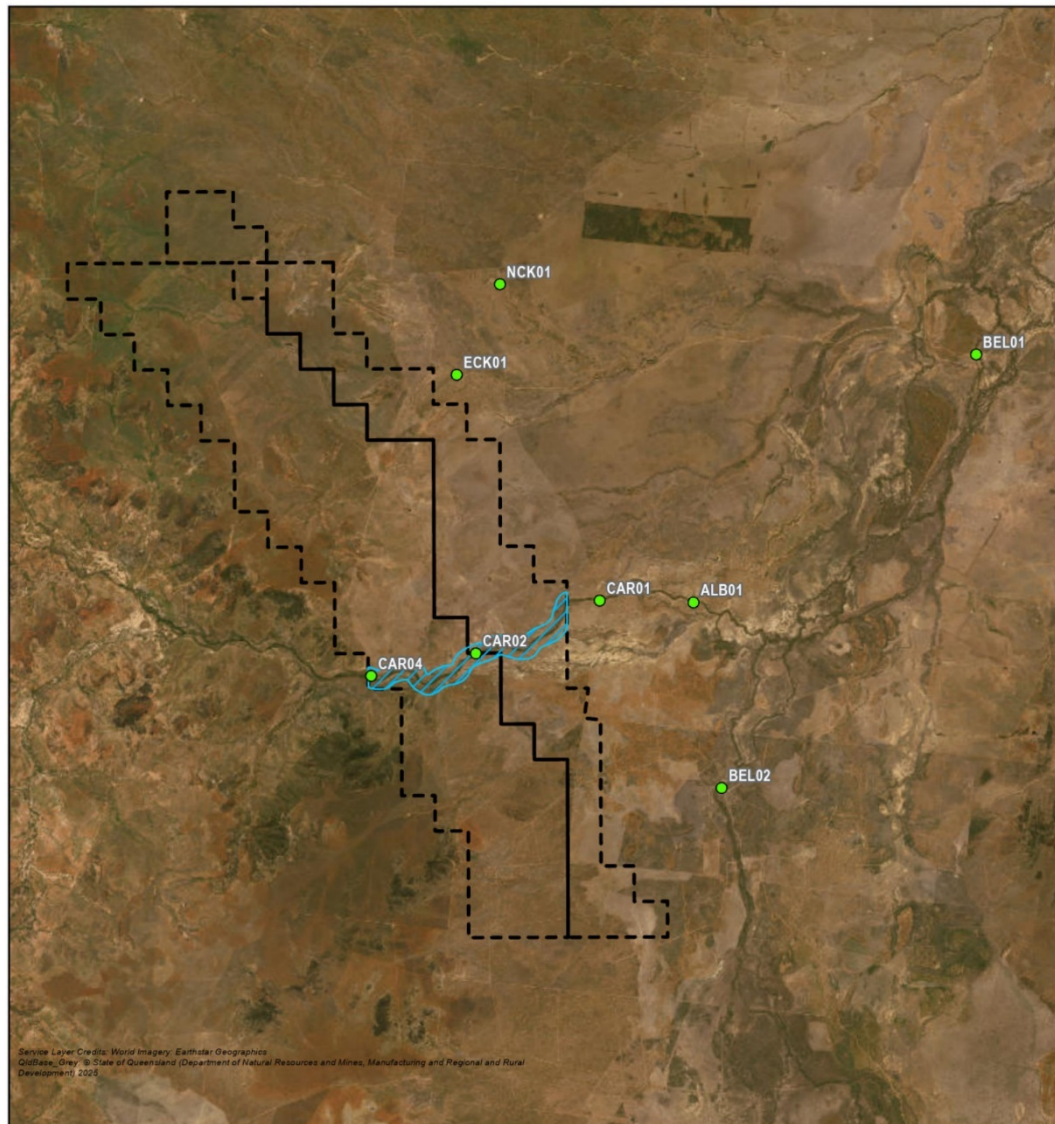
Source: NCST (2024) *Australian Soil and Land Survey Field Handbook*, 4th edition. The National Committee on Soil and Terrain. CSIRO Publishing, Collingwood, Australia.

*Transect linear 100 m across the contour (Source: Tongway, D. J. and Hindley, N. L. 2005. *Landscape Function Analysis: Procedures for Monitoring and Assessing Landscapes*. CSIRO Publishing, Canberra, Australia)

Appendix 5 – Surface water monitoring locations

Monitoring Points	Receiving Water Location Description	Latitude (GDA2020)	Longitude (GDA2020)
Upstream Background Monitoring Sites			
CAR04	Carmichael River at Upstream Gauging Station	-22.1088	146.35272
BEL02	Belyando River at Bygana Waterhole	-22.16203	146.52855
Downstream Monitoring Sites			
CAR01	Carmichael River far Downstream Mining Lease	-22.07407	146.4676
BEL01	Belyando River at Carmichael/Moray Road	-21.95927	146.65685
NCK01	North Creek at railway intersection	-21.9248	146.41808
ECK01	Eight Mile Creek	-21.9680	146.3962

Appendix 5a – Surface water monitoring locations



BRAVUS
MINING & RESOURCES

**CARMICHAEL MINE
PROJECT**

**Stream Gauge Network Locations
Carmichael Coal Mine
Progressive Rehabilitation and Closure Plan**

Legend

- Mining Lease
- Stream Gauge
- Carmichael River Exclusion Area

Date 11 November 2025

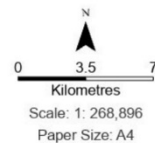
Drawn SRW

Revision A

Approved SW

Path: W\1_05_GIS\Carmichael\2025\Enviro\PRCP\PRCP_2025_Maps.aprx

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Map Projection: Transverse Mercator
Horizontal Datum: GDA94
Grid: GDA 1994 MGA Zone 55



Appendix 6 – Surface water quality limits

Quality Characteristic (unit)	Carmichael River Limit	Comment of Limit	Belyando River Limit	Comment of Limit	North Creek and Eight Mile Creek Limit	Comment of Limit
pH	6.5-8.5	Burdekin River (Upper) Sub-basin WQOs	6.5-8.5	Burdekin River (Upper) Sub-basin WQOs	6.5-8.5	Burdekin River (Upper) Sub-basin WQOs
Electrical Conductivity (µS/cm)	1160	Site-specific 80th percentile	217	Site-specific 80th percentile	110	Burdekin River (Upper) Sub-basin WQOs
Turbidity (NTU)	237	Site-specific 80th percentile	719	Site-specific 80th percentile	190	Burdekin River (Upper) Sub-basin WQOs
Total Suspended Solids (mg/L)	280	Burdekin River (Upper) Sub-basin WQOs	280	Burdekin River (Upper) Sub-basin WQOs	280	Burdekin River (Upper) Sub-basin WQOs
Ammonia – N (µg/L)	62	Site-specific 80th percentile	100	Site-specific 80th percentile	10	Burdekin River (Upper) Sub-basin WQOs
Total Nitrogen (µg/L)	880	Site-specific	1,700	Site-specific	180	Burdekin River (Upper) Sub-basin WQOs
Total Phosphorus (µg/L)	120	Site-specific	390	Site-specific	30	Burdekin River (Upper) Sub-basin WQOs
Nitrate as NO3 (mg/L)	2.6	ANZG 2018	2.6	ANZG 2018	2.6	ANZG 2018
Fluoride (mg/L)	1.7	ANZG 2018	1.7	ANZG 2018	1.7	ANZG 2018
Sodium (mg/L)	194	Site-specific 80th percentile	180	ANZG 2018	180	ANZG 2018
Sulphate (mg/L)	6	Site-specific 80th percentile	5	Site-specific 80th percentile	2	Burdekin River (Upper) Sub-basin WQOs
Aluminium – dissolved (µg/L)	270	Site-specific 95th percentile	310	Site-specific 95th percentile	300	Site-specific

Arsenic – dissolved (µg/L)	13	ANZG 2018	13	ANZG 2018	13	ANZG 2018
Boron – dissolved (µg/L)	940	ANZG 2018	940	ANZG 2018	940	ANZG 2018
Cadmium – dissolved (µg/L)	0.2	ANZG 2018	0.2	ANZG 2018	0.2	ANZG 2018
Chromium – dissolved (µg/L)	1	ANZG 2018	1	ANZG 2018	1	ANZG 2018
Cobalt – dissolved (µg/L)	1.4	ANZG 2018	1.4	ANZG 2018	1.4	ANZG 2018
Copper – dissolved (µg/L)	1.4	ANZG 2018	4	Site-specific 95th percentile	1.4	ANZG 2018
Iron – dissolved (µg/L)	1031.5	Site-specific 95th percentile	280	ANZG 2018	280	ANZG 2018
Lead – dissolved (µg/L)	3.4	ANZG 2018	3.4	ANZG 2018	3.4	ANZG 2018
Manganese – dissolved (µg/L)	1,900	ANZG 2018	1,900	ANZG 2018	1,900	ANZG 2018
Mercury – dissolved (µg/L)	0.6	ANZG 2018	0.6	ANZG 2018	0.6	ANZG 2018
Molybdenum – dissolved (µg/L)	34	ANZG 2018	34	ANZG 2018	34	ANZG 2018
Nickel – dissolved (µg/L)	11	ANZG 2018	11	ANZG 2018	11	ANZG 2018
Selenium – dissolved (µg/L)	5	ANZG 2018	5	ANZG 2018	5	ANZG 2018
Silver – dissolved (µg/L)	0.05	ANZG 2018	0.05	ANZG 2018	0.05	ANZG 2018
Uranium – dissolved (µg/L)	0.5	ANZG 2018	0.5	ANZG 2018	0.5	ANZG 2018
Vanadium – dissolved (µg/L)	6	ANZG 2018	6	ANZG 2018	6	ANZG 2018
Zinc – dissolved (µg/L)	8	ANZG 2018	8	ANZG 2018	8	ANZG 2018
TPH (C6-9) (µg/L)	20		20		20	
TPH (C10-36) (µg/L)	100		100		100	
Major ions (mg/L) Calcium, chloride, potassium,	For interpretation purposes					

magnesium, sodium, bicarbonate, carbonate		
Hardness (mg/L)	For interpretation purposes	

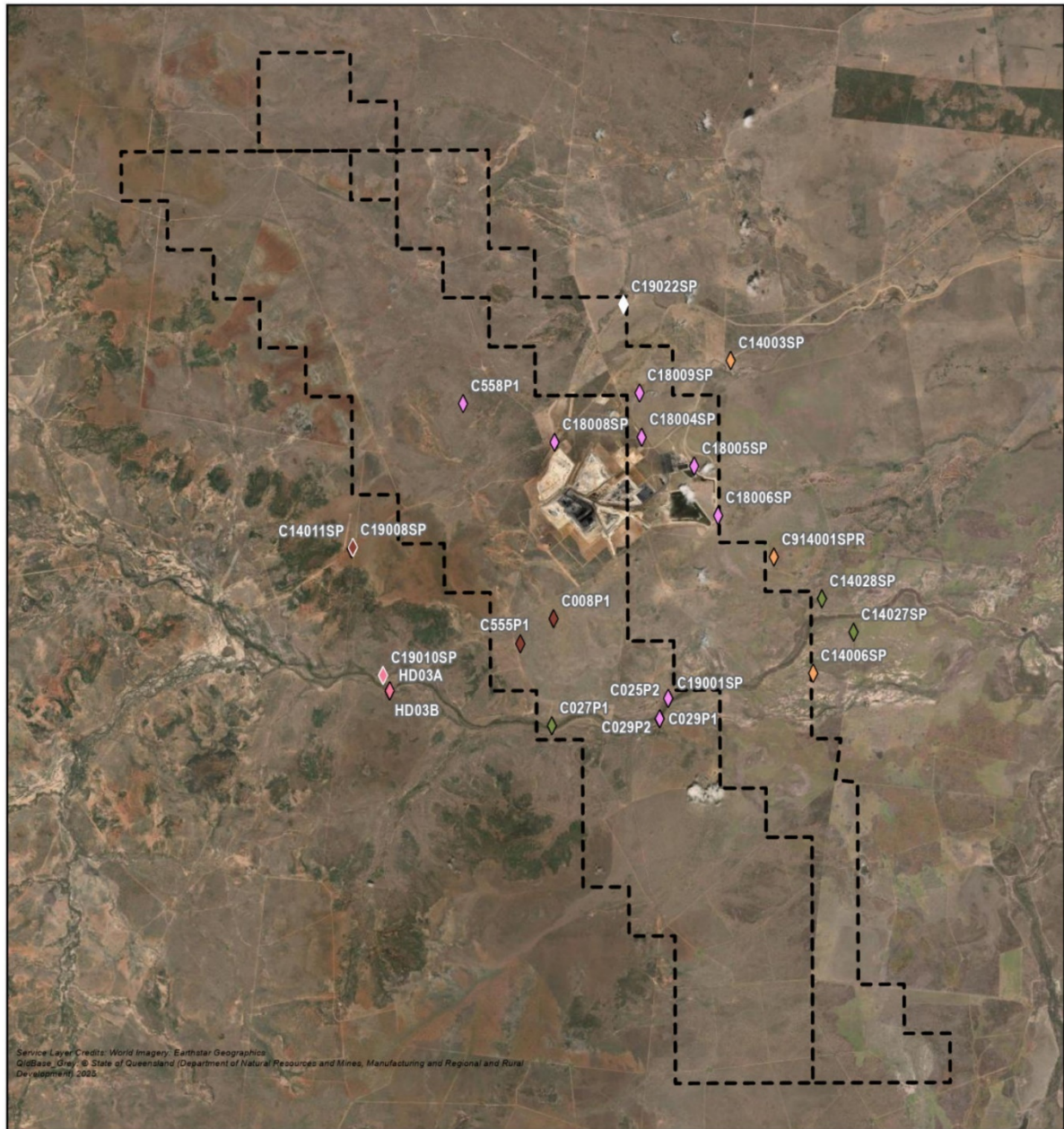
Notes:

- *All metals and metalloids must be measured as 'dissolved' (from analysis of a field filtered sample) and total (unfiltered).*
- *Limits for metals and metalloids apply to dissolved results.*
- *ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection).*

Appendix 7 – Groundwater monitoring bores

Monitoring Bore	Hydrogeological Unit	Compliance assessment required		Location	
		Water quality (Y/N)	Water level (Y/N)	Latitude (GDA2020)	Longitude (GDA2020)
C027P1	Alluvium	Y	Y	-22.110351	146.356647
C029P1	Alluvium	Y	Y	-22.108116	146.395903
C14027SP	Alluvium	Y	Y	-22.079022	146.4665289
C14028SP	Alluvium	Y	Y	-22.067681	146.455047
C19001SP	Alluvium	Y	Y	-22.10122	146.39917
HD03B	Alluvium	Y	Y	-22.09835	146.297721
C14011SP	Clematis Sandstone	Y	Y	-22.050096	146.284121
C19010SP	Clematis Sandstone	Y	Y	-22.09279	146.29546
HD03A	Clematis Sandstone	Y	Y	-22.098242	146.297751
C14003SP	Permian - Joe Joe	Y	Y	-21.986824	146.422181
C14006SP	Permian - Joe Joe	Y	Y	-22.092931	146.451761
C914001SPR	Permian - Joe Joe	Y	Y	-22.053453	146.437637
C008P1	Rewan Formation	Y	Y	-22.07408	146.357484
C19008SP	Rewan Formation	Y	Y	-22.05171	146.28544
C555P1	Rewan Formation	Y	Y	-22.08253	146.345319
C025P2	Tertiary	Y	Y	-22.101241	146.399027
C029P2	Tertiary	Y	Y	-22.108129	146.395869
C18004SP	Tertiary	Y	Y	-22.012651	146.389738
C18005SP	Tertiary	Y	Y	-22.022459	146.408619
C18006SP	Tertiary	Y	Y	-22.03934	146.417425
C18008SP	Tertiary	Y	Y	-22.014301	146.358147
C18009SP	Tertiary	Y	Y	-21.997697	146.389027
C19022SP	Tertiary	Y	Y	-21.96766	146.38341
C558P1	Tertiary	Y	Y	-22.001049	146.324867

Appendix 7a – Groundwater monitoring bores



BRAVUS
MINING & RESOURCES

**CARMICHAEL MINE
PROJECT**

**Ground Water Monitoring Bore Locations
Carmichael Coal Mine
Progressive Rehabilitation and Closure Plan**

Legend

Ground Water Monitoring Bores

- ◆ Alluvium
- ◆ Bandanna Formation
- ◆ Clematis Sandstone
- ◆ Colina Sandstone

- ◆ Composite Bores
- ◆ Dunda Beds
- ◆ Early Permian (Joe-Joe Group)
- ◆ Moolayember Formation
- ◆ Rewan Formation

- ◆ Spring Monitoring
- ◆ Tertiary Formation
- ◆ Un-used bores
- ◆ Vibrating Wire Piezometers
- Mining Lease

0 2.5 5
Kilometres
Scale: 1: 195,000
Paper Size: A4

Date 11 November 2025

Drawn SRW
Approved SW

Map Projection: Transverse Mercator
Horizontal Datum: GDA94
Grid: GDA 1994 MGA Zone 55

Revision A
Path: W:_05_GIS\Carmichael\2025\Enviro\PRCP\PRCP_2025_Maps.aprx

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Appendix 8 – Groundwater quality limits

Monitoring Bore	Hydrogeological Unit	pH	Electrical conductivity (µS/cm)	Sulfate (mg/L)	Nitrate as NO3 (mg/L)	Fluoride (mg/L)	Ammonia – N (mg/L)	Major ions (mg/L) - calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	Water level (mAHD)
C027P1	Alluvium	6.0-8.0	7,272	528	0.3	0.6	0.3	Interpretation	Interpretation
C029P1	Alluvium	6.0-8.0	33,696	1,050	0.1	1.5	0.2		
C14027SP	Alluvium	6.0-8.0	56,586	2,463	0.1	0.2	0.5		
C14028SP	Alluvium	6.0-8.0	51,171	1,945	0.1	0.3	0.3		
C19001SP	Alluvium	6.0-8.0	29,522	955	0.1	0.4	0.1		
HD03B	Alluvium	6.0-8.0	890	13	0.1	0.5	0.3		
C14011SP	Clematis Sandstone	5.0-8.0	350**	7	0.5	0.2	0.2		
C19010SP	Clematis Sandstone	6.0-8.5	684	2	0.1	0.4	0.2		
HD03A	Clematis Sandstone	6.0-8.0	779	12	0.1	0.3	0.3		
C14003SP	Permian - Joe Joe	5.5-8.0	58,646	2,670	0.1	0.2	0.6		
C14006SP	Permian - Joe Joe	6.0-8.0	9,165	213	0.1	0.9	0.7		
C914001SPR	Permian - Joe Joe	6.0-8.0	23,020	1,473	0.1	0.3	0.4		
C008P1	Rewan Formation	6.0-8.0	23,777	234	0.1	0.6	1.2		
C19008SP	Rewan Formation	6.0-9.0	1,477	7**	0.1	0.3	0.6		
C555P1	Rewan Formation	6.0-8.0	865	7	0.1	0.8	0.2		

C025P2	Tertiary	6.0-8.0	15,920	437	0.1	0.7	0.6
C029P2	Tertiary	6.0-8.0	13,712**	295	0.1	0.6	0.3
C18004SP	Tertiary	6.0-8.0	44,322	850	0.1	0.2	0.3
C18005SP	Tertiary	6.0-8.0	57,607	2,517	0.1	0.2	0.3
C18006SP	Tertiary	6.0-8.0	67,047	3,239	0.1	0.2	0.4
C18008SP	Tertiary	6.0-8.0	TBC	TBC	0.1	0.6	0.4
C18009SP	Tertiary	6.0-8.0	27,568	975	0.4	0.7	0.1
C19022SP	Tertiary	6.0-8.0	53,807	2,542	0.1	0.4	0.2
C558P1	Tertiary	6.0-8.0	10,672	274	0.1	0.5	0.4

Monitoring Bore	Hydrogeological Unit	Aluminium – dissolved (µg/L)	Arsenic – dissolved (µg/L)	Boron – dissolved (µg/L)	Cadmium – dissolved (µg/L)	Chromium – dissolved (µg/L)	Cobalt – dissolved (µg/L)	Copper – dissolved (µg/L)	Iron – dissolved (µg/L)	Lead – dissolved (µg/L)
C027P1	Alluvium	55	15	850	0.2	1	16	24	17,270	3.4
C029P1	Alluvium	55	13	5,676	0.2	1	11	62	1,000	3.4
C14027SP	Alluvium	55	13	3,226	0.2	1	66	18	5,385	3.4
C14028SP	Alluvium	55	13	3,298	0.2	1	14	11	1,341	3.4
C19001SP	Alluvium	55	13	2,465	0.2	1	1.4	6	125	3.4
HD03B	Alluvium	55	13	190	0.2	1	1.4	1.4	1,267	3.4
C14011SP	Clematis Sandstone	55	13	120	0.2	1	1.4	26	19	3.4
C19010SP	Clematis Sandstone	55	13	120	0.2	1	1.4	1.4	80	3.4
HD03A	Clematis Sandstone	55	13	160	0.2	1	1.4	1.4	713	3.4

C14003SP	Permian - Joe Joe	55	13	4,110	0.2	1	36	13		3.4
C14006SP	Permian - Joe Joe	55	13	534	0.2	1	1.4	1.4	8,666	3.4
C914001SPR	Permian - Joe Joe	55	13	2,095	0.2	1	1.4	6	9,200	3.4
C008P1	Rewan Formation	55	13	1,771	0.2	1	15	76	2,074	3.4
C19008SP	Rewan Formation	55	13	100	0.2	1	1.4	1.4	80	3.4
C555P1	Rewan Formation	55	13	300	0.2	1	1.4	1.4	2,113	3.4
C025P2	Tertiary	55	13	1,724	0.2	1	1.4	18	7,924	3.4
C029P2	Tertiary	55	13	1,476	0.2	1	1.4	5	2,154	3.4
C18004SP	Tertiary	55	13	1,600	0.2	1	1.4	1.4	880	3.4
C18005SP	Tertiary	55	13	6,030	0.2	11	18	1.4	1,670	3.4
C18006SP	Tertiary	55	13	6,548	0.2	1	13	1.4	1,485	3.4
C18008SP	Tertiary	55	13	940	0.2	1	1.4	1.4	TBC	3.4
C18009SP	Tertiary	55	13	1,850	0.2	11	1.4	28	80	3.4
C19022SP	Tertiary	55	17	4,722	0.2	1	1.4	10	19,360	3.4
C558P1	Tertiary	55	13	908	0.2	1	1.4	112	443	3.4

Monitoring Bore	Hydrogeological Unit	Manganese – dissolved (µg/L)	Mercury – dissolved (µg/L)	Molybdenum – dissolved (µg/L)	Nickel – dissolved (µg/L)	Selenium – dissolved (µg/L)	Silver – dissolved (µg/L)	Uranium – dissolved (µg/L)	Vanadium – dissolved (µg/L)	Zinc – dissolved (µg/L)
C027P1	Alluvium	2,855	0.6	10	35	5	0.05	0.5	6	58
C029P1	Alluvium	214	0.6	10	24	5	0.05	148	6	57
C14027SP	Alluvium	2,852**	0.6	2	45	5	0.05	0.5	6	45

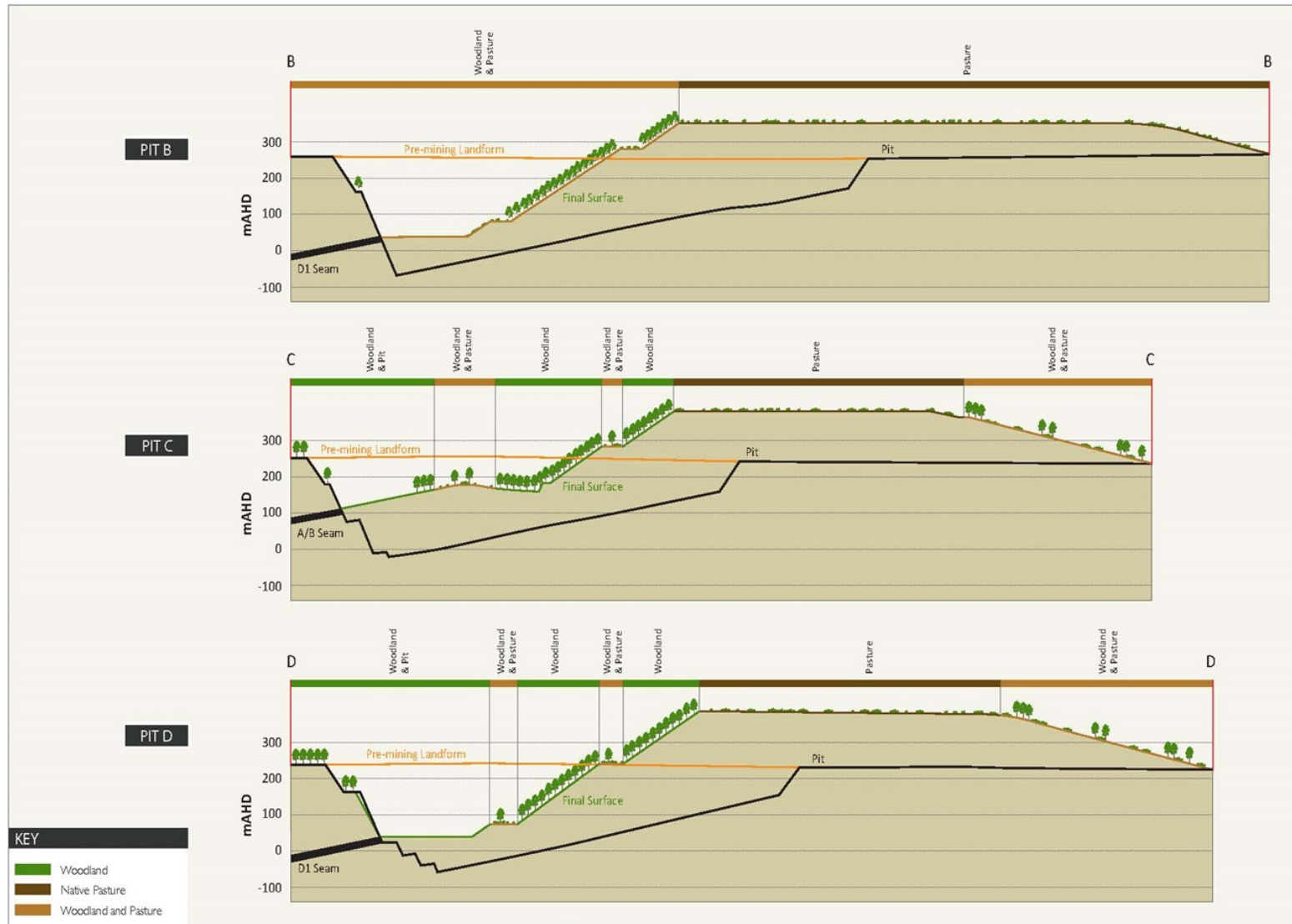
C14028SP	Alluvium	3,358	0.6	10	11	5	0.05	74	6	86
C19001SP	Alluvium	667	0.6	10	11	5	0.05	97	6	8
HD03B	Alluvium	326	0.6	2	11	5	0.05	0.5	6	21
C14011SP	Clematis Sandstone	14	0.6	2	11	5	0.05	0.5	6	85
C19010SP	Clematis Sandstone	19	0.6	2	11	5	0.05	0.5	6	8
HD03A	Clematis Sandstone	440	0.6	2	11	5	0.05	0.5	6	48
C14003SP	Permian - Joe Joe	2,872	0.6	10	34	5	0.05	0.5	6	155
C14006SP	Permian - Joe Joe	446	0.6	10	11	5	0.05	0.5	6	250
C914001SPR	Permian - Joe Joe	1,010	0.6	10	13	5	0.05	0.5	6	160
C008P1	Rewan Formation	2,294	0.6	5	51	5	0.05	15	6	63
C19008SP	Rewan Formation	21	0.6	23	11	5	0.05	0.5	6	8
C555P1	Rewan Formation	240	0.6	2	11	5	0.05	0.5	6	16
C025P2	Tertiary	1,900	0.6	5	27	5	0.05	0.5	6	34
C029P2	Tertiary	260	0.6	2	11	5	0.05	0.5	6	57
C18004SP	Tertiary	255	0.6	10	44	5	0.05	38	6	8
C18005SP	Tertiary	2,335	0.6	25	100	5	0.05	104	6	96
C18006SP	Tertiary	1,237	0.6	15	31	5	0.05	55	6	8
C18008SP	Tertiary		0.6	34	11	5	0.05	0.5	6	8
C18009SP	Tertiary	42	0.6	33	16	5	0.05	33	6	65

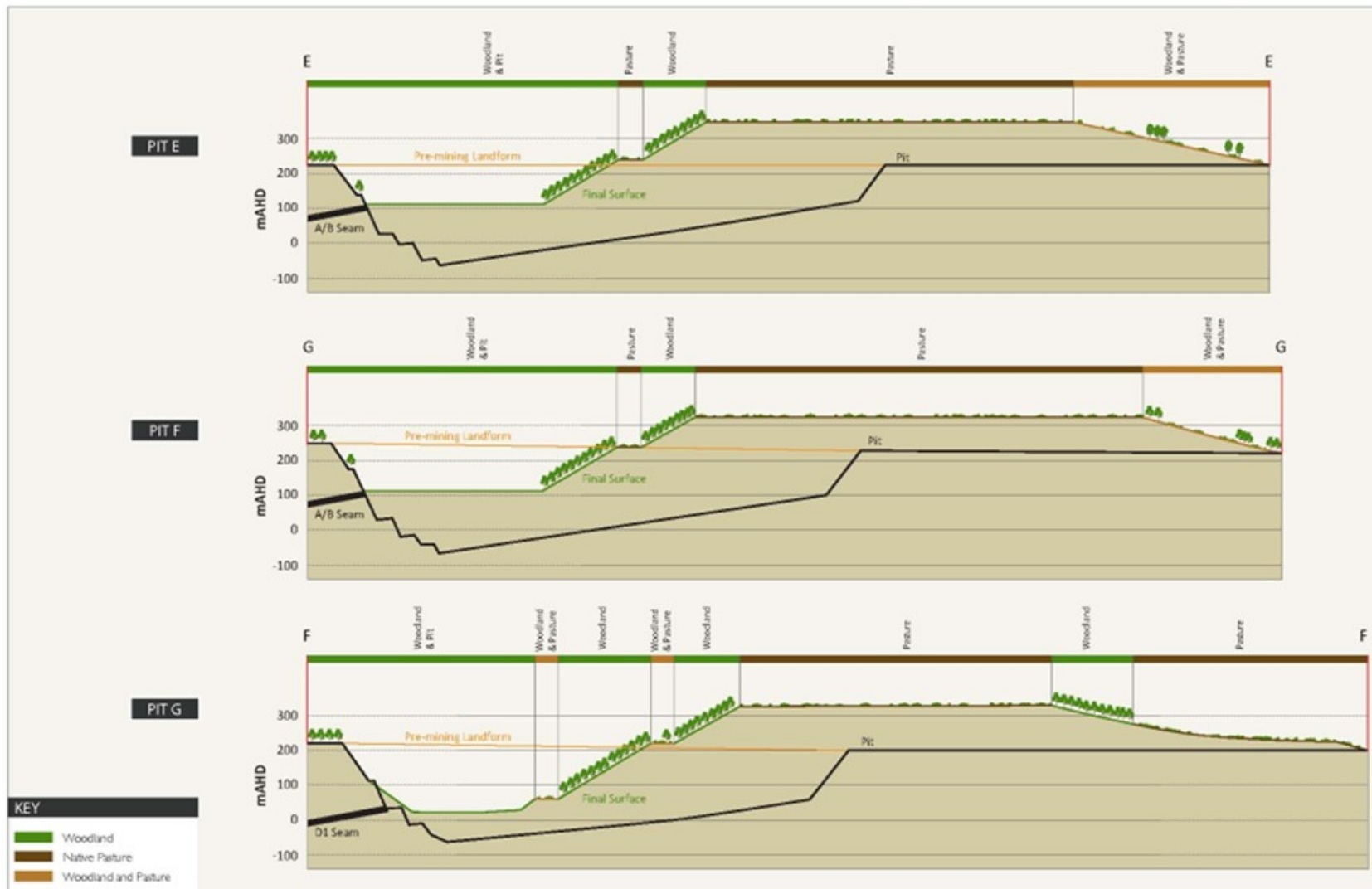
C19022SP	Tertiary	2,848	0.6	11	30	5	0.05	13	6	87
C558P1	Tertiary	40	0.6	2	64	5	0.05	0.5	11	178

Notes:

- *All metals and metalloids must be measured as 'dissolved' (from analysis of a field filtered sample) and total (unfiltered).*
- *Limits for metals and metalloids apply to dissolved results.*
- *ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection)*
- ** 95th percentile of bore data*
- *** 80th percentile of bore data*

Appendix 9 – Residual Void Cross Sections





Note – This Appendix demonstrates requirements to backfill residual void in relation to the coal seam only. Areas are to be rehabilitated to achieve the PMLU's specified as per this Schedule.

END OF **PRCP** SCHEDULE