

PRCP schedule

Environmental Protection Act 1994

P-PRCP-100868442 Mt Carbine Tungsten Mine

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

PRCP schedule: P-PRCP-100868442_V1

PRCP schedule holder(s)

Name(s)	Registered address
MT. CARBINE QUARRIES PTY. LTD	Level 11, 385 Bourke St MELBOURNE, VIC 3000

Location details

Location(s)
Mining Lease (ML) 4867, 4919

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

15 July 2026

Date

Juliana McCosker

Department of the Environment, Tourism, Science and Innovation

Delegate of the administering authority

Environmental Protection Act 1994

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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 detailed 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'; and
- (b) Describe in the notification why or why not the holder 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 in 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 or management milestone, the holder must continue to achieve the milestone for that rehabilitation milestone until:

- (a) A progressive certification area has satisfied the provisions of section 318ZB (4) of the EP Act; and
- (b) A surrender is approved.

PRCP4 The holder must maintain a risk register that identifies:

P-PRCP-100868442 Mt Carbine Tungsten Mine

- (a) The risks that may prevent achievement of a stable condition for post-mining land uses (PMLU); and
- (b) The risks that may prevent sufficient improvement for non use management areas (NUMA); and
- (c) How these risks are being managed and/or minimised.

PRCP5 The risk register (PRCP4) must be reviewed every three years from the date the original PRCP schedule was approved and include consideration of the outcomes of PRCP monitoring data.

PRCP6 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.

PRCP7 The holder must maintain up to date records on:

- (a) Achievement and maintenance of each rehabilitation or management milestone criteria of this schedule; and
- (b) Rehabilitation activities and the results of those activities (including but not limited to: actions taken, date, location, methods, data collected, quality assurance/ quality control (QA/QC), photographs, waste tracking and disposal records, appropriately qualified person (AQP) details and assumptions); and
- (c) Maintenance of rehabilitation and the results of maintenance activities; and
- (d) Monitoring of rehabilitation and the results of monitoring; and
- (e) Details and results of any rehabilitation trials; and
- (f) Designs, drawings, specifications and any similar documents developed in accordance with relevant standards in relation to rehabilitation milestones or milestone criteria; and
- (g) All documents in relation to the requirements of this schedule, including reports (e.g. site investigation report), statements (e.g. site suitability statement), certifications, assessments, investigations, inspections, audits or any similar documents developed in relation to rehabilitation milestones or milestone criteria; and
 - i. landholder agreements; and
 - ii. details of community consultation in the community consultation register relating to rehabilitation and closure activities; and
 - iii. any other evidence and/or records on which the holder relies on to demonstrate achievement of each rehabilitation milestone criteria in this schedule,

for the duration of the environmental authority.

PRCP8 Evidence and/or records made under PRCP7 must be provided to the administering authority in the specified format within 20 business days of a written request.

PRCP9 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 '*Eligibility criteria and standard conditions for exploration and mineral development projects*' or its successor, with the exception that land

must be rehabilitated to a stable condition that includes achieving the relevant post mining land use for the disturbance location as detailed in **Figure 1 – Final Site Design**.

- PRCP10** All AQP designs, specifications, certifications, assessments and any similar documents, must:
- (a) Include documented consideration of any relevant guideline or publication material, including material published by the administering authority; and
 - (b) Detail the boundary conditions (of any model); and
 - (c) Detail any assumptions made, limitations and areas of uncertainty; and
 - (d) Contain sufficient detail to allow for independent peer review and substantiation.
- PRCP11** An up-to-date closure groundwater model must be:
- (a) Calibrated once data becomes available; and
 - (b) Maintained with predictions rerun at least every five years, or a frequency agreed by the administering authority,
- from 19 June 2026 and within a year of any surrender application.
- PRCP12** By 10 December 2027 the holder must submit to the administering authority contemporary long term post-mining prediction numerical modelling for drawdown and groundwater level elevations.
- The predictive groundwater modelling, as per the Australian Groundwater Modelling Guidelines 2012, and any subsequent 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) on or surrounding the site.
- PRCP13** The monitoring bores listed in **Appendix 6 – Groundwater monitoring locations** must be installed by 10 December 2027.
- PRCP14** By 10 December 2027, the EA holder must provide to the administering authority an AQP prepared, landform closure design report for relevant structures.
- PRCP15** The landform closure design report required in PRCP14, must at a minimum, for the relevant structures include:
- (a) Detailed engineering designs; and
 - (b) Design aims and objectives of the final landform, including the cover system and batters; and
 - (c) The intended design life of the component parts of each relevant structure, including the cover, plateau, batters, access points, water management, and associated monitoring network; and
 - (d) QA/QC required during construction; and
 - (e) How the cover system achieves a performance outcome equivalent to or better than the design provided in the PRC Plan (R04, dated 24 April 2025); and
 - (f) How the cover system performance will be assessed and demonstrated; and

- (g) How the landform achieves acceptable geotechnical and erosional stability; and
- (h) How the landform achieves an acceptable water quality outcome; and
- (i) How redundancy of the monitoring network has been identified and built into the final design; and
- (j) How the design, including the component parts, supports the achievement of the nominated PMLU and NUMA; and
- (k) How the design has been developed to account for the repair of any potential failure modes in the landform; and
- (l) The critical design elements and associated assessment that support the achievement of a stable condition; and
- (m) Where any assumed or inferred material properties have been used in the design or its assessment (inclusive of modelling):
 - i. Provide a detailed discussion justifying why actual/measured properties were not used; and
 - ii. How uncertainties regarding material properties may affect performance; and
 - iii. How those uncertainties are managed.
- (n) How the safety bund/levee or equivalent structure (within IA1) has been designed, including, at a minimum:
 - i. Consideration of the void water balance;
 - ii. Consideration of durability, maintenance requirements and design life;
 - iii. Consideration of how any equivalent structure, in lieu of a safety bund/levee, will function as a physical exclusion barrier;
 - iv. How the safety bund/levee and equivalent structure will meet best practice requirements including preventing human and stock access whilst allowing for wildlife connectivity from the undisturbed area between the high wall and the bund as identified in Figure 1: Rehabilitation Areas and Improvement Areas and Figure 2: Final site design and land use.
- (o) The total hectares of the undisturbed area between the bund and the high wall will be specified by 10 December 2027.

PRCP16 The documents required under PRCP14 (detailed in PRCP15) must be independently peer reviewed.

Both the AQP and independent peer reviewer must provide a certification that the landform closure design report is:

- (a) Fit for purpose; and
- (b) Prepared in accordance with relevant Australian standards; and
- (c) If constructed as per the landform closure design report the rehabilitated landform will achieve a stable condition in a post-closure context.

PRCP17 By 10 December 2030 Environmental Authority EPPR00438313 (relating to environmentally relevant activity 16 on Lot 13 on SP254833) has been amended to authorise the following activities:

- (a) TSF3,
- (b) TSF4 and Low-grade material stockpile.

The amended Environmental Authority EPPR00438313 must also:

- (a) Correspond to the locations identified within Figure 1: Final Site Design and Figure 2: Reference map;
- (b) Correspond to the areas identified as RA6 and RA8; and
- (c) Include rehabilitation criteria relating to RA6 and RA8.

PRCP18 By 10 December 2027 the holder must provide to the administering authority a report that evaluates existing criteria and proposes replacement rehabilitation criteria and limits for the interim criteria in RM6, RM7 (excepting from 7.1 and 7.5–7.9) and RM8 (excepting 8.4–8.9), and to replace Appendices 1, 2, 8 and 9.

PRCP19 By 1 December 2032 the holder must submit a report to the administering authority which proposes groundwater and surface water quality limits to replace the interim values and monitoring locations in Appendices 4 to 7, **Figure 3 - Surface water monitoring locations** and **Figure 4 - Groundwater monitoring locations**.

END OF CONDITIONS

Section B - Definitions

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.
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.
ANZG 2018	means Australian and New Zealand Guidelines for Fresh and Marine Water Quality. Previously ANZECC (2000).
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.
Contaminated Land Auditor	a contaminated land auditor is responsible for auditing the work of the suitably qualified person (SQP) by evaluating and certifying site investigation and validation reports and drafting the site management plans that are submitted for a decision on a land contamination matter.
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.
Independent AQP	is an AQP who is a third party who is able to demonstrate a sufficient level of independence from the PRCP schedule holder, the site and any technical material generated that is the subject of the review, to satisfy a reasonable person that they have no conflict of interest on the matter the subject of the review.
Independently peer reviewed	means a peer reviewer who is a third-party to the PRCP schedule holder and the AQP whose report is being reviewed and substantiated, and is able to demonstrate a sufficient level of independence from the PRCP schedule holder, the site and any technical material generated that is the subject of the review to satisfy a reasonable person that they have no conflict of interest on the matter the subject of the review. The peer reviewer shall also be an AQP and documentation provided must contain sufficient detail to allow for independent technical review and substantiation and provide and justify site-specific landform performance (SMART) criteria.

P-PRCP-100868442 Mt Carbine Tungsten Mine

Native	means vegetation occurring naturally within Regional Ecosystems XX and/or listed in the relevant Regional Ecosystem technical description.
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).
Registered Professional Engineer of Queensland (RPEQ)	registration as a registered professional engineer of Queensland (RPEQ) demonstrates an engineer's qualification, competency and experience and ongoing commitment to development and learning
Rehabilitation activity	means any activity that the holder is required to carry out in relation to this PRCP schedule.
Relevant structure	includes: (a) The open-cut pit (within Improvement area (IA)1), (b) Sulfide disposal area (within Rehabilitation area (RA)1), (c) Tailings storage facility (TSF) 3 (within RA6), (d) Diversions (within RA7), and (e) Reject Stockpile, Low grade ore stockpile and TSF4 (within RA8).
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 experienced person (SQP)	for performing a regulatory function under chapter 7, part 8 (Contaminated 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.
Tailings Storage Facility 4 (TSF4)	means the storage facility designed to capture closed circuit non-acid forming material and water from the gravity circuit infrastructure.
Vegetative groundcover	means plants, plant litter, tree leaf litter, twigs and woody debris capable of protecting the soil surface from erosion.
Weed	includes: (a) Category 3 restricted invasive plant species, defined by the Biosecurity Act 2014; and (b) 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

Figure 2: Reference map

Figure 1: Final Site Design

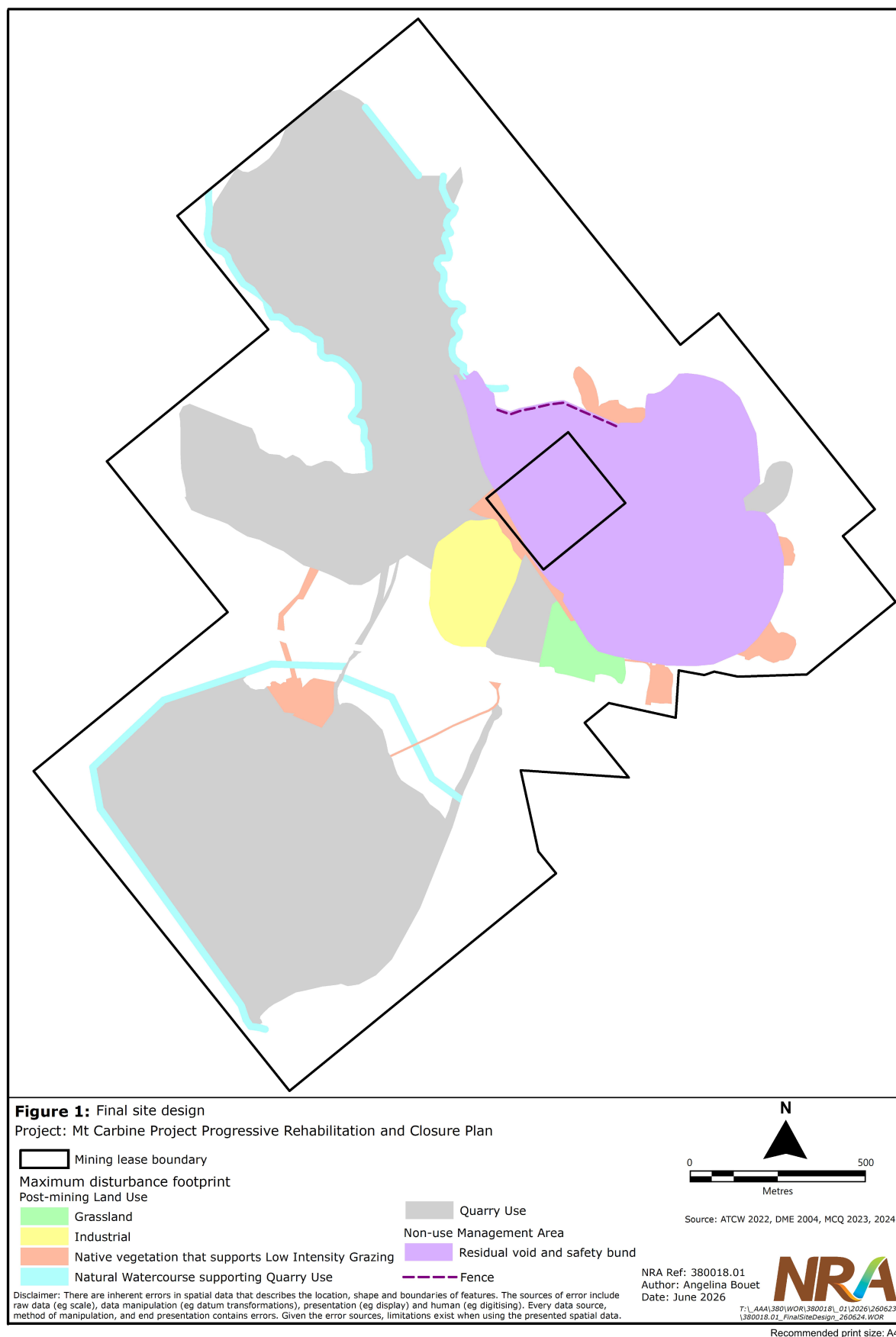
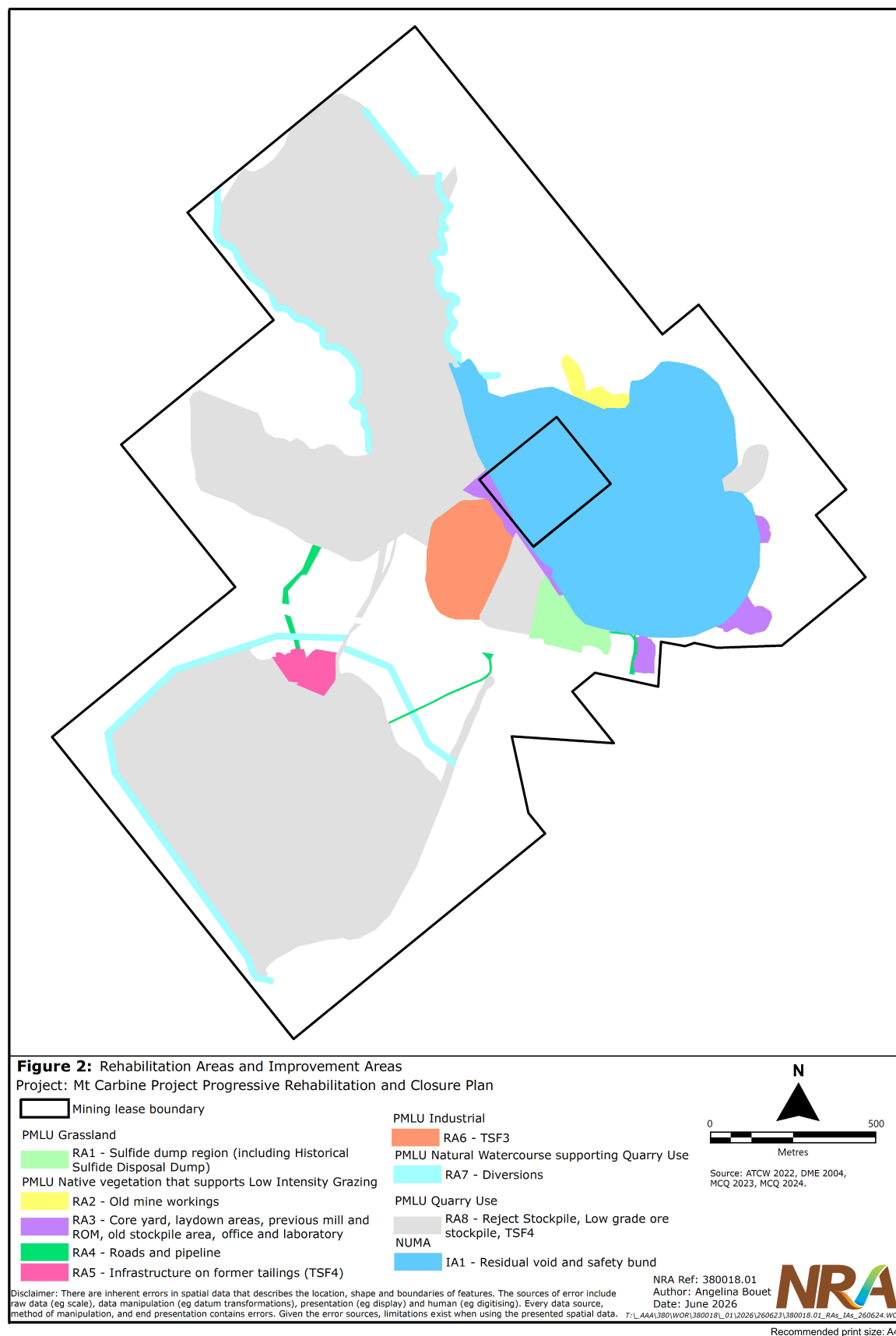


Figure 2: Reference map



Section D – Post mining land uses

Milestone reference	Rehabilitation milestone	Rehabilitation Area							
		RA1	RA2	RA3	RA4	RA5	RA6	RA7	RA8
		Sulfide dump region	Old mine workings	Infrastructure	Roads & pipeline	Infrastructure on TSF4	TSF3	Diversions	Reject Stockpile, Low grade ore stockpile, TSF4
		Grassland	Native vegetation that supports Low Intensity Grazing	Native vegetation that supports Low Intensity Grazing	Native vegetation that supports Low Intensity Grazing	Native vegetation that supports Low Intensity Grazing	Industrial	Natural Watercourse supporting Quarry Use	Quarry Use
RM1	Infrastructure removal								
RM2	Identification, remediation and removal of contaminated land								
RM3	Landform development								
RM4	Installation of cover system								
RM5	Surface preparation								
RM6	Revegetation								
RM7	Achievement of surface requirements								
RM8	Achievement of target PMLU to a stable condition – without water quality								

P-PRCP-100868442 Mt Carbine Tungsten Mine

RM9	Achievement of Industrial and Quarry Use PMLU - without water quality								
RM10	Surface water and groundwater demonstrate non-polluting landform								

Note:

= RM applies to the corresponding rehabilitation area (RA)

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)							
Rehabilitation area	RA1						
Relevant activities	Sulfide dump region: 1ha for the buried historic sulphide disposal dump and 2ha for surrounding land						
Total rehabilitation area size (ha)	3						
Commencement of first milestone: RM1	1/07/2033						
PMLU	Grassland						
Date area is available	10/12/2033	1/07/2053					
Cumulative area available (ha)	1	3					
Milestone completed by	10/12/2034	10/12/2054	10/12/2065	10/12/2075			
Milestone Reference	Cumulative area achieved (ha)						
RM1	1	2					
RM3		3					
RM4		3					
RM5		3					
RM6		3					
RM7			3				
RM8				3			
RM10				3			

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)										
Rehabilitation area	RA2									
Relevant activities	Old mine workings									
Total rehabilitation area size (ha)	1									
Commencement of first milestone: RM1	1/07/2053									
PMLU	Native vegetation that supports Low Intensity Grazing									
Date area is available	10/12/2053									
Cumulative area available (ha)	1									
Milestone completed by	10/12/2054	10/12/2064	10/12/2075							
Milestone Reference	Cumulative area achieved (ha)									
RM1	1									
RM2	1									
RM3	1									
RM5	1									
RM6	1									
RM7		1								
RM8			1							
RM10			1							

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)									
Rehabilitation area	RA3								
Relevant activities	Core yard, laydown areas, previous mill and Run of Mine (ROM), old stockpile area, office and laboratory								
Total rehabilitation area size (ha)	3								
Commencement of first milestone: RM1	1/07/2053								
PMLU	Native vegetation that supports Low Intensity Grazing								
Date area is available	10/12/2053								
Cumulative area available (ha)	3								
Milestone completed by	10/12/2054	10/12/2064	10/12/2069	10/12/2075					
Milestone Reference	Cumulative area achieved (ha)								
RM1	3								
RM2	3								
RM3	3								
RM5	3								
RM6	3								
RM7		3							
RM8			3						
RM10				3					

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)								
Rehabilitation area	RA4							
Relevant activities	Roads and pipeline							
Total rehabilitation area size (ha)	1							
Commencement of first milestone: RM1	1/07/2053							
PMLU	Native vegetation that supports Low Intensity Grazing							
Date area is available	10/12/2053							
Cumulative area available (ha)	0.8	1						
Milestone completed by	10/12/2054	10/12/2064	10/12/2069	10/12/2075				
Milestone Reference	Cumulative area achieved (ha)							
RM1	0.8	1						
RM2	0.8	1						
RM3	0.8	1						
RM5	0.8	1						
RM6	0.8	1						
RM7		1						
RM8			1					
RM10				1				

(RA5) Rehabilitation area 5

Post-mining land uses (PMLU)									
Rehabilitation area	RA5								
Relevant activities	Infrastructure on Tailings Storage Facility (TSF) 4								
Total rehabilitation area size (ha)	2								
Commencement of first milestone: RM1	1/07/2053								
PMLU	Native vegetation that supports Low Intensity Grazing								
Date area is available	10/12/2053								
Cumulative area available (ha)	2								
Milestone completed by	10/12/2054	10/12/2064	10/12/2069	10/12/2075					
Milestone Reference	Cumulative area achieved (ha)								
RM1	2								
RM2	2								
RM3	2								
RM5	2								
RM6	2								
RM7		2							
RM8			2						
RM10				2					

(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)										
Rehabilitation area	RA6									
Relevant activities	TSF3									
Total rehabilitation area size (ha)	7									
Commencement of first milestone: RM1	1/07/2053									
PMLU	Industrial									
Date area is available	10/12/2053									
Cumulative area available (ha)	7									
Milestone completed by	10/12/2054	10/12/2075								
Milestone Reference	Cumulative area achieved (ha)									
RM1	7									
RM2	7									
RM3	7									
RM5	7									
RM9	7									
RM10		7								

(RA7) Rehabilitation area 7

Post-mining land uses (PMLU)										
Rehabilitation area	RA7									
Relevant activities	Diversions									
Total rehabilitation area size (ha)	9									
Commencement of first milestone: RM3	10/12/2053									
PMLU	Natural Watercourse supporting Quarry Use									
Date area is available	10/12/2053									
Cumulative area available (ha)	9									
Milestone completed by	10/12/2054	10/12/2064	10/12/2069	10/12/2075						
Milestone Reference	Cumulative area achieved (ha)									
RM3	9									
RM5	9									
RM6	9									
RM7		9								
RM8			9							
RM10				9						

(RA8) Rehabilitation area 8

Post-mining land uses (PMLU)										
Rehabilitation area	RA8									
Relevant activities	Reject Stockpile, Low grade ore stockpile, TSF4									
Total rehabilitation area size (ha)	135									
Commencement of first milestone: RM1	10/12/53									
PMLU	Quarry Use									
Date area is available	10/12/2053									
Cumulative area available (ha)	135									
Milestone completed by	10/12/2054	10/12/2075								
Milestone Reference	Cumulative area achieved (ha)									
RM1	135									
RM2	135									
RM3	135									
RM5	135									
RM9	135									
RM10		135								

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure removal	2.1 With the exception of any infrastructure to remain as part of the post-mining land use (PMLU), the following are complete: (a) All services disconnected, terminated and removed, (b) All buildings and associated infrastructure dismantled and removed offsite, (c) All hardstand, concrete areas and roads (bitumen, blue metal, aggregate etc.) removed, (d) All fencing and associated foundations removed, (e) All pipelines drained and removed, (f) All waste not authorised to be disposed of on-site under Environmental Authority EPML00956913 removed, (g) All surface water drainage infrastructure that is not compatible with the sustainment of the PMLU is removed, (h) All drillholes, bores, sediment ponds and sumps decommissioned and rehabilitated, (i) All machinery and equipment, not required for rehabilitation works removed from site, (j) All dams: i. Dewatered; ii. Desilted; and iii. liner removed; and (k) Watercourse crossings and culverts removed.
RM2	Identification, remediation and removal of contaminated land	2.1 Site Investigation Report: (a) prepared and certified by a suitably qualified person (SQP); and (b) approved in accordance with the <i>Environmental Protection Act 1994</i>. 2.2 Site removed from Contaminated Land Register by the registrar; or 2.3 Site Management Plan:

P-PRCP-100868442 Mt Carbine Tungsten Mine

		(a) prepared and certified by an SQP and (b) approved in accordance with the <i>Environmental Protection Act 1994</i> and (c) includes a statement by the underlying landholder accepting responsibility to implement the Site Management Plan. 2.4 Contaminated water and sediment removed from dams. 2.5 Contaminated Land Auditor certifies that no contamination unsuitable for the PMLU remains or is occurring.
RM3	Landform development	3.1 All major earthworks completed in accordance with the design specification provided by an AQP showing surveyed area contours, finished slope and conformance to designed landform and drainage. 3.2 Drainage works within rehabilitation areas completed, confirmed by survey. 3.3 Constructed landform achieves geotechnical stability with a Factor of Safety (FOS) ≥ 1.5, which includes consideration of flood stress. 3.4 Relevant structures developed and/or reshaped, such that they are consistent with the landform closure design report, per PRCP14. 3.5 Watercourse bed and banks returned to a natural condition with profile similar to the pre-disturbance condition. 3.6 All landforms are shaped to be water shedding. 3.7 Diversions/drainage constructed in accordance with the engineering designs developed by an AQP. 3.8 Existing and proposed Erosion and Sediment Control (ESC) and drainage structures on site have been reviewed and endorsed by an independent AQP as appropriate to the landform, materials and PMLU, with consideration given to long term performance and stability in a post-closure context. 3.9 An "As-Constructed Report" prepared which details and justifies all variations to the design, including a certification from an AQP that such variations will not affect the design performance.
RM4	Installation of cover system	Historical sulfidic waste material has a cover system installed as per design and per PRCP14. 4.1 Cover system design and performance criteria based on level of environmental risk has been endorsed via an independent AQP peer review. 4.2 Capping layer surface is water shedding and does not display surface ponding. 4.3 The cover system displays erosional stability, is geotechnically stable and supports the PMLU.

P-PRCP-100868442 Mt Carbine Tungsten Mine

RM5	Surface preparation	5.1 Tracks ripped to a depth of 0.5 m and graded. 5.2 Soil health and suitability assessment by AQP confirms topsoil is suitable for seeding. 5.3 AQP recommended application of amelioration/fertiliser implemented. 5.4 Topsoil/growth media spread to a depth of 200 mm in areas where topsoil has previously been removed. 5.5 Deep ripping of compacted surfaces, at least 300 mm (or refusal) into soil/subsoil profile along contour of slopes. 5.6 Following ripping and amelioration, plant growth media is tested by an AQP to confirm the following parameters are met: (a) pH in the range of 6-8.5; (b) Electrical Conductivity (saturated extent) is(dS/m) ≤ 2 (2,000 $\mu\text{S/cm}$); and (c) Exchangeable sodium percentage (ESP %) < 6; and (d) Emerson aggregate class is ≥ 4. 5.7 The surface and groundwater monitoring network are installed and monitoring is underway (one year of sampling undertaken).
RM6	Revegetation	6.1 Non-native seed must not be used for the revegetation (except when sterile cover crops are used). For RA1 in addition to RM6.1 above: 6.2 Seeding and/or tubestock planting composed of any combination of native plant species per Appendix 1 - Species list for Grassland PMLU. 6.3 No deep-rooted species applied. For RA2, 3, 4 and 5 in addition to RM6.1 above: 6.4 Seeding and/or tubestock planting composed of any combination of native plant species per Appendix 2 – Species list for Native vegetation that supports Low intensity grazing PMLU.

P-PRCP-100868442 Mt Carbine Tungsten Mine

		For RA7 in addition to RM6.1 above: 6.5 Seeding and/or tubestock planting to the banks of the diversion channels only.
RM7	Achievement of surface requirements	7.1 The As-constructed landform achieves design criteria for geotechnical stability with a Factor of Safety (FOS) $\geq$ 1.5. 7.2 Weed presence is a less than 5% of total vegetative cover. 7.3 Total vegetative groundcover $\geq$50%. 7.4 Total groundcover (combination of vegetative cover, other organic material (i.e. sticks, leaf litter) and inorganic material (i.e. rocks)) $\geq$ 70%. 7.5 No evidence of erosion classified as 'moderate' or 'severe' as defined by Appendix 3 – Erosion classification framework. 7.6 Any erosion present will not compromise the achievement of a PMLU to a stable condition. 7.7 Erosion requiring intervention has been remediated and does not impact achieving the PMLU. 7.8 No evidence of scouring, overtopping, sedimentation or destabilisation in or associated with erosion and sediment control and engineered drainage structures. 7.9 Surface water runoff collected from representative areas of rehabilitation when surface flow occur and is on a trajectory to meeting Appendix 4 – Surface water quality limits. For RA1 in addition to RM7.1 – 7.9 above: 7.10 A BioCondition assessment completed by an AQP in accordance with the latest version of the Queensland Herbarium's "BioCondition Assessment Manual" determines that the PMLU has reached a BioCondition score of 20/60 as per Appendix 8 – BioCondition Benchmark Criteria for Grassland PMLU. For RA2, 3, 4 and 5, in addition to RM7.1 – 7.9 above: 7.11 A BioCondition assessment completed by an AQP in accordance with the latest version of the Queensland Herbarium's "BioCondition Assessment Manual" determines that the PMLU has reached a BioCondition score of

P-PRCP-100868442 Mt Carbine Tungsten Mine

		20/60 as per Appendix 9 – BioCondition Benchmark Criteria for Native vegetation that supports Low Intensity Grazing PMLU. For RA7 in addition to RM7.1 – 7.9 above: 7.12 Watercourse vegetation meets the following: (a) Species richness: i. ≥ 2 native trees listed in Appendix 2 – Species list for Native vegetation that supports Low intensity grazing PMLU; ii. ≥ 2 native shrubs listed in Appendix 2 – Species list for Native vegetation that supports Low intensity grazing PMLU; and iii. ≥ 2 grass species listed in Appendix 2 – Species list for Native vegetation that supports Low intensity grazing PMLU. (b) Tree canopy cover $\geq 13\%$ of species listed in Appendix 2 – Species list for Native vegetation that supports Low intensity grazing PMLU.
RM8	Achievement of post-mining land use to a stable condition	8.1 An AQP certifies that PMLU has been achieved and is stable. 8.2 Median tree stem density $\geq 70\%$ of median tree stem density from grazed reference sites (as detailed within PRCP18). 8.3 Total vegetative groundcover $\geq 70\%$. 8.4 Safety hazards in the rehabilitation area are not significantly different to surrounding unmined landscapes subject to the same land use. 8.5 The final landform is geotechnically stable and achieved a factor of safety ≥ 1.5. 8.6 Any erosion present will not compromise the achievement of a PMLU to a stable condition. 8.7 Final landform survey confirms no built structures remain other than those that form part of a landholder agreement. For RA1 in addition to RM8.1 – 8.7 above:

P-PRCP-100868442 Mt Carbine Tungsten Mine

		8.10 ≥50% of groundcover accounted for by a combination of any of the species listed in Appendix 1 - Species list for Grassland PMLU. 8.11 A BioCondition assessment is completed by an AQP in accordance with the latest version of the Queensland Herbarium's "BioCondition Assessment Manual" determines that the PMLU has reached a BioCondition score of 40/60 as per Appendix 8 – BioCondition Benchmark Criteria for Grassland PMLU. For RA2, 3, 4 and 5, in addition to RM8.1 – 8.7 above: 8.12 ≥50% of groundcover accounted for by a combination of any of the species listed in Appendix 2 - Species list for Native vegetation that supports Low intensity grazing PMLU. 8.13 A BioCondition assessment is completed by an AQP in accordance with the latest version of the Queensland Herbarium's "BioCondition Assessment Manual" determines that the PMLU has reached a BioCondition score of 40/60 as per Appendix 9 – BioCondition Benchmark Criteria for Native vegetation that supports Low Intensity Grazing PMLU.
RM9	Achievement of Industrial PMLU and Quarry Use PMLU	9.1 Signed acceptance by the holder of EPPR00438313 (relating to environmentally relevant activity 16 on Lot 13 on SP254833) that infrastructure to be retained: (a) Is suitable in type and scale for the approved industrial use and quarry use; (b) Has been verified by an AQP as fit for purpose; (c) Has been certified by an AQP as safe, stable and will not cause environmental harm; (d) Is accepted; and (e) Condition PRCP18 has been met. 9.2 Where engineered drainage structures are to be retained as permanent features (e.g. contour banks, bench drains, rock drains, diversions), these have been certified by an AQP as stable and can be expected to remain stable and functional in the long-term. 9.3 Any erosion present will not compromise the achievement of a PMLU to a stable condition. 9.4 The final landform is geotechnically stable and achieved a factor of safety ≥ 1.5. 9.5 ≥50% of groundcover accounted for by a combination of any of the species listed in Appendix 1 - Species list for Grassland PMLU achieved for:

P-PRCP-100868442 Mt Carbine Tungsten Mine

		(a) Batters of TSF3 and 4 and any retained water storages, and (b) All other areas of RA4. 9.6 TSF3 and TSF and all retained water storages are safe for native animals and stock access. 9.7 TSF3 and TSF4 and all retained water storages are safe and stable.
RM10	Surface water and groundwater demonstrate non-polluting landform	10.1 Surface water quality results monitored monthly during flow at, <i>but not limited to</i>, downstream locations specified in Appendix 5 – Surface water monitoring locations and depicted in Figure 3: Surface water monitoring locations, must not exceed the limits in Appendix 4 - Surface water quality limits, for a minimum of 5 consecutive years immediately prior to the milestone completion date. 10.2 If the surface water quality exceeds criteria RM10.1, data from the applicable upstream site must be compared to the downstream site result; and the quality result measured at a downstream site must not exceed, or for analytes with a range limit, must not be outside the range, of the data from the applicable upstream site¹. 10.3 Where the surface water quality at the downstream site exceeds the upstream site result, an independent AQP must complete an assessment of the risk of rehabilitation not achieving a stable condition within the schedule timeframe and: (a) Where there is a low risk to achieving a stable condition from the mining tenure, then no further action is to be taken; or (b) Where there is a risk greater than low to achieving a stable condition, then an assessment of potential environment harm and any changes or rectification actions to rehabilitation activities must be determined and implemented. (c) If RM10.3(b) is triggered, the 5-year timeframe in RM10.1 is reset. 10.4 Groundwater quality must be monitored quarterly at, <i>but not limited to</i>, bores specified in Appendix 6 – Groundwater monitoring locations and depicted in Figure 4: Groundwater monitoring locations, for all quality characteristics listed in Appendix 7 – Groundwater quality limits. 10.5 Groundwater quality results must not exceed the limits in Appendix 7 – Groundwater quality limits, for 3 consecutive results, for a minimum of five consecutive years immediately prior to the milestone completion date.

¹ For pH, the quality result measured at the downstream location must be within the prescribed range. However, where pH at the downstream location is greater-than (>) the highest limit in the range, the pH at the applicable upstream location must be greater-than or equal-to (≥) the downstream location. Conversely, where pH at the downstream location is less than (<) the lowest limit in the range, the upstream pH at the applicable upstream location must be less-than or equal-to (≤) the downstream location.

P-PRCP-100868442 Mt Carbine Tungsten Mine

		<p>10.6 Where the groundwater quality at a bore exceeds the limits in Appendix 7 – Groundwater quality limits, for 3 consecutive results, an independent AQP must complete an assessment of the risk of rehabilitation not achieving a stable condition within the schedule timeframe and:</p> <p class="list-item-l1">(a) Where there is a low risk to achieving a stable condition from the mining tenure, then no further action is to be taken; or</p> <p class="list-item-l1">(b) Where there is a risk greater than low to achieving a stable condition, then an assessment of potential environment harm and any changes or rectification actions to rehabilitation activities must be determined and implemented.</p> <p class="list-item-l1">(c) If RM10.6(b) is triggered, the 5-year timeframe in RM10.5 is reset</p> <p>10.8 Groundwater level is monitored quarterly and for a minimum of 5 consecutive years immediately prior to the milestone completion date.</p>
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Section E – Non-use management areas

(IA1) Improvement area 1

Non-use management area (NUMA)									
Improvement area	IA1								
Relevant activities	NUMA								
Total size (ha)	52								
Commencement of first milestone: MM1	01/07/2053								
NUMA	Residual void and safety bund/levee								
Date area is available	10/12/2053								
Cumulative area available (ha)	52								
Milestone completed by	10/12/2059	10/12/2075							
Milestone Reference	Cumulative area achieved (ha)								
MM1	52								
MM2	52								
MM3		52							

Improvement area milestones

Milestone reference	Management milestone	Milestone criteria
MM1	Achievement of structural stability	1.1 Water level is $\leq 365\text{mRL}$. 1.2 Pit wall landforms must: (a) Prevent surface or seepage flow of floodwater into the void; (b) Be geotechnically stable when floodwater is against the batter; (c) Not be constructed with dispersive material. 1.3 Final residual void is not subject to inundation from floodwaters up to and including the 0.1% AEP. 1.4 An appropriately qualified person (Register of Professional Engineers of Queensland) certifies that the NUMA as constructed landform achieves design criteria for geotechnical stability with a Factor of Safety (FOS) ≥ 1.5. 1.5 The location of the voids and associated safety bunds/levee does not cause instability or degradation to the land outside the NUMA. 1.6 Residual void has not overtopped. 1.7 Roads within NUMA extents ripped and seeded per Appendix 1 - Species list for Grassland PMLU. 1.8 The area between the safety bund/levee and safety fence has been reseeded per Appendix 1 - Species list for Grassland PMLU. 1.9 Undisturbed areas within NUMA extents must remain undisturbed. 1.10 Ventilation shafts, declines, portals and box cuts decommissioned and rendered safe, stable and non-polluting in a closure context.
MM2	Achievement of surface requirements	2.1 Competent safety bund/levee or equivalent landform in place to prevent access to the residual void, at appropriate geotechnical set-back distance. 2.2 Fencing erected, where required to prevent access to the residual void, around the perimeter of the safety bund/levee and in accordance with Figure 1 and the final landform design (PRCP condition 14).

P-PRCP-100868442 Mt Carbine Tungsten Mine

		2.3 The safety bund/levee are constructed from non-weathered, non-dispersive material in accordance with engineering requirements. 2.4 Safety signage (design in accordance with Australian standard) erected at 100m intervals along the fence.
MM3	Achievement of sufficient improvement	3.1 A weed management plan has been implemented and no weeds are present. 3.2 Area between safety fence and safety bund/levee achieve a groundcover rate > 30% of the species listed within Appendix 1 - Species list for Grassland PMLU. 3.3 The residual void is safe to humans and livestock. 3.4 The water level and quality in the void do not and will not cause environmental harm to the receiving environment, as demonstrated by groundwater level, surface water and groundwater quality monitoring and modelling. 3.5 The residual void acts as groundwater sink post-closure, as demonstrated with water quality, water level and modelling data. 3.6 The residual void retains flood immunity, supported by flood modelling re-run at end of life and calibrated against the final landform. 3.7 The residual void will not present an unacceptable risk of environmental harm. 3.8 Erosion of the landform within the NUMA area will not negatively impact on the stability of any adjacent rehabilitation areas, or their ability to sustain their PMLU. 3.9 A Register of Professional Engineers of Queensland (RPEQ) certifies that features linked to underground mining have been bundled or sealed and are safe.

Section F - Appendices

Appendix 1 - Species list for Grassland PMLU

	Scientific Name	Seeding rate
Shrubs	<i>Carissa lanceolata</i>	5kg/ ha
	<i>Eremophia longifolia</i>	
	<i>Acacia chisholmii</i>	
	<i>Acacia orthocarpa</i> *	
	<i>Atalaya hemiglauc*</i>	
	<i>Gossypium australe</i>	
	<i>Dodonaea sp.</i>	
	<i>Acacia monitcola</i> #	
	<i>Grevillea wickhamii</i> #	
Grasses	<i>Triodia pungens</i> *	10kg/ ha
	<i>Triodia molesta</i> *	
	<i>Eriachne mucronata</i>	
	<i>Themeda triandra</i>	
	<i>Enneapogon lindleyanus</i>	
	<i>Eulalia aurea</i>	
	<i>Cymbopogon bombycinus</i> *	
	<i>Triodia longipes</i>	
	<i>Eriachne ciliata</i> #	
	<i>Aristida holathera</i> #	

P-PRCP-100868442 Mt Carbine Tungsten Mine

Forbs	<i>Corchorus sidoides</i> *	10kg/ ha
	<i>Hibiscus sturtii</i> *	
	<i>Waltheria indica</i> *	
	<i>Cleome viscosa</i> *	
	<i>Evolvulus alsinoides</i> *	
	<i>Indigofera linifolia</i>	
	<i>Sida fibulifera</i>	
	<i>Ptilotus fusiformis</i> *	
	<i>Tephrosia sp.*</i>	
	<i>Euphorbia sp.*</i>	
	<i>Cheilantes sp. #</i>	

*Species also found in RE 1.7.7a # Species particular to RE 1.7.7a, all other species particular to 1.11.2a

P-PRCP-100868442 Mt Carbine Tungsten Mine

Appendix 2 – Species list for Native vegetation that supports Low intensity grazing PMLU

Trees	Seeding rate
<i>Eucalyptus cullenii</i>	5kg/ha
<i>Corymbia clarksoniana</i>	
<i>Corymbia hylandii</i>	
<i>Eucalyptus chlorophylla</i>	
<i>Corymbia confertiflora</i>	
<i>Corymbia dallachiana</i>	
<i>Erythrophleum chlorostachys</i>	
<i>Eucalyptus tardecidens</i>	
<i>Terminalia platyptera</i>	
<i>Eucalyptus leptophleba</i>	
Shrubs	
<i>Melaleuca stenostachya</i>	
<i>Terminalia platyptera</i>	
<i>Petalostigma pubescens</i>	
<i>Melaleuca citrolens</i>	
<i>Carissa lanceolata</i>	
<i>Grevillea parallela</i>	
<i>Acacia oraria</i>	
<i>Gardenia vilhemii</i>	
<i>Erythroxylum ellipticum</i>	
<i>Grevillea coriacea</i>	

P-PRCP-100868442 Mt Carbine Tungsten Mine

<i>Grevillea striata</i>	
<i>Melaleuca viridiflora</i>	
<i>Petalostigma banksii</i>	
<i>Santalum lanceolatum</i>	
Grasses	10kg/ha
<i>Schizichyrium fragile</i>	
<i>Eragrostis</i> sp.	
<i>Heteropogon contortus</i>	
<i>Themeda triandra</i>	
<i>Themeda arguens</i>	
<i>Digitaria</i> sp	
<i>Panicum effusum</i>	
<i>Enneapogon</i> sp.	
Forbs	
<i>Crotolaria medicaginea</i>	
<i>Crotolaria montana</i>	
<i>Indigofera pratensis</i>	
<i>Ipomoea polymorpha</i>	
<i>Polymeria ambigua</i>	
<i>Evolvulus alsinoides</i>	
<i>Galactia tenuiflora</i>	
<i>Hybanthus enneaspermus</i>	
<i>Rostellularia adscendens</i>	

P-PRCP-100868442 Mt Carbine Tungsten Mine

<i>Grewia retusifolia</i>	
<i>Rhynchosia minima</i>	
<i>Tephrosia leptoclada</i>	

Appendix 3 - Erosion classification framework

Erosion classification	Minor	Moderate	Severe
Sheet erosion	Shallow soil deposits downslope	Partial exposure of roots; moderate soil deposits downslope.	Loss of surface horizon; subsoil exposure; root exposure; substantial soil deposits downslope.
Rill*	<15 rills/100m	15-30 rills/100m	>30 rills/100m
Gully erosion	Absent	Absent	Present
Tunnel erosion	Absent	Absent	Present
Mass movement	Absent	Absent	Present

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

* Rill frequency assessed on the contour over entirety of rehabilitation area (not only features that intersect a monitoring transect).

P-PRCP-100868442 Mt Carbine Tungsten Mine

Appendix 4 - Surface water quality limits

Quality characteristic (units)	Limit	Comment on limit
pH	6.7 - 7.6	Site-specific
Electrical Conductivity (µS/cm)	115	Site-specific
Turbidity (NTU)	26	Site-specific
Sulphate (mg/L)	3	Site-specific
Fluoride (mg/L)	0.2	Site-specific
Aluminium - dissolved (µg/L)	3,300	Site-specific (ANZG 2018 = 55 ug/L)
Antimony - dissolved (µg/L)	9	ANZG (2018)
Arsenic - dissolved (µg/L)	13	ANZG (2018)
Boron- dissolved (µg/L)	940	ANZG (2018)
Cadmium - dissolved (µg/L)	0.2	ANZG (2018)
Cobalt - dissolved (µg/L)	1.4	ANZG (2018)
Copper - dissolved (µg/L)	4	Site-specific (ANZG 2018 = 1.4 ug/L)
Manganese - dissolved (µg/L)	34	Site-specific (ANZG 2018 = 1,900 ug/L)
Molybdenum - dissolved (µg/L)	8	Site-specific (ANZG 2018 = 34 ug/L)
Nickel - dissolved (µg/L)	11	ANZG (2018)
Selenium - dissolved (µg/L)	5	ANZG (2018)
Tungsten - dissolved (µg/L)	1.2	Site-specific (No ANZG 2018)
Uranium - dissolved (µg/L)	0.5	ANZG (2018)
Zinc - dissolved (µg/L)	17	Site-specific (ANZG 2018 = 8 ug/L)
Total recoverable hydrocarbons (C6-C9) (µg/L)	For interpretation purposes	
Major ions (mg/L) Calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	For interpretation purposes	
Hardness (mg/L)	For interpretation purposes	

Notes:

- All metals and metalloids must be measured as 'dissolved' concentrations (i.e., from analysis of a field filtered sample) and total (unfiltered).

P-PRCP-100868442 Mt Carbine Tungsten Mine

- Limits for metals and metalloids apply to dissolved results. Except selenium.
- ANZG (2018) Aquatic ecosystem protection for moderately disturbed system.

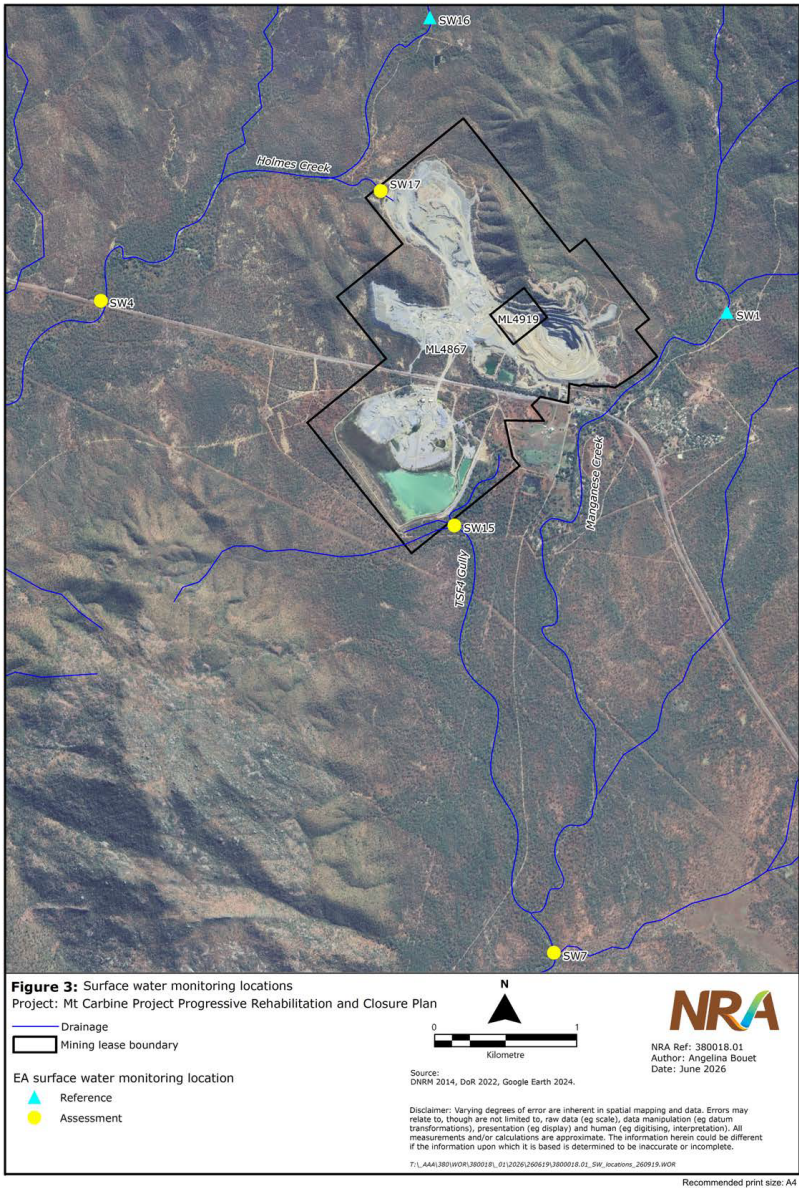
P-PRCP-100868442 Mt Carbine Tungsten Mine

Appendix 5 - Surface water monitoring locations

Monitoring Locations	Receiving waters location description	Latitude (Decimal degrees, GDA2020)	Longitude (Decimal degrees, GDA2020)
<i>Upstream monitoring locations</i>			
SW1	Manganese Creek, upstream of site	-16.522623	145.143037
SW16	Holmes Creek upstream of site	-16.504088	145.123536
<i>Downstream monitoring locations</i>			
SW15	TSF4 Gully	-16.535981	145.125148
SW7	Manganese Creek, 40 m downstream of confluence with gully	-16.560741	145.130408
SW17	Unnamed tributary of Holmes Creek	-16.514938	145.120303
SW4	Holmes Creek immediately upstream of crossing with Mulligan Highway	- 16.521824	145.101931

P-PRCP-100868442 Mt Carbine Tungsten Mine

Figure 3 - Surface water monitoring locations



P-PRCP-100868442 Mt Carbine Tungsten Mine

Appendix 6 - Groundwater monitoring locations

Monitoring Bore	Hydrogeological Unit	Location	
		Latitude (decimal degrees, GDA2020)	Longitude, decimal degrees, (GDA2020)
MB1A	Metasediments	-16.526115	145.118284
MB1B	Metasediments	-16.526115	145.118284
MB3A	Metasediments	-16.519817	145.135458
MB3B	Metasediments	-16.519817	145.135458
MB4A	Metasediments	-16.536601	145.125835
MB4B	Metasediments	-16.536601	145.125835
MB6A	Metasediments	-16.532993	145.131519
MB6B	Metasediments	-16.532993	145.131519
MB7	Metasediments	-16.532507	145.129129
MB8	Metasediments	-16.51402	145.118177
IB02	Metasediments	-16.521158	145.127727
IB03	Metasediments	-16.527872	145.131314
IB04	Metavolcanics	-16.524482	145.135657
IB06	Metasediments	-16.531355	145.114167
IB07	Granite	-16.536078	145.121906
IB08	South Wall Fault	-16.527475	145.134362
SB03	Regolith	-16.536295	145.121951
SB04	Regolith	-16.535487	145.124488
SB05	Regolith	-16.53292	145.126452
SB07	Regolith	-16.524512	145.119882

P-PRCP-100868442 Mt Carbine Tungsten Mine

Figure 4 - Groundwater monitoring locations



P-PRCP-100868442 Mt Carbine Tungsten Mine

Appendix 7 - Groundwater quality limits

Quality characteristic (units)	Monitoring Bore	Limit	Comment
pH (pH units)	All bores	6.0-8.0	
Electrical Conductivity (µS/cm)	All bores	5,480	Site-specific
Sulfate (mg/L)	All bores	310	Site-specific
Fluoride (mg/L)	All bores	4	Site-specific
Aluminium - dissolved (µg/L)	All bores	55	ANZG (2018)
Antimony - dissolved (µg/L)	All bores	9	ANZG (2018)
Arsenic - dissolved (µg/L)	All bores	13	ANZG (2018)
Boron- dissolved (µg/L)	All bores	210	Site-specific
Cadmium - dissolved (µg/L)	All bores	0.2	ANZG (2018)
Cobalt - dissolved (µg/L)	All bores	1.4	ANZG (2018)
Copper - dissolved (µg/L)	All bores	2	Site-specific
Manganese - dissolved (µg/L)	All bores	540	Site-specific
Molybdenum - dissolved (µg/L)	All bores	4	ANZG (2018)
Nickel - dissolved (µg/L)	All bores	11	ANZG (2018)
Selenium - total (µg/L)	All bores	5	ANZG (2018)
Tungsten - dissolved (µg/L)	All bores	5	Site-specific
Uranium - dissolved (µg/L)	All bores	11	Site-specific
Zinc - dissolved (µg/L)	All bores	36	Site-specific
Major ions (mg/L) - calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	All bores	For interpretation purposes	
Hardness (mg/L)			
Water level (mAHD)	All bores	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. Except selenium.

P-PRCP-100868442 Mt Carbine Tungsten Mine

- ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection)
- * Unless bore-specific values are provided in table below

	IB02	IB03	IB04	IB06	MB1A	MB1B	MB3A	MB3B	MB4A	MB4B	MB6A	MB6B
Electrical Conductivity (µS/cm)	732	9,665	2,548	5,846	1,998	3,904	809	885	1,620	2,601	5,654	5,762
Sulfate (mg/L)	26	296	326	150	45	51	62	120	270	350	110	110
Fluoride (mg/L)					1.0	4.5	4.3	6.7	3.6	3.9	1.8	1.0
Arsenic - dissolved (µg/L)			108	130			65	38		30		30
Boron - dissolved (µg/L)					50	52	40	150	140	220	130	140
Cobalt - dissolved (µg/L)			6				4		6	6		7
Manganese - dissolved (µg/L)	189	160	2,825	166	187	565	220	745	510	566	124	9,220
Selenium - dissolved (µg/L)												12
Tungsten - dissolved (µg/L)						11	45	80	17	23	10	
Uranium - dissolved (µg/L)											51	63

P-PRCP-100868442 Mt Carbine Tungsten Mine

Appendix 8 - BioCondition Benchmark Criteria for Grassland PMLU

BioCondition Assessable Attributes	Weighting	Scores		Native vegetation benchmarks		
		RM7	RM8	RE 1.11.2a	RE 1.7.7.a	RE Hybrid 1.11.2a/1.7.7.a
Recruitment of canopy species (% of trees)	5	≥ 20% of dominant canopy species	≥20 – 75% of dominant canopy* species present as regeneration	100	100	100
Tree canopy height (m)	5	≥ 25% of benchmark height	≥ 25% of benchmark height	6m	5m	5.5m
Tree (native) species richness	5	≥ 25-90% of benchmark	≥ 25-90% of benchmark	2	3	3
Shrub (native) species richness	5	≥ 25-90% of benchmark	≥ 25-90% of benchmark	5	4	4
Grass (native) species richness*	5	≥ 25-90% of benchmark	≥ 25-90% of benchmark	8	3	4
Forb/other (native) species richness*	5	≥ 25-90% of benchmark	≥ 25-90% of benchmark	12	8	10
Tree canopy cover (%)	5	≥10% and ≤200% relative to benchmark	≥50% and ≤200% relative to benchmark	12%	8%	10%
Shrub canopy cover (%)	5	≥10% relative to benchmark	≥50% and ≤200% relative to benchmark	18%	12%	15%
Native perennial grass cover (%)	5	≥ 50% of benchmark	≥90% of benchmark	56%	41%	48.5%
Litter (%)	5	≥ 10% of benchmark	≥ 50% of benchmark	5%	3%	4%
Non-native plant cover (%)	10	<10% of vegetation cover	<10% of vegetation cover	0	0	10%
Total score	60	≥ 20	≥ 40			

Note:

- 1 Native vegetation benchmarks for regional ecosystem (RE) 1.11.2a and 1.7.7.a are sourced from the Queensland Government's unpublished and draft BioCondition benchmarks. The native vegetation benchmarks stipulated in this table may change over time and/or when the complete dataset is published on the Queensland Government BioCondition benchmark database. Where variations in benchmarks occur between this table and the BioCondition benchmark database, the scores within this table may require amendment to reflect the published benchmarks per the Queensland Government BioCondition benchmark database.

P-PRCP-100868442 Mt Carbine Tungsten Mine

Appendix 9 - BioCondition Benchmark Criteria for Native vegetation that supports Low Intensity Grazing PMLU

Regional Ecosystem	BVG 3/5			
	Based on Benchmark for RE- 9.11.3b Low open woodland of <i>Eucalyptus cullenii</i> ± <i>Corymbia hylandii</i> ± <i>C. clarksoniana</i>			
BioCondition attribute	Weighting	Reference Benchmark	Modified benchmark for RM7 (≥20/60)	Modified benchmark for RM8 (≥ 40/60)
Non-native plant cover(%)	10	0	10%	10%
Dominant canopy species present as regeneration	5	100%	100%	100%
Tree height	5	11m	5m	10m
Native tree species richness	5	5	3	3
Native shrub species richness	5	6	3	3
Grass species richness*	5	11	6	6
Forbs and other species richness*	5	32	12	12
Native tree canopy cover (%)	5	20%	5%	10%
Native shrub canopy cover (%)	5	5%	1%	2.5%
Native perennial grass cover (%)	5	52%	12%	26%
Organic litter ground cover (%)	5	15%	3%	7%
Overall score required	60		20	40

Note:

Native vegetation benchmarks for regional ecosystem (RE) 9.11.3b is sourced from the Queensland Government's unpublished and draft BioCondition benchmarks. The native vegetation benchmarks stipulated in this table may change over time and/or when the complete dataset is published on the Queensland Government BioCondition benchmark database. Where variations in benchmarks occur between this table and the BioCondition benchmark database, the scores within this table may require amendment to reflect the published benchmarks per the Queensland Government BioCondition benchmark database.

END OF PRCP SCHEDULE